



Drinking Water System Annual Report

Reporting Period	January 1, 2020 to December 31, 2020
Water System Name	Gibsons Water System
Water System Owner	Town of Gibsons
Primary Contact Name (Operator or Manager)	Daniel Tardif, Manager of Maintenance and Operations
Phone Number (Operator or Manager)	
Email (Operator or Manager)	dtardif@gibsons.ca

Describe Your Water Supply System

What is the source(s) of Raw Water?

Deep Well Shallow Well Surface Water Other (specify): _____

Does the Drinking Water System have Primary Disinfection? Yes No

Chlorination Ultraviolet light Ozonation Other (specify): _____

Does the Drinking Water System have Secondary Disinfection? Yes No

Chlorination Ultraviolet light Ozonation Other (specify): Chlorination in Zone #3 only.

Does the Drinking Water System have Filtration? Yes No

Filter Type (check boxes that apply):

Cartridge Filter (1 micron, 5 micron, 10 micron) Carbon Filter Sand Filtration Reverse Osmosis

Other (specify): _____

Public Reporting

Emergency Response & Contingency Plan (ERCP)

Is your ERCP up to date? Yes No

How do you inform the users of the ERCP?

Hand Delivered Utility Bill Insert Bulletin Board Website (specify); www.gibsons.ca

Other (specify): email (internal users only)

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How do you inform system users of the Annual Report?

Hand Delivered Public Bulletin Board Newspaper Utility Bill Insert Website (specify); www.gibsons.ca

Other method (specify): _____



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Compliance with Operating Permit

List the conditions of your Operating Permit (Contact the DWO for a copy if needed):

1. Minimum bacteriological sampling frequency is 37 samples per month from 12 distribution sample sites and 3 source sites.
2. Provide and make public, within 6 months of the end of the calendar year, an Annual Report.

Are you in compliance with the Operating Permit? Yes No

Bacteriological Testing Completed During This Reporting Period

How many bacteriological samples did you collect? 446

Bacteriological summary attached to this report. Yes No; If no, how do the users view the results?

Via website www.gibsons.ca.

In order to meet the potability standard no more than 10% of samples can show the presence of total coliform bacteria and no samples can show the presence of E coli.

Did your water system meet this standard? Yes No

If No, complete the table below; Attach additional sheets if necessary.

Date	T. Coliform #	E. Coli #	Reason	Corrective Action

Chemical Sampling Completed During This Reporting Period

Did you conduct any chemical sampling: Yes No?

Did all treated water samples meet the Guidelines for Canadian Drinking Water Quality? Yes No

If no, record the parameters in the table below: Complete additional sheets if necessary.

Parameter	Result	Corrective Action/Treatment



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Additional Testing

Did you complete any additional water testing in this reporting period? Yes No

If yes, complete the table below. Attach additional sheets if necessary.

Additional Testing & Reason for Sampling	Corrective Action Taken
Watermain testing of new Prowse Road main, Arbutus Reach main, Reed Road main, and Park Road main prior to tie-in.	None required

Water Quality Complaints

Did you receive any water quality complaints in this reporting period? Yes No

If yes, complete the table below. Attach additional sheets if necessary.

Date	Water Quality Complaint (i.e. taste, odour, colour, etc.)	Corrective Action Taken
July 2020	Taste and odour	Complaints occurred during the water main replacement work where we chlorinated the entire Gibsons water distribution system. Complaints ended with the end of chlorination.

Operational Problems

Did you experience operational problems during this reporting period? Yes No

(Typical operational problems are insufficient water supply, malfunction of disinfection equipment, line breaks, elevated turbidity, etc.).

If yes, complete the table below. Attach additional sheets if necessary.

Incident Date	Type of Operational Problem	Corrective Action Taken



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Major Upgrades/Repairs & Expenses

Did you complete any upgrades/repairs and incur major expenses in this reporting period? Yes No

If yes, complete the table below. Attach additional sheets if necessary.

Major Upgrades/Expenses	Details
Improvements required by DWO	None required
Additions/changes to system	Replacement of aging AC mains with PVC. 305m of 150mm; 20m of 200mm; 190m of 350mm; 106m of 300mm.
Purchase or installation of new equipment	New water booster station for Zone 3. Station includes 4 water pumps, a chlorination system for secondary disinfection, and a back-up generator for the system.
Equipment repair or replacement (existing)	None
Annual maintenance of system: (system flushing, replacement of carbon filters, etc.)	Annual hydrant maintenance; annual universal flushing program; annual CCC testing program; semi-annual chlorination of the Parkland reservoir; Comprehensive assessment and maintenance performed on all 4 Pressure-Reducing-Valve (PRV) stations (November 2020)
Specialist report	Annual groundwater monitoring program (completed by Waterline Resources Ltd)
Other	

Future Improvements

Do you have plans for any future improvements? Yes No

If yes, complete the table below. Attach additional sheets if necessary.

Future Upgrades or Improvements	Est. date of completion
Installation of a Variable-Frequency-Drive (VFD) for Well 3 pump for more efficient operation	October 2021
Cathodic protection for corrosion control on Parkland Reservoir	October 2021
Installation of new supply well pumping station for Zone 2	December 2021
Ongoing watermain replacements	Annual
Installation of 2 VFD's for School Rd pump station to improve operation	September 2021
Refurbishing of the Pressure Reducing Valve (PRV) chamber on Creekside Crescent to connect Zone 3 to Zone 2 for emergency/fire-flow supply	August 2021

Date Completed; May 26, 2021

Completed by: Daniel Tardif, Manager of Maintenance and Operations

Signature