



Permit to Operate a Hygienic Waterworks

Environmental and Municipal
Management Services Division

Altered Pursuant to Section 28(1)(h) of *The Environmental Management and Protection Act, 2010*

Page: 1 of 6

Permit No.: 00063932-01-00

File: 21020-50/WW/OP/Wee Too Beach

To: **the Resort Village of Wee Too Beach** (the Permittee), the person responsible for the waterworks located in the Resort Village of Wee Too Beach and at the waterworks located on the South East Quarter of Section 8, Township 23, Range 23, West of the Second Meridian, which must provide water for hygienic use to the Resort Village of Wee Too Beach in the Province of Saskatchewan.

PURSUANT to Section 28 of *The Environmental Management and Protection Act, 2010*, the Permit to Operate a Waterworks No.00063932-00-00 issued to the Permittee on September 1, 2014, whose waterworks is located in the Resort Village of Wee Too Beach and at the waterworks located on the South East Quarter of Section 8, Township 23, Range 23, West of the Second Meridian in the Province of Saskatchewan, is hereby altered and amended, subject to the terms and conditions attached to this Permit.

This Permit takes effect on the **31st day of December, 2018**.

This Permit expires on the **31st day of December, 2023**, unless canceled or suspended before that date.

Issued

WATER SECURITY AGENCY

A handwritten signature in blue ink that reads "Lauren Daly".

Lauren Daly, B.Sc. (Hons)
Environment Officer

Environmental and Municipal Management Services Division
Strasbourg Field Office

Terms and Conditions

Section One: Definitions

- 1.1 All words and phrases have the same definitions as set out in *The Environmental Management and Protection Act, 2010*, or *The Waterworks and Sewage Works Regulations*, as the case may be.
- 1.2 In this Permit:
 - (a) "Act" means *The Environmental Management and Protection Act, 2010*;
 - (b) "Regulations" means *The Waterworks and Sewage Works Regulations*;
 - (c) "Environmental and Municipal Management Services Division" means the Environmental and Municipal Management Services Division of the Water Security Agency of Saskatchewan;
 - (d) "Environment Officer" has the same meaning as defined in the Act.
 - (e) "Accredited" means a laboratory accredited pursuant to the requirements of the Canadian Association for Laboratory Accreditation in accordance with the parameters for which the laboratory has been accredited;
 - (f) "Positive Bacteriological Result" means a test result showing the presence of total coliforms, *Escherichia coli* or 200 or more organisms per 100 millilitres as an overgrowth of background bacteria.
 - (g) "Hygienic use" has the same meaning as defined in the *Regulations*.
 - (h) "Water rights license" is a water rights license issued pursuant to section 50 of *The Water Security Agency Act*.
 - (i) "Approval to Operate a Surface Water Works/Ground Water Works" is an approval to operate a raw water supply works that is issued pursuant to section 59 of *The Water Security Agency Act*.

Section Two: Alternative Supply of Safe Drinking Water

- 2.1 The Permittee shall provide an alternate source of water that is suitable and safe for human consumption to the consumers served by the hygienic waterworks.
- 2.2 Where the alternate source of safe drinking water is bottled water, the Permittee shall provide the Minister with an annual report demonstrating that there is an adequate supply available.

Section Three: Operation

- 3.1 The Permittee shall comply with the *Act* and the *Regulations*, and the Terms and Conditions of this Permit.
- 3.2 In the event of an inconsistency between the *Act* and this Permit, or the *Regulations* and this Permit, the more stringent requirement shall apply.
- 3.3 The Permittee shall have a valid "Water Rights License" and a valid "Approval to Operate a Surface Water Works/Groundwater Works" issued pursuant to *The Water Security Agency Act*.
- 3.4 The Permittee shall not alter the waterworks without approval of the Environmental and Municipal Management Services Division.
- 3.5 Where all or part of a distribution system is altered or repaired, the Permittee shall, before the commencement of its use, after completion of the alteration, or repair to the waterworks:
 - (a) disinfect the portion of the distribution system that has been altered or repaired; and
 - (b) take water samples from the distribution system that has been altered or repaired, and have the samples analyzed for bacteria.

Section Four: Sampling and Monitoring and Water Quality

- 4.1 The Permittee shall cause water samples to be taken from the waterworks to test for bacteria and chlorine residual (subject to 4.3) at the locations, times and frequency set out in Appendix A.
- 4.2 The Permittee shall satisfy the minister that 90% of routine bacteriological samples of water from the waterworks have met the requirements for bacteriological as set out in Appendix B over any period of one year.
- 4.3 Failing to maintain the requirements of 5.2, the Permittee shall cause to be maintained the free chlorine residual and the total chlorine residual as set out in Appendix B.
- 4.4 Subject to 4.5, the Permittee shall have water samples analyzed by an accredited laboratory in accordance with the *Regulations*.
- 4.5 The Permittee shall take water samples in accordance with the instructions provided by the institution or laboratory which provides the sampling bottles or containers.
- 4.6 The Permittee shall ensure that all water quality monitoring and testing equipment be maintained and calibrated on a frequency as recommended by the manufacturer.

Section Five: Record keeping

- 5.1 The Permittee shall maintain records containing the following information:
 - (a) total water pumped into the distribution system on a daily basis or the total raw water used;
 - (b) the types, dosages and total amounts of chemicals applied to the water for treatment;

- (c) the locations from which samples for any tests conducted by the Permittee of the waterworks were taken in accordance with this permit and the name of the person who conducted the sampling or testing and the results of those tests;
- (d) any departures from normal operating procedures that may have occurred and the time and date that they occurred;
- (e) any instructions that were given during operation of the waterworks to depart from normal operating practices and the name of the person who gave the instructions;
- (f) any upset condition or bypass condition, the time and date of the upset condition or bypass condition and measures taken to notify others and resolve the upset condition or bypass condition;
- (g) any condition of low disinfectant levels, the time, date and location of occurrence and measures taken to restore disinfectant levels to required values;
- (h) the dates and results of calibrating any metering equipment and testing instruments; and
- (i) the dates and types of maintenance performed on equipment and any actions taken to ensure the normal operation of the waterworks.

5.2 The Permittee shall cause the operational records or logs mentioned in 5.1 to be recorded and maintained in the following manner:

- (a) operational records or logs must be made in chronological order, with the dates, times and testing locations clearly indicated;
- (b) entries in an operational record or log must only be made by the Permittee, which includes by definition any principal or agent of a Permittee;
- (c) any person making an entry in an operational record or log must do so in a manner that allows the person to be unambiguously identified as the maker of the entry; operational records or logs must be maintained on a daily basis and retained for at least five years;
- (d) any anomalies or instances of missing entries in an operational record or log must be accompanied by explanatory notes;
- (e) operational records or logs must only contain data or information that is actually observed or produced;
- (f) operational records or logs must not contain default values generated manually or by automated means;
- (g) operational records or logs maintained pursuant to clause (d) must be made available promptly on request of the minister.

5.3 The Permittee shall review the records and logs mentioned in 5.1 on a monthly basis to ensure that the operating parameters are being achieved and that the limits set out in Appendix B are not exceeded.

5.4 The Permittee shall report the findings to the Minister as soon as is reasonably practicable after each review required by 5.3 should the review of the records and logs indicate that the quality of water from the waterworks has been adversely affected that any upset condition, bypass condition or event at the waterworks has not been reported, or that on-site water quality testing records are missing.

Section Six: Reporting and Consumer Reporting

6.1 The Permittee shall submit the results of water sampling analysis performed in accordance with this Permit to the Environmental and Municipal Management Services Division:

- (a) in the case of a positive bacteriological result, within 24 hours following completion of the sampling analysis.

6.2 The Permittee shall direct the laboratory performing its water sampling analysis to submit the results within the timeframes mentioned in 5.1 directly to the Environmental and Municipal Management Services Division, in a format in accordance with the Environmental Management System) Lab/Operator (LAB-OPR) Data File Format, in addition to submitting the written results to the Permittee.

6.3 The Permittee shall report to the Minister any known or anticipated upset condition, bypass condition or events at or affecting a waterworks that could adversely affect the quality of water produced by the Waterworks.

6.4 The Permittee and every employee, agent, or contractor engaged by the permittee shall immediately report to the Minister any instance where:

- (a) disinfection equipment fails;
- (b) the level of disinfection identified in Appendix B is not achieved or is not anticipated to be achieved;
- (c) any other parameter level identified in Appendix B is not achieved or is not anticipated to be achieved;
- (d) there is a, retirement, suspension, resignation, scheduled absence or termination of employment of any waterworks distribution or waterworks treatment operator, or any anticipated retirement, suspension, resignation or termination; or
- (e) a system depressurization has occurred.

6.5 The Permittee shall instruct its employees, agents and contractors performing work or service in relation to the waterworks, of their obligation under section 34(1) of the *Regulations* and to report to the Minister any instance as described in 6.4 and any known or anticipated upset condition, bypass condition or events at or affecting a waterworks that could adversely affect the quality of water produced by the waterworks.

6.6 The Permittee shall as soon as reasonably practical report any events other than those mentioned in 6.3 and 6.4 to the Minister.

- 6.7 The Permittee shall, once per calendar year, provide the consumers supplied by the waterworks with a notification of:
- (a) the quality of water produced or supplied by the waterworks in comparison with the levels set out in this permit;
 - (b) the Permittee's compliance with sample submission requirements described in this permit.
- 6.8 Within 30 days after providing consumer notification required by 6.7, the Permittee shall provide a written copy of the notification to the Minister.
- 6.9 The Permittee shall maintain records of on-site testing of chlorine residuals, and make them available to the Minister upon request. For all other parameters, the Permittee shall ensure that reporting is conducted in accordance with Section 37 of *The Waterworks and Sewage Works Regulations*.
- 6.10 The Permittee shall ensure that:
- (a) at least twice every year, the owner of every service connection is notified in writing respecting the restrictions on water use for the hygienic system;
 - (b) at least once every year, the owner of every service connection is supplied with self-adhesive advisory labels that:
 - (i) are acceptable to the Minister; and
 - (ii) are to be attached adjacent to taps within the structure so as to advise users that the water is not safe for human consumptive use;
 - (c) the waterworks, standpipes, fill pipes and other publicly accessible water sources found on the distribution system are continuously posted with a notice that the water is not safe for human consumptive use;
 - (d) the Minister is advised at least once each year as to all measures taken to advise users that the water is not safe for human consumption.

Section Seven: Inspection

- 7.1 An Environment Officer may enter the waterworks at any time to conduct an inspection to ensure that the Permittee is complying with this Permit, the *Act* or the *Regulations*.
- 7.2 Upon the request of an Environment Officer, the Permittee shall immediately provide any books, records, logs, graphs, papers, documents, or data, including any computer, digital or electronic records, logs, graphs, files or data maintained with respect to the waterworks.

Section Eight: General

- 8.1 A copy of this Permit shall be posted in a conspicuous place at the waterworks.
- 8.2 The Permittee shall provide each operator of the waterworks with a copy of this Permit and the *Regulations*.
- 8.3 The Minister may cancel, alter or suspend this Permit for the reasons and in the manner set out in the *Act*.
- 8.4 The Permittee shall apply for renewal/alteration of this permit at least 60 days prior to its expiry.
- 8.5 In the event of any inconsistency between a previously issued "Permit to Operate a Waterworks", and the Terms and Conditions of this "Permit to Operate a Waterworks", the Terms and Conditions of this Permit prevail.
- 8.6 Where any notice or reporting is required to be given by the Permittee, it shall be provided to:

Water Security Agency
Lauren Daly
101-111 Fairford Street East
Moose Jaw SK S6H 7X9

Telephone (306) 694-3939
Fax: (306) 694-3105

After hours, weekends and holidays, the Agency can be contacted by calling the 1-844-536-9494
Upset Report Line

Appendix A

File: 21020-50/WW/OP/Wee Too Beach
Hygienic Waterworks Monitoring Schedule
Station No. SK05JH0278

Parameter	Testing Required	Limit ¹ Applied	Treated Water Sampling Locations and Minimum Sampling Frequency
	Yes	Yes	
1. Bacteriological	X	X	<p>Once (1) every month from representative locations in the distribution system during the months of April, May, June, July, August, September, October. Samples must be collected at least 14 days apart.</p> <p>Upon start-up in April/May, 2 sets of 3 samples collected 24 hours apart from three different points of use in the distribution system will be collected and submitted for analysis. (marked as Other).</p> <p>Repeat and Special samples resulting from follow-up to a contaminated regular sample are not considered as regular sample submissions.</p>
2. Chlorine Residual (on-site testing)	Subject to Section 4.2 and 4.3	X	<p>At least once (1) per day for free residual in the water entering a distribution system during the months of April, May, June, July, August, September, October;</p> <p>AND</p> <p>at the same frequency and locations as for bacteriological sampling, for free and total residuals.</p>

¹. Limits for identified parameters are provided in Appendix B.

Appendix B Permit Limits

The following Water Quality limits apply where identified in Appendix A

Bacteriological:

- (a) total coliform levels of zero organisms detectable per 100 millilitres;
- (b) *Escherichia coli* levels of zero organisms detectable per 100 millilitres; and
- (c) background bacteria levels on a total coliform or a fecal coliform membrane filtration plate of less than 200 organisms per 100 millilitres or no overgrowth.

Chlorine Residual

- (a) free residual of not less than 0.1 milligrams per litre in the water entering a distribution system;
and
- (b) a total chlorine residual of not less than 0.5 milligrams per litre or a free chlorine residual of not less than 0.1 milligrams per litre in the water throughout the distribution system.