Ontario

DRINKING WATER WORKS PERMIT

Permit Number: 090-201
Issue Number: 6

Pursuant to the *Safe Drinking Water Act*, 2002, S.O. 2002, c. 32, and the regulations made thereunder and subject to the limitations thereof, I hereby issue this drinking water works permit under Part V of the *Safe Drinking Water Act*, 2002, S.O. 2002, c. 32 to:

The Corporation of the Township of North Huron

274 Josephine Street
P.O. Box 90
Wingham ON N0G 2W0

For the following municipal residential drinking water system:

Blyth Drinking Water System

This drinking water works permit includes the following:

Schedule	Description
Schedule A	Drinking Water System Description
Schedule B	General
Schedule C	All documents issued as Schedule C to this drinking water works permit which authorize alterations to the drinking water system
Schedule D	Process Flow Diagrams

Upon the effective date of this drinking water works permit # 090-201, all previously issued versions of permit # 090-201 are revoked and replaced by this permit.

DATED at TORONTO this 17th day of June, 2025

Signature

A. Ahmed

Aziz Ahmed, P.Eng.
Director
Part V, *Safe Drinking Water Act*, 2002

Schedule A: Drinking Water System Description

System Owner	**The Corporation of the Township of North Huron**
Permit Number	**090-201**
Drinking Water System Name	**Blyth Drinking Water System**
Permit Effective Date	**June 17th, 2025**

1.0 System Description

1.1 The following is a summary description of the works comprising the above drinking water system:

Overview

The **Blyth Drinking Water System** consists of three (3) groundwater wells, a well pumphouse for wells 1 and 2 consisting of an iron sequestration system, a chlorination system, one (1) storage reservoir, high lift pumps, hydropneumatic pressure tanks, instrumentation and control, and a standby power diesel generator, a well pumphouse for well 5 consisting of an iron sequestration system, a chlorination system, instrumentation and control, and a standby diesel generator, and a distribution system consisting of approximately 12.7 kilometers of distribution watermains.

Blyth Treatment Plant

Groundwater Supplies

Well No. 1

Location	Unopened road allowance for Water Street, Registered Plan 175, approximately 16 m east of Queen Street and 54 m south of Victoria Street in the Village of Blyth, Ontario
UTM Coordinates	NAD 83, Zone 17, +/- 5 m, Easting 465641 m, Northing 4843012 m
WWR No.	3000111
Description	Drilled groundwater production well
Source Type	Groundwater (non-GUDI)
Dimensions	203 mm diameter, 73.15 m deep
Equipment	One (1) submersible well pump with a rated capacity of 7.2 L/s at 35 m TDH
	One (1) 100 mm diameter well pump discharge line, discharging to the reservoir via a common 100 mm diameter watermain, valved bypass line
	One (1) 100 mm diameter magnetic flow meter at discharge pipe, complete with signal converter and common data logger
	One (1) backflow preventer at raw water service line
Iron Sequestering	Two (2) sodium silicate chemical feed pumps (one duty and one off-line standby for both wells), capable of feeding solution to the well pump discharge line
	One (1) sodium silicate chemical storage tank and spill containment basin
Sodium Hypochlorite Disinfection	Two (2) sodium hypochlorite chemical feed pumps (one duty and one standby)
	One (1) sodium hypochlorite chemical storage tank and spill containment basin, complete with low level alarm and interlock well pump shutdown upon low level of solution
	One (1) feed line discharging to the pump discharge line at the exit from the pumphouse
Standby Power	See High Lift Pumphouse
Notes	Well cap openings sealed, blow-off cap installed, treated water piping modified to direct treated water discharge into the reservoir at the far end from reservoir outlet

Well No. 2

Location	Lot No. 120, Registered Plan No. 168, approximately 26 m east of Queen Street and 18 m south of Victoria Street in the Village of Blyth, Ontario
UTM Coordinates	NAD 83, Zone 17, +/- 13 m, Easting 465652 m, Northing 4843041 m
WWR No.	3002541
Description	Drilled groundwater production well
Source Type	Groundwater (non-GUDI)
Dimensions	203 mm diameter, 79.25 m deep
Equipment	A submersible well pump rated at 12 L/s at 25 m TDH
	100 mm diameter well pump discharge line, 75 mm water meter and valved bypass line, discharging to the reservoir via a common 100 mm diameter watermain
	One (1) 100 mm diameter magnetic flow meter at discharge pipe, complete with signal converter and common data logger
	One (1) backflow preventer at raw water service line
Iron Sequestering	One (1) sodium silicate chemical feed pump capable of feeding solution to well pump discharge line
	One (1) sodium silicate chemical storage tank and spill containment basin
Sodium Hypochlorite Disinfection	Two (2) sodium hypochlorite chemical feed pumps (one duty and one standby)
	One (1) sodium hypochlorite chemical storage tank and spill containment basin complete with low level alarm and interlock well pump shutdown upon low level of solution
	One (1) feed line discharging to the pump discharge line at the exit from the pumphouse
Standby Power	See High Lift Pumphouse
Notes	Well cap openings sealed, blow-off cap installed, treated water piping modified to direct treated water discharge into the reservoir, opposite of reservoir outlet

Well No. 5

Location	377 Gypsy Lane, approximately 23 m north of the arena and 40 m west of Gypsy Lane
UTM Coordinates	NAD 83, Zone 17, +/- 5 m, Easting 465215 m, Northing 4842719 m
Description	Drilled groundwater production well
Source Type	Groundwater (non-GUDI)
Dimensions	200 mm diameter, 35 m deep, 175 mm diameter, 4.9 - 47.5 m deep
Equipment	One (1) submersible well pump rated at 20 L/s at 92 m TDH
Notes	Well discharges to the Well No. 5 Pumphouse

Well No. 5 Pumphouse

Location	377 Gypsy Lane, approximately 20 m north of the arena and 30 m west of Gypsy Lane
UTM Coordinates	NAD 83, Zone 17, +/- 5 m, Easting 465224 m, Northing 4842714 m
Sodium Hypochlorite Disinfection	Two (2) chemical metering pumps (one duty and one standby) each capable of pumping 3.0 L/hr into the Well No. 5 header
	One (1) sodium hypochlorite solution storage tank and spill containment basin, complete with low level alarm and interlock well pump shutdown upon low level of solution
Sodium Silicate Iron Sequestering	Two (2) chemical metering pumps (one duty and one standby) each capable of pumping 0.36 L/hr into the Well No. 5 header
	One (1) sodium silicate solution storage tank and spill containment basin
Chlorine Contact Watermain	150 m of 300 mm diameter watermain with no service connections to provide chlorine contact for primary disinfection
Standby Power	One (1) 80 kW standby diesel generator
Chlorine Analyzers	One (1) free chlorine residual analyzer for pre-contact and one (1) free chlorine residual analyzer for post-contact
Notes	

On-Site Storage

Reservoir for Well #1 and Well #2

Location	Spanning Lots No. 119 and 120, Registered Plan 168, approximately 10 m east of Queen Street and 30 m south of Victoria Street in the Village of Blyth, Ontario
UTM Coordinates	NAD 83, Zone 17, +/- 5 m, Easting 465635 m, Northing 4843033 m
Description	In-ground treated water reservoir for chlorine contact time for Well 1 and 2.
Dimensions	18.3 m long by 9.1 m wide by 2.4 m deep
Capacity	Operating capacity of 379 m^3
Equipment	Eight (8) sections of reinforced polypropylene geomembrane baffles, each approximately 8 m long by 2.4 m high in reservoir
	A low level switch to shut off high lift pumps when water level in reservoir is below approximately 0.46 m in depth
	One (1) 100 mm diameter backflow preventer at reservoir overflow pipe
	A pre-contact continuous chlorine residual analyzer at the head of the reservoir complete with well pump interlocks upon low/high chlorine residual
	Level controllers to control pumps and maintain water levels.
Notes	

High Lift Works

High Lift Pumphouse for Well #1 and Well #2

Location	Unopened road allowance for Water Street, Registered Plan 175, approximately 8 m east of Queen Street and 66 m south of Victoria Street in the Village of Blyth, Ontario
UTM Coordinates	NAD 83, Zone 17, +/- 5 m, Easting 465634 m, Northing 4843000 m
Equipment	One (1) centrifugal pump (High Lift Pump No. 1) rated at 11.4 L/s at 53 m TDH
	One (1) centrifugal pump (High Lift Pump No. 2) rated at 9.5 L/s at 53 m TDH
	One (1) diesel standby high-lift pump rated at 63 L/s at 70 m TDH
	Four (4) hydropneumatic tanks, each with a total capacity of 450 L
	Two (2) backflow preventers, one at the 12 mm diameter outdoor faucet line and one at the 25 mm diameter cooling water line
	One (1) 150 mm diameter magnetic flow meter at the high lift pumps suction line, complete with control valves, meter by-pass piping and signal transmitter to the common data logger housed in the high lift building
Standby Power	One (1) 50 kW diesel generator and 450 L fuel storage tank providing standby power to Well No. 1, Well No. 2, both high lift pumps, and the disinfection system
Notes	Hose connection from high lift pump discharge line removed and capped

Instrumentation and Control

SCADA System

Description	The automatic control of Well 5 is performed by a PLC controller with an HMI, datalogging current conditions at a set interval.
Notes	

Fuel Oil Systems

Fuel Storage Locations

Location	Pumphouse for wells 1 and 2 approximately 8 m east of Queen Street and 66 m south of Victoria Street 43.736616, -81.431726
Description	Double walled 454 L tank for backup generator
Fuel Type	Diesel
Source Protection Area	Maitland Valley
Notes	This information may change once the fuel storage and handling assessment is completed. TBD

Location	Well 5 377 Gypsy Lane 43.739171, -81.426937
Description	990 L tank for backup generator with secondary containment
Fuel Type	Diesel
Source Protection Area	Maitland Valley
Notes	This information may change once the fuel storage and handling assessment is completed. TBD

Watermains

1.2 Watermains within the distribution system comprise:

1.2.1 Watermains that have been set out in each document or file identified in column 1 of Table 1.

Table 1: Watermains

Column 1 Document or File Name	Column 2 Date
2025 Blyth Water System Map	May 14, 2025

1.2.2 Watermains that have been added, modified, replaced or extended further to the provisions of Schedule C of this drinking water works permit on or after the date identified in column 2 of Table 1 for each document or file identified in column 1.

1.2.3 Watermains that have been added, modified, replaced or extended further to an authorization by the Director on or after the date identified in column 2 of Table 1 for each document or file identified in column 1.

Schedule B: General

System Owner	**The Corporation of the Township of North Huron**
Permit Number	**090-201**
Drinking Water System Name	**Blyth Drinking Water System**
Permit Effective Date	**June 17th, 2025**

1.0 Applicability

1.1 In addition to any other applicable legal requirements, the drinking water system identified above shall be altered and operated in accordance with the conditions of this drinking water works permit and the licence #090-101.

1.2 The definitions and conditions of licence #090-101 are incorporated into this permit and also apply to this drinking water system.

2.0 Alterations to the Drinking Water System

2.1 Any document issued by the Director to be incorporated into Schedule C to this drinking water works permit shall provide authority to alter the drinking water system in accordance with the applicable conditions of this drinking water works permit and licence #090-101.

2.2 All documents issued by the Director as described in condition 2.1 shall form part of this drinking water works permit.

2.3 All parts of the drinking water system in contact with drinking water that are added, modified, replaced, extended shall be disinfected in accordance with a procedure approved by the Director or in accordance with the applicable provisions of the following documents:

a) The ministry's Watermain Disinfection Procedure, dated August 1, 2020;
b) Subject to condition 2.3.2, any updated version of the ministry's Watermain Disinfection Procedure;
c) Subject to condition 2.3.3,
   i. AWWA C652 – Standard for Disinfection of Water-Storage Facilities;
   ii. AWWA C653 – Standard for Disinfection of Water Treatment Plants; and
   iii. AWWA C654 – Standard for Disinfection of Wells.

2.3.1 For greater certainty, where an activity has occurred that could introduce contamination, including but not limited to repair, maintenance, or physical / video inspection, all equipment that may come in contact with the drinking water system shall be disinfected in accordance with the requirements of condition 2.3. above.

2.3.2 Updated requirements described in condition 2.3 b) are effective six months from the date of publication of the updated Watermain Disinfection Procedure.

2.3.3 Requirements described in condition 2.3 c) are effective until:

a) In the case of AWWA C652, six months after the issue date of the ministry's Water Storage Facility Disinfection Procedure;
b) In the case of AWWA C653, six months after the issue date of the ministry's Water Treatment Plant Disinfection Procedure; and,
c) In the case of AWWA C654, six months after the issue date of the ministry's Wells Disinfection Procedure.

2.3.4 The ministry documents described in condition 2.3.3 shall be implemented within the timeframe specified in condition 2.3.3 and once implemented all parts of the drinking water system in contact with drinking water that are added, modified, replaced or extended shall be disinfected in accordance with the applicable provisions of the document or a procedure approved by the Director.

2.3.5 After the initial issue date, any updated requirements are effective six months from the date of publication of the updated Water Storage Facility Disinfection Procedure, Water Treatment Plant Disinfection Procedure or Wells Disinfection Procedure.

2.3.6 For greater certainty the timeframes described in conditions 2.3.2, 2.3.3 and 2.3.5 are intended to provide a period for transition. Implementation may occur at any point within the identified timeframe in these conditions.

2.4 The owner shall notify the Director in writing within thirty (30) days of the placing into service or the completion of any addition, modification, replacement, removal or extension of the drinking water system which had been authorized through:

2.4.1 Schedule B to this drinking water works permit which would require an alteration of the description of a drinking water system component described in Schedule A of this drinking water works permit;

2.4.2 Any document to be incorporated in Schedule C to this drinking water works permit respecting works other than watermains; or

2.4.3 Any approval issued prior to the issue date of the first drinking water works permit respecting works other than watermains which were not in service at the time of the issuance of the first drinking water works permit.

2.5 The notification required in condition 2.4 shall be submitted using the "Director Notification Form" published by the Ministry.

2.6 For greater certainty, the notification requirements set out in condition 2.4 do not apply to any addition, modification, replacement, removal or extension in respect of the drinking water system which:

2.6.1 Is exempt from subsection 31(1) of the SDWA by subsection 9.(2) of O. Reg. 170/03;

2.6.2 Constitutes maintenance or repair of the drinking water system; or

2.6.3 Is a watermain authorized by condition 3.1 of Schedule B of this drinking water works permit.

2.7 The owner shall notify the legal owner of any part of the drinking water system that is prescribed as a municipal drinking water system by section 2 of O. Reg. 172/03 of the requirements of the licence and this drinking water works permit as applicable to the prescribed system.

2.8 For greater certainty, the owner may only carry out alterations to the drinking water system in accordance with this drinking water works permit after having satisfied other applicable legal obligations, including those arising from the *Environmental Assessment Act*, *Niagara Escarpment Planning and Development Act*, *Oak Ridges Moraine Conservation Act, 2001* and *Greenbelt Act, 2005*.

3.0 Watermain Additions, Modifications, Replacements and Extensions

3.1 The owner may alter the drinking water system, or permit it to be altered by a person acting on the owner's behalf, by adding, modifying, replacing or extending a watermain within the distribution system subject to the following conditions:

3.1.1 The design of the watermain addition, modification, replacement or extension:

a) Has been prepared by a licensed engineering practitioner;

b) Has been designed only to transmit water and has not been designed to treat water;

c) Satisfies the design criteria set out in the Ministry publication "Watermain Design Criteria for Future Alterations Authorized under a Drinking Water Works Permit – June 2012", as amended from time to time; and

d) Is consistent with or otherwise addresses the design objectives contained within the Ministry publication "Design Guidelines for Drinking Water Systems, 2008", as amended from time to time.

3.1.2 The maximum demand for water exerted by consumers who are serviced by the addition, modification, replacement or extension of the watermain will not result in an exceedance of the rated capacity of a treatment subsystem or the maximum flow rate for a treatment subsystem component as specified in the licence, or the creation of adverse conditions within the drinking water system.

3.1.3 The watermain addition, modification, replacement or extension will not adversely affect the distribution system's ability to maintain a minimum pressure of 140 kPa at ground level at all points in the distribution system under maximum day demand plus fire flow conditions.

3.1.4 Secondary disinfection will be provided to water within the added, modified, replaced or extended watermain to meet the requirements of O. Reg. 170/03.

3.1.5 The watermain addition, modification, replacement or extension is wholly located within the municipal boundary over which the owner has jurisdiction.

3.1.6 The owner of the drinking water system consents in writing to the watermain addition, modification, replacement or extension.

3.1.7 A licensed engineering practitioner has verified in writing that the watermain addition, modification, replacement or extension meets the requirements of condition 3.1.1.

3.1.8 The owner of the drinking water system has verified in writing that the watermain addition, modification, replacement or extension meets the requirements of conditions 3.1.2 to 3.1.6.

3.2 The authorization for the addition, modification, replacement or extension of a watermain provided for in condition 3.1 does not include the addition, modification, replacement or extension of a watermain that:

3.2.1 Passes under or through a body of surface water, unless trenchless construction methods are used;

3.2.2 Has a nominal diameter greater than 750 mm;

3.2.3 Results in the fragmentation of the drinking water system; or

3.2.4 Connects to another drinking water system, unless:

a) Prior to construction, the owner of the drinking water system seeking the connection obtains written consent from the owner or owner's delegate of the drinking water system being connected to; and

b) The owner of the drinking water system seeking the connection retains a copy of the written consent from the owner or owner's delegate of the drinking water system being connected to as part of the record that is recorded and retained under condition 3.3.

3.3 The verifications required in conditions 3.1.7 and 3.1.8 shall be:

3.3.1 Recorded on "Form 1 – Record of Watermains Authorized as a Future Alteration", as published by the Ministry, prior to the watermain addition, modification, replacement or extension being placed into service; and

3.3.2 Retained for a period of ten (10) years by the owner.

3.4 For greater certainty, the verification requirements set out in condition 3.3 do not apply to any addition, modification, replacement or extension in respect of the drinking water system which:

3.4.1 Is exempt from subsection 31(1) of the SDWA by subsection 9.(2) of O. Reg. 170/03; or

3.4.2 Constitutes maintenance or repair of the drinking water system.

3.5 The document or file referenced in Column 1 of Table 1 of Schedule A of this drinking water works permit that sets out watermains shall be retained by the owner and shall be updated to include watermain additions, modifications, replacements and extensions within 12 months of the addition, modification, replacement or extension.

3.6 The updates required by condition 3.5 shall include watermain location relative to named streets or easements and watermain diameter.

3.7 Despite clause (a) of condition 3.1.1 and condition 3.1.7, with respect to the replacement of an existing watermain or section of watermain that is 6.1 meters in length or less, if a licensed engineering practitioner has:

3.7.1 inspected the replacement prior to it being put into service;

3.7.2 prepared a reporting confirming that the replacement satisfies clauses (b), (c) and (d) of condition 3.1.1 (i.e. “Form 1 – Record of Watermains Authorized by a Future Alteration” (Form 1), Part 3, items No. 2, 3 and 4); and

3.7.3 appended the report referred to in condition 3.7.2 to the completed Form 1,

the replacement is exempt from the requirements that the design of the replacement be prepared by a licensed engineering practitioner and that a licensed engineering practitioner verify on Form 1, Part 3, item No. 1 that a licensed engineering practitioner prepared the design of the replacement.

3.8 For greater certainty, the exemption in condition 3.7 does not apply to the replacement of an existing watermain or section of watermain if two or more sections of pipe, each of which is 6.1 meters in length or less, are joined together, if the total length of replacement pipes joined together is greater than 6.1 meters.

4.0 Minor Modifications to the Drinking Water System

4.1 The drinking water system may be altered by adding, modifying or replacing the following components in the drinking water system:

4.1.1 Coagulant feed systems in the treatment system, including the location and number of dosing points:

a) Prior to making any alteration to the drinking water system under condition 4.1.1, the owner shall undertake a review of the impacts that the alteration might have on corrosion control or other treatment processes; and

b) The owner shall notify the Director in writing within thirty (30) days of any alteration made under condition 4.1.1 and shall provide the Director with a copy of the review.

c) The notification required in condition 4.1.1 b) shall be submitted using the “Director Notification Form” published by the Ministry

4.1.2 Instrumentation and controls, including new SCADA systems and upgrades to SCADA system hardware;

4.1.3 SCADA system software or programming that:

a) Measures, monitors or reports on a regulated parameter;
b) Measures, monitor or reports on a parameter that is used to calculate CT; or,
c) Calculates CT for the system or is part of the process algorithm that calculates log removal, where the impacts of addition, modification or replacement have been reviewed by a licensed engineering practitioner;

4.1.4 Filter media, backwashing equipment, filter troughs, and under-drains and associated equipment in the treatment system;

4.1.5 Spill containment works; or,

4.1.6 Coarse screens and fine screens

4.2 The drinking water system may be altered by adding, modifying, replacing or removing the following components in the drinking water system:

4.2.1 Treated water pumps, pressure tanks, and associated equipment;

4.2.2 Raw water pumps and process pumps in the treatment system;

4.2.3 Inline booster pumping stations that are not associated with distribution system storage facilities and are on a watermain with a nominal diameter not exceeding 200 mm;

4.2.4 Re-circulation devices within distribution system storage facilities;

4.2.5 In-line mixing equipment;

4.2.6 Chemical metering pumps and chemical handling pumps;

4.2.7 Chemical storage tanks and associated equipment;

4.2.8 Measuring and monitoring devices that are not required by regulation, by a condition in the Drinking Water Works Permit, or by a condition otherwise imposed by the Ministry.

4.2.9 Chemical injection points.

4.2.10 Valves;

4.2.11 Fuel storage tanks and spill containment works, and associated equipment or,

4.2.12 Any other component(s) where the Director has provided authorization in writing to proceed with the alteration.

4.3 The drinking water system may be altered by replacing the following:

4.3.1 Raw water piping, treatment process piping or treated water piping within the treatment subsystem;

4.3.2 Measuring and monitoring devices that are required by regulation, by a condition in the Drinking Water Works Permit or by a condition otherwise imposed by the Ministry.

4.3.3 Coagulants and pH adjustment chemicals, where the replacement chemicals perform the same function;

a) Prior to making any alteration to the drinking water system under condition 4.3.3, the owner shall undertake a review of the impacts that the alteration might have on corrosion control or other treatment processes; and

b) The owner shall notify the Director in writing within thirty (30) days of any alteration made under condition 4.3.3 and shall provide the Director with a copy of the review.

c) The notification required in condition 4.3.3 b) shall be submitted using the "Director Notification Form" published by the Ministry

4.4 Any alteration of the drinking water system made under conditions 4.1, 4.2 or 4.3 shall not result in:

4.4.1 An exceedance of a treatment subsystem rated capacity or a treatment subsystem component maximum flow rate as specified in the licence;

4.4.2 The bypassing or removal of any unit process within a treatment subsystem;

4.4.3 The addition of any new unit process other than coagulation within a treatment subsystem;

4.4.4 A deterioration in the quality of drinking water provided to consumers;

4.4.5 A reduction in the reliability or redundancy of any component of the drinking water system;

4.4.6 A negative impact on the ability to undertake compliance and other monitoring necessary for the operation of the drinking water system; or

4.4.7 An adverse effect on the environment.

4.5 The owner shall verify in writing that any addition, modification, replacement or removal of drinking water system components in accordance with conditions 4.1, 4.2 or 4.3 has met the requirements of the conditions listed in condition 4.4.

4.6 The verifications and documentation required in condition 4.5 shall be:

4.6.1 Recorded on "Form 2 – Record of Minor Modifications or Replacements to the Drinking Water System" published by the Ministry, prior to the modified or replaced components being placed into service; and

4.6.2 Retained for a period of ten (10) years by the owner.

4.7 For greater certainty, the verification requirements set out in conditions 4.5 and 4.6 do not apply to any addition, modification, replacement or removal in respect of the drinking water system which:

4.7.1 Is exempt from subsection 31(1) of the SDWA by subsection 9.(2) of O. Reg. 170/03; or

4.7.2 Constitutes maintenance or repair of the drinking water system, including software changes to a SCADA system that are not listed in condition 4.1.3

4.8 The owner shall update any drawings maintained for the drinking water system to reflect the modification or replacement of the works, where applicable.

5.0 Equipment with Emissions to the Air

5.1 The drinking water system may be altered by adding, modifying or replacing any of the following drinking water system components that may discharge or alter the rate or manner of a discharge of a compound of concern to the air:

5.1.1 Any equipment, apparatus, mechanism or thing that is used for the transfer of outdoor air into a building or structure that is not a cooling tower;

5.1.2 Any equipment, apparatus, mechanism or thing that is used for the transfer of indoor air out of a space used for the production, processing, repair, maintenance or storage of goods or materials, including chemical storage;

5.1.3 Laboratory fume hoods used for drinking water testing, quality control and quality assurance purposes;

5.1.4 Low temperature handling of compounds with a vapor pressure of less than 1 kilopascal;

5.1.5 Maintenance welding stations;

5.1.6 Minor painting operations used for maintenance purposes;

5.1.7 Parts washers for maintenance shops;

5.1.8 Emergency chlorine and ammonia gas scrubbers and absorbers;

5.1.9 Venting for activated carbon units for drinking water taste and odour control;

5.1.10 Venting for a stripping unit for methane removal from a groundwater supply;

5.1.11 Venting for an ozone treatment unit;

5.1.12 Natural gas or propane fired boilers, water heaters, space heaters and make-up air units with a total facility-wide heat input rating of less than 20 million kilojoules per hour, and with an individual fuel energy input of less than or equal to 10.5 gigajoules per hour; or

5.1.13 Emergency generators that fire No. 2 fuel oil (diesel fuel) with a sulphur content of 0.5 per cent or less measured by weight, natural gas, propane, gasoline or biofuel, and that are used for emergency duty only with periodic testing.

5.2 The owner shall not make an addition, modification, or replacement described in condition 5.1 in relation to an activity that is not related to the treatment and/or distribution of drinking water.

5.3 The emergency generators identified in condition 5.1.13 shall not be used for non-emergency purposes including the generation of electricity for sale or for peak shaving purposes.

5.4 The owner shall ensure that the criteria outlined for standby power sources in s.20.4 of O. Reg. 419/05 (Air Pollution – Local Air Quality) are met for all discharge that occurs from the use of emergency generators added, modified or replaced under condition 5.1.13.

Performance Limits

5.5 The owner shall ensure that a drinking water system component identified in conditions 5.1.1 to 5.1.13 is operated at all times to comply with the following limits:

5.5.1 For equipment other than emergency generators, the maximum concentration of any compound of concern at a point of impingement shall not exceed the corresponding point of impingement limit;

5.5.2 For emergency generators, the maximum concentration of nitrogen oxides at sensitive receptors shall not exceed the applicable point of impingement limit, and at non-sensitive receptors shall not exceed the Ministry half-hourly screening level of 1880 ug/m^3 as amended; and

5.5.3 The noise emissions comply at all times with the limits set out in publication NPC-300, as applicable.

5.6 The owner shall verify in writing that any addition, modification or replacement of works in accordance with condition 5.1 has met the requirements of the conditions listed in condition 5.5.

5.7 The owner shall document how compliance with the performance limits outlined in condition 5.5.3 is being achieved, through noise abatement equipment and/or operational procedures.

5.8 The verifications and documentation required in conditions 5.6 and 5.7 shall be:

5.8.1 Recorded on “Form 3 – Record of Addition, Modification or Replacement of Equipment Discharging a Contaminant of Concern to the Atmosphere”, as published by the Ministry, prior to the additional, modified or replacement equipment being placed into service; and

5.8.2 Retained for a period of ten (10) years by the owner.

5.9 For greater certainty, the verification and documentation requirements set out in conditions 5.6 and 5.8 do not apply to any addition, modification or replacement in respect of the drinking water system which:

5.9.1 Is exempt from subsection 31(1) of the SDWA by subsection 9.(2) of O. Reg. 170/03; or

5.9.2 Constitutes maintenance or repair of the drinking water system.

5.10 The owner shall update any drawings maintained for the works to reflect the addition, modification or replacement of the works, where applicable.

6.0 Previously Approved Works

6.1 The owner may add, modify, replace or extend, and operate part of a municipal drinking water system if:

6.1.1 An approval was issued after January 1, 2004 under section 36 of the SDWA in respect of the addition, modification, replacement or extension and operation of that part of the municipal drinking water system;

6.1.2 The approval expired by virtue of subsection 36(4) of the SDWA; and

6.1.3 The addition, modification, replacement or extension commenced within five years of the date that activity was approved by the expired approval.

7.0 System-Specific Conditions

1.1 Not applicable.

8.0 Source Protection

1.1 Not applicable.

Schedule C: Authorization to Alter the Drinking Water System

System Owner	**The Corporation of the Township of North Huron**
Permit Number	**090-201**
Drinking Water System Name	**Blyth Drinking Water System**
Permit Effective Date	**June 17th, 2025**

1.0 General

1.1 Table 2 provides a reference list of all documents to be incorporated into Schedule C that have been issued as of the date that this permit was issued.

1.1.1 Table 2 is not intended to be a comprehensive list of all documents that are part of Schedule C. For clarity, any document issued by the Director to be incorporated into Schedule C after this permit has been issued is considered part of this drinking water works permit.

Table 2: Schedule C Documents

Column 1 Issue #	Column 2 Issued Date	Column 3 Description	Column 4 Status	Column 5 DN#
Sch. C Issue 1	February 5, 2016	Construction of additional well supply and Pumphouse	Archived	#2

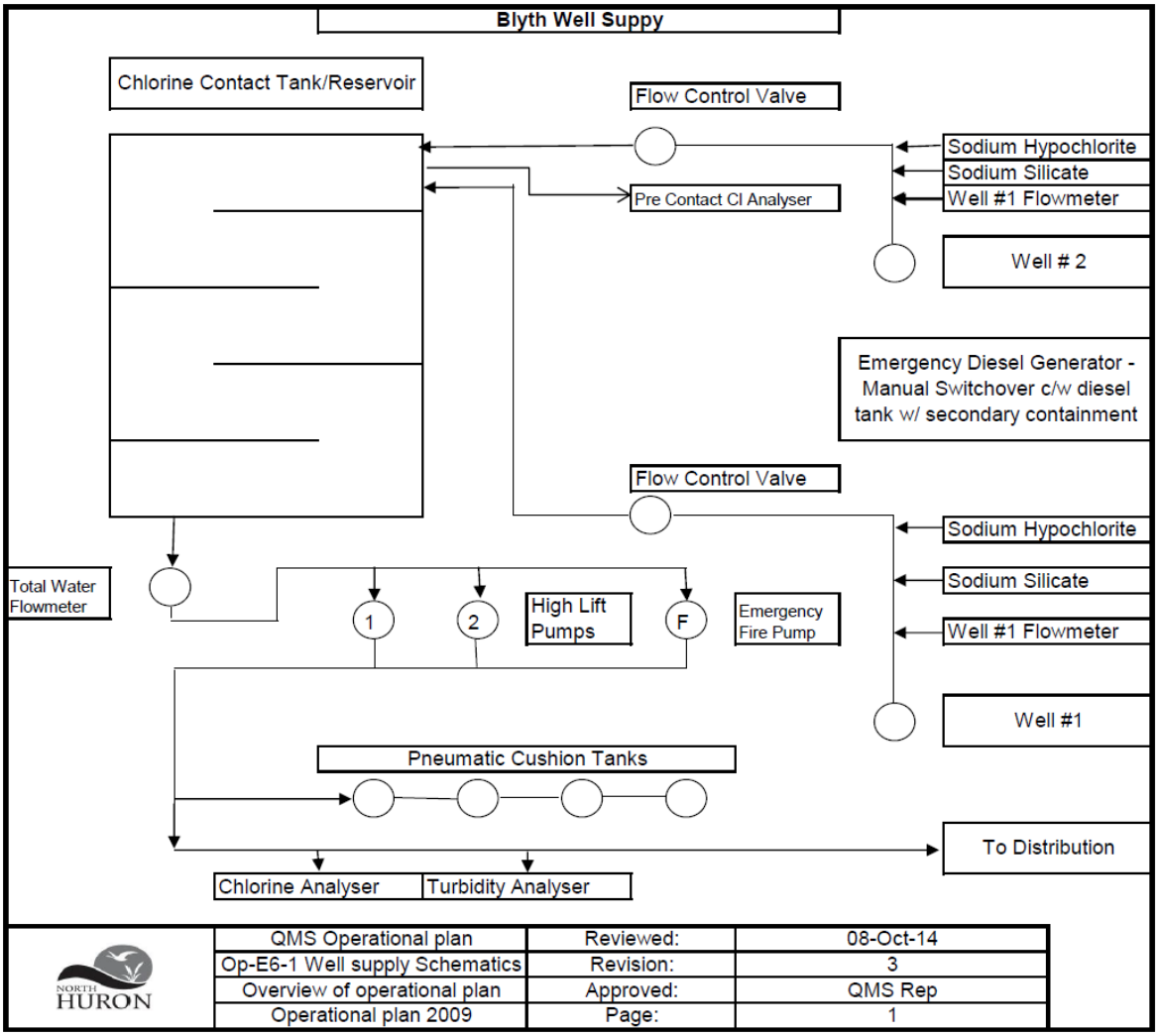
1.2 For each document described in columns 1, 2 and 3 of Table 2, the status of the document is indicated in column 4. Where this status is listed as 'Archived', the approved alterations have been completed and relevant portions of this permit have been updated to reflect the altered works. These 'Archived' Schedule C documents remain as a record of the alterations.

Schedule D: Process Flow Diagrams

System Owner	**The Corporation of the Township of North Huron**
Permit Number	**090-201**
Drinking Water System Name	**Blyth Drinking Water System**
Permit Effective Date	**June 17th, 2025**

1.0 Process Flow Diagrams

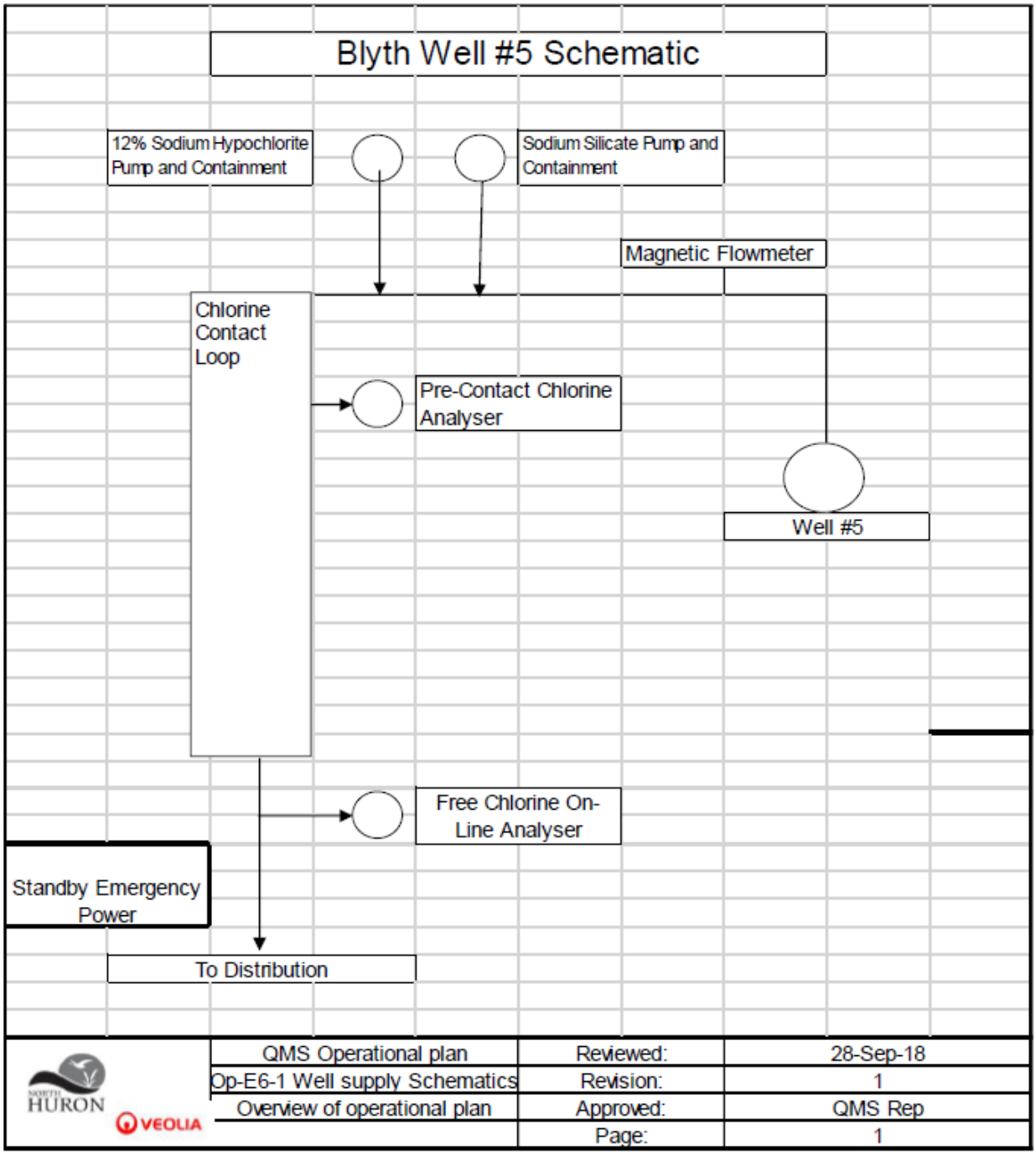
Blyth Well Supply – Well #1 and #2



[Source: North Huron QMS Operational Plan, Revision 3, October 8, 2014]

Note: this process flow diagram is for reference only, and represents a high level overview of the system as of October 2024.

Blyth Well Supply – Well #5



[Source: North Huron/Veolia Water Canada QMS Operational Plan, Revision 1, September 2018]

Note: this process flow diagram is for reference only, and represents a high level overview of the system as of October 2024.