

**Checklist: Satellite (SAT)**



*The Drinking Water Safety Act*  
Self Assessment or Qualified Person  
Checklist

Sustainable Development

Revised: September 18, 2018

**Section 1: Owner Information**

Owner Water System

Operator Water System

Owner Mailing Address

Town/ City  Province  Postal Code

Email  Phone/ Cell

**Section 2: Water System Information**

Public Water System (PWS)  PWS Code # (i.e. 123.00)

Semi-Public Water System (SPWS)  SPWS Code # (i.e. 1000.00)

Operating License #  Seasonal?  Yes  No  N/A

**Section 3: Assessor Information** *(please fill this out even if Self Assessment)*

Name

Company

Email  Phone/ Cell

**Section 4: Certification**

The information contained in this report is complete and accurate to the best of my knowledge.

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Signature of Owner or Owner's Representative

Date

Personal information is collected under the authority of *The Drinking Water Safety Act* and its pursuant regulations, and is used to issue permits and licenses, and for enforcement purposes. Information collected is protected by the privacy provisions of *The Freedom of Information and Protection of Privacy Act*. If you have any questions, contact the Access & Privacy Coordinator, 200 Saulteaux Crescent, Box 85, Winnipeg MB, R3J 3W3.

**Checklist: Satellite (SAT)**

**Section 5: System Supplying Treated Water**

Provide the water system code # of the system supplying the treated water.

Public Water System (PWS)  PWS Code # (i.e. 123.00)

Semi-Public Water System (SPWS)  SPWS Code # (i.e. 1000.00)

Attachments

**Section 6: Suggestions or Recommendations for Improvements** *(please don't leave blank)*

**Checklist: Satellite (SAT)**

**Section 7: SAT System - Description**

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Type of Water System Connections:  Hospital/ Health Care Centre  Apartments/ Condos  
 Year-round Residential  Restaurant/ Food Establish.  Day Care Facility  
 Seasonal Cottages  School  Rec./ Community Centre  
 RV Hook-ups  Personal Care Home  Other:  
 Open Campsites/ Standpipes  Seniors Manor/ Apartments

Average # People Served per Day

Peak # People Served per Day

# Building or Service Connections (include standpipes)

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**WATER USE:** PROVIDE UNITS! (volume water/ time) i.e. Liters, cubic meters, US or Imperial gallons.

Average Day Demand

Metered  Estimated

**Don't just write "gallons".**  
1 US gallon = 3.785 L  
1 Imp gallon = 4.546 L

Peak/ Max Day Demand

Metered  Estimated

Peak Hourly Flow

Metered  Estimated

Note:  
This is not the same information sent to the Groundwater section for the Manitoba Government for annual water usage.

Additional comments:

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Schematic or Flow Diagram:  Attachment/s

Please attach a schematic or flow diagram of your water system, only for the pumphouse.

Distribution system maps are not required.

If you are physically mailing a hand-drawn hardcopy to the Office of Drinking Water, please keep a copy for your own records.

## Checklist: Satellite (SAT)

### Section 8: SAT System - General Information

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Is your system currently under a drinking water advisory?  Yes  No  N/A

If yes, what type of advisory? (i.e. Boil Water, Water Quality - Arsenic). Type:

If yes, when was it issued? Date:

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If the system is under an advisory, are water users notified and public areas posted with the advisory notice?  Yes  No  N/A

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Are all water system components adequately protected from vandalism?  Yes  No  N/A

Is the pumphouse locked?  Yes  No  N/A

Has the pumphouse site ever been flooded?  Yes  No  N/A

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Can water supply be maintained during power outages?  Yes  No  N/A

Yes, standby generator (genset)  Yes, fuel-driven pump

How many electrical power outages per year or per season?

Standby generator (genset) or fuel-driven pump located above the reservoir?  Yes  No  N/A

If yes, is it in a metal or epoxy coated box to protect the reservoir from spills?  Yes  No  N/A

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Does the system experience frequent water outages due to equipment failures or water supply capacity issues?  Yes  No  N/A

System experienced failures in the past of pumping/ disinfection equipment?  Yes  No  N/A

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Is the water system equipped with flow meters to monitor water use?  Yes  No  N/A

Treated water (incoming)  Treated water (outgoing)

Rural distribution water  Town distribution water  Bulk/ truck/ pail fill water

Are water service connections metered?  Yes  No  N/A

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System able to meet peak water demands with adequate at-tap pressures?  Yes  No  N/A

What is the peak or maximum day demand on the water system? Units.

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Is the pumphouse equipped with an alarm system?

Yes, local alarm/ exterior light only  Yes, sent to operator  No  N/A

What alarm conditions are monitored?

Distribution pump failure  Low reservoir level  Power failure  UV failure

Chlorination pump failure  High reservoir level  Building flood

Low chlorine residual  Low incoming pressure  Intrusion

High turbidity  Low distribution pressure  Other:

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## Checklist: Satellite (SAT)

### Section 8: SAT System - General Information

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- Is the system equipped with a suitable incoming treated water sampling tap?  Yes  No  N/A
- Is the system equipped with a suitable outgoing treated water sampling tap?  Yes  No  N/A
- Is the water system equipped with other sampling taps?  Yes  No  N/A
- 
- Does the system receive frequent or repeated complaints from water users about water quality?  Yes  No  N/A

Describe redundancy level in the water supply, storage and pumping systems.

- Was the system designed by a Professional Engineer?  Yes  No  N/A
- Was the system approved by the Office of Drinking Water?  Yes  No  N/A
- Owner/ operator aware of the need to obtain approval (i.e. permit) before starting upgrades or significant alterations to the system?  Yes  No  N/A
- This includes watermain extensions.
- Is the installation of rechlorination equipment required by the Office of Drinking Water as noted in an advisory letter or inspection letter?  Yes  No  N/A
- Adequate space in the building to install additional equipment?  Yes  No  N/A
- 
- Are key water pipes, valves, taps, and components labelled to assist with O&M?  Yes  No  N/A
- Is the equipment accessible for O&M and inspection?  Yes  No  N/A
- Is there adequate space around equipment to perform O&M?  Yes  No  N/A
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**Checklist: Satellite (SAT)**

**Section 8: SAT System - General Information**

Any changes, upgrades, or expansions to the system since the last assessment?  Yes  No  N/A

If yes, explain:

What is the average age (years) of the following components of the system?

Storage

Disinfection

Distribution

At inspection time, were all water system components in good working order?  Yes  No  N/A

If no, explain:

What is the general condition of the buildings?  Good  
 Fair - nearing end of useful life  
 Poor - replacement required

Additional comments:

**Checklist: Satellite (SAT)**

**Section 9: SAT System - Chlorination (Rechlorination)**

Section is Not Applicable to this System.

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What type of chlorine solution is used?  Sodium hypochlorite fed directly from container  
 Diluted sodium hypochlorite  
 Solution from calcium hypochlorite powders or tablets  
 Unscented household bleach  
 On-site sodium hypochlorite generation ("analyte")

What is the make-model-brand name of the chlorine or generator used? (i.e. supplier label)

Does the chlorine solution, or powder/ tablets, or salt carry NSF 60 certification?  Yes  No  N/A

Does the on-site sodium hypochlorite generator carry NSF 60 certification?  Yes  No  N/A

Does the on-site sodium hypochlorite generator carry NSF 61 certification?  Yes  No  N/A

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Is an adequate amount of chlorine chemical kept on-hand at all times? (i.e. 30 days minimum)  Yes  No  N/A

Is the chlorine solution stored away from sunlight?  Yes  No  N/A

Is the sodium hypochlorite solution used within 3 months of purchase?  Yes  No  N/A

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Are chlorine tanks stored over a spill tray?  Yes  No  N/A

Is the chlorine stored in a separate chemical storage room?  Yes  No  N/A

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Is the system equipped with duty-standby chlorine pumps with automatic switchover in the case of pump failure?  Yes  No  N/A

Is there only a single feed chlorine pump?  Yes  No  N/A

Is there a spare feed chlorine pump? (i.e. "shelf spare")  Yes  No  N/A

Are critical spare parts kept on-hand to maintain the feed pump?  Yes  No  N/A

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What triggers operation of the chlorine feed? (i.e. reservoir level, etc...)

Is operation of the feed pump controlled by the distribution pump (fixed injection rate) or by a flow meter (flow-paced injection rate)?

N/A  Distribution pump  Flow meter  Other

Do feed pump settings suggest a properly sized feed pump?  Yes  No  N/A

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What type of chlorine residual test kit is used?

N/A  Digital DPD colorimeter  Colour wheel  Unapproved unit (i.e. pool kit)

Is the system equipped with an online chlorine residual analyzer?  Yes  No  N/A

Explain where the analyzer sample draw water goes:

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Normally, what is the free chlorine residual (mg/L) of the outgoing water?

**Checklist: Satellite (SAT)**

**Section 9: SAT System - Chlorination (Rechlorination)**

Section is Not Applicable to this System.

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What is the average age (years) of the chlorination equipment?

Chlorination

What is the general condition of the chlorination equipment?  Good

Fair - nearing end of useful life

Poor - replacement required

Additional comments:



**Checklist: Satellite (SAT)**

**Section 10: SAT System - Treated Water Storage in Aboveground Tank(s)**

Section is Not Applicable to this System.

What type of tank is used to store treated water before it is distributed?

*(Note: Pressure or hydropneumatic tanks with a single inlet/outlet pipe meant to reduce pump cycling are not considered storage tanks.)*

flow-through pressurized tank/s  atmospheric tank/s (poly)  other:

What is the total volume of the tank/s? Units.

How many tanks? List # and each volume.

For atmospheric tanks:  
What is the total volume of the tank/s based on the lowest operating level? Units.

Are the tanks in series (flow through one to another) or parallel (separate flows)?

single (1) tank  multiple tanks  tanks in series  tanks in parallel  N/A

What is the tank material?  polyethylene (PE)  fibreglass (FRP)  
 epoxy-coated steel  other:

Is the tank material or interior tank coating certified or approved for use in a potable water system? (i.e. NSF 61 or FDA approved)  Yes  No  N/A

What is the purpose of the water storage?  to meet peak demands  chlorine contact time  
Check all that apply.  fire protection  other

Storage tanks sized to meet peak demands?  Yes  No  N/A

Storage tanks sized for at least 20 minutes chlorine contact time?  Yes  No  N/A  
 don't know

Storage tanks sized for fire protection?  Yes  No  N/A

If no for fire protection, do the tanks provide at least 1 Average Day Demand (ADD) and less than 3 ADD of storage?  Yes  No  N/A

What is the peak hourly flow rate? Units.

What is the hydraulic retention time at the estimated peak hourly flow rate when the tanks are at their lowest operating level (atmospheric tanks) or at their normal full volume (pressurized tanks)?  
(Divide the volume from above by the peak hourly flow rate from above. Convert to same units.)

Retention time: (i.e. 2.50 hours or 150 minutes)

**Checklist: Satellite (SAT)**

**Section 10: SAT System - Treated Water Storage in Aboveground Tank(s)**

Section is Not Applicable to this System.

For atmospheric tanks, are the tanks equipped with level sensors for pump operation?  Yes  No  N/A

floats  pressure sensors  ultrasonic sensing system  other (contact probes)

Are the tanks accessible for visual inspection?  Yes  No  N/A

Are the tanks equipped with access or inspection hatches?  Yes  No  N/A

Are the tanks regularly inspected?  Yes  No  N/A

Last inspected or inspection frequency:

Are the tanks regularly cleaned and disinfected?  Yes  No  N/A

Last cleaned or cleaning frequency:

Are the inlet and outlet pipes located to minimize the chance of water short-circuiting through the tanks and leading to water stagnation?  Yes  No  N/A

Is the pump intake line properly sealed and located at least 150 mm (6 inches) above the bottom of the tank?  Yes  No  N/A

Can individual tanks be isolated for inspection or maintenance?; without interrupting water service or interrupting chlorine contact time.  Yes  No  N/A

Are pumps connected to multiple tanks to allow for isolation?  Yes  No  N/A

Are all openings sealed watertight?  Yes  No  N/A

Are all vents, overflows, and drain lines equipped with screens?  Yes  No  N/A

Are all vents, overflows, and drain lines located to avoid backflow or run-off?  Yes  No  N/A

If the tanks are located outside the building:

Are the tanks protected from vandalism (fenced area or locked hatches)?  Yes  No  N/A

Are the tanks protected from direct sunlight (opaque or covered?)  Yes  No  N/A

If the tanks are located outside the building:

Are the tanks protected from vandalism (fenced area or locked hatches)?  Yes  No  N/A

Are the tanks protected from direct sunlight (opaque or covered?)  Yes  No  N/A

**Checklist: Satellite (SAT)**

**Section 10: SAT System - Treated Water Storage in Aboveground Tank(s)**

Section is Not Applicable to this System.

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What is the average age (years) of the storage equipment?

Storage

What is the general condition of the storage equipment?

Good

Fair - nearing end of useful life

Poor - replacement required

Additional comments:

**Checklist: Satellite (SAT)**

**Section 11: SAT System - Treated Water Storage in Inground Reservoir or Buried Tank(s)**

Section is Not Applicable to this System.

What type of storage system is used to store treated water before it is distributed?

inground concrete reservoir     buried tank/s     other:

What is the total volume of the reservoir/s or tank/s? Units.

How many reservoir cells or tanks? List # and each volume.

What is the total storage volume based on the lowest operating level? Units.

Are the cells or tanks in series (flow through one to another) or parallel (separate flows)?

single (1) cell     multiple cells     cells in series     cells in parallel     N/A

What is the reservoir or tank material?     concrete     fibreglass (FRP)  
 polyethylene (PE)     other:

Is the reservoir or interior tank coating certified or approved for use in a potable water system? (i.e. NSF 61 or FDA approved)     Yes     No     N/A

What is the purpose of the water storage?     to meet peak demands     chlorine contact time  
Check all that apply.     fire protection     other

Reservoir or tanks sized to meet peak demands?     Yes     No     N/A

Reservoir or tanks sized for at least 20 minutes chlorine contact time?     Yes     No     N/A  
 don't know

Reservoir or tanks sized for fire protection?     Yes     No     N/A

If no for fire protection, does it provide at least 1 Average Day Demand (ADD) and less than 3 ADD of storage?     Yes     No     N/A

What is the peak hourly flow rate? Units.

What is the hydraulic retention time at the estimated peak hourly flow rate when the cells/ tanks are at their lowest operating level?  
(Divide the volume from above by the peak hourly flow rate from above. Convert to same units.)

Retention time: (i.e. 2.50 hours or 150 minutes)

**Checklist: Satellite (SAT)**

**Section 11: SAT System - Treated Water Storage in Inground Reservoir or Buried Tank(s)**

Section is Not Applicable to this System.

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Is the reservoir or tanks equipped with level sensors for pump operation?  Yes  No  N/A

floats  pressure sensors  ultrasonic sensing system  other (contact probes)

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Are the cells or tanks accessible for visual inspection?  Yes  No  N/A

Are the cells or tanks equipped with access or inspection hatches?  Yes  No  N/A

Are the cells or tanks regularly inspected?  Yes  No  N/A

Last inspected or inspection frequency:

Are the cells or tanks regularly cleaned and disinfected?  Yes  No  N/A

Last cleaned or cleaning frequency:

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Are the inlet and outlet pipes located to minimize the chance of water short-circuiting through the cells or tanks and leading to water stagnation?  Yes  No  N/A

Are there at least two isolatable cells or tanks with a valved interconnection?  Yes  No  N/A

Can individual cells or tanks be isolated for inspection or maintenance?; without interrupting water service or interrupting chlorine contact time.  Yes  No  N/A

Is pumping capacity available in at least two cells or tanks to allow water supply to be maintained when cleaning the reservoir cells or tanks?  Yes  No  N/A

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Are access hatches curbed and sealed watertight?  Yes  No  N/A

Are all openings sealed watertight?  Yes  No  N/A

Are pipe entries into the reservoir or tanks sealed watertight to prevent contamination? (i.e. LinkSeal or cast-in-place sleeve)  Yes  No  N/A

Do any floor drains or wastewater pipes pass over or through the reservoir?  Yes  No  N/A

Yes - floor drain  Yes - wastewater  Yes - other

If yes, are these pipes encased in concrete?  Yes  No  N/A

Are pipes through walls protected from differential settling? (i.e. flexible joints/ ball-and-socket joints)  Yes  No  N/A

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Are all vents, overflows, and drain lines equipped with screens?  Yes  No  N/A

Is the reservoir or tank equipped with a screened air vent? (i.e. gooseneck or inverted J-pipe)  Yes  No  N/A

Is the reservoir or tank equipped with an adequately sized screened overflow that discharges to the ground?  Yes  No  N/A

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Are all vents, overflows, and drain lines located to avoid backflow or run-off?  Yes  No  N/A

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**Checklist: Satellite (SAT)**

**Section 11: SAT System - Treated Water Storage in Inground Reservoir or Buried Tank(s)**

Section is Not Applicable to this System.

Is the reservoir or tank protected from contamination from run-off or spills into the pumphouse?  Yes  No  N/A

Is the reservoir or tank located at least 15 m away from sewer system components such as sewer lines or holding tanks?  Yes  No  N/A

If the reservoir extends beyond the footprint of the pumphouse building, is the reservoir roof adequately sloped and drained?  Yes  No  N/A

Is the reservoir or tank site graded to drain away?  Yes  No  N/A

If the cells or tanks are located outside the building:

Are the cells or tanks protected from vandalism (fenced area or locked hatches)?  Yes  No  N/A

Please attach a schematic of reservoir cells or tanks showing the inlet, outlet, pump locations, baffles.  Attachment/s

What is the average age (years) of the storage equipment?

Storage

What is the general condition of the storage equipment?  Good  
 Fair - nearing end of useful life  
 Poor - replacement required

Additional comments:

**Checklist: Satellite (SAT)**

**Section 12: SAT System - Distribution Pumping**

Section is Not Applicable to this System.

**Pump sizes and flow rates (capacities) can be estimated; units can be given in HP.  
If unknown, fill out what information is available.**

LIST ALL PUMPS IN THE SYSTEM: (write Units)

	Pump Name or Description:	Size: (HP)	Output Pressure: (psi or kPa)	Size: Total Dynamic Head TDH (feet or meters)	Size: Flow Rate (L/s or USGPM)
Pump #1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Pump #2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Pump #3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Pump #4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Pump #5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Pump #6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Are the distribution pumps controlled by the distribution system pressure?  Yes  No  N/A

What is the pressure set-point (psi) for the distribution header?

System able to meet peak water demands with adequate at-tap pressures?  Yes  No  N/A

Does the pumping system have adequate capacity to meet demands?  Yes  No  N/A

What is the total capacity of the pumping system? Units.

What is the peak or maximum day demand on the water system? Units.

Are there any engine-driven pumps with fuel?  Yes  No  N/A

If yes, is there proper containment for the fuel to prevent contamination?  Yes  No  N/A

Is the distribution pumping system equipped with appropriate check valves, shut-off valves, pressure gauges, pressure relief or air/ vacuum relief valves?  Yes  No  N/A

Are taps or connections to mechanical equipment, where there is potential backflow of hazardous substances, protected with an air gap or appropriate backflow prevention device?  Yes  No  N/A  
(i.e. devices such as washdown sink, hose bib, boiler, heat exchanger, etc.)

**Checklist: Satellite (SAT)**

**Section 12: SAT System - Distribution Pumping**

Section is Not Applicable to this System.

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What is the average age (years) of the pumping equipment?

Pumping

What is the general condition of the pumping equipment?

Good

Fair - nearing end of useful life

Poor - replacement required

Additional comments:



### Checklist: Satellite (SAT)

#### **Section 13: SAT System - Distribution System (not intended for a building plumbing system)**

Section is Not Applicable to this System.

Are there up-to-date maps of the distribution system indicating locations of:  
service connections, valves, flush-outs, hydrants, etc...  Yes  No  N/A

What types of watermain materials exist in the distribution system? Check all that apply.

- PVC (polyvinyl chloride)  AC (asbestos cement)  iron - cast  
 HDPE (high-density polyethylene)  other  iron - ductile

Are watermains adequately sized?  
(i.e. 50 mm (2 inch) if no fire protection, 150 mm (6 inch) if fire protection)  Yes  No  N/A

Are watermains adequate pressure rating?  
(i.e. minimum 100 psi or 690 kPa)  Yes  No  N/A

Is adequate at-tap pressure of 30-to-60 psi (200-to-400 kPa) maintained  
in the distribution system at all times?  Yes  No  N/A

Does the system have a watermain replacement or renewal strategy?  Yes  No  N/A

Are a set of standards available for new construction?;  
reference to Manitoba Water Services Board (MWSB) or  
City of Winnipeg standard construction specifications or similar,  
to ensure proper materials and construction procedures are followed?  Yes  No  N/A

Have minimum design and construction standards been established for  
new service connections?  Yes  No  N/A

Is all new construction inspected to meet these requirements?  Yes  No  N/A

Are all new watermains, service lines, and related equipment CSA or NSF  
certified for use in potable water systems?  Yes  No  N/A

Are all new watermains and water lines disinfected as per AWWA, MWSB,  
or City of Winnipeg disinfection standards including  
confirmatory bacterial testing before placed into service?  Yes  No  N/A

If piped sewer is present, is there at least 3 m (10 feet) horizontal distance  
separation between watermains and sewer mains, where they run parallel?  Yes  No  N/A

If watermains are closer than 3 m (10 feet) from sewer mains  
are the watermains vertically above the sewer mains?  Yes  No  N/A

If yes, do the watermains have a vertical distance separation at least  
0.45 m (18 inches)?  Yes  No  N/A

If watermains cross: sewer mains, raw or other non-potable water lines,  
oil or gas pipelines, etc... is the watermain above at least 0.45 m (18 inches)?  Yes  No  N/A

Are watermains protected from damage by being buried with at least  
2.4 m (8 feet) cover for year-round systems or 0.45 m (18 inches) for seasonal?  Yes  No  N/A

Has the distribution system had any issues with frozen service lines?  Yes  No  N/A

Are "bleeder" lines or valves used to prevent frozen service lines?  
(These are used in some northern communities.)  Yes  No  N/A

**Checklist: Satellite (SAT)**

**Section 13: SAT System - Distribution System (not intended for a building plumbing system)**

Section is Not Applicable to this System.

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Are water service connections metered?  Yes  No  N/A  
 some connections

Are water losses kept under 15% to reduce water production requirements?  Yes  No  N/A  
 don't know

What is the estimated % of water loss for this water system? %   don't know

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Are dead ends supplied with hydrants or flush-outs?  Yes  No  N/A

Are valves and hydrants regularly inspected and exercised?  Yes  No  N/A

Are there adequate number of valves, hydrants, and flush-outs to isolate and flush the system? Drain the system if seasonal.  Yes  No  N/A

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Are watermains and distribution lines flushed at least annually?  Yes  No  N/A

Flushing frequency:

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Are there any known lead service lines present in the system?  Yes  No  N/A  
 don't know

If found, has a strategy been developed to remove lead service lines?  Yes  No  N/A

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Is there a cross connection and backflow prevention program?  Yes  No  N/A

Are connections where there is potential for backflow of hazardous materials protected by backflow prevention assembly or air gap? (i.e. potential locations include agricultural operations, wastewater treatment plants, etc.)  Yes  No  N/A

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Are connections from heat exchangers prohibited from being connected to the water supply? (i.e. prohibited from returning water to the potable water line)  Yes  No  N/A

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Is there equipment within the distribution system with a high water table or potential to be flooded?  Yes  No  N/A

Includes: manholes with potable water equipment, underground meter/ valve pits

Are all manholes with potable water equipment or underground meter/ valve pits or similar installations, watertight and free from non-potable water intrusion?  Yes  No  N/A

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Are air relief valves within the distribution system located aboveground?  Yes  No  N/A

**Checklist: Satellite (SAT)**

**Section 13: SAT System - Distribution System (not intended for a building plumbing system)**

Section is Not Applicable to this System.

Are there periodic changes in treated water quality in the distribution system?  Yes  No  N/A

Do the distribution system bacterial records suggest it is well operated and well maintained?  Yes  No  N/A

Do the distribution system chlorine residual records suggest it is well operated and well maintained?  Yes  No  N/A

Do the records suggest any specific water quality issues?  Yes  No  N/A

If yes, please explain:

What is the average age (years) of the distribution system?

Distribution

What is the general condition of the distribution system?  Good  
 Fair - nearing end of useful life  
 Poor - replacement required

Additional comments:

**Checklist: Satellite (SAT)**

**Section 14: SAT System - Bulk Fill/ Truck Fill/ Pail Fill**

Section is Not Applicable to this System.

Does the bulk/ truck/ pail fill have appropriate backflow prevention?  Yes  No  N/A

If yes, what type of backflow prevention is used? Check all that apply.  other:

backflow prevention assembly: double check valve plus siphon break

backflow prevention assembly: reduced pressure principle

hose bib vacuum breaker (only allowed on pail fill)

air gap

Is the station equipped with appropriate signage indicating that only drinking water containers are allowed to be filled?  Yes  No  N/A

Is access to the fill station limited? (i.e. locked, FOB electronic key, card swipe)  Yes  No  N/A

Is there a flow meter that monitors water usage (volumes) at the fill station?  Yes  No  N/A

Is there a separate or dedicated pump for the fill station?  Yes  No  N/A

No - combo pump

Is the hose length such that it is off the ground at least 1 m (3 feet)?  Yes  No  N/A

What is the average age (years) of the fill station equipment?

Fill Station

What is the general condition of the fill station?

Good

Fair - nearing end of useful life

Poor - replacement required

Additional comments:

### Checklist: Satellite (SAT)

#### Section 15: SAT System - Operation and Maintenance (O&M)

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Is the water system checked on a daily basis when it is operating?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
How many hours per day does the pump/s run?	<input type="text"/>
How many hours per day does the operator spend on the water system?	<input type="text"/>

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Is there a back-up operator for the water system?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Has the water treatment facility and/or water distribution system been classified under the operator certification program?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
water treatment facility:	<input type="checkbox"/> small system <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
water distribution system:	<input type="checkbox"/> small system <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
Have any operators been classified under the operator certification program?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

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Is there an up-to-date emergency contact list?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is there a list of critical water users (i.e. hospitals, personal care homes, schools) to be contacted during an emergency?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is there a procedure for emergency notification of water users if a water quality issue occurs or there is an advisory?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is there a plan for obtaining water on an emergency basis?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

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If the system is operated on a seasonal basis, are Office of Drinking Water procedures followed for start-up and shut-down of the water system?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Have written procedures been developed for key activities such as: watermain repairs, flushing, etc?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is there an up-to-date process schematic or water system drawing available?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is there an up-to-date O&M manual available with equipment specifications, product sheets, supplier information, O&M instructions, troubleshooting?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Has the operator received training from the equipment supplier on O&M of critical water system components such as treatment equipment, controls, etc?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is there a maintenance log for recording preventive maintenance, repairs, etc?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Are water system records kept for a minimum of 2 years?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

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Are instruments regularly calibrated, in particular, water testing equipment to ensure reliable test results?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Are extra bacterial sample bottles kept on-hand for emergency purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is the system in compliance with the sampling parameters and frequency listed in the Operating Licence?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

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**Checklist: Satellite (SAT)**

**Section 15: SAT System - Operation and Maintenance (O&M)**

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Additional comments: