



TOWN OF SMITHS FALLS WATER POLLUTION CONTROL PLANT



**2021 PERFORMANCE REPORT
Environmental Compliance Approval
Number 5671-AE7HFT**



March 31st, 2022

Ministry of the Environment Conservation & Parks
Ottawa District Office, Eastern Region
2430 Don Reid Drive
Ottawa, Ontario
K1H 1E1

Attention Mr. Charlie Primeau

Dear Mr. Primeau,

Please find enclosed the Annual Performance Report and other supporting documents for the Smiths Falls Water Pollution Control Plant (WPCP), Works No.120000890 as per the Amended Environmental Compliance Approval Municipal and private Sewage Works Number 5671-AE7HFT January 11, 2017, prescribed by Condition 11 Subsection (4).

The Town of Smiths Falls is the owner and operator of the WPCP. The facility operated under the responsibility of Jason Barlow, Manager Water/Wastewater Treatment ORO whose office is located at 43 Abbott Street North, Smiths Falls, and can be contacted at 613-283-4124 ext. 5501 or faxed at 613-284-0427.

Regards,

Sarah E. Cooke
Water and Wastewater Compliance Coordinator
Tel: 613-283-4124 ext. 5502
Email: scooke@smithsfalls.ca

cc. Brenda Beaudoin, Water Inspector
cc. Jason Barlow, Manager Water/Wastewater Treatment

Executive Summary

The enclosed Annual Performance Report is prepared in accordance with Amended Environmental Compliance Approval (ECA) number 5671-AE7HFT, Condition 11 Reporting Subsection (4) for the Town of Smiths Falls Water Pollution Control Plant (WPCP) for submission to the Ministry of Environment Conservation and Parks (MECP). The secondary purpose of this 2021 Performance Report is to keep the Owner (Council) informed regarding the general operation, maintenance and, facility compliance regarding solids and liquid handling and disposal as per the ECA. Each year it is a requirement that the owner prepares and submits an annual Performance Report for the previous calendar year and must contain the following information:

- a) A summary and interpretation of all monitoring data and a comparison to the effluent limits in condition 7 in the Environmental Compliance Approvals (ECA), including an overview of the success and adequacy of the Works;
- b) A description of any operating problems encountered and corrective actions taken;
- c) A summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works;
- d) A summary of any effluent quality assurance or control measures undertaken in the reporting period;
- e) A summary of the calibration and maintenance carried out on all effluent monitoring equipment;
- f) A description of efforts made and results achieved in meeting effluent objectives of Condition 6.
- g) A tabulation of quantity of sludge generated in the reporting period, an outline of anticipated quantities to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;
- h) A summary of any complaints received during the reporting period and any steps taken to address the complaints;
- i) A summary of all by-pass, spill or abnormal discharge events;
- j) A copy of all Notice of Modifications submitted to the Water Supervisor as a result of Schedule B, Section 1, with a status report on the implementation of each modification;
- k) A report summarizing all modifications completed as a result of Schedule B, Section 3; and
- l) Any other information the Water Supervisor requires from time to time.

In addition, this Annual Performance Report must be forwarded to the MECP no later than March 31, 2022. The WPCP must comply with all the requirements, criteria contained in the ECA, along with all Acts, Regulations, and F-Series Procedures made concerning operation of facilities, licensing of facilities, licensing of operators and Legislation that pertains to the Sustaining of Water and Sewerage Facilities.

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1.0 Introduction

This Annual Performance Report is for the period from January 1st to December 31st 2021 which is a legislative requirement under Condition 11 (4) of C of A number 5671-AE7HFT. This Annual Performance Report must be forwarded to the Ministry of Environment Conservation and Parks (MECP) no later than March 31st, 2022.

2.0 Facility and Process Overview

The Smiths Falls Water Pollution Control Plant (WPCP) is responsible for providing wastewater collection and treatment from industrial, commercial and residential users within the limits of the Town of Smiths Falls, as well as Atironto subdivision in Montague Township. The wastewater is collected in sanitary and combined sewer pipes that is conveyed by gravity and or pumped to the WPCP. A total of 2,832,833 cubic meters (m³) of wastewater was treated in 2021.

The WPCP is a Class IV nitrifying tertiary treatment activated sludge plant with a rated capacity of 14,700 cubic meters per day (m³/d). As such, the facility consists of a raw sewage lift station (head works building) including screening and grit removal/classification, primary treatment, secondary treatment including nitrification which removes nitrogen by a *nitrification/denitrification* process. The plant also has chemically assisted phosphorus removal, tertiary filtration and effluent disinfection by ultraviolet light irradiation (UV). Primary and thickened waste activated sludge is dewatered, dried and pelletized. The final product is sold for off-site reuse.

2.1 Inlet Sewers

The inlet sewers consist of one 600 mm diameter gravity sewer from the river crossing downstream at Old Slys Locks and one 900 mm diameter gravity sewer from the Highway 43 trunk sewer to the inlet sewer described above. Both of these collectors combine into a 1200 mm diameter gravity sewer which discharges into the wet well in head works.

2.2 Head Works Building and Preliminary Treatment

The head works building contains a 60 foot deep wet well where raw sewage is pumped (lifted) by three (3) sewage lift pumps up to the bar screens. There are two (2) additional sewage lift pumps onsite as backup pumps should one or more primary sewage lift pumps fail. Screening units consists of two (2) parallel bar screen channels which screen large

suspended or floating solids and materials from the raw sewage to prevent plugging and damage to equipment.

Grit removal is accomplished by using tea cups which use a vortex action that will cause the heavier particles of grit and sand to separate out of the wastewater which then flows to the primary tanks. The grit is then pumped to a bin for off-site disposal.

2.3 Primary Treatment

The wastewater flows by gravity from the head works building to the primary clarifiers which consists of two (2) parallel rectangular clarifiers or tanks. The clarifiers consist of a chain and flight system which moves solids that have settled to the bottom of the clarifiers. These solids are later removed by processing into pellets. Floatables are skimmed from the surface and later landfilled.

2.4 Biological and Secondary Treatment

The Biological and Secondary treatment occurs when primary treated wastewater is discharged into two (2) aeration basins, activated sludge (return activated sludge RAS) is mixed with the wastewater. Micro-organisms in the sludge provide biological treatment by consuming the colloidal and dissolved solids. A coagulant is added to the wastewater prior to wastewater entering the secondary clarifiers. This coagulant is added to help in the removal of phosphorus.

2.5 Tertiary Treatment

Tertiary treatment is an advanced wastewater treatment process which further removes nutrients like phosphorus and a higher percentage of suspended solids by sand filtration from the effluent.

2.6 Disinfection & Outfall

Disinfection of the final effluent is provided by two (2) in series banks of ultraviolet (UV) light irradiation. The use of UV lights is used to irradiate the pathogenic micro-organisms in the effluent prior to discharging to the outfall. The final effluent is discharged through a 1,050 mm diameter outfall sewer pipe to the receiving water body which is the Rideau River.

2.7 Solids Handling

Sludge from the primary and secondary treatment processes are pumped into one of two (2) 75 m³ underground sludge storage tanks, the two tanks equalize through a common connection. The sludge is conveyed from the storage tanks to a belt filter press. The press produces a sludge cake with a minimum solids concentration of 18 - 22%.

The dewatered sludge is fed to a single train sludge dryer and pelletizer process to produce a granulated dried sludge at a solids concentration of 94%. The sludge pellets are recognized as a fertilizer product by the Canadian Food Inspection Agency and are regulated under the Federal Fertilizer Act. These pellets are sold to TerraPure Environmental or area farmers and, as such the marketed fertilizer pellets are used for agricultural (excluding crops for human consumption) or horticulture.

Monthly solids totals appear in **Appendix D Solids Handling.**

Production for 2021:

- 16,964 m³ of sludge was processed
- 504 super sacks filled (approximately 631 kg/sack)
- 342,171 kg of pellets produced
- 2,416.3 pellet production hours

Production for 2020:

- 17,216.1 m³ of sludge was processed
- 492 super sacks filled (approximately 631 kg/sack)
- 358,891.2 kg of pellets produced
- 2,469.2 pellet production hours

2.8 Combined Sewer Overflow Tank

Excessive storm water/snow melt flows are handled by temporary storage in the Combined Sewer Overflow Tank (CSO). The capacity of the tank is approximately 4,000 m³ or 4 million liters. As storm water/snowmelt flows subside, the captured wastewater is fed back into the main process flows for treatment. Flows exceeding the capacity of the CSO tanks will bypass secondary treatment (Aeration and Tertiary) via the bypass pipe and then blended with process flow which has received aeration, secondary clarification and filtration. This blended flow of bypass and process wastewater passes through UV treatment before discharge to the receiving water (Rideau River).

3.0 Environmental Compliance Approval & Licensing

For the year 2021, the Smiths Falls WPCP operated under amended Environmental Compliance Approval (ECA) Number 5671-AE7HFT which was issued on January 11th, 2017. The facility has been designated as a Class IV facility under the *Licensing of Sewage Works Operators Regulation, O. Reg. 129/04* made under the *Ontario Water Resources Act*.

The ECA establishes terms and conditions which the WPCP must operate under at all times. These terms and conditions establish effluent objectives, effluent limits, operation and maintenance, monitoring and recording along with reporting requirements of the WPCP. Should these requirements not be met the facility is not complying with the ECA.

The ECA also establishes the *Rated Capacity* for the facility which is 14,700 m³/d. For 2021, the average daily flow was 7,761.19 m³. For the reporting period of 2021, the WPCP operated at an average of 52.80% of the rated capacity. Typically, the average flows are between 60% and 70%.

The *Licensing of Sewage Works Operators Regulation, O. Reg. 129/04* requires the owner to ensure that everyone who works in the facility holds a license applicable to the type of facility. This regulation also requires the designation of an overall responsible operator (ORO) for the facility and that the ORO holds a license applicable to and of the same class as or higher than the class of the facility or one level below for no longer than six months out of a year. Both of these requirements are being met.

*A copy of Environmental Compliance Approval number 5671-AE7HFT which the facility operated under in 2021 can be found in **Appendix A**.*

4.0 Monitoring Data

The ECA lists effluent limits for Carbonaceous Biochemical Oxygen Demand (CBOD₅), Total Suspended Solids (TSS), Total Phosphorus (TP), Total Ammonia Nitrogen (NH₃), pH and E. coli. The limits are used to determine monthly compliance with the ECA and to determine if the process is functioning as per the ECA requirements.

4.1 Performance of Effluent Quality Assurance or Control Measures

The WPCP maintains a weekly sampling schedule of Raw Influent and Final Effluent as per the requirements listed in the monitoring and recording Condition of the ECA.

Analyses are performed in-house or sent to an accredited laboratory as part of a quality assurance program, and as such, the results are utilized to identify any process changes required. All such analysis are included as part of the monitoring data in this report. Plant performance data is stored both in-house as well as on an online repository known as WaterTrax®.

Monitoring data and a comparison to effluent limits can be found in **Appendix B.**

4.2 Meeting Final Effluent Limits & Objectives

During this reporting period the treatment train produced an effluent that overall met all limits as indicated in the ECA.

Compliance was achieved with the Final *"Effluent Limits"* during the reporting period for monthly average concentrations and monthly average waste loadings for Carbonaceous Biochemical Oxygen Demand (CBOD₅), Total Suspended Solids (TSS), Total Phosphorus (TP), Total Ammonia Nitrogen (NH₃), pH and the monthly Geomean for E. coli.

Compliance was also achieved with the Final *"Objective Limits"* during the reporting period for monthly average concentrations for Carbonaceous Biochemical Oxygen Demand (CBOD₅), Total Phosphorus (TP), Total Ammonia Nitrogen (NH₃), pH and the monthly Geomean for E. coli. ECA Objectives are non-enforceable effluent quality results which wastewater plants are obligated to use best efforts to achieve on an on-going basis.

A summary and interpretation of all monitoring data and a comparison to the effluent limits in Condition 7 in the Environmental Compliance Approvals (ECA), including an overview of the success and adequacy of the Works can be found in **Appendix B.**

5.0 Performance of Secondary Treatment By-pass Events

In 2021, the WPCP experienced no secondary treatment by-passes, this is the first time there has been no by-passes since the construction of the combine sewer overflow tank in 2011. This is quite an achievement.

All secondary treatment by-pass events are reported verbally to the MECP Spills Action Centre (SAC). Agencies notified via fax or email includes SAC, and the Leeds Grenville and Lanark District Health Unit. Samples of the by-pass events are collected and sent to our accredited laboratory when possible. Every effort is made to have each by-pass event sampled in accordance with the ECA, this could include driving samples to the laboratory or couriering them.

There can be no raw sewage by-passes to the environment at the WPCP. All wastewater entering the facility receives at a minimum, preliminary treatment, grit removal and primary treatment along with UV irradiation and blending with the secondary and tertiary effluent wastewater stream before discharge to the Rideau River.

The bypass summary was submitted to the Ministry on the following dates February 7th, May 10th, August 10th and November 8th.

The below table is a summary of the secondary treatment bypasses from 2016 to 2021

YEAR	Number of Secondary Treatment Bypasses	Total Duration (Hr)	Total Volume (m ³)
2016	5	97.7	23,280.0
2017	7	912.4	317,655.0
2018	9	1,722.0	597,430.0
2019	6	121.9	27,114.0
2020	5	105.9	42,639.7
2021	0	0.0	0.0

6.0 Operational Problems & Corrective Actions

There were no operational problems during the reporting period that caused treatment plant issue with the ECA.

7.0 On Call

The operators are provided with their own Town issued mobile phone. These lines of communication, allow the operator to connect to the SCADA (Supervisory Control and Data Acquisition) system and immediately take measures to monitor or correct abnormal operational issues. Should an alarm fail to be answered or acknowledged, it will go through the programmed WIN-911 list which the Manager is a part of and can take the required action if needed.

8.0 Performance of all Maintenance

During the reporting period, reactive maintenance, preventative maintenance, and predictive maintenance was performed as required and, on a routine basis or, as recommended by the equipment manufacturer manuals.

An electronic work order management system (MESH) is also being used to track preventative and corrective maintenance activities.

Below are some of the major maintenance highlights:

- ◆ Motor (M111): seized required replacement along with pulleys and belts
- ◆ Sizer (M1430): contractor install new hardware on vibrating sizer motors
- ◆ Sizer (M1430): bearings failed, replace lower motor
- ◆ Mixer (3040): mixer tripping out, gear box noisy, replace SEW drive with Nord gear drive from stock
- ◆ Belt press decanter: contractor installed new rollers and bearings as well as completed alignment
- ◆ Mixer (M920): failed, required complete replacement by contractor with new unit and anchors
- ◆ Mixer (M930): sludge tank 2 mixer broken, requires repairs. Housing sent to contractor for repairs, decided to replace with new unit and shaft
- ◆ Pump (M103): winding temp sensor not online possible bad connection or wire, pump sent to contractor for repair.
- ◆ Sizer (M1430): Replaced oversized and target screen, require new screens to be made up both had tears.

- ◆ Sludge lift pump: shaft broken, pump sent to contractor for repairs who is waiting on parts to complete the repair.

A summary of 2021 Maintenance Records can be found in **Appendix C.**

8.1 Centre St Pumping Station

During the reporting period the following operating problems, issues and corrective actions were completed at the Centre St pumping station:

Operating problems, issues and corrective actions

- ◆ Communication issues correct by re-setting the router
 - January 1st, April 8th & November 4th, 2021
- ◆ Power outage required pump station to run on portable generator
 - March 14th
- ◆ Low pump output on pump #2, taken out of service
 - October 8th
- ◆ Replaced pump #2, old pump sent away to be rebuilt
 - October 21st

Maintenance or calibrations carried out on equipment

- ◆ Oct 21: Pump #2 replaced
- ◆ Dec 2: Flow meter was verified / calibrated

No complaints received during reporting period.

9.0 Performance of Verification and or Maintenance on Effluent Monitoring Equipment

There are two Parshall Flumes in service at the WPCP. One measures Secondary Clarifier (SC) flow, and the other measures Final Effluent (FE) flow. Verifications were performed on the Final Effluent, Secondary Effluent Flow meter and the Secondary Bypass Flow meter in December 2021. There were also nine (9) flow meters that were verified in December 2021 as well.

10.0 Sludge Generation

Approximately, 16,964 m³ of sludge was processed in 2021. Sludge generation is not anticipated to increase significantly during the next reporting period. The sludge generated is processed into pellets which are in turn sold to TerraPure Environmental to facilitate sales for farmers to spread on their fields as fertilizer. These pellets are regulated by the Canadian Food Inspection Agency (CFIA) under the Fertilizer Act. Exact locations of the farmers' disposal sites (fields) are decided by the farmer.

Contingency

In the event that primary sludge must be hauled offsite, arrangements have been made with the Robert O. Picard Environmental Center (ROPEC) in Ottawa. As well, primary sludge and processed cake can be shipped to waste sites operated by TerraPure Environmental.

Only MECP approved and licensed haulers are used to transport the sludge or cake. Little to no change in sludge generation is anticipated over the next reporting period.

A summary of 2021 Sludge Solids Handling can be found in **Appendix D.**

11.0 Summary Complaints

There were no complaints received during the reporting period in 2021 regarding the WPCP. Should a complaint be received immediate steps are taken to rectify the issue.

12.0 Ministry of Environment Conservation & Parks Communal Sewage Inspection Report

There was no Ministry of the Environment Conservation and Parks (MECP) inspection conducted during the inspection period.

13.0 Waste Received from Outside Smiths Falls

No septage was received at the Smiths Falls WPCP during the reporting period.

14.0 Municipal Utility Monitoring Program (MUMPs) Report

On a monthly basis a MUMPs compliance report is completed and submitted electronically to the MECP. This report contains the following information; monthly flows, secondary treatment by-pass flows (if an event occurred) and, Raw & Final effluent parameters. This

report is to ensure the WPCP remains in compliance with the ECA. MUMPs reports from 2021 can be found in **Appendix E.**

15.0 Operator Licenses

Section 14 (1) of O. Reg. 129/04 requires that the owner of the facility ensures that every operator employed or performing operational duties in the facility holds a valid license. A list of operator licenses can be found in **Appendix F.**

16.0 Notice of Modifications (Limited Operational Flexibility)

There were two (2) notices of modification (limited operational flexibility) completed in 2021. One was for the installation and configuration of WIN911 software to handle all alarms, the other was supply and configuration to update the PLC equipment.

The Notice of Modification to Sewage Works and report on further details can be found in **Appendix G.**

APPENDIX A

**Certificate of Approval Number 5671-AE7HFT
Certificate of Approval Number 8-4041-93-006**



AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 5671-AE7HFT
Issue Date: January 11, 2017

The Corporation of the Separated Town of Smiths Falls
77 Beckwith St N
Post Office Box, No. 695
Smiths Falls, Ontario
K7A 4T6

Site Location: Smiths Falls Water Pollution Control Plant (WPCP)
180 Queen St
Smiths Falls, County of Lanark

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

municipal sewage works for the transmission and treatment of sanitary sewage from the Separated Town of Smiths Falls and disposal of effluent to Rideau River via a Sewage Treatment Plant (Smiths Falls WPCP) having a Rated Capacity of 14,700 m³/d, consisting of the following:

Previous Works

Centre Street Sewage Pumping Station

- one (1) 4.21 m x 1.5 m x 4.25 m SWD wetwell/drywell style sewage pumping station located at 57 Center Street, equipped with two (2) sewage pumps (one standby), each rated at 17.7 L/s at 9.86 m TDH and controlled by variable frequency drives;
- flow meter and station bypass pumping chamber;
- a 16 kW diesel generator set;
- a 150 mm diameter forcemain along Centre Street, discharging to manhole #368 at Centre Street and Elmsley Street and therefrom to the main truck sewer discharging at the Smiths Falls WPCP;

Smiths Falls Water Pollution Control Plant

a conventional activated sludge process plant located at 180 Queen Street, having a Rated Capacity of 14,700 m³/d, discharging effluent to Rideau River.

Inlet Sewers

- one (1) 900 mm and 1200 mm diameter gravity inlet sewer from the south side trunk sewer Rideau River underpass outlet to the raw sewage pumping station inlet chamber;
- one (1) 900 mm diameter gravity sewer from the Highway 43 trunk sewer to the inlet sewer described above;

Raw Sewage Pumping Station

- a raw sewage pumping station with an inlet chamber and two wet wells, equipped with three (3) (one standby) submersible pumps, each rated at 352 L/s at 15.3 m TDH, discharging into a channel leading to the Preliminary Treatment;

Wet Weather Flow Storage Tank

- one (1) 4000 m³ tank to temporarily store wet weather flows that exceed the capacity of the secondary treatment system;
- two (2) tank discharge pumps (one standby) to return stored sewage back to the primary tank or aeration tank for treatment after the wet weather event, each pump rated at 44 L/s at 7.5 m TDH;

Preliminary Treatment

Screening

- two (2) parallel screen channels, each with a Peak Flow Rate of 25,230 m³/d and equipped with an automatic self-cleaning screen with 25 mm (vertical) x 6 mm (horizontal) mesh, including a screw conveyor screenings de-watering press and screenings disposal bin;

Grit Removal

- two (2) grit removal units, each with a Peak Flow Rate of 25,350 m³/d with two (2) grit pumps, each rated at 15.8 to 20.5 L/s at 11.4 to 15.5 m TDH including a grit de-watering unit and grit disposal bin;

Primary Sedimentation

- two (2) 38.1 m x 10.06 m x 3.72 m SWD twin-pass primary clarifiers, each with a Peak Flow Rate of 25,230 m³/d and equipped with sludge and scum removal mechanisms;
- two (2) primary sludge and scum pumps, each rated at 22.7 L/s at 34.75 m TDH;

Secondary Treatment

Biological Treatment

- two (2) 39.6 m x 12.5 m x 4.6 m SWD complete mix aeration tanks, equipped with fine bubble aeration systems;
- three (3) air blowers (two standby), rated at 64.3 m³/min at 51.7 kPa;

Secondary Sedimentation

- two (2) 46.2 m x 12.2 m x 3.6 m SWD twin-pass secondary clarifiers, equipped with sludge and scum mechanisms;
- three (3) variable speed return activated sludge pumps (one standby), each rated at 37.8 to 86.5 L/s at 2.7 to 8.2 m TDH;
- two (2) variable speed waste activated sludge pumps, each rated at 6.3 L/s at 7.5 m TDH;

Tertiary Treatment

- two (2) 18.9 m x 5.0 m x 2.4 m single media gravity type tertiary filters, each with a Peak Flow Rate of 25,230 m³/h, with automatic continuous backwash;

Supplementary Treatment

Phosphorus Removal

- two (2) 18.9 m³ chemical storage tanks, equipped with four (4) metering pumps each rated at 19.5 to 215 L/h, with dosing points at the influent and the effluent channels of the secondary clarifier and in the flash mix tank;
- one (1) flash mix tank being a 2.7 m long section of the flocculation tank inlet channel, equipped with a 2.2 kW mixer;
- two (2) 6.45 m x 6.45 m x 5.1 m SWD flocculation tanks with overflow gates to the tertiary filter influent channel, each equipped with a 1.1 kW flocculator;

Disinfection

- a 11 m x 1.75 m x 1.4 m deep UV disinfection system, equipped with an automatic liquid level controller on the outlet to the plant effluent channel, and a low pressure mercury vapour ultraviolet irradiation lamp system with 65% of the radiation output at the wave length of

253.7 nm and a nominal average intensity of radiation of $6150 \mu\text{W}/\text{cm}^2$ at 65% transmission, consisting of three (3) in-series independently operated banks of removable lamp modules;

Effluent Outfall

- a 1,050 mm diameter outfall sewer extending approx. 145 m south from the end of the plant effluent channel to mid-stream Rideau River past the navigational channel (the river portion buried in the river bed), including a multi-port outfall structure on the outlet, and a valved emergency connection to the old outfall sewer;

Sludge Management

- two (2) 75 m^3 mixed sludge (primary and thickened waste activated) holding tanks, each equipped with an mixer;
- one (1) filter press sludge feed pump rated at a 2.7 L/s at 296 kPa, equipped with variable speed drive, together with a 3 hp motor sludge mercerator on the pump's suction line;
- one (1) belt filter press rated at a sludge loading of $7.0 \text{ m}^3/\text{h}$ at a solids concentration of 4%, together with a polymer solution preparation and metering unit, an in-line mixer, and a 0.55 L/s capacity variable speed drive sludge cake transfer pump;
- a sludge drying facility (the pelletizer) rated at a sludge loading rate of 1.71 m/h at a solids concentration of 25%, consisting of a twin shaft dryer feed mixer, a rotary drier, a cyclone type solids separator, a vibrating screen type sludge pellet classifier, two (2) final product cooling, and storage silos with a bagging facility;

Standby Power

- one (1) 600 kW standby power diesel engine generator set with one (1) 900 litre capacity fuel tank located in the pelletizer building;

all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned Sewage Works;

all in accordance with the submitted supporting documents listed in Schedule A.

For the purpose of this environmental compliance approval, the following definitions apply:

"Approval" means this entire document and any schedules attached to it;

"Annual Average Daily Flow" means the cumulative total sewage flow to the sewage works during a calendar year divided by the number of days during which sewage was flowing to the sewage works that year;

"BOD5" (also known as TBOD5) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demand;

"Bypass" means diversion of sewage around one or more unit processes within the Sewage Treatment Plant with

the diverted sewage flows being returned to the Sewage Treatment Plant treatment train upstream of the Final Effluent sampling location, and discharging to the environment through the Sewage Treatment Plant outfall;

"CBOD5" means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample;

"Daily Concentration" means the concentration of a contaminant in the effluent discharged over any single day, as measured by a composite or grab sample, whichever is required;

"Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA;

"*E. coli* " refers to the thermally tolerant forms of *Escherichia* that can survive at 44.5 degrees Celsius;

"Emergency Situation" means a structural, mechanical or electrical failure that causes a temporary reduction in the capacity of the Sewage Treatment Plant or an unforeseen flow condition that may result in:

- a. danger to the health or safety of any person; or,
- b. injury or damage to any property, or serious risk of injury or damage to any property; or
- c. treatment process biomass washout.

"EPA" means the *Environmental Protection Act* , R.S.O. 1990, c.E.19, as amended;

"Equivalent Equipment" means a substituted equipment or like-for-like equipment that meets the required quality and performance standards of a named equipment;

"Event" means an action or occurrence, at a given location within the Sewage Treatment Plant that causes a Bypass or Overflow. An Event ends when there is no recurrence of a Bypass or Overflow in the 12-hour period following the last Bypass or Overflow. Two Events are separated by at least 12 hours during which there has been no recurrence of a Bypass or Overflow. An Overflow and a Bypass are two separate reportable Events even when occurring concurrently;

"Final Effluent" means effluent discharged through the Final Effluent sampling location and via the Sewage Treatment Plant outfall to the environment;

"Geometric Mean Density" is the nth root of the product of multiplication of the results of n number of samples over the period specified;

"Limited Operational Flexibility" (LOF) means any modifications that the Owner is permitted to make to the Works under this Approval;

"Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes

all officials, employees or other persons acting on its behalf;

"Monthly Average Concentration" means the arithmetic mean of all Daily Concentrations of a contaminant in the effluent sampled or measured, or both, during a calendar month;

"Monthly Average Daily Flow" means the cumulative total sewage flow to the sewage works during a calendar month divided by the number of days during which sewage was flowing to the sewage works that month;

"Monthly Average Loading" means the value obtained by multiplying the Monthly Average Concentration of a contaminant by the Monthly Average Daily Flow over the same calendar month;

"Owner" means The Corporation of the Separated Town of Smiths Falls and its successors and assignees;

"OWRA" means the Ontario Water Resources Act , R.S.O. 1990, c. O.40, as amended;

"Peak Flow Rate" means the maximum rate of sewage flow for which the plant or process unit was designed;

"Overflow" means a discharge to the environment from the Works at a location other than the Sewage Treatment Plant effluent outfall or into the effluent outfall downstream of the Final Effluent sampling location;

"Previous Works" means those portions of the sewage works previously constructed and approved under an approval;

"Rated Capacity" means the Annual Average Daily Flow for which the Sewage Treatment Plant is approved to handle;

"Sewage Treatment Plant" means the entire sewage treatment and effluent discharge facility;

"Water Supervisor" means the Water Compliance Supervisor for the Safe Drinking Water Branch (SDWB) for the Kingston, Ottawa, and Cornwall office of the Ministry; and

"Works" means the sewage works described in the Owner's application, and this Approval, and includes Previous Works, and modifications made under Limited Operational Flexibility.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

(2) Except as otherwise provided by these conditions, the Owner shall design, build, install, operate and

maintain the Works in accordance with the description given in this Approval, and the application for approval of the Works.

(3) Where there is a conflict between a provision of any document in the schedule referred to in this Approval and the conditions of this Approval, the Conditions in this Approval shall take precedence, and where there is a conflict between the documents in the schedule, the document bearing the most recent date shall prevail.

(4) Where there is a conflict between the documents listed in the Schedule A, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

(5) The Conditions of this Approval are severable. If any Condition of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

2. CHANGE OF OWNER

(1) The Owner shall notify the Water Supervisor and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:

- a. change of Owner;
- b. change of address of the Owner;
- c. change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the Water Supervisor;
- d. change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the Water Supervisor;

(2) In the event of any change in ownership of the Works, other than a change to a successor municipality, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the Water Supervisor and the Director.

3. RECORD DRAWINGS

(1) A set of as-built drawings showing the Works "as constructed" shall be prepared or updated. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the Works for the operational life of the Works.

4. BYPASSES

(1) Any Bypass is prohibited, except:

- a. in an emergency situation when a structural, mechanical or electrical failure that causes a temporary reduction in the capacity of the Sewage Treatment Plant or in unexpected and/or unavoidable circumstance(s) that are likely to result in personal injury, loss of life, health hazard, basement flooding, severe property damage, equipment damage or treatment process upset;
- b. where the Bypass is a direct and unavoidable result of a planned maintenance procedure or other circumstance(s), the Owner having notified the Water Supervisor at least fifteen (15) days prior to the occurrence of Bypass, including an assessment of the potential adverse effects on the environment and the anticipated duration of the Bypass and the mitigation measures, and the Water Supervisor has given written consent of the Bypass;

(2) For any Bypass Event, the Owner shall forthwith notify the Spills Action Centre (SAC), and the local Medical Officer of Health. This notice shall include, at a minimum, the following information for each Event:

- a. the date(s), time(s) of the Bypass(es);
- b. the treatment process(es) Bypassed and the status of the disinfection;
- c. the reason(s) for the Bypass(es).

(3) After any Bypass Event, the Owner shall collect and record the following information:

- a. the duration of the Bypass Event;
- b. the measured or the estimated volume of Bypass(es) for each Event.

(4) The Owner shall use best efforts to collect a representative sample consisting of a minimum of two (2) grab samples of the Bypass and have it analysed for parameters outlined in Condition 7 using the protocol specified in Condition 9, one at the beginning of the Event and the second approximately near the end of the Event, to best reflect the effluent quality of such Bypass. For a specific situation when the facility is unmanned during the Event, a composite sample of the Final Effluent is accepted.

(5) The Owner shall submit a summary report of the Bypass Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15. The summary reports shall be in an electronic format, which shall contain, at a minimum, the types of information set out in Subsections (2), (3) and (4) for Bypass(es). The Water Supervisor may modify the reporting frequency at any time in writing.

5. OVERFLOWS

(1) Any Overflow is prohibited, except:

- a. in an emergency situation when a structural, mechanical or electrical failure that causes a temporary reduction in the capacity of the Sewage Treatment Plant or in unexpected and/or unavoidable circumstance(s) that are likely to result in personal injury, loss of life, health hazard, basement flooding, severe property damage, equipment damage or treatment process upset;
- b. where the Overflow is a direct and unavoidable result of a planned maintenance procedure or other circumstance(s), the Owner having notified the Water Supervisor at least fifteen (15) days prior to the occurrence of the Overflow, including an assessment of the potential adverse effects on the environment and the anticipated duration of the Overflow and any mitigation measures, and the Water Supervisor has given written consent of the Overflow.

(2) For any Overflow Event, the Owner shall forthwith notify the Spills Action Centre (SAC) and the local Medical Officer of Health. This notice shall include, at a minimum, the following information for each Event:

- a. the date(s), time(s) of the Overflow(s);
- b. the location(s) of the Overflow(s) and the receiver;
- c. the reason(s) for the Overflow(s); and
- a. the level of treatment the Overflow(s) has received and disinfection status of same.

(3) After any Overflow Event, the Owner shall collect and record the following information:

- a. the duration of the Overflow Event;
- b. the monitored or estimated volume of the Overflow(s); and
- c. the impact of Overflow(s) on the receiver.

(4) For each Overflow Event, the Owner shall collect samples, representative of the Event, consisting of a minimum of two (2) grab samples of the Overflow, one at the beginning of the Event and one approximately near the end of the Event, and every 4 hours for the duration of the Event, and have them analyzed for effluent parameters outlined in Effluent Limits condition. For raw sewage and primary treatment system Overflow, BOD5 shall be monitored instead of CBOD5 and monitoring of *E. coli* is not required.

(5) The Owner shall submit a summary report of the Overflow Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15. The summary report shall be in an electronic format, which shall contain,

at a minimum; the types of information set out in Subsections (2), (3) and (4) for Overflow(s). The Water Supervisor may modify the reporting frequency at any time in writing

6. EFFLUENT OBJECTIVES

(1) The Owner shall use best efforts to design, construct and operate the Works with the objective that the concentrations of the materials named below as effluent parameters are not exceeded in the effluent from the Sewage Treatment Plant.

Table 1 - Effluent Objectives	
Effluent Parameter	Concentration Objective (milligrams per litre unless otherwise indicated)
CBOD5	10
Total Suspended Solids	5
Total Phosphorus	0.25
Total Ammonia Nitrogen	2.0 (Jun 1 to Aug 31) 12.0 (Sept 1 to May 31)

(2) The Owner shall use best efforts to:

- a. maintain the pH of the effluent from the Works within the range of 6.5 - 8.5, inclusive, at all times;
- b. operate the works within the Rated Capacity of the Works;
- c. ensure that the effluent from the Works is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film or sheen or foam or discolouration on the receiving waters.
- d. ensure that the effluent is continuously disinfected during the disinfection period so that the monthly Geometric Mean Density of *E. coli* does not exceed 150 organisms per 100 millilitres of effluent discharged from the Sewage Treatment Plant.

7. EFFLUENT LIMITS

(1) The Owner shall operate and maintain the Works such that the concentrations of the materials named below as effluent parameters are not exceeded in the effluent from the Sewage Treatment Plant.

Table 2 - Final Effluent Limits		
Effluent Parameter	Average Concentration (milligrams per litre unless otherwise indicated)	Average Waste Loading (kilograms per day unless otherwise indicated)
Column 1	Column 2	Column 3
CBOD5	15	220.5
Total Suspended Solids	15	220.5
Total Phosphorus	0.3	4.4
Total Ammonia Nitrogen	2.6 (Jun 1 to Aug 31) 14.0 (Sept 1 to May 31)	38.0(Jun 1 to Aug 31) 206.0 (Sept 1 to May 31)

(2) For the purposes of determining compliance with and enforcing subsection (1):

- a. The Monthly Average Concentration of a parameter named in Column 1 of subsection (1) shall not exceed the corresponding maximum concentration set out in Column 2 of subsection (1).
- b. The Monthly Average Loading of a parameter named in Column 1 of subsection (1) shall not exceed the corresponding maximum waste loading set out in Column 3 of subsection (1).

(3) The Owner shall operate and maintain the Works such that the pH of the effluent from the Sewage Treatment Plant is maintained within the range of 6.0 - 9.5, inclusive, at all times.

(4) Notwithstanding subsection (1), the Owner shall operate and maintain the Works such that the effluent is continuously disinfected so that the monthly Geometric Mean Density of *E. Coli* does not exceed 200 organisms per 100 millilitres of effluent discharged from the Works.

8. OPERATION AND MAINTENANCE

(1) The Owner shall exercise due diligence in ensuring that, at all times, the Works and the related equipment and appurtenances used to achieve compliance with this Approval are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all procedures and other requirements of this Approval and the Act and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the Works.

(2) The Owner shall prepare an operations manual, that includes, but not necessarily limited to, the following information:

- a. operating procedures for routine operation of the Works;
- b. inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary;
- c. repair and maintenance programs, including the frequency of repair and maintenance for the Works;
- d. procedures for the inspection and calibration of monitoring equipment;
- e. a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the Water Supervisor; and
- f. procedures for receiving, responding and recording public complaints, including recording any followup actions taken.

(3) The Owner shall maintain the operations manual current and retain a copy at the location of the Works for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.

(4) The Owner shall provide for the overall operation of the Works with an operator who holds a licence that is applicable to that type of facility and that is of the same class as or higher than the class of the facility in accordance with Ontario Regulation 129/04.

9. MONITORING AND RECORDING

The Owner shall, upon commencement of operation of the Works, carry out the following monitoring program:

(1) All samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.

(2) For the purposes of this condition, the following definitions apply:

- a. Weekly means once each week;

(3) Samples shall be collected at the following sampling points, at the frequency specified, by means of the specified sample type and analyzed for each parameter listed and all results recorded:

Table 3 - Influent Monitoring		
Parameters	Sample Type	Frequency
BOD5	Composite	Weekly
Total Suspended Solids	Composite	Weekly
Total Phosphorus	Composite	Weekly
Total Kjeldahl Nitrogen	Composite	Weekly

Table 4 - Final Effluent Monitoring		
Parameters	Sample Type	Frequency
CBOD5	Composite	Weekly
Total Suspended Solids	Composite	Weekly
Total Phosphorus	Composite	Weekly
Total Ammonia Nitrogen	Composite	Weekly
E. coli	Grab	Weekly
pH	Grab	Weekly
Temperature	Grab	Weekly
Unionized Ammonia	Calculated	Weekly

(4) The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following:

- a. the Ministry's Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only), as amended from time to time by more recently published editions;
- b. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions;
- c. the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions;

(5) The temperature and pH of the effluent from the Works shall be determined in the field at the time of sampling for Total Ammonia Nitrogen. The concentration of un-ionized ammonia shall be calculated using the total ammonia concentration, pH and temperature using the methodology stipulated in "Ontario's Provincial Water Quality Objectives" dated July 1994, as amended, for ammonia (un-ionized).

(6) The Owner shall install and maintain (a) continuous flow measuring device(s), to measure the flowrate of the influent to the Sewage Treatment Plant with an accuracy to within plus or minus 15 per cent (+/- 15%) of the actual flowrate for the entire design range of the flow measuring device, and record

the flowrate at a daily frequency.

(7) The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the monitoring activities required by this Approval.

10. LIMITED OPERATIONAL FLEXIBILITY (MODIFICATIONS TO THE WORKS)

(1) The Owner may make modifications to the Works in accordance with the Terms and Conditions of this Approval and subject to the Ministry's "Limited Operational Flexibility Criteria for Modifications to Sewage Works", included under Schedule B of this Approval, as amended.

(2) Sewage works proposed under Limited Operational Flexibility shall adhere to the design guidelines contained within the Ministry's publication "Design Guidelines for Sewage Works 2008", as amended.

(3) The Owner shall ensure at all times, that the Works, related equipment and appurtenances which are installed or used to achieve compliance are operated in accordance with all Terms and Conditions of this Approval.

(4) For greater certainty, the following are not permitted as part of Limited Operational Flexibility:

- a. Modifications to the Works that result in an increase of the approved Rated Capacity of the Works;
- b. Modifications to the Works that may adversely affect the approved effluent quality criteria or the location of the discharge/outfall;
- c. Modifications to the treatment process technology of the Works, or modifications that involve construction of new reactors (tanks) or alter the treatment train process design;
- d. Modifications to the Works approved under s.9 of the EPA, and
- e. Modifications to the Works pursuant to an order issued by the Ministry.

(5) Implementation of Limited Operational Flexibility is not intended to be used for piecemeal measures that result in major alterations or expansions.

(6) If the implementation of Limited Operational Flexibility requires changes to be made to the Emergency Response, Spill Reporting and Contingency Plan, the Owner shall, as deemed necessary in consultation with the Water Supervisor, provide a revised copy of this plan to the local fire services authority prior to implementing Limited Operational Flexibility.

(7) For greater certainty, any modification made under the Limited Operational Flexibility may

only be carried out after other legal obligations have been complied with, including those arising from the *Environmental Protection Act*, *Niagara Escarpment Planning and Development Act*, *Oak Ridges Moraine Conservation Act*, *Lake Simcoe Protection Act* and *Greenbelt Act*.

(8) Prior to implementing Limited Operational Flexibility, the Owner shall complete a Notice of Modifications describing any proposed modifications to the Works and submit it to the Water Supervisor.

11. REPORTING

(1) The Owner shall report to the Water Supervisor orally as soon as possible any non-compliance with the effluent criteria, and in writing within seven (7) days of non-compliance.

(2) In addition to the obligations under Part X of the Environmental Protection Act, the Owner shall, within ten (10) working days of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, bypass or loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the Water Supervisor describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.

(3) The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.

(4) The Owner shall prepare and submit a performance report to the Water Supervisor on an annual basis, by March 31 of the year following the end of the period being reported upon. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall be submitted to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:

- a. a summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in Condition 7, including an overview of the success and adequacy of the Works;
- b. a description of any operating problems encountered and corrective actions taken;
- c. a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works;
- d. a summary of any effluent quality assurance or control measures undertaken in the reporting period;
- e. a summary of the calibration and maintenance carried out on all effluent monitoring equipment; and
- f. a description of efforts made and results achieved in meeting the Effluent Objectives of

Condition 6.

- g. a tabulation of the volume of sludge generated in the reporting period, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;
- h. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
- i. a summary of all By-pass, spill or abnormal discharge events;
- j. a copy of all Notice of Modifications submitted to the Water Supervisor as a result of Schedule B, Section 1, with a status report on the implementation of each modification;
- k. a report summarizing all modifications completed as a result of Schedule B, Section 3; and
- l. any other information the Water Supervisor requires from time to time.

(5) The Owner shall, within thirty (30) calendar days of issuance of this Approval, submit a Municipal and Local Services Board Wastewater System Profile Information Form, and shall resubmit the updated document every time a notification is provided to the Water Supervisor in compliance with requirements of change of ownership under this Approval.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Approval the existence of this Approval.
2. Condition 2 is included to ensure that the Ministry records are kept accurate and current with respect to the approved works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.
3. Condition 3 is included to ensure that record drawings of the Works “as constructed” are maintained for future references.
4. Condition 4 is included to indicate that By-pass of untreated or partially treated sewage to the receiving watercourse is prohibited, save in certain limited circumstances where the failure to By-pass could result in greater injury to the public interest than the Bypass itself where a By-pass will not violate the approved effluent requirements, or where the By-pass can be limited or otherwise mitigated by handling it in accordance with an approved contingency plan. The notification and documentation requirements allow the Ministry to take action in an informed manner and will ensure the Owner is aware of the extent and

frequency of By-pass events.

5. Condition 5 is included to indicate that Overflows of untreated or partially treated sewage to the receiving watercourse is prohibited, save in certain limited circumstances where the failure to Overflow could result in greater injury to the public interest than the Overflow itself or where the Overflow can be limited or otherwise mitigated by handling it in accordance with an approved contingency plan. The notification and documentation requirements allow the Ministry to take action in an informed manner and will ensure the Owner is aware of the extent and frequency of Overflow events.
6. Condition 6 is imposed to establish non-enforceable effluent quality objectives which the Owner is obligated to use best efforts to strive towards on an ongoing basis. These objectives are to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs and before the compliance limits of Condition 7 are exceeded.
7. Condition 7 is imposed to ensure that the effluent discharged from the Works to the environment meets the Ministry's effluent quality requirements thus minimizing environmental impact on the receiver and to protect water quality, fish and other aquatic life in the receiving water body.
8. Condition 8 is included to require that the Works be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the Owner and made available to the Ministry. Such a manual is an integral part of the operation of the Works. Its compilation and use should assist the Owner in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for Ministry staff when reviewing the Owner's operation of the Works.
9. Condition 9 is included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained at a level which is consistent with the design objectives and effluent limits specified in the Approval and that the Works does not cause any impairment to the environment.
10. Condition 10 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.
11. Condition 11 is included to ensure that the Works are operated in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider. These Conditions are also included to ensure that a Professional Engineer has reviewed the proposed modifications and attests that the modifications are in line with that of Limited Operational Flexibility, and provide assurance that the proposed modifications comply with the Ministry's requirements stipulated in the Terms and Conditions of this Approval, MOE policies, guidelines, and industry engineering standards and best management practices.

Schedule A

1. All previous application and supporting documentation including the environmental study report, pre-design report, and plans and specifications prepared by Gore & Storrie Limited, and Thornburn Penny Limited;
2. Application for Approval of Municipal and Private Sewage Works submitted by Tony Guerrero of The Greer Galloway Group Inc received May 28, 2010, including Town of Smiths Falls Pollution Prevention and Control Class Environmental Assessment Project File Report prepared by AECOM, Centre Street Sewage Pumping Station Design Report and final engineering plans for the CSO Tank and Centre Pumping Station Upgrade prepared by Greer Galloway Group.
3. Application for Approval of Municipal and Private Sewage Works, submitted by M.G. Christie of XIE (environmental) received on August 4, 2016, including an application and accompanying transmittal form for the Request for Limited Operational Flexibility;

chedule B

Limited Operational Flexibility Criteria for Modifications to Municipal Sewage Works

1. The modifications to sewage works approved under an Environmental Compliance Approval (Approval) that are permitted under the Limited Operational Flexibility (LOF), are outlined below and are subject to the LOF conditions in the Approval, and require the submission of the Notice of Modifications. If there is a conflict between the sewage works listed below and the Terms and Conditions in the Approval, the Terms and Conditions in the Approval shall take precedence.

1.1 Sewage Pumping Stations

- a. Alter pumping capacity by adding or replacing equipment where new equipment is located within an existing sewage treatment plant site or an existing sewage pumping station site, provided that the modifications do not result in an increase of the sewage treatment plant Rated Capacity and the existing flow process and/or treatment train are maintained, as applicable.
- b. Forcemain relining and replacement with similar pipe size where the nominal diameter is not greater than 1,200 mm.

1.2 Sewage Treatment Process

- a. Installing additional chemical dosage equipment including replacing with alternative chemicals for pH adjustment or coagulants (non-toxic polymers) provided that there are no modifications of treatment processes or other modifications that may alter the intent of operations and may have negative impacts on the effluent quantity and quality.
- b. Expanding the buffer zone between a sanitary sewage lagoon facility or land treatment area and adjacent uses provided that the buffer zone is entirely on the proponent's land.
- c. Optimizing existing sanitary sewage lagoons with the purpose to increase efficiency of treatment operations provided that existing sewage treatment plant rated capacity is not exceeded and where no land acquisition is required.
- d. Optimizing existing sewage treatment plant equipment with the purpose to increase the efficiency of the existing treatment operations, provided that there are no modifications to the works that result in an increase of the approved Rated Capacity, and may have adverse effects to the effluent quality or location of the discharge.
- e. Replacement, refurbishment of previously approved equipment in whole or in part with Equivalent Equipment, like-for-like of different make and model, provided that the firm capacity, reliability, performance standard, level of quality and redundancy of the group of equipment is kept the same or exceeded. For clarity purposes, the following equipment can

be considered under this provision: pumps, screens, grit separators, blowers, aeration equipment, sludge thickeners, dewatering equipment, UV systems, chlorine contact equipment, bio-disks, and sludge digester systems.

1.3 Sewage Treatment Plant Outfall

- a. Replacement of discharge pipe with similar pipe size or diffusers provided that the outfall location is not changed.

1.4 Sanitary Sewers

- a. Pipe relining and replacement with similar pipe size within the Sewage Treatment Plant site, where the nominal diameter is not greater than 1,200 mm.

1.5 Pilot Systems

- a. Installation of pilot systems for new or existing technologies provided that:
 - i. any effluent from the pilot system is discharged to the inlet of the sewage treatment plant or hauled off-site for proper disposal,
 - ii. any effluent from the pilot system discharged to the inlet of the sewage treatment plant or sewage conveyance system does not significantly alter the composition/concentration of the influent sewage to be treated in the downstream process; and that it does not add any inhibiting substances to the downstream process, and
 - iii. the pilot system's duration does not exceed a maximum of two years; and a report with results is submitted to the Director and Water Supervisor three months after completion of the pilot project.

2. Sewage works that are exempt from section 53 of the OWRA by O. Reg. 525/98 continue to be exempt and are not required to follow the notification process under this Limited Operational Flexibility.
3. Normal or emergency operational modifications, such as repairs, reconstructions, or other improvements that are part of maintenance activities, including cleaning, renovations to existing approved sewage works equipment, provided that the modification is made with Equivalent Equipment, are considered pre-approved.
4. The modifications noted in section (3) above are not required to follow the notification protocols under Limited Operational Flexibility, provided that the number of pieces and description of the equipment as described in the Approval does not change.

Notice of Modification to Sewage Works

RETAIN COPY OF COMPLETED FORM AS PART OF THE ECA AND SEND A COPY TO THE WATER SUPERVISOR (FOR MUNICIPAL) OR DISTRICT MANAGER (FOR NON-MUNICIPAL SYSTEMS)

Part 1 – Environmental Compliance Approval (ECA) with Limited Operational Flexibility <i>(insert the ECA's owner, number and issuance date and notice number, which should start with "01" and consecutive numbers thereafter)</i>		
ECA Number	Issuance Date (mm/dd/yy)	Notice number (if applicable)
ECA Owner		Municipality

Part 2: Description of the modifications as part of the Limited Operational Flexibility <i>(Attach a detailed description of the sewage works)</i>
<p>Description shall include:</p> <ol style="list-style-type: none"> 1. A detail description of the modifications and/or operations to the sewage works (e.g. sewage work component, location, size, equipment type/model, material, process name, etc.) 2. Confirmation that the anticipated environmental effects are negligible. 3. List of updated versions of, or amendments to, all relevant technical documents that are affected by the modifications as applicable, i.e. submission of documentation is not required, but the listing of updated documents is (design brief, drawings, emergency plan, etc.)

Part 3 – Declaration by Professional Engineer	
<p>I hereby declare that I have verified the scope and technical aspects of this modification and confirm that the design:</p> <ol style="list-style-type: none"> 1. Has been prepared or reviewed by a Professional Engineer who is licensed to practice in the Province of Ontario; 2. Has been designed in accordance with the Limited Operational Flexibility as described in the ECA; 3. Has been designed consistent with Ministry's Design Guidelines, adhering to engineering standards, industry's best management practices, and demonstrating ongoing compliance with s.53 of the Ontario Water Resources Act; and other appropriate regulations. <p>I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate</p>	
Name (Print)	PEO License Number
Signature	Date (mm/dd/yy)
Name of Employer	

Part 4 – Declaration by Owner	
<p>I hereby declare that:</p> <ol style="list-style-type: none"> 1. I am authorized by the Owner to complete this Declaration; 2. The Owner consents to the modification; and 3. This modifications to the sewage works are proposed in accordance with the Limited Operational Flexibility as described in the ECA. 4. The Owner has fulfilled all applicable requirements of the <i>Environmental Assessment Act</i>. <p>I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate</p>	
Name of Owner Representative (Print)	Owner representative's title (Print)
Owner Representative's Signature	Date (mm/dd/yy)

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s).
5076-86NKAG issued on July 12, 2010.**

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The environmental compliance approval number;
6. The date of the environmental compliance approval;
7. The name of the Director, and;
8. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of Part II.1 of
the Environmental Protection Act
Ministry of the Environment and Climate Change
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 11th day of January, 2017



Fariha Pannu, P.Eng.

Director

appointed for the purposes of Part II.1 of the
Environmental Protection Act

RY/

c: DWMD Supervisor, MOECC Ottawa
Ted Joynt, Town of Smith Falls

RECEIVED SEP 20 1993



Ontario

Ministry of
Environment
and Energy

Ministère de
l'Environnement
et de l'Énergie

CERTIFICATE OF APPROVAL

AIR

NUMBER 8-4041-93-006

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Rec'd DWL
SEP 23 1993

To the Applicant:

Town of Smiths Falls
191 Beckwith Street, Box 695
Smiths Falls, Ontario
K7A 4T6

Located at:

Smiths Falls Waste Water Treatment Facility,
Highway 43 and Hershey Road,
Smiths Falls, Ontario.

The Applicant has applied in accordance with Section 9 of the Environmental Protection Act for approval of:

a waste water treatment facility with the following associated exhaust systems:

- one (1) exhaust system serving the screen channels, screens, screening conveyors and screening bins, equipped with one (1) carbon adsorption unit, having 143 kilograms of activated carbon, exhausting into the atmosphere at a volumetric flowrate of 140 litres per second, through a louver having a cross sectional area of 0.16 square metre, located at 7.5 metres above grade,
- one (1) standby diesel generator, having a continuous rating of 600 kilowatts, fuelled by No. 2 diesel oil at a maximum rate of 145 litres per hour. The combustion products are discharged into the atmosphere through a stack having an exit diameter of 0.2 metre, extending 1.0 metre above the roof and 13.0 metres above grade. The diesel generator is equipped with noise control measures as specified in the "Environmental Noise Impact Study", dated November 27, 1992 and prepared by Barman Swallow Associates.
- one (1) sludge pelletizer unit, equipped with:
 - one (1) natural gas fired burner having a maximum heat input of 3,838,045 kilojoules per hour;
 - one (1) baghouse dust collector serving the drying circuit, having a filtering velocity of 2.0 centimetres per second, equipped with Ryton/Rastex-PTFE filter bags and air pulse cleaning devices;
 - one (1) baghouse dust collector serving the cooling circuit, having a filtering velocity of 2.0 centimetres per second, equipped with Dralon T filter bags and air pulse cleaning devices;

The exhaust gases are discharged into the atmosphere at a volumetric flowrate of 1.6 normal cubic metres per second, through a stack having an exit diameter of 0.3 metre, extending 13.0 metres above grade; and,



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- twenty six (26) exhaust fans to provide general ventilation. They are as follows:

LOCATION	VENT NUMBER	HEIGHT		VOLUMETRIC FLOWRATE (normal cubic metre per second)
		ABOVE ROOF (metre)	ABOVE GRADE (metre)	
Raw Sludge Pump Station	EF1	0.4	1.5	0.34
	EF2	0.4	1.5	1.30
Screen and Degrit Building				
Screen Room	EF3	0.4	6.9	0.67
Pump Room	EF4	0.4	6.9	2.80
	EF5	0.4	6.9	2.80
	EF6	0.4	6.9	0.64
Basement	EF6	0.4	6.9	0.64
Grit Pump Room	EF7	0.4	1.5	0.30
Blower Building				
Blower Room	EF8	0.4	1.7	1.15
	EF9	0.4	1.7	8.00
MCC Room	EF10	0.4	4.6	2.33
	EF11	-	3.0	0.09
Filter Room	EF12	0.4	4.6	1.57
	EF13	0.4	4.6	1.57
Administration Building				
Mens Locker Room	EF14	0.4	5.9	0.35
	EF15	0.4	5.9	0.35
	EF16	0.4	5.9	0.35
Main Exhaust	EF17	0.4	5.9	0.35
	EF18	0.4	5.9	0.35
Ladies Locker Room	EF19	0.4	5.9	0.35
	EF20	0.4	5.9	0.35
	EF21	0.4	5.9	0.35
Janitorial Room	EF21	0.4	5.9	0.35
Laboratory	EF22	0.4	5.9	0.35
Pelletizer Building				
Maintenance Room	EF23	-	4.0	0.22
Washroom	EF24	0.4	10.9	0.022
Pelletizer	EF25	-	8.0	5.18
	EF26	-	8.0	2.59

all in accordance with the application for a Certificate of Approval (Air) dated April 8, 1993, signed by C. Kowalewski and other supporting information prepared and submitted by Thornburn Penny.



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The Applicant is hereby notified that this approval is issued subject to the following terms and conditions outlined below:

TERMS AND CONDITIONS

DEFINITIONS

1. For the purpose of this Certificate of Approval:
 - a. "Act" means the Environmental Protection Act;
 - b. "Certificate" means this Certificate of Approval, issued in accordance with Section 9 of the Environmental Protection Act;
 - c. "Company" means Town of Smiths Falls;
 - d. "Burner" means the natural gas fired burner serving the sludge drying and pelletizing unit described in this Certificate;
 - e. "Diesel Generator" means the diesel generator set described in this Certificate;
 - f. "Director" means any Ministry employee appointed by the Minister pursuant to Section 5 of the Act;
 - g. "District Officer" means the District Officer, Ottawa District Office, Southeastern Region of the Ministry;
 - h. "Equipment" means the carbon adsorption unit, the baghouse dust collectors and the burner described in the Company's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate;
 - i. "Ministry" means the Ontario Ministry of Environment and Energy;
 - j. "Point of Impingement" means any point in the natural environment. The point of impingement for the purposes of verifying compliance with the Act shall be chosen as the point at which the highest concentration is expected to occur, when that concentration is calculated in accordance with the Appendix to Regulation 346 written under the Act, or any other method accepted by the Director;
 - k. "Pre-test Information" means the information outlined in Section 1.1. of the Source Testing Code;
 - l. "Source Testing Code" means the Source Testing Code, Version 2, Report No. ARB-66-80, dated November 1980, prepared by the Ministry, as amended;
 - m. "Source Testing" means sampling and testing to measure emissions resulting from operating the equipment under conditions which yield the worst case emissions within the approved operating range of the equipment.



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- n. "Supervisor" means the Supervisor, Source Assessment and Technology Unit, or any other person who represents and carries out the duties of the Supervisor, Source Assessment and Technology Unit, as those duties relate to the conditions of this Certificate;
- o. "Test Contaminants" means total hydrocarbon, total reduced sulphur and total suspended particulate.

MAINTENANCE

- 2. The Company, shall ensure that the Equipment is properly operated and maintained at all times. The Company shall, as a minimum:
 - a. prepare not later than three (3) months after the commencement of operation of the Equipment and update, as necessary, a manual outlining the operating procedures and a maintenance program for the Equipment;
 - b. implement the recommendations of the operating and maintenance manual; and
 - c. retain, for a minimum of two (2) years from the date of their creation, all records on the maintenance, repair and inspection of the Equipment.

SOURCE TESTING

- 3. The Company shall monitor the emissions and operation of the Burner as follows:
 - a. The Company shall perform Source Testing, to determine the rate of emission of the Test Contaminants from the Burner.
 - b. The Company shall submit, not later than three (3) months after the commencement of operation of the Equipment, to the Supervisor a test protocol, including the Pre-Test Information for the Source Testing required by the Source Testing Code. The Company shall finalize the test protocol in consultation with the Supervisor.
 - c. The Company shall not commence the Source Testing until the Supervisor has accepted the test protocol.
 - d. The Company shall complete the Source Testing not later than three (3) months after the Supervisor has accepted the test protocol.
 - e. The Company shall notify the District Officer and the Supervisor in writing of the location, date and time of any impending Source Testing required by this Certificate, at least fifteen (15) days prior to the Source Testing.



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- f. The Company shall submit a report on the Source Testing to the District Officer and the Supervisor not later than two (2) months after completing the Source Testing. The report shall be in the format described in the Source Testing Code, and shall also include, but not be limited to:
- i. an executive summary;
 - ii. records of operating conditions,
 - iii. the results of dispersion calculations in accordance with Regulation 346 indicating the maximum concentration of the Test Contaminants at the Point of Impingement.
- g. The Director may not accept the results of the Source Testing if:
- i. the Source Testing Code or the requirements of the Supervisor were not followed; or
 - ii. the Company did not notify the District Officer and the Supervisor of the Source Testing; or
 - iii. the Company failed to provide a complete report on the Source Testing.
- h. If the Director does not accept the results of the Source Testing, the Director may require re-testing.
4. The Company shall ensure that the noise emissions from the Diesel Generator comply with the limits determined in accordance with Publication NPC-105 of the Model Municipal Noise Control By-Law, Final Report, August 1978, as amended.
5. The Company shall restrict the periodic testing of the Diesel Generator to the daytime period of 7 a.m. to 5 p.m.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition No. 1 is included to define the special terms that are used throughout the Certificate.
2. Condition No. 2 is included on the Certificate to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the Environmental Protection Act, the regulations and this Certificate.

In addition, the Company is required to keep records to assist the Director, Section 9 of the Environmental Protection Act, in determining whether or not the Equipment is being inspected and maintained as required by the Environmental Protection Act, the Regulations and this Certificate.



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3. Condition No. 3 is included to require the Company to gather accurate information so that the environmental impact and subsequent compliance with the Act, the regulations and this Certificate can be verified.
4. Condition No. 4 is included to provide the minimum performance requirement considered necessary to prevent an adverse effect resulting from the operation of the Diesel Generator.
5. Condition No. 5 is included to ensure that the proposed operation of the Diesel Generator is not extended beyond day-time hours. Operation outside these hours, when ambient sound levels are significantly lower, may result in non-compliance with the established sound level limits.

The Applicant may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board. Section 142 of the Environmental Protection Act, R.S.O. 1990, Chapter E.19, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which the Applicant intends to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

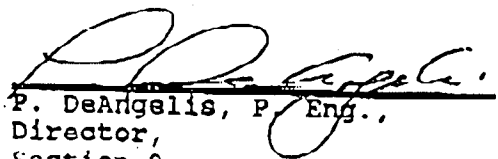
The Secretary,
Environmental Appeal Board,
112 St. Clair Avenue West,
Suite 502,
Toronto, Ontario.
M4V 1N3

AND

The Director,
Section 9, Environmental Protection Act,
Ministry of Environment and Energy,
250 Davisville Avenue, 3rd Floor,
Toronto, Ontario.
M4S 1H2

The above noted works are approved under Section 9 of the Environmental Protection Act.

DATED AT TORONTO this 7th day of September, 1993.


P. DeAngelis, P. Eng.,
Director,
Section 9,
Environmental Protection Act.

QN/an

CC:-Mr. R. Dunn, MOEE, Ottawa District Officer



Ministry of Environment and Energy

Ministère de l'Environnement et de l'Énergie

AMENDMENT TO CERTIFICATE OF APPROVAL

A I R

NUMBER 8-4041-93-006

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L020602

B

NOTICE

MINISTRY OF ENVIRONMENT & ENERGY

OCT 10 1995

OTTAWA

Town of Smiths Falls
77 Beckwith Street North, Box 695
Smiths Falls, Ontario
K7A 4T6

You are hereby notified that the approval issued under Certificate of Approval No. 8-4041-93-006, dated September 7, 1993, is amended as follows:

Condition No. 3.f. is amended to read:

- f. The Company shall submit a report on the Source Testing to the District Officer and the Supervisor not later than four (4) months after completing the Source Testing. The report shall be in the format described in the Source Testing Code, and shall also include, but not be limited to:
 - i. an executive summary;
 - ii. records of operating conditions;
 - iii. the results of dispersion calculations in accordance with Regulation 346 indicating the maximum concentration of the Test Contaminants at the Point of Impingement.

All in accordance with the Application for Approval (Air) and supporting information submitted by the Town of Smiths Falls, dated August 28, 1995, signed by B. Symondson.

All other Terms and Conditions remain unchanged.

This Notice shall constitute part of the approval issued under Certificate of Approval No. 8-4041-93-006, dated September 7, 1993.

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board. Section 142 of the Environmental Protection Act, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary,
Environmental Appeal Board,
112 St. Clair Avenue West,
Suite 502,
Toronto, Ontario.
M4V 1N3

AND

The Director,
Section 9, *Environmental Protection Act*,
Ministry of Environment and Energy,
250 Davisville Avenue, 3rd Floor,
Toronto, Ontario.
M4S 1H2

The above noted works are approved under Section 9 of the Environmental Protection Act.

DATED AT TORONTO this 18th day of September, 1995

*THIS IS A TRUE COPY OF THE
ORIGINAL NOTICE OF AMENDMENT
SIGNED BY
P. DEANGELIS, P. ENG.*

MAILED ON _____

BY _____

SJ/fn

cc: District Manager, MOEE Ottawa District Office ✓

APPENDIX B

Monitoring Data and Comparison to Effluent Limits

Town of Smiths Falls
2021 Performance Assessment Report - WPCP
Works # 12000890
Conventional Tertiary Treatment UV Disinfection / Pelletization

MONTH	PLANT FLOWS				RAW INFLUENT														
	Minimum Day (m ³)	Maximum Day (m ³)	Average (m ³)	Total (m ³)	Alkalinity (mg/L)	BOD ₅ (mg/L)	BOD ₅ Loadings (kg/d)	CBOD ₅ (mg/L)	CBOD ₅ Loadings (kg/d)	TSS (mg/L)	TSS Loadings (kg/d)	TP (mg/L)	TKN (mg/L)	Ammonia (N) - Total (mg/L)	Ammonia (N) - Unionized (mg/L)	pH	Temperature (°C)	Nitrate (mg/L)	Nitrite (mg/L)
January	6,197	9,255	7,250	224,757	184.00	152.00	1,102.03	62.00	449.51	195.00	1,413.79	3.35	19.80	13.02	0.083	7.54	7.80	4.060	0.166
February	5,681	7,991	6,194	173,434	183.00	144.00	891.95	52.00	322.09	190.00	1,176.88	2.96	19.90	17.90	0.098	7.45	7.90	1.236	0.189
March	7,092	21,580	11,663	361,559	202.00	105.00	1,224.64	49.00	571.50	189.00	2,204.34	2.66	15.70	13.01	0.067	7.47	7.90	2.320	0.221
April	6,679	16,765	8,702	261,058	222.00	160.00	1,392.30	61.00	530.82	213.00	1,853.50	2.76	19.70	17.16	0.082	7.38	9.20	1.810	0.206
May	6,012	15,909	8,926	276,714	231.00	126.00	1,124.68	54.00	482.00	192.00	1,713.79	2.81	15.70	9.24	0.042	7.43	9.20	1.630	0.200
June	2,089	9,055	6,218	186,544	204.00	122.00	758.62	45.00	279.82	190.00	1,181.46	2.12	12.30	10.71	0.050	7.36	11.10	1.008	0.133
July	5,412	9,087	6,267	194,272	187.00	148.00	927.49	86.00	538.94	253.00	1,585.50	3.58	23.10	14.31	0.031	7.29	13.00	1.280	0.209
August	5,173	9,009	5,955	184,615	188.00	153.00	911.16	79.00	470.47	255.00	1,518.60	2.25	24.60	11.08	0.057	7.33	13.00	0.846	0.136
September	4,998	11,507	6,527	195,816	199.50	187.00	1,220.59	91.00	593.98	322.00	2,101.76	5.50	24.00	11.60	0.065	7.61	10.70	1.269	0.210
October	5,567	18,641	8,090	250,789	211.00	136.00	1,100.24	62.00	501.58	199.00	1,609.91	3.39	18.40	9.08	0.050	7.33	11.50	1.203	0.168
November	5,708	10,541	7,827	234,813	219.00	146.00	1,142.76	56.00	438.32	199.00	1,557.59	3.55	17.90	4.57	0.029	7.50	9.90	2.190	0.276
December	6,208	17,146	9,305	288,462	228.00	136.00	1,265.52	49.00	455.96	172.00	1,600.51	2.20	16.80	7.68	0.032	7.56	8.20	2.240	0.262
TOTAL	66,816	156,485	92,925	2,832,833	2,458.50	1,715.00	13,061.97	746.00	5,634.99	2,569.00	19,517.64	37.13	227.90	139.36	0.686	89.25	119.40	21,092	2,376
AVERAGE	5,568	13,040	7,744	236,069	204.88	142.92	1,088.50	62.17	469.58	214.08	1,626.47	3.09	18.99	11.61	0.057	7.44	9.95	1,758	0.198
Max	7,092	21,580	11,663	361,559	231.00	187.00	1,392.30	91.00	593.98	322.00	2,204.34	5.50	24.60	17.90	0.098	7.61	13.00	4,060	0.276
Min	2,089	7,991	5,955	173,434	183.00	105.00	758.62	45.00	279.82	172.00	1,176.88	2.12	12.30	4.57	0.029	7.29	7.80	0.846	0.133
Annual average flow (m ³ /d): 7,761.19 WPCP rate capacity (m ³ /d): 14,700 Peak flow (m ³ /d): 21,580 Percentage of rated capacity (%): 52.80																			

MONTH	FINAL EFFLUENT															E. Coli Geomean					
	Alkalinity (mg/L)	Ammonia (N) - Total (mg/L)	NH ₃ Loadings (kg/d)	Ammonia (N) - Unionized (mg/L)	BOD ₅ (mg/L)	BOD ₅ Loadings (kg/d)	CBOD ₅ (mg/L)	CBOD ₅ Loadings (kg/d)	TSS (mg/L)	TSS Loadings (kg/d)	TP (mg/L)	TP Loadings (kg/d)	TKN (mg/L)	TKN Loadings (kg/d)	pH Min		pH Avg	pH Max	Temperature (°C)	Nitrate (mg/L)	Nitrite (mg/L)
January	136.00	0.020	0.15	0.003	3.00	21.75	3.00	21.75	1.10	7.98	0.07	0.51	0.80	5.80	7.08	7.40	7.74	7.20	10.60	0.048	1.00
February	111.00	0.040	0.25	0.000	3.00	18.58	3.00	18.58	0.58	3.59	0.04	0.25	0.80	4.96	7.12	7.35	7.62	7.20	12.50	0.142	1.00
March	140.00	0.020	0.23	0.000	3.00	34.99	3.00	34.99	0.90	10.50	0.04	0.47	0.70	8.16	7.00	7.21	7.35	6.50	8.95	0.061	1.00
April	151.00	0.010	0.09	0.000	3.00	26.11	3.00	26.11	0.92	8.01	0.04	0.35	0.80	6.96	7.09	7.19	7.29	7.80	9.31	0.100	1.00
May	162.30	0.060	0.54	0.004	3.00	26.78	3.00	26.78	0.45	4.02	0.03	0.27	0.70	6.25	7.22	7.35	7.46	8.30	8.71	0.013	1.00
June	125.00	0.010	0.06	0.000	3.00	18.65	3.00	18.65	0.66	4.12	0.03	0.19	0.70	4.35	7.11	7.32	8.06	9.70	8.88	0.063	1.00
July	115.00	0.020	0.13	0.010	3.00	18.80	3.00	18.80	0.72	4.53	0.04	0.25	0.70	4.39	7.18	7.34	7.48	11.90	10.79	0.052	1.00
August	110.00	0.010	0.06	0.000	3.00	17.87	3.00	17.87	0.74	4.41	0.06	0.36	0.70	4.17	6.95	7.23	7.41	11.80	11.31	0.053	1.00
September	107.70	0.020	0.13	0.040	3.00	19.58	3.00	19.58	0.50	3.26	0.05	0.33	0.70	4.57	7.30	7.46	7.74	9.50	12.20	0.045	1.00
October	125.00	0.020	0.16	0.010	3.00	24.27	3.00	24.27	0.50	4.07	0.05	0.40	0.60	4.85	7.01	7.33	7.55	7.80	11.04	0.049	1.00
November	159.00	0.050	0.39	0.010	3.00	23.48	3.00	23.48	0.95	7.47	0.05	0.39	0.70	5.48	7.21	7.46	7.97	8.70	10.38	0.083	1.00
December	160.00	0.010	0.09	0.010	3.00	27.92	3.00	27.92	0.63	5.86	0.03	0.28	0.70	6.51	7.16	7.44	7.69	6.90	10.99	0.100	1.00
TOTAL	1,602.00	0.290	2.27	0.087	36.00	278.78	36.00	278.78	8.66	67.81	0.53	4.03	8.60	66.45	85.43	88.08	91.36	103.30	125.66	0.81	12.00
AVERAGE	133.500	0.024	0.189	0.007	3.000	23.231	3.000	23.231	0.722	5.651	0.044	0.336	0.717	5.538	7.119	7.340	7.613	8.608	10.472	0.067	1.000
Max	162.30	0.060	0.54	0.040	3.00	34.99	3.00	34.99	1.10	10.50	0.07	0.51	0.80	8.16	7.30	7.46	8.06	11.90	12.50	0.14	1.00
Min	107.70	0.01	0.06	0.00	3.00	17.87	3.00	17.87	0.45	3.26	0.03	0.19	0.60	4.17	6.95	7.19	7.29	6.50	8.71	0.01	1.00
LIMITS		2.6/14.0	38.0/206.0				15.00	220.50	15.00	220.50	0.30	4.40			6.0 to 9.5						200
OBJECTIVES		2.0/12.0					10.00		5.00		0.25				6.5 to 8.5						150

NOTE: if cell is highlighted in yellow with red text this is a non-compliance monthly average. Ministry must be notified (verbal & written) as per ECA condition 10(3)
NOTE: if cell is highlighted in orange with bold text this value is above the objectives noted in ECA

Comments: Flows for June 6 and 7 are not correct due to VPN connection issue at WTP

2021 Final Effluent GeoMean

Town of Smiths Falls
 2021 Performance Assessment Report - WPCP
 Works # 120000890
 Conventional Tertiary Treatment UV Disinfection / Pelletization

JANUARY		Location	
6-Jan-21	Final Effluent*	1	CFU/100mL
13-Jan-21	Final Effluent*	1	CFU/100mL
20-Jan-21	Final Effluent*	1	CFU/100mL
27-Jan-21	Final Effluent*	1	CFU/100mL
			CFU/100mL
			CFU/100mL
GEO MEAN		1.00	CFU/100mL
Min		1	CFU/100mL
Max		1	CFU/100mL

FEBRUARY		Location	
3-Feb-21	Final Effluent*	1	CFU/100mL
10-Feb-21	Final Effluent*	1	CFU/100mL
17-Feb-21	Final Effluent*	1	CFU/100mL
24-Feb-21	Final Effluent*	1	CFU/100mL
GEO MEAN		1.00	CFU/100mL
Min		1	CFU/100mL
Max		1	CFU/100mL

MARCH		Location	
3-Mar-21	Final Effluent*	1	CFU/100mL
10-Mar-21	Final Effluent*	1	CFU/100mL
17-Mar-21	Final Effluent*	1	CFU/100mL
24-Mar-21	Final Effluent*	1	CFU/100mL
31-Mar-21	Final Effluent*	1	CFU/100mL
			CFU/100mL
			CFU/100mL
GEO MEAN		1.00	CFU/100mL
Min		1	CFU/100mL
Max		1	CFU/100mL

APRIL		Location	
7-Apr-21	Final Effluent*	1	CFU/100mL
14-Apr-21	Final Effluent*	1	CFU/100mL
21-Apr-21	Final Effluent*	1	CFU/100mL
28-Apr-21	Final Effluent*	1	CFU/100mL
GEO MEAN		1.00	CFU/100mL
Min		1	CFU/100mL
Max		1	CFU/100mL

MAY		Location	
5-May-21	Final Effluent*	1	CFU/100mL
12-May-21	Final Effluent*	1	CFU/100mL
19-May-21	Final Effluent*	1	CFU/100mL
26-May-21	Final Effluent*	1	CFU/100mL
GEO MEAN		1.00	CFU/100mL
Min		1	CFU/100mL
Max		1	CFU/100mL

JUNE		Location	
2-Jun-21	Final Effluent*	1	CFU/100mL
9-Jun-21	Final Effluent*	1	CFU/100mL
16-Jun-21	Final Effluent*	1	CFU/100mL
23-Jun-21	Final Effluent*	1	CFU/100mL
30-Jun-21	Final Effluent*	1	CFU/100mL
GEO MEAN		1.00	CFU/100mL
Min		1	CFU/100mL
Max		1	CFU/100mL

JULY		Location	
7-Jul-21	Final Effluent*	1	CFU/100mL
14-Jul-21	Final Effluent*	1	CFU/100mL
21-Jul-21	Final Effluent*	1	CFU/100mL
28-Jul-21	Final Effluent*	1	CFU/100mL
GEO MEAN		1.00	CFU/100mL
Min		1	CFU/100mL
Max		1	CFU/100mL

AUGUST		Location	
4-Aug-21	Final Effluent*	1	CFU/100mL
11-Aug-21	Final Effluent*	1	CFU/100mL
18-Aug-21	Final Effluent*	1	CFU/100mL
25-Aug-21	Final Effluent*	1	CFU/100mL
			CFU/100mL
			CFU/100mL
GEO MEAN		1.00	CFU/100mL
Min		1	CFU/100mL
Max		1	CFU/100mL

SEPTEMBER		Location	
1-Sep-21	Final Effluent*	1	CFU/100mL
8-Sep-21	Final Effluent*	1	CFU/100mL
15-Sep-21	Final Effluent*	1	CFU/100mL
22-Sep-21	Final Effluent*	1	CFU/100mL
29-Sep-21	Final Effluent*	1	CFU/100mL
GEO MEAN		1	CFU/100mL
Min		1	CFU/100mL
Max		1	CFU/100mL

OCTOBER		Location	
6-Oct-21	Final Effluent*	1	CFU/100mL
13-Oct-21	Final Effluent*	1	CFU/100mL
20-Oct-21	Final Effluent*	1	CFU/100mL
27-Oct-21	Final Effluent*	1	CFU/100mL
GEO MEAN		1.00	CFU/100mL
Min		1	CFU/100mL
Max		1	CFU/100mL

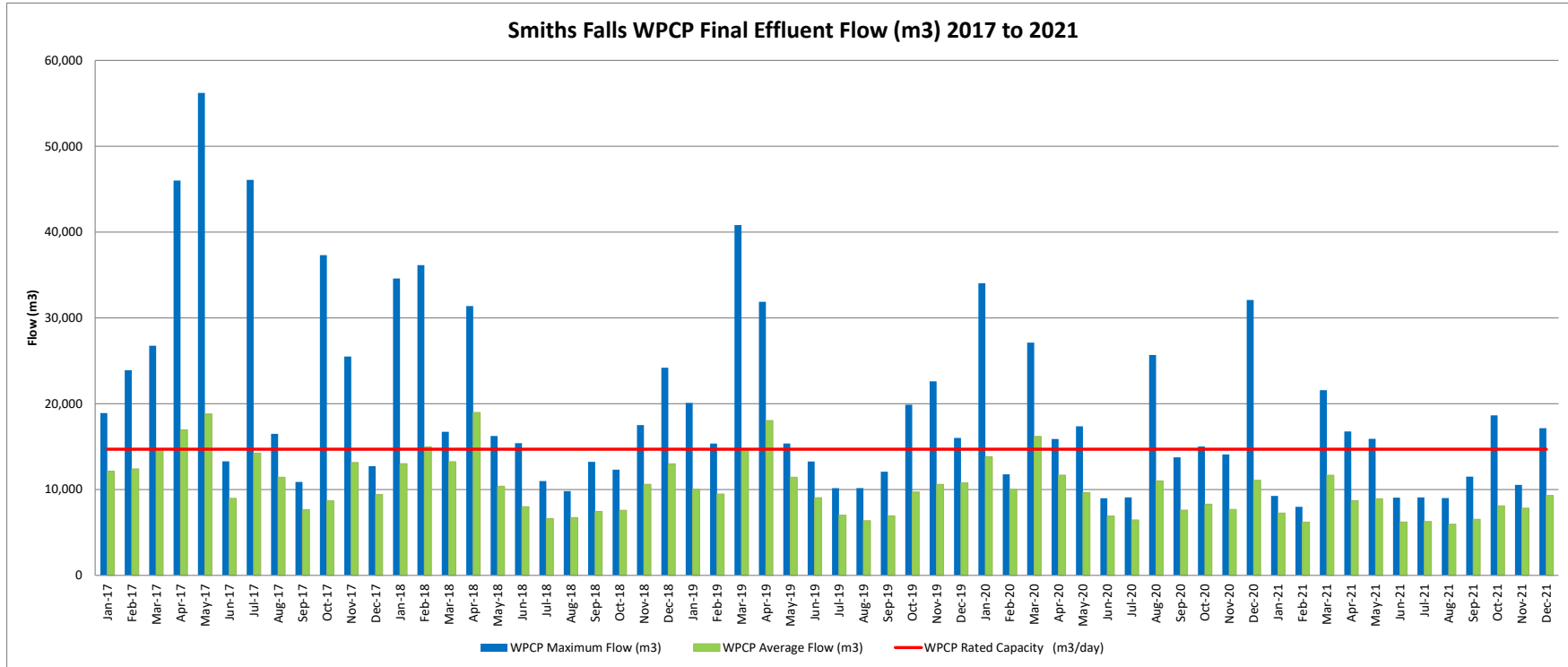
NOVEMBER		Location	
3-Nov-21	Final Effluent*	1	CFU/100mL
10-Nov-21	Final Effluent*	1	CFU/100mL
17-Nov-21	Final Effluent*	1	CFU/100mL
24-Nov-21	Final Effluent*	1	CFU/100mL
GEO MEAN		1.00	CFU/100mL
Min		1	CFU/100mL
Max		1	CFU/100mL

DECEMBER		Location	
1-Dec-21	Final Effluent*	1	CFU/100mL
8-Dec-21	Final Effluent*	1	CFU/100mL
15-Dec-21	Final Effluent*	1	CFU/100mL
22-Jan-21	Final Effluent*	1	CFU/100mL
29-Jan-21	Final Effluent*	1	CFU/100mL
			CFU/100mL
			CFU/100mL
GEO MEAN		1.00	CFU/100mL
Min		1	CFU/100mL
Max		1	CFU/100mL

* indicates sample result was 0 cfu/100mL, round up to 1 for geomean calculation

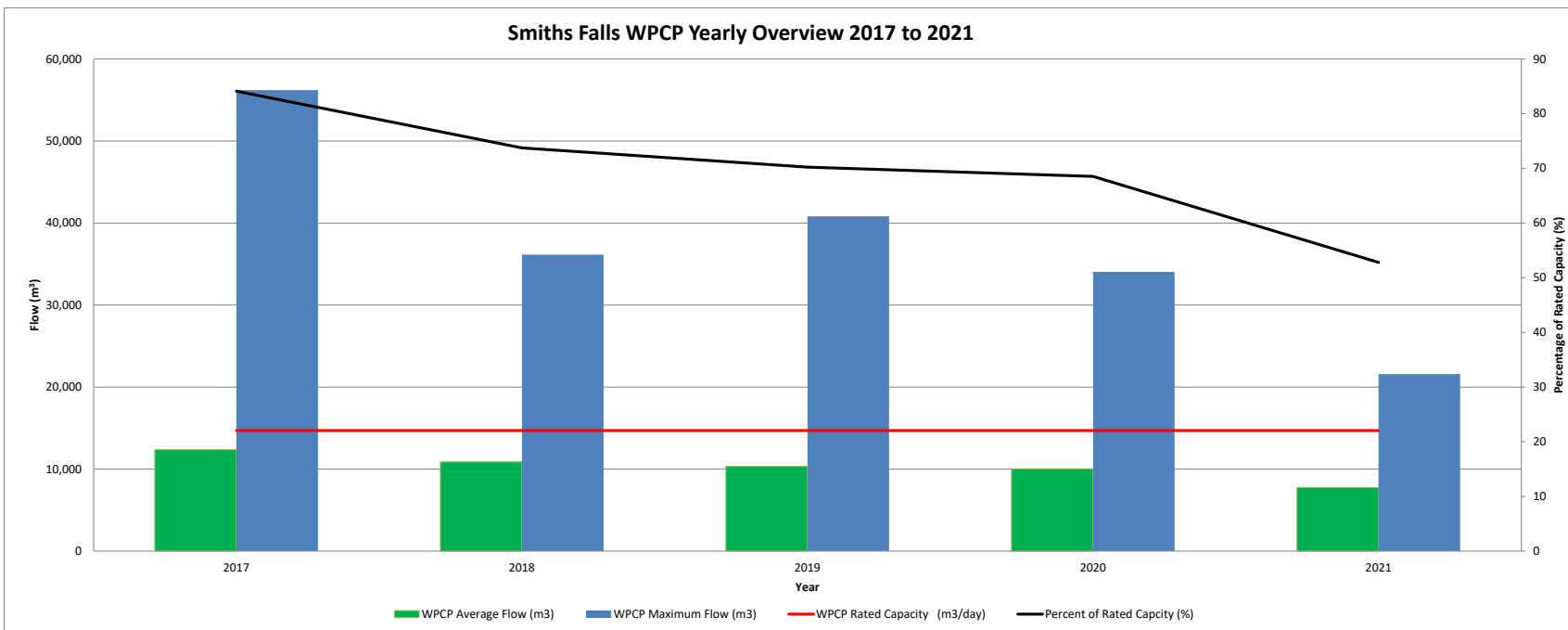
Final Effluent Flow (m³) 2017 to 2021

Town of Smiths Falls
 2021 Performance Assessment Report - WPCP
 Works # 120000890
 Conventional Tertiary Treatment UV Disinfection / Pelletization



Yearly Overview 2017 to 2021

Town of Smiths Falls
2021 Performance Assessment Report - WPCP
Works # 12000890
Conventional Tertiary Treatment UV Disinfection / Pelletization



APPENDIX C
Maintenance Records

2021 Maintenance - Corrective

Town of Smiths Falls

2021 Performance Assessment Report - WPCP

Works # 120000890

Conventional Tertiary Treatment UV Disinfection / Pelletization

Date	Asset ID	Asset Category	Asset Desc	Maintenar	Maintenance Sub Type	Completed By	Description of Maintenance Required	Comments (1)	Comments (2)
22-Dec-21	WPCPAsset-00394	Instrumentation	LT1210	Corrective	Inspection	MB/ TG	No data	Condensate probe was dirty giving false water level readings, needed to be cleaned	No data
21-Dec-21	WPCPAsset-0192	UV Lamps	UV632	Corrective	Repair	Molly and Steve	Replace lamp on module 1 lamp 6	No data	No data
17-Dec-21	WPCPAsset-0035	Motor	M111	Corrective	Repair	Steve L. / T. George	Motor seized, replace motor, pulleys and belt.	No data	Tested ok
09-Dec-21	WPCPAsset-0239	Sizer	M1430	Corrective	Repair	A Morris	Kilmarnock on-site Tuesday Dec 7 to install new hardware on both vibrating sifter motors	No data	Operated motors for 30 minutes and checked hardware torque -ok
27-Nov-21	WPCPAsset-0239	Sizer	M1430	Corrective	Repair	Kilmarnock Aaron	Bearings shot, replace lower motor.	No data	No data
20-Nov-21	WPCPAsset-0192	UV Lamps	UV632	Corrective	Repair	Molly and Steve	Change lamp on module 7 lamp 2	No data	No data
15-Nov-21	WPCPAsset-0036	Odour Control	SCRUB101	Corrective	Repair	Steve L	Replace broken belt	No data	No data
09-Nov-21	WPCPAsset-0204	Pump	M3020	Corrective	Repair	TG/MB/AM/MM	Replaced rotor and stator on press feed pump	No data	No data
05-Nov-21	WPCPAsset-0192	UV Lamps	UV632	Corrective	Repair	S.Laplante & T. George	Replace lamp 4/4 & 5/5	No data	No data
29-Oct-21	WPCPAsset-0212	Mixer	M3040	Corrective	Repair	Steve, Matt	Tripping out, gear box noisy. Replace SEW drive with Nord gear drive from stock.	No data	No data
24-Oct-21	WPCPAsset-0192	UV Lamps	UV632	Corrective	Repair	TG/SL	Replace bulb in module 4 lamp 4	No data	No data
18-Oct-21	WPCPAsset-0035	Grit Removal	M111	Corrective	Repair	Steve LaPlante	Replace seal and bearings on input shaft and replace pulleys (put used ones on) replace belt, top up with 220. Order new pulleys.	Order new pulleys	No data
18-Oct-21	WPCPAsset-00021-2	UV	UV631	Corrective	Repair	Molly and Matt	Replace lightbulb on module 1 lamp 1	No data	No data
18-Oct-21	WPCPAsset-0082	Drive Unit	M207	Corrective	Repair	Molly	Shear pin	No data	No data
08-Oct-21	WPCPAsset-0250	Drive Unit	M502	Corrective	Repair	Aaron Steve	Replaced shear pin	Replaced shear pin	No data
05-Oct-21	WPCPAsset-0192	UV Lamps	UV632	Corrective	Repair	Steve Laplante	Uv lamp out bank B module 9, lamp 6.	Change lamp B, 9, #6	No data
20-Sep-21	WPCPAsset-00392	Decanter	Beltpress	Corrective	Repair	TG MM SL	Kilmarnock onsite for new roller and bearing installation and alignment	No data	Completed - 5 days. 3 new rollers in order
02-Sep-21	WPCPAsset-00002-2	Other	Linde	Corrective	Repair	MM TG SL MB	Inspection and diagnosis required. Forklift not running properly	Appears to be an issue with the computer. Lightning bolt visible on dash. SL contacted Hansler	Handler in for repair
02-Sep-21	WPCPAsset-00001-2	Other	Clarke	Corrective	Repair	SL	Battery replacement required	Positive terminal on battery disconnected, replacement required	Battery replaced
19-Aug-21	WPCPAsset-00390	Generator	Diesel Gen	Corrective	Repair	AMacN	Coolant Leak, requires repair/replacement of fittings.	Tandet on site to perform repair.	Unit run and brought up to temperature. Leaks repaired.
19-Aug-21	WPCPAsset-0197	Mixer	M920	Corrective	Repair	AMacN	Mixer failed July 5, 2021. Require complete replacement with new unit.	New Unit Installed. New anchors installed. Oil added.	Kilmarnock installed. Unit bump tested to verify operation. All ok.
04-Aug-21	WPCPAsset-0000	WWTP	Wastewater	Corrective	Repair	MM	Patches of concrete walkway in front of Alum building degrading. Patch work required.	Trip hazards and edges marked with hi-vis spray paint in the interim. Staff on site notified.	No data
10-Jul-21	WPCPAsset-00021-2	UV	UV631	Corrective	Repair	Molly and Steve	Replace lamp 3 in module 4	No data	No data
09-Jul-21	WPCPAsset-0238	Bucket Elevator	BE1420	Corrective	Repair	Molly	Replace gasket on buckets elevator	No data	No data
09-Jul-21	WPCPAsset-0203	Grinder	Grind3020	Corrective	Repair	Molly	Change out teeth on muffin monster	No data	No data
09-Jul-21	WPCPAsset-0205	Valve	V901	Corrective	Repair	TG, AmacN, MB	Change out old plug valve with new plug valve	No data	No data
06-Jul-21	WPCPAsset-0107	Pump	M422	Corrective	Repair	Steve	Tighten a loose fitting which was causing the leak	No data	No data
05-Jul-21	WPCPAsset-0099	Blower	M 403	Corrective	Repair	Molly	Change gasket on blower	Small tear in gasket causing a small air leak	No data
28-Jun-21	WPCPAsset-00021-2	UV	UV631	Corrective	Repair	Molly and Andrew	Replaced bulb in module 5 lamp 1 at 11691 hour	No data	No data
23-Jun-21	WPCPAsset-0217	Pump	M3050	Corrective	Repair	M. B., S.L.	Replace broken shear bolt on south bridge breaker	No data	No data
12-Jun-21	WPCPAsset-0199	Mixer	M930	Corrective	Repair	AMacN	Sludge tank 2 mixer broken, needs replaced or repaired	Housing being sent to kilmarnock for repairs.	All ok. Replaced with new unit. New shaft. All ok
01-Jun-21	WPCPAsset-0081	Drive Unit	M206	Corrective	Repair	Molly and Andrew	Changed broken shear pin	No data	No data
25-May-21	WPCPAsset-0192	UV Lamps	UV632	Corrective	Repair	Molly and Jenni	Replaced bulb in module 7 lamp 3	No data	No data
14-May-21	WPCPAsset-0184	Mixer	M602	Corrective	Inspection	Steve L	No data	Remove old grease from upper gear reducer and fill with new and inspect	No data

2021 Maintenance - Corrective

27-Apr-21	WPCPAsset-0192	UV Lamps	UV632	Corrective Repair	Molly and Tyler	Replace lamps in module 3 sleeves 4/6 and module 7 sleeve 4	No data	No data
15-Apr-21	WPCPAsset-0036	Odour Control	SCRUB101	Corrective Repair	Steve LaPlante	Broken belt	Change belt B42	N/A
06-Apr-21	WPCPAsset-0007	Pump	M103	Corrective Repair	Molly and Andrew	Winding temp sensor not online possible bad connection or wire.	Pump sent to Hewitt's for repair	Pump sent to Hewitt's for repair
24-Mar-21	WPCPAsset-00002-2	Tank	HWT-Pelle	Corrective Repair	AMacN	Replace leaking Hot Water Tank	PUBBLOWS called March 24, 2021	Completed Friday
23-Mar-21	WPCPAsset-0184	Mixer	M602	Corrective Repair	TG AMac	Drained oil and cleaned gear, and replaced with new oil	Top spring seal, could be replaced with new	Placed back in service
15-Mar-21	WPCPAsset-0122	Pump	M406	Corrective Repair	Molly and Jenni	Repair leak on RAS pump 3	Faster drip	Completed by Kilmarnock
03-Mar-21	WPCPAsset-0192	UV Lamps	UV632	Corrective Repair	JY/SL	Replaced ballast for bank B module 5 lamp 1/2	No data	No data
02-Mar-21	WPCPAsset-0192	UV Lamps	UV632	Corrective Repair	JY/SL	Test channel 1 bank B ballast fault	K308C036 - 10,408 hrs March 3rd replaced	All good
18-Feb-21	WPCPAsset-0230	Cyclone	Cylcone11	Corrective Repair	AMacN,MB	Due to failure, replacement of 2 of 11 Goyen dust collector valves require replacing.	Replaced Valve number 4 and number 8.	No data
18-Feb-21	WPCPAsset-0225	Motor	M1120	Corrective Repair	AMacN, MB	Replace 2 x B45 belts. Adjust motor tension and test.	Both belts cracked throughout.	All ok.
18-Feb-21	WPCPAsset-0243	Motor	M1460	Corrective Repair	AMacN, MB	Replace 3 x AP80 belts. Adjust motor to proper tension and test.	All ok. Note, one belt blown, one stretched and one operating.	All ok
11-Feb-21	WPCPAsset-0243	Motor	M1460	Corrective Repair	AMacN, MB	Replaced 3 belts. SIZE A80	One broken, one stretched, one operating unit.	No data
11-Feb-21	WPCPAsset-0239	Sizer	M1430	Corrective Repair	AMacN, MB	Replace oversized and target screens.	No stock left. Will require new screens to be made up.	Top screen required extra bend in connection to stay secured
11-Feb-21	WPCPAsset-0239	Sizer	M1430	Corrective Repair	Molly and Andrew	Replaced screens for oversized and target screens	Both had tears	No data
11-Feb-21	WPCPAsset-00392	Decanter	Beltpress	Corrective Inspection	Kilmarnock Ent.	No data	No data	Complete inspection for future work.
04-Feb-21	WPCPAsset-00392	Decanter	Beltpress	Corrective Repair	AM/SL/TG/MB	Replaced Top Belt	No data	Belt replaced - no other issues
22-Jan-21	WPCPAsset-00422	Other	Auto-Gate	Corrective Repair	SL	Gate tripping out	Gate overshooting and overloading motor	All fixed travel guides adjusted
20-Jan-21	WPCPAsset-00419	Piping	HPEW Pipi	Corrective Repair	Steve LaPlante	Replace 1" cam lock fitting at hose bib.	Part installed is temporarily aluminum.	No data
19-Jan-21	WPCPAsset-0249	UV Lamps	UV631	Corrective Repair	AMacN, TG, SL	Module 8, Ballast 3, for lamps 5 & 6 requires replacement	Job completed by EmTech.	All ok, unit in service and alarm cleared.
15-Jan-21	WPCPAsset-00392	Decanter	Beltpress	Corrective Repair	TG,SL,MM,AMacN	Change Bottom Belt	1.5 hours	No data

2021 Maintenance - Preventative

Town of Smiths Falls

2021 Performance Assessment Report - WPCP

Works # 120000890

Conventional Tertiary Treatment UV Disinfection / Pelletization

Date	Asset ID	Asset Category	Asset Description	Maintenance Type	Maintenance Sub Type	Completed By	Description of Maintenance Required	Comments (1)	Comments (2)
31-Dec-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Entered
30-Dec-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	No data	Ran well
30-Dec-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased and tested
29-Dec-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed and tested
29-Dec-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed and tested
24-Dec-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Molly Buckland	No data	No data	All entered
24-Dec-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Greased
23-Dec-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Molly Buckland	No data	No data	All okay
21-Dec-21	WPCPAsset-00393	Other	Pelletyclone	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Inspected and no need to be replaced
21-Dec-21	WPCPAsset-0239	Sizer	M1430	Preventative	Clean and Inspect	Molly Buckland	No data	No data	All okay
20-Dec-21	WPCPAsset-0000	WWTP	WPCP	Preventative	Alarm Testing	Molly Buckland	No data	No data	No data
20-Dec-21	WPCPAsset-00412	Instrumentati	LAB Spectro WPCP	Preventative	Verification	Molly Buckland	No data	No data	No data
20-Dec-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Molly Buckland	No data	No data	Molly on call
20-Dec-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Molly Buckland	No data	No data	Molly on call

2021 Maintenance - Preventative

18-Dec-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Tyler George	No data	No data	Entered
17-Dec-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Tyler George	No data	No data	Checked
17-Dec-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Aaron Morris	No data	No data	Done -ok
16-Dec-21	WPCPAsset-0187	Travelling Bridge	CP605	Preventative	Clean and Inspect	Jason Barlow	No data	No data	TG completed Dec 13th
16-Dec-21	WPCPAsset-00016-2021-03-09T07:08:25-05:00	Other	RAS (building)	Preventative	Clean and Inspect	Tyler George	No data	No data	Completed
16-Dec-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	No data	Completed
14-Dec-21	WPCPAsset-0035	Grit Removal	M111	Preventative	Clean and Inspect	Tyler George	No data	No data	Greased
13-Dec-21	WPCPAsset-0050	Instrumentati	FT128	Preventative	Calibration	Jason Barlow	No data	No data	Completed by tower electronics
13-Dec-21	WPCPAsset-00399	Flow Meter	FT617	Preventative	Calibration	Jason Barlow	No data	No data	Completed by tower electronics
13-Dec-21	WPCPAsset-00397	Flow Meter	FT507	Preventative	Calibration	Jason Barlow	No data	No data	Completed by tower electronics
13-Dec-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Jason Barlow	No data	No data	Changed
13-Dec-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Tyler George	No data	No data	Changed
11-Dec-21	WPCPAsset-0000	WWTP	WPCP	Preventative	Clean and Inspect	Jason Barlow	No data	No data	Completed by Solid State Electric
10-Dec-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Steve LaPlante	No data	No data	All good
10-Dec-21	WPCPAsset-00378	Pelletizer	Pelletizer	Preventative	Clean and Inspect	Aaron Morris	No data	No data	All ok
10-Dec-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Aaron Morris	No data	No data	All ok
10-Dec-21	WPCPAsset-00407	Belt Press	Belt Press Roller Bearings	Preventative	Clean and Inspect	Aaron Morris	No data	No data	Greased belt press and some of the pelletizer equipment.
06-Dec-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Matt Mensen	No data	No data	Changed & Tested

2021 Maintenance - Preventative

06-Dec-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Matt Mensen	No data	No data	Changed & Tested
06-Dec-21	WPCPAsset-00381	Other	Weirs (Primary Tanks)	Preventative	Clean and Inspect	Matt Mensen	No data	No data	Not required
03-Dec-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Entered
02-Dec-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	No data	Successful
30-Nov-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Aaron Morris	No data	Everything ok	Everything ok
29-Nov-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Not req'd
29-Nov-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Not req'd
26-Nov-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Entered
26-Nov-21	WPCPAsset-00384	Other	Weirs (Secondary Tank)	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	All good
25-Nov-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Molly Buckland	No data	No data	All okay
22-Nov-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Change
22-Nov-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed
19-Nov-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Aaron Morris	No data	No data	No issues
19-Nov-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Aaron Morris	No data	All data entered	All data entered
19-Nov-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Aaron Morris	No data	No data	All ok
17-Nov-21	WPCPAsset-00393	Other	Pelletcyclone	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Completed by Matt
17-Nov-21	WPCPAsset-0239	Sizer	M1430	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Completed by Matt

2021 Maintenance - Preventative

16-Nov-21	WPCPAsset-0187	Travelling Bridge	CP605	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Okay
15-Nov-21	WPCPAsset-0000	WWTP	WPCP	Preventative	Alarm Testing	Operators Waste Water Plant	No data	No data	No data
15-Nov-21	WPCPAsset-00412	Instrumentation	LAB Spectro WPCP	Preventative	Verification	Operators Waste Water Plant	No data	No data	No data
15-Nov-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Molly Buckland	No data	No data	Okay
15-Nov-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Molly Buckland	No data	No data	Okay
12-Nov-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Tyler George	No data	No data	Tested
12-Nov-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Tyler George	No data	No data	Entered 11-01-21-11-05-21
11-Nov-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Tyler George	No data	No data	Greased
08-Nov-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Matt Mensen	No data	No data	Changed
08-Nov-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Matt Mensen	No data	No data	Changed
05-Nov-21	WPCPAsset-00378	Pelletizer	Pelletizer	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Oil
04-Nov-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Tyler George	No data	No data	Greased
04-Nov-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Tyler George	No data	No data	Tested not under load
01-Nov-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Complete
01-Nov-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed
01-Nov-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed

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29-Oct-21	WPCPAsset-00407	Belt Press	Belt Press Roller Bearings	Preventative	Clean and Inspect	Aaron Morris	No data	No data	Greased belt press and pelletizer equipment. All Ok
28-Oct-21	WPCPAsset-00394	Instrumentation	LT1210	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Completed
27-Oct-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Tightened and greased
25-Oct-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed/tested
25-Oct-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	Tested	Changed
25-Oct-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Molly Buckland	No data	No data	Molly
23-Oct-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Molly Buckland	No data	No data	Complete
22-Oct-21	WPCPAsset-0192	UV Lamps	UV632	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Completed
20-Oct-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Matt Mensen	No data	No data	Greased
20-Oct-21	WPCPAsset-00381	Other	Weirs (Primary Tanks)	Preventative	Clean and Inspect	Matt Mensen	No data	No data	Cleaned
20-Oct-21	WPCPAsset-00384	Other	Weirs (Secondary Tank)	Preventative	Clean and Inspect	Matt Mensen	No data	No data	Cleaned
19-Oct-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Molly Buckland	No data	No data	All okay
19-Oct-21	WPCPAsset-00380	Building	Raw Sludge	Preventative	Operational	Matt Mensen	No data	No data	Greased/Exercised
19-Oct-21	WPCPAsset-0014	Bar Screen	screen2	Preventative	Clean and Inspect	Matt Mensen	No data	No data	Greased
19-Oct-21	WPCPAsset-0013	Bar Screen	screen1	Preventative	Clean and Inspect	Matt Mensen	No data	No data	Greased
18-Oct-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Molly Buckland	No data	No data	Completed
18-Oct-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Molly Buckland	No data	No data	Completed
18-Oct-21	WPCPAsset-0187	Travelling Bridge	CP605	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Completed by TG on October 15

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14-Oct-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Tyler George	No data	No data	Watertrax entered
14-Oct-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Tyler George	No data	No data	Greased
14-Oct-21	WPCPAsset-00393	Other	Pelletcyclone	Preventative	Clean and Inspect	Tyler George	No data	No data	Inspected
14-Oct-21	WPCPAsset-0239	Sizer	M1430	Preventative	Clean and Inspect	Tyler George	No data	No data	Checked
12-Oct-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Tyler George	No data	No data	Running, no load
12-Oct-21	WPCPAsset-00412	Instrumentati	LAB Spectro WPCP	Preventative	Verification	Tyler George	No data	No data	No data
12-Oct-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Tyler George	No data	No data	Changed
12-Oct-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Tyler George	No data	No data	Changed
12-Oct-21	WPCPAsset-0000	WWTP	WPCP	Preventative	Alarm Testing	Tyler George	No data	No data	No data
10-Oct-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Entered
07-Oct-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Matt Mensen	No data	No data	Greased
04-Oct-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Matt Mensen	No data	No data	Tested
04-Oct-21	WPCPAsset-00378	Pelletizer	Pelletizer	Preventative	Clean and Inspect	Matt Mensen	No data	No data	Completed
04-Oct-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	Changed, tested	Changed, tested
04-Oct-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	Changed and tested	Changed, tested
03-Oct-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Matt Mensen	No data	No data	Entered
29-Sep-21	WPCPAsset-00022-2021-09-29T12:52:58-04:00	Pelletizer	1510 - Dust Collector	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	Replaced filters	Replaced 30 Filters and cleaned out pipe etc.
29-Sep-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	Greased and packing tightened	Greased and packing tightened

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29-Sep-21	WPCPAsset-00407	Belt Press	Belt Press Roller Bearings	Preventative	Clean and Inspect	Steve LaPlante	No data	Greased	Greased
25-Sep-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Matt Mensen	No data	Changed Sept.24.21	Changed/Tested
25-Sep-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Matt Mensen	No data	Changed Sept.24.21	Changed/Tested
23-Sep-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Steve LaPlante	No data	Tested	All good
23-Sep-21	WPCPAsset-00017-2021-03-15T13:12:00-04:00	Sampler	Samplers	Preventative	Calibration	Steve LaPlante	No data	No data	Completed
21-Sep-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Tyler George	No data	No data	Complete
19-Sep-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Tyler George	No data	No data	Changed
16-Sep-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Tyler George	No data	No data	Changed
14-Sep-21	WPCPAsset-00016-2021-03-09T07:08:25-05:00	Other	RAS (building)	Preventative	Clean and Inspect	Tyler George	No data	No data	Greased
14-Sep-21	WPCPAsset-0035	Grit Removal	M111	Preventative	Clean and Inspect	Tyler George	No data	No data	Greased
14-Sep-21	WPCPAsset-0187	Travelling Bridge	CP605	Preventative	Clean and Inspect	Tyler George	No data	No data	Completed
14-Sep-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Tyler George	No data	No data	Greased
14-Sep-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Tyler George	No data	No data	Tested
14-Sep-21	WPCPAsset-00384	Other	Weirs (Secondary Tank)	Preventative	Clean and Inspect	Tyler George	No data	No data	Cleaned
13-Sep-21	WPCPAsset-0249	UV Lamps	M501	Preventative	Clean and Inspect	Jason Barlow	No data	No data	Completed sept 10th , 2021
12-Sep-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Tyler George	No data	No data	Updated

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12-Sep-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Tyler George	No data	No data	Updated
10-Sep-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Molly Buckland	No data	No data	Completed
09-Sep-21	WPCPAsset-00381	Other	Weirs (Primary Tanks)	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Completed
09-Sep-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Greased and tightened packing
09-Sep-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Molly Buckland	No data	No data	All okay
09-Sep-21	WPCPAsset-0239	Sizer	M1430	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Completed by MB/TG
09-Sep-21	WPCPAsset-00393	Other	Pelletcyclone	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Completed by MB/TG
07-Sep-21	WPCPAsset-00412	Instrumentati	LAB Spectro WPCP	Preventative	Verification	Molly Buckland	No data	No data	No data
07-Sep-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Molly Buckland	No data	No data	Completed the week of August30-September 3
07-Sep-21	WPCPAsset-0000	WWTP	WPCP	Preventative	Alarm Testing	Molly Buckland	No data	No data	No data
07-Sep-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Molly Buckland	No data	No data	Changed
07-Sep-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Molly Buckland	No data	No data	Changed
04-Sep-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased
02-Sep-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Matt Mensen	No data	No data	All Good
02-Sep-21	WPCPAsset-00378	Pelletizer	Pelletizer	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Completed
02-Sep-21	WPCPAsset-00407	Belt Press	Belt Press Roller Bearings	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Completed
30-Aug-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed
30-Aug-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed

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27-Aug-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased 3 fittings
24-Aug-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	Runs well	Ran and inspected
24-Aug-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	Entered	Entered
23-Aug-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Updated
23-Aug-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Updated
18-Aug-21	WPCPAsset-00384	Other	Weirs (Secondary Tank)	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Hosed
17-Aug-21	WPCPAsset-0187	Travelling Bridge	CP605	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Hosed
17-Aug-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Greased
17-Aug-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Molly Buckland	No data	No data	All okay
16-Aug-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed
16-Aug-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed
12-Aug-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Data entered
12-Aug-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased
12-Aug-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	No data	Tested
10-Aug-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed

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10-Aug-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed
06-Aug-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Molly Buckland	No data	No data	All entered
05-Aug-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Greased
05-Aug-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Molly Buckland	No data	No data	All okay
05-Aug-21	WPCPAsset-0239	Sizer	M1430	Preventative	Clean and Inspect	Matt Mensen	No data	All Good	Inspected & Cleaned
05-Aug-21	WPCPAsset-00393	Other	Pelletcyclone	Preventative	Clean and Inspect	Matt Mensen	No data	All Good	Inspected
03-Aug-21	WPCPAsset-00412	Instrumentati	LAB Spectro WPCP	Preventative	Verification	Molly Buckland	No data	No data	No data
03-Aug-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Molly Buckland	No data	No data	Changed
03-Aug-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Molly Buckland	No data	No data	Changed
30-Jul-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	Entered	Entered
29-Jul-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Molly Buckland	No data	No data	All okay
29-Jul-21	WPCPAsset-00407	Belt Press	Belt Press Roller Bearings	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Greased
28-Jul-21	WPCPAsset-00381	Other	Weirs (Primary Tanks)	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Hosed
27-Jul-21	WPCPAsset-00378	Pelletizer	Pelletizer	Preventative	Clean and Inspect	Molly Buckland	No data	No data	All okay
27-Jul-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Greased
27-Jul-21	WPCPAsset-00394	Instrumentati on	LT1210	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Opened hatch and cleaned inside
26-Jul-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	Matt to Steve	Changed Matt to Steve

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26-Jul-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	Matt to Steve	Changed Matt to Steve
26-Jul-21	WPCPAsset-0000	WWTP	WPCP	Preventative	Alarm Testing	Molly Buckland	No data	No data	No data
23-Jul-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	Recorded	Recorded
21-Jul-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	All is well	Run good
20-Jul-21	WPCPAsset-0187	Travelling Bridge	CP605	Preventative	Clean and Inspect	Matt Mensen	No data	No data	Cleaned
20-Jul-21	WPCPAsset-00380	Building	Raw Sludge	Preventative	Operational	Matt Mensen	No data	No data	Greased/Exercised
20-Jul-21	WPCPAsset-0014	Bar Screen	screen2	Preventative	Clean and Inspect	Matt Mensen	No data	No data	Greased
20-Jul-21	WPCPAsset-0013	Bar Screen	screen1	Preventative	Clean and Inspect	Matt Mensen	No data	No data	Greased
20-Jul-21	WPCPAsset-00384	Other	Weirs (Secondary Tank)	Preventative	Clean and Inspect	Steve LaPlante	No data	No data	Cleaned
20-Jul-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Matt Mensen	No data	All Good	Greased/Tighten
19-Jul-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Matt Mensen	No data	Tested	Changed
19-Jul-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	Done	Changed to Matt
19-Jul-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	Done	Changed to Matt
16-Jul-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	Entered	Entered
15-Jul-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	Ok	Ran good
12-Jul-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	Changed	Updated

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12-Jul-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased
12-Jul-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed
09-Jul-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Molly Buckland	No data	No data	All entered
08-Jul-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Molly Buckland	No data	No data	All okay
08-Jul-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	Greased	Grease all fittings
05-Jul-21	WPCPAsset-0239	Sizer	M1430	Preventative	Clean and Inspect	Matt Mensen	No data	Cleaned	Inspected
05-Jul-21	WPCPAsset-00393	Other	Pelletcyclone	Preventative	Clean and Inspect	Matt Mensen	No data	All Good	Inspected
05-Jul-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Molly Buckland	No data	No data	All good
05-Jul-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Molly Buckland	No data	No data	All goods
02-Jul-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Molly Buckland	No data	No data	All entered
02-Jul-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Greased and tightened packing
02-Jul-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	Tested ok	Tested ok
29-Jun-21	WPCPAsset-00412	Instrumentati	LAB Spectro WPCP	Preventative	Verification	Molly Buckland	No data	No data	No data
28-Jun-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Molly Buckland	No data	No data	Tested
28-Jun-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Molly Buckland	No data	No data	Tested
28-Jun-21	WPCPAsset-00378	Pelletizer	Pelletizer	Preventative	Clean and Inspect	Molly Buckland	No data	No data	Completed by TG
28-Jun-21	WPCPAsset-00407	Belt Press	Belt Press Roller Bearings	Preventative	Clean and Inspect	Molly Buckland	No data	Completed by TG	All good

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25-Jun-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	All Good	Greased/Tighten
25-Jun-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Completed
25-Jun-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	All Good	Ran/tested
22-Jun-21	WPCPAsset-00381	Other	Weirs (Primary Tanks)	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Completed on June 15 by TG
21-Jun-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Completed
21-Jun-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Completed
21-Jun-21	WPCPAsset-0187	Travelling Bridge	CP605	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	Completed	Hose down filter walls
18-Jun-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	Completed	Completed
18-Jun-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Entered
15-Jun-21	WPCPAsset-0000	WWTP	WPCP	Preventative	Alarm Testing	Operators Waste Water Plant	No data	No data	No data
15-Jun-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	No data	All okay
14-Jun-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Entered
14-Jun-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed
14-Jun-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Changed
10-Jun-21	WPCPAsset-00384	Other	Weirs (Secondary Tank)	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	All Good	Cleaned
09-Jun-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	All Good	Tested

2021 Maintenance - Preventative

09-Jun-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	All Good	Inspected/Greased
09-Jun-21	WPCPAsset-0035	Grit Removal	M111	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	All Good	Inspected/Greased
08-Jun-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Andrew MacNaughton	No data	No data	Completed and tested
08-Jun-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Andrew MacNaughton	No data	No data	Complete and tested
08-Jun-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Tested
07-Jun-21	WPCPAsset-00016-2021-03-09T07:08:25-05:00	Other	RAS (building)	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	Greased/Exercised	Completed
05-Jun-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Completed
04-Jun-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	No data	Ran by Tandet after maintenance
04-Jun-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Coolant leak
02-Jun-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	All done
31-May-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Tested
31-May-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Tested
28-May-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	All entered
28-May-21	WPCPAsset-00412	Instrumentation	LAB Spectro WPCP	Preventative	Verification	Operators Waste Water Plant	No data	No data	No data
28-May-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	All Good	Greased/Tightened

2021 Maintenance - Preventative

28-May-21	WPCPAsset-0239	Sizer	M1430	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	All Good	Inspected & Cleaned
28-May-21	WPCPAsset-00393	Other	Pelletcyclone	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	All Good	Inspected
27-May-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	No data	All okay
25-May-21	WPCPAsset-00001-2021-05-21T13:56:37-04:00	Alarm	SFWS1\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	No data	Completed
25-May-21	WPCPAsset-00003-2021-05-21T14:01:17-04:00	Alarm	SFWS2\WIN911	Preventative	Verification	Operators Waste Water Plant	No data	Done	Completed
23-May-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Completed
21-May-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	Solid State tested with new controller	15min
21-May-21	WPCPAsset-00382	Instrumentation	H2S BPR	Preventative	Calibration	Operators Waste Water Plant	No data	No data	No data
18-May-21	WPCPAsset-00378	Pelletizer	Pelletizer	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	All Good	Oiled & Greased
18-May-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	All Good	Tightened & Greased
18-May-21	WPCPAsset-00407	Belt Press	Belt Press Roller Bearings	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	All Good	Inspected & greased
17-May-21	WPCPAsset-0187	Travelling Bridge	CP605	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	All hosed
15-May-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	May 14/2021	Entered
13-May-21	WPCPAsset-00381	Other	Weirs (Primary Tanks)	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Hosed/Cleaned
11-May-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	No data	All okay
11-May-21	WPCPAsset-00394	Instrumentation	LT1210	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	No data
10-May-21	WPCPAsset-00384	Other	Weirs (Secondary Tank)	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Hosed/Cleaned

2021 Maintenance - Preventative

10-May-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Completed - Greased
10-May-21	WPCPAsset-0000	WWTP	WPCP	Preventative	Alarm Testing	Operators Waste Water Plant	No data	No data	No data
10-May-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	All has been entered
06-May-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Jenni Yuill	No data	No data	Ran for 1 hr no issues, not under load
04-May-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased fittings
30-Apr-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	All sheets have been entered
29-Apr-21	WPCPAsset-00050-2021-03-18T10:09:58-04:00	Tank	WET WELL	Preventative	Clean and Inspect	Austin Mitchell	No data	No data	Wet Well 1 cleaned by CWW. Completed April 28 & 29, 2021
29-Apr-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Austin Mitchell	No data	No data	Greased press feed pump bearings and stuffing box
29-Apr-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	No data	All ok
23-Apr-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	Data Entered	Lab Data Entry
23-Apr-21	WPCPAsset-00380	Building	Raw Sludge (Building)	Preventative	Operational	Operators Waste Water Plant	No data	Completed by MM/AM	Greased
23-Apr-21	WPCPAsset-0197	Mixer	M920	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	Oil changed	Completed
23-Apr-21	WPCPAsset-0197	Mixer	M920	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Completed
23-Apr-21	WPCPAsset-0239	Sizer	M1430	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Everything looked good
23-Apr-21	WPCPAsset-0014	Bar Screen	screen2	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased
23-Apr-21	WPCPAsset-0013	Bar Screen	screen1	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased
23-Apr-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	All Good	Tested
23-Apr-21	WPCPAsset-00393	Other	Pelletcyclone	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	Changed mufflers #10 & 11	Inspected by MM/MB

2021 Maintenance - Preventative

20-Apr-21	WPCPAsset-00378	Pelletizer	Pelletizer	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Done
20-Apr-21	WPCPAsset-0187	Travelling Bridge	CP605	Preventative	Clean and Inspect	Austin Mitchell	No data	No data	North and South Filter walls hosed. Disinfection backwash on going South Filter.
20-Apr-21	WPCPAsset-00381	Other	Weirs (Primary Tanks)	Preventative	Clean and Inspect	Austin Mitchell	No data	No data	Hosed North and South Primary Weirs
19-Apr-21	WPCPAsset-00412	Instrumentation	LAB Spectro WPCP	Preventative	Verification	Operators Waste Water Plant	No data	No data	No data
16-Apr-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Steve LaPlante	No data	No data	Done
15-Apr-21	WPCPAsset-00407	Belt Press	Belt Press Roller Bearings	Preventative	Clean and Inspect	Austin Mitchell	No data	No data	Greased belt press roller bearings
15-Apr-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Austin Mitchell	No data	No data	Greased Press feed pump
15-Apr-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Steve LaPlante	No data	All is well	Starts and runs, but continue to leave in manual start mode.
14-Apr-21	WPCPAsset-00384	Other	Weirs (Secondary Tank)	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Completed
09-Apr-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Done
07-Apr-21	WPCPAsset-0000	WWTP	WPCP	Preventative	Alarm Testing	Operators Waste Water Plant	No data	No data	No data
07-Apr-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	All okay
01-Apr-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Andrew MacNaughton	No data	Run for 20 minutes not under load. No issues with run.	All ok
30-Mar-21	WPCPAsset-00018-2021-03-30T10:51:58-04:00	Auger	Farm King Outdoor Auger	Preventative	Operational	Operators Waste Water Plant	No data	Completed. Tech verified operation, all parts ok. Belts ok. Unit greased.	Unit frozen in ice upon inspection.
30-Mar-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Lab data entered for Week of March 22, 2021
26-Mar-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Andrew MacNaughton	No data	With TG	Complete

2021 Maintenance - Preventative

24-Mar-21	WPCPAsset-0239	Sizer	M1430	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	All okay
19-Mar-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Volatiles and in house lab sheet all put into watertrax for the week of March 15-19
18-Mar-21	WPCPAsset-0187	Travelling Bridge	CP605	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Completed by MB/JY
18-Mar-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Jenni Yuill	No data	No data	Ran 10mins not under load
16-Mar-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased
16-Mar-21	WPCPAsset-00393	Other	Pelletcyclone	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	All mufflers function properly, aside from #10 which is turned off	Inspected
16-Mar-21	WPCPAsset-00378	Pelletizer	Pelletizer	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	All chains oiled
15-Mar-21	WPCPAsset-00017-2021-03-15T13:12:00-04:00	Sampler	Samplers	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Changed tubing and calibrated samplers
15-Mar-21	WPCPAsset-00017-2021-03-15T13:12:00-04:00	Sampler	Samplers	Preventative	Calibration	Operators Waste Water Plant	No data	No data	Replaced tubing and calibrated each sampler
12-Mar-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Jenni Yuill	No data	No data	Ran not under load for 25mins
12-Mar-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Jenni Yuill	No data	No data	Entered weeks lab data
11-Mar-21	WPCPAsset-00384	Other	Weirs (Secondary Tank)	Preventative	Clean and Inspect	Jenni Yuill	No data	No data	Cleaned all secondary weirs
09-Mar-21	WPCPAsset-0035	Grit Removal	M111	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	Greased grit snail and Bar screen	Cleaned, greased, inspected for grit build up
09-Mar-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	Greased fittings on pump	No leaks
09-Mar-21	WPCPAsset-00016-2021-03-09T07:08:25-05:00	Other	RAS (building)	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	Greased and inspected all plug valves and check valves	Several plug valves not taking grease
05-Mar-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Jenni Yuill	No data	No data	Entered all lab data

2021 Maintenance - Preventative

05-Mar-21	WPCPAsset-00412	Instrumentation	LAB Spectro WPCP	Preventative	Verification	Operators Waste Water Plant	No data	No data	No data
05-Mar-21	WPCPAsset-0000	WWTP	WPCP	Preventative	Alarm Testing	Operators Waste Water Plant	No data	No data	No data
05-Mar-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Jenni Yuill	No data	No data	Ran for 20 mins not under load
03-Mar-21	WPCPAsset-00412	Instrumentation	LAB Spectro WPCP	Preventative	Verification	Jenni Yuill	No data	No data	No data
03-Mar-21	WPCPAsset-00381	Other	Weirs (Primary Tanks)	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Not Required
03-Mar-21	WPCPAsset-00384	Other	Weirs (Secondary Tank)	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Not Required
03-Mar-21	WPCPAsset-00407	Belt Press	Belt Press Roller Bearings	Preventative	Clean and Inspect	Jason Barlow	No data	MB/AM	Completed
03-Mar-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Jason Barlow	No data	AM/MB	Completed
19-Feb-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Feb. 19,2021
19-Feb-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	Ran well	Started and ran well
18-Feb-21	WPCPAsset-00381	Instrumentation	Belt Press Room Hydrogen Sulifide Detector	Preventative	Verification	Operators Waste Water Plant	No data	Unit verified Feb. 11, 2021.	All ok.
18-Feb-21	WPCPAsset-00381	Instrumentation	Belt Press Room Hydrogen Sulifide Detector	Preventative	Calibration	Operators Waste Water Plant	No data	No data	No data
12-Feb-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Data entered into Watertrax.
12-Feb-21	WPCPAsset-00378	Pelletizer	Pelletizer	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Oiled all chains
11-Feb-21	WPCPAsset-0239	Sizer	M1430	Preventative	Clean and Inspect	Andrew MacNaughton	No data	2 screens replaced. See CM log.	Inspected.
11-Feb-21	WPCPAsset-0242	Redler	Red1450	Preventative	Operational	Andrew MacNaughton	No data	Checked brushes. Stiff but functional.	All ok in redler.

2021 Maintenance - Preventative

11-Feb-21	WPCPAsset-00393	Other	Pelletcyclone	Preventative	Clean and Inspect	Andrew MacNaughton	No data	Checked 3 of 11. Checked most fouled. All flowing ok. No plugging on 3 checked.	Inspected mufflers.
11-Feb-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	All Good.	Tested
11-Feb-21	WPCPAsset-0239	Sizer	M1430	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Checked screens and noticed tears in oversized and target sized screens.
09-Feb-21	WPCPAsset-00394	Instrumentation	LT1210	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	No data
05-Feb-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	All entered
04-Feb-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased fittings
04-Feb-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	No data	All okay
29-Jan-21	WPCPAsset-00376	Other	Watertrax Data	Preventative	Verification	Operators Waste Water Plant	No data	No data	Entered
26-Jan-21	WPCPAsset-00380	Building	Raw Sludge (Building)	Preventative	Operational	Operators Waste Water Plant	No data	No data	Exercised all applicable valves in raw sludge building
26-Jan-21	WPCPAsset-0014	Bar Screen	screen2	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased bearings. Re route 1 grease line for efficient greasing
26-Jan-21	WPCPAsset-0013	Bar Screen	screen1	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased bearings. Re route 1 grease line for more efficient greasing
26-Jan-21	WPCPAsset-0000	WWTP	WPCP	Preventative	Alarm Testing	Operators Waste Water Plant	No data	No data	No data
26-Jan-21	WPCPAsset-00381	Other	Weirs (Primary Tanks)	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Not required. Not completed.
26-Jan-21	WPCPAsset-00384	Other	Weirs (Secondary Tank)	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Not required.
26-Jan-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	No data	Ran. Tested. All good.
25-Jan-21	WPCPAsset-00407	Belt Press	Belt Press Roller Bearings	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased all belt press roller bearings

2021 Maintenance - Preventative

25-Jan-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased stuffing box
20-Jan-21	WPCPAsset-0192	UV Lamps	UV632	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Racks #1-9 inspected, greased and Acti-clean gel refreshed and topped up
19-Jan-21	WPCPAsset-0249	UV Lamps	UV631	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	All ok, and in service.	All semi annual maintenance complete.
14-Jan-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	Greased
12-Jan-21	WPCPAsset-00390	Generator	Diesel Generator	Preventative	Operational	Operators Waste Water Plant	No data	No data	Run, not under load.
12-Jan-21	WPCPAsset-00412	Instrumentation	LAB Spectro WPCP	Preventative	Verification	Operators Waste Water Plant	No data	No data	No data
08-Jan-21	WPCPAsset-00415	Alarm	Fire Alarm System	Preventative	Operational	Andrew MacNaughton	No data	Detectors showing age as original. Alarms active in all buildings, and system operational.	All ok
07-Jan-21	WPCPAsset-00393	Other	Pelletcyclone	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	All have been checked, broken diaphragm on #2 which has been replaced. Replaced 1 muffler
06-Jan-21	WPCPAsset-00401	Pump	M3020	Preventative	Clean and Inspect	Operators Waste Water Plant	No data	No data	All okay

APPENDIX D
Solids Handling

2021 Solids Handling

Town of Smiths Falls

2021 Performance Assessment Report - WPCP

Works # 120000890

Conventional Tertiary Treatment UV Disinfection / Pelletization

2021 Pelletizer Production

Month	Run Time (hrs)	Sludge Processed (m ³)	Total Number of Pellet bags filled	Total Number of Pellets Produced (kg)
January	267.2	1,782.7	48.0	35,708.0
February	221.4	1,584.5	48.0	33,632.0
March	210.3	1,327.3	44.0	31,365.5
April	151.9	1,095.9	36.0	24,899.0
May	170.8	1,327.2	43.0	27,887.5
June	224.8	1,698.0	47.0	31,429.5
July	224.0	1,581.3	50.0	33,033.0
August	186.7	1,384.8	46.0	31,108.0
September	167.3	1,148.7	36.0	23,686.5
October	186.9	1,240.9	39.0	25,800.0
November	213.5	1,442.9	44.0	28,183.5
December	191.5	1,349.7	23.0	15,438.5
Total	2,416.3	16,964.0	504.0	342,171.0

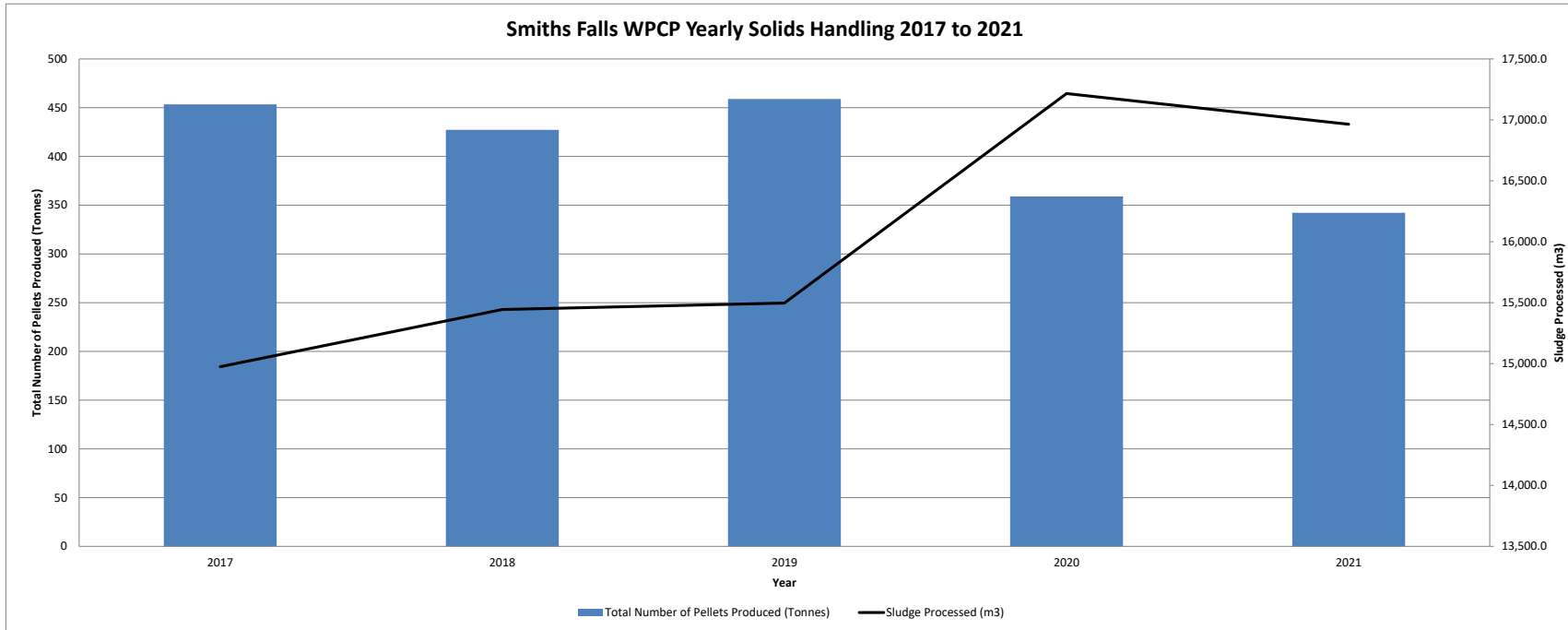
Pelletizer Production 2017 to 2021

Year	Run Time Hours	Sludge Processed cubic meters	Total Number of Pellet bags filled	Total Number of Pellets Produced kg	Total Number of Pellets Produced (Tonnes)
2017	2,464.0	14,758.9	628.0	453,370.0	453.4
2018	2,564.5	15,378.9	614.0	427,256.0	427.3
2019	2,373.1	15,496.5	653.0	458,941.8	458.9
2020	2,469.2	17,216.1	492.0	358,891.2	358.9
2021	2,416.3	16,964.0	504.0	342,171.0	342.2

Note: The weight of the pellets depends on the bulk density of the pellets. The bulk density changes depending on how the pellets are processed (i.e. temperature during processing, amount of poly used etc.). This is why sometimes there is more sludge processed but a lighter pellet weight.

Yearly Solids Handling 2017 to 2021

Town of Smiths Falls
2021 Performance Assessment Report - WPCP
Works # 12000890
Conventional Tertiary Treatment UV Disinfection / Pelletization



APPENDIX E

2021 Municipal Utility Monitoring Program (MUMPS)

Fields marked with an asterisk (*) are mandatory.

Project Name
Smiths Falls Water Pollution Control Plant

Facility Address

Unit Number	Street Number 180	Street Name Queen Street	PO Box
Municipality/City/Town Town of Smiths Falls		Province ON - Ontario	Postal Code K7A 5B8

Operating Authority
Town of Smiths Falls

Mailing Address

Unit Number	Street Number 77	Street Name Beckwith Street	PO Box 695
Municipality/City/Town Town of Smiths Falls		Province ON - Ontario	Postal Code K7A 4T6

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 2 0 0 0 0 8 9 0	Month 0 1 2 0 2 1	Year	3 1	2	R
1 2	3 11	16 19		20 21	22	80

C.P.	Flows	Parameter Code	Dec	Monthly Results
0 1	Total Flow (10 ³ m ³)	50010	3	224.757
	Average Daily Flow (10 ³ m ³ /d)	50015	3	7.250
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	9.255
2 6	Bypass			# of Occurrences
	Plant Bypass Volume (10 ³ m ³)	50026	3	
	Duration (hours)	80563	1	
	Secondary Bypass Volume (10 ³ m ³)	50040	3	0
	Duration (hours)	80565	1	
0 3	Raw Sewage			# of Samples
	BOD ₅ (mg/L)	00001	0	152
	Suspended Solids (mg/L)	00006	0	195
	TKN (mg/L)	00020	2	19.80
	Total Phosphorus (mg/L)	00033	1	3.4
0 4	Final Effluent			
	BOD ₅ (mg/L)	00001	1	3.0
	CBOD ₅ (mg/L)	00002	1	3.0
	Suspended Solids (mg/L)	00006	1	1.1
	Ammonia + Ammonium (mg/L)	00019	2	0.02
	TKN (mg/L)	00020	2	0.80
	Total Phosphorus (mg/L)	00033	2	0.07
0 7	Disinfection			
	Chlorine Used (kg as Cl ₂)	50100	1	
	Chlorine Dosage (mg/L as Cl ₂)	80410	1	
	Chlorine Residual (mg/L as Cl ₂)	80420	1	

Operator Telephone Number
613-283-4124

Operator Email Address *
scooke@smithsfalls.ca

Comments
UV disinfection

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Ministry Contact Email Address *
brenda.beaudoin@ontario.ca

Project Name
Smiths Falls Water Pollution Control Plant

Facility Address

Unit Number	Street Number 180	Street Name Queen Street	PO Box
Municipality/City/Town Town of Smiths Falls		Province ON - Ontario	Postal Code K7A5B8
Operating Authority Town of Smiths Falls			

Mailing Address

Unit Number	Street Number 77	Street Name Beckwith Street	PO Box 695
Municipality/City/Town Town of Smiths Falls		Province ON - Ontario	Postal Code K7A4T6

File No.	Works Number *	Data Period *	Days	Discharge Type	Update Code
4 6 1 2	1 2 0 0 0 0 8 9 0 3 11	0 1 2 0 2 1 16 19	3 1 20 21	2 22	R 80

C.P.	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
0 3 12 13					

0 4 12 13	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
	Alkalinity, Total (mg/L)	00051	4		
	Conductivity 25°C (µS/cm)	91004	4		
	E. Coli (CT/100ml)	91000	4	1.0000	4
	Nitrate, Unfiltered reactive (mg/L)	00022	4		
	Nitrite, Unfiltered reactive (mg/L)	00021	4		
	pH	80770	4		
	Temperature, Water (°C)	80250	4	7.2000	11
	Un-ionized Ammonia (mg/L)	91012	4	0.0030	5
	Dissolved Oxygen (mg/L)	00003	4		
	Hydrogen Sulphide (mg/L)	83008	4		
	pH min	80770	4	7.0800	11
	pH max	80770	4	7.7400	11

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Municipality/City/Town Town of Smiths Falls		Province ON - Ontario	Postal Code K7A 4T6

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 2 0 0 0 0 8 9 0	Month 0 2 2 0 2 1	Year	2 8	2	R
1 2	3 11	16 19		20 21	22	80

C.P.							
0 1	Flows	Parameter Code	Dec.	Monthly Results			
12 13	Total Flow (10 ³ m ³)	50010	3	173.434			
	Average Daily Flow (10 ³ m ³ /d)	50015	3	6.194			
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	7.991			
2 6	Bypass	Parameter Code	Dec.			# of Occurrences	
12 13	Plant Bypass Volume (10 ³ m ³)	50026	3			0	
	Duration (hours)	80563	1				
	Secondary Bypass Volume (10 ³ m ³)	50040	3				
	Duration (hours)	80565	1				
0 3	Raw Sewage	Parameter Code	Dec.			# of Samples	
12 13	BOD ₅ (mg/L)	00001	0	144		4	
	Suspended Solids (mg/L)	00006	0	190		9	
	TKN (mg/L)	00020	2	19.90		4	
	Total Phosphorus (mg/L)	00033	1	2.9		8	
0 4	Final Effluent	Parameter Code	Dec.			# of Samples	
12 13	BOD ₅ (mg/L)	00001	1	3.0		4	
	CBOD ₅ (mg/L)	00002	1	3.0		4	
	Suspended Solids (mg/L)	00006	1	0.6		13	
	Ammonia + Ammonium (mg/L)	00019	2	0.04		5	
	TKN (mg/L)	00020	2	0.80		4	
	Total Phosphorus (mg/L)	00033	2	0.04		13	
0 7	Disinfection	Parameter Code	Dec.			# of Samples	
12 13	Chlorine Used (kg as Cl ₂)	50100	1				
	Chlorine Dosage (mg/L as Cl ₂)	80410	1				
	Chlorine Residual (mg/L as Cl ₂)	80420	1				

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Smiths Falls Water Pollution Control Plant

Facility Address

Unit Number	Street Number	Street Name	PO Box
	180	Queen Street	
Municipality/City/Town		Province	Postal Code
Town of Smiths Falls		ON - Ontario	K7A 5B8

Operating Authority
Town of Smiths Falls

Mailing Address

Unit Number	Street Number	Street Name	PO Box
	77	Beckwith Street	695
Municipality/City/Town		Province	Postal Code
Town of Smiths Falls		ON - Ontario	K7A 4T6

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 2 0 0 0 0 8 9 0	Month	Year	3 1	2	R
1 2	3 11	0 3	2 0 2 1	20 21	22	80

C.P.	Flows	Parameter Code	Dec.	Monthly Results	# of Occurrences
0 1	Total Flow (10 ³ m ³)	50010	3	361.559	0
	Average Daily Flow (10 ³ m ³ /d)	50015	3	11.663	
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	21.580	
2 6	Plant Bypass Volume (10 ³ m ³)	50026	3		
	Duration (hours)	80563	1		
	Secondary Bypass Volume (10 ³ m ³)	50040	3		
	Duration (hours)	80565	1		
0 3	Raw Sewage				# of Samples
	BOD ₅ (mg/L)	00001	0	105	5
	Suspended Solids (mg/L)	00006	0	189	12
	TKN (mg/L)	00020	2	15.70	5
	Total Phosphorus (mg/L)	00033	1	2.6	11
0 4	Final Effluent				
	BOD ₅ (mg/L)	00001	1	3.0	5
	CBOD ₅ (mg/L)	00002	1	3.0	5
	Suspended Solids (mg/L)	00006	1	0.9	13
	Ammonia + Ammonium (mg/L)	00019	2	0.02	6
	TKN (mg/L)	00020	2	0.70	5
	Total Phosphorus (mg/L)	00033	2	0.04	13
0 7	Disinfection				
	Chlorine Used (kg as Cl ₂)	50100	1		
	Chlorine Dosage (mg/L as Cl ₂)	80410	1		
	Chlorine Residual (mg/L as Cl ₂)	80420	1		

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 2 0 0 0 0 8 9 0	Month 0 4	Year 2 0 2 1	3 0	2	R
1 2	3 11	16 19	20 21	22	80	

C.P.	Flows	Parameter Code	Dec	Monthly Results
0 1	Total Flow (10 ³ m ³)	50010	3	261.058
	Average Daily Flow (10 ³ m ³ /d)	50015	3	8.702
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	16.765
2 6	Bypass			# of Occurrences
	Plant Bypass Volume (10 ³ m ³)	50026	3	0
	Duration (hours)	80563	1	
	Secondary Bypass Volume (10 ³ m ³)	50040	3	
	Duration (hours)	80565	1	
0 3	Raw Sewage			# of Samples
	BOD ₅ (mg/L)	00001	0	160
	Suspended Solids (mg/L)	00006	0	213
	TKN (mg/L)	00020	2	19.70
	Total Phosphorus (mg/L)	00033	1	2.8
0 4	Final Effluent			
	BOD ₅ (mg/L)	00001	1	3.0
	CBOD ₅ (mg/L)	00002	1	3.0
	Suspended Solids (mg/L)	00006	1	0.9
	Ammonia + Ammonium (mg/L)	00019	2	0.01
	TKN (mg/L)	00020	2	0.80
	Total Phosphorus (mg/L)	00033	2	0.04
0 7	Disinfection			
	Chlorine Used (kg as Cl ₂)	50100	1	
	Chlorine Dosage (mg/L as Cl ₂)	80410	1	
	Chlorine Residual (mg/L as Cl ₂)	80420	1	

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Operating Authority Town of Smiths Falls			

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File No.	Works Number *	Data Period *	Days	Discharge Type	Update Code
4 6 1 2	1 2 0 0 0 0 8 9 0 3 11	0 4 2 0 2 1 16 19	3 0 20 21	2 22	R 80

C.P.	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
0 3 12 13					

0 4 12 13	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
	Alkalinity, Total (mg/L)	00051	4		
	Conductivity 25°C (µS/cm)	91004	4		
	E. Coli (CT/100ml)	91000	4	1.0000	4
	Nitrate, Unfiltered reactive (mg/L)	00022	4		
	Nitrite, Unfiltered reactive (mg/L)	00021	4		
	pH	80770	4	7.1900	11
	Temperature, Water (°C)	80250	4	7.8000	11
	Un-ionized Ammonia (mg/L)	91012	4	0.0000	5
	Dissolved Oxygen (mg/L)	00003	4		
	Hydrogen Sulphide (mg/L)	83008	4		
	pH min	80770	4	7.0900	11
	pH max	80770	4	7.2900	11

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 2 0 0 0 0 8 9 0	Month 0 5	Year 2 0 2 1	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.							
0 1	Flows	Parameter Code	Dec.	Monthly Results			
12 13	Total Flow (10 ³ m ³)	50010	3	276.714			
	Average Daily Flow (10 ³ m ³ /d)	50015	3	8.926			
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	15.909			
2 6	Bypass	Parameter Code	Dec.			# of Occurrences	
12 13	Plant Bypass Volume (10 ³ m ³)	50026	3			0	
	Duration (hours)	80563	1				
	Secondary Bypass Volume (10 ³ m ³)	50040	3				
	Duration (hours)	80565	1				
0 3	Raw Sewage	Parameter Code	Dec.			# of Samples	
12 13	BOD ₅ (mg/L)	00001	0	126		4	
	Suspended Solids (mg/L)	00006	0	192		12	
	TKN (mg/L)	00020	2	15.70		4	
	Total Phosphorus (mg/L)	00033	1	2.8		8	
0 4	Final Effluent	Parameter Code	Dec.			# of Samples	
12 13	BOD ₅ (mg/L)	00001	1	3.0		4	
	CBOD ₅ (mg/L)	00002	1	3.0		4	
	Suspended Solids (mg/L)	00006	1	0.5		14	
	Ammonia + Ammonium (mg/L)	00019	2	0.06		5	
	TKN (mg/L)	00020	2	0.70		4	
	Total Phosphorus (mg/L)	00033	2	0.03		13	
0 7	Disinfection	Parameter Code	Dec.				
12 13	Chlorine Used (kg as Cl ₂)	50100	1				
	Chlorine Dosage (mg/L as Cl ₂)	80410	1				
	Chlorine Residual (mg/L as Cl ₂)	80420	1				

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Comments

UV disinfection

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Project Name
Smiths Falls Water Pollution Control Plant

Facility Address

Unit Number	Street Number	Street Name	PO Box
	180	Queen Street	
Municipality/City/Town		Province	Postal Code
Town of Smiths Falls		ON - Ontario	K7A 5B8

Operating Authority
Town of Smiths Falls

Mailing Address

Unit Number	Street Number	Street Name	PO Box
	77	Beckwith Street	695
Municipality/City/Town		Province	Postal Code
Town of Smiths Falls		ON - Ontario	K7A 4T6

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 2 0 0 0 0 8 9 0	Month	Year	3 0	2	R
1 2	3 11	0 6	2 0 2 1	19 20 21	22	80

C.P.
0 1
12 13

Flows	Parameter Code	Dec.	Monthly Results
Total Flow (10 ³ m ³)	50010	3	186,544
Average Daily Flow (10 ³ m ³ /d)	50015	3	6,218
Maximum Daily Flow (10 ³ m ³ /d)	50020	3	9,055

Bypass	Parameter Code	Dec.	# of Occurrences
Plant Bypass Volume (10 ³ m ³)	50026	3	0
Duration (hours)	80563	1	
Secondary Bypass Volume (10 ³ m ³)	50040	3	
Duration (hours)	80565	1	

Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	0	122	5
Suspended Solids (mg/L)	00006	0	190	12
TKN (mg/L)	00020	2	12.30	5
Total Phosphorus (mg/L)	00033	1	2.1	10

Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	1	3.0	5
CBOD ₅ (mg/L)	00002	1	3.0	5
Suspended Solids (mg/L)	00006	1	0.7	10
Ammonia + Ammonium (mg/L)	00019	2	0.01	7
TKN (mg/L)	00020	2	0.70	5
Total Phosphorus (mg/L)	00033	2	0.03	14

Disinfection	Parameter Code	Dec.	Monthly Results
Chlorine Used (kg as Cl ₂)	50100	1	
Chlorine Dosage (mg/L as Cl ₂)	80410	1	
Chlorine Residual (mg/L as Cl ₂)	80420	1	

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File No.	Works Number *	Data Period *	Days	Discharge Type	Update Code
4 6 1 2	1 2 0 0 0 0 8 9 0 3 11	0 6 2 0 2 1 16 19	3 0 20 21	2 22	R 80

C.P.	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
0 3 12 13					

0 4 12 13	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
	Alkalinity, Total (mg/L)	00051	4		
	Conductivity 25°C (µS/cm)	91004	4		
	E. Coli (CT/100ml)	91000	4	1.0000	4
	Nitrate, Unfiltered reactive (mg/L)	00022	4		
	Nitrite, Unfiltered reactive (mg/L)	00021	4		
	pH	80770	4	7.3200	10
	Temperature, Water (°C)	80250	4	9.7000	10
	Un-ionized Ammonia (mg/L)	91012	4	0.0000	5
	Dissolved Oxygen (mg/L)	00003	4		
	Hydrogen Sulphide (mg/L)	83008	4		
	pH min	80770	4	7.1100	10
	pH max	80770	4	8.0600	10

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 2 0 0 0 0 8 9 0	Month 0 7	Year 2 0 2 1	3 1	2	R
1 2	3 11	16 19	20 21	22	80	

C.P.		Parameter Code	Dec.	Monthly Results	
0 1	Flows				
12 13	Total Flow (10 ³ m ³)	50010	3	194.272	
	Average Daily Flow (10 ³ m ³ /d)	50015	3	6.267	
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	9.087	
2 6	Bypass				# of Occurrences
12 13	Plant Bypass Volume (10 ³ m ³)	50026	3		0
	Duration (hours)	80563	1		
	Secondary Bypass Volume (10 ³ m ³)	50040	3		
	Duration (hours)	80565	1		
0 3	Raw Sewage				# of Samples
12 13	BOD ₅ (mg/L)	00001	0	148	4
	Suspended Solids (mg/L)	00006	0	253	11
	TKN (mg/L)	00020	2	23.10	4
	Total Phosphorus (mg/L)	00033	1	3.6	10
0 4	Final Effluent				
12 13	BOD ₅ (mg/L)	00001	1	3.0	4
	CBOD ₅ (mg/L)	00002	1	3.0	4
	Suspended Solids (mg/L)	00006	1	0.7	14
	Ammonia + Ammonium (mg/L)	00019	2	0.02	5
	TKN (mg/L)	00020	2	0.70	4
	Total Phosphorus (mg/L)	00033	2	0.04	14
0 7	Disinfection				
12 13	Chlorine Used (kg as Cl ₂)	50100	1		
	Chlorine Dosage (mg/L as Cl ₂)	80410	1		
	Chlorine Residual (mg/L as Cl ₂)	80420	1		

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File No.	Works Number *	Data Period *	Days	Discharge Type	Update Code
4 6 1 2	1 2 0 0 0 0 8 9 0 3 11	0 7 2 0 2 1 16 19	3 1 20 21	2 22	R 80

C.P.	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
0 3 12 13					

0 4 12 13	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
	Alkalinity, Total (mg/L)	00051	4		
	Conductivity 25°C (µS/cm)	91004	4		
	E. Coli (CT/100ml)	91000	4	1.0000	4
	Nitrate, Unfiltered reactive (mg/L)	00022	4		
	Nitrite, Unfiltered reactive (mg/L)	00021	4		
	pH	80770	4	7.3400	10
	Temperature, Water (°C)	80250	4	11.9000	10
	Un-ionized Ammonia (mg/L)	91012	4	0.0100	5
	Dissolved Oxygen (mg/L)	00003	4		
	Hydrogen Sulphide (mg/L)	83008	4		
	pH min	80770	4	7.1800	10
	pH max	80770	4	7.3400	10

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Mailing Address

Unit Number	Street Number 77	Street Name Beckwith Street	PO Box 695
Municipality/City/Town Town of Smiths Falls		Province ON - Ontario	Postal Code K7A 4T6

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 2 0 0 0 0 8 9 0	Month 0 8	Year 2 0 2 1	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.	Flows	Parameter Code	Dec.	Monthly Results	
0 1	Total Flow (10 ³ m ³)	50010	3	184.615	
	Average Daily Flow (10 ³ m ³ /d)	50015	3	5.955	
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	9.009	
2 6	Bypass				# of Occurrences
	Plant Bypass Volume (10 ³ m ³)	50026	3		0
	Duration (hours)	80563	1		
	Secondary Bypass Volume (10 ³ m ³)	50040	3		
	Duration (hours)	80565	1		
0 3	Raw Sewage				# of Samples
	BOD ₅ (mg/L)	00001	0	153	4
	Suspended Solids (mg/L)	00006	0	255	8
	TKN (mg/L)	00020	2	24.60	4
	Total Phosphorus (mg/L)	00033	1	2.3	7
0 4	Final Effluent				
	BOD ₅ (mg/L)	00001	1	3.0	4
	CBOD ₅ (mg/L)	00002	1	3.0	4
	Suspended Solids (mg/L)	00006	1	0.7	13
	Ammonia + Ammonium (mg/L)	00019	2	0.01	6
	TKN (mg/L)	00020	2	0.70	4
	Total Phosphorus (mg/L)	00033	2	0.06	12
0 7	Disinfection				
	Chlorine Used (kg as Cl ₂)	50100	1		
	Chlorine Dosage (mg/L as Cl ₂)	80410	1		
	Chlorine Residual (mg/L as Cl ₂)	80420	1		

Operator Telephone Number
613-283-4124

Operator Email Address *
scooke@smithsfalls.ca

Comments
UV disinfection

Return completed form to:

1. Environmental Monitoring and Reporting Branch, MECP, at WasteWaterReporting@ontario.ca And
2. Your Environmental Officer at your local District/Area MECP Office.

Ministry Contact Email Address *
brenda.beaudoin@ontario.ca

Project Name
Smiths Falls Water Pollution Control Plant

Facility Address

Unit Number	Street Number 180	Street Name Queen Street	PO Box
Municipality/City/Town Town of Smiths Falls		Province ON - Ontario	Postal Code K7A5B8

Operating Authority
Town of Smiths Falls

Mailing Address

Unit Number	Street Number 77	Street Name Beckwith Street	PO Box 695
Municipality/City/Town Town of Smiths Falls		Province ON - Ontario	Postal Code K7A4T6

File No.	Works Number *	Data Period *	Days	Discharge Type	Update Code
4 6 1 2	1 2 0 0 0 0 8 9 0 3 11	0 8 2 0 2 1 16 19	3 1 20 21	2 22	R 80

C.P.	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
0 3 12 13					

0 4 12 13	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
	Aikalinity, Total (mg/L)	00051	4		
	Conductivity 25°C (µS/cm)	91004	4		
	E. Coli (CT/100ml)	91000	4	1.0000	4
	Nitrate, Unfiltered reactive (mg/L)	00022	4		
	Nitrite, Unfiltered reactive (mg/L)	00021	4		
	pH	80770	4	7.2300	10
	Temperature, Water (°C)	80250	4	11.8000	10
	Un-ionized Ammonia (mg/L)	91012	4	0.0000	5
	Dissolved Oxygen (mg/L)	00003	4		
	Hydrogen Sulphide (mg/L)	83008	4		
	pH min	80770	4	6.9500	10
	pH max	80770	4	7.4100	10

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Operator Email Address
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Comments
Unable to include loadings not enough space

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- Your Environmental Officer at your local District/Area MECP Office. (Find your local MECP office: <https://www.ontario.ca/environment-and-energy/ministry-environment-district-locator>)

Fields marked with an asterisk (*) are mandatory.

 Project Name
 Smiths Falls Water Pollution Control Plant

Facility Address

Unit Number	Street Number	Street Name	PO Box
	180	Queen Street	
Municipality/City/Town		Province	Postal Code
Town of Smiths Falls		ON - Ontario	K7A 5B8

 Operating Authority
 Town of Smiths Falls

Mailing Address

Unit Number	Street Number	Street Name	PO Box
	77	Beckwith Street	695
Municipality/City/Town		Province	Postal Code
Town of Smiths Falls		ON - Ontario	K7A 4T6

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 2 0 0 0 0 8 9 0	Month	Year	3 0	2	R
1 2	3 11	0 9	2 0 2 1	20 21	22	80

C.P.	Flows	Parameter Code	Dec.	Monthly Results	# of Occurrences
0 1	Total Flow (10 ³ m ³)	50010	3	195.816	0
	Average Daily Flow (10 ³ m ³ /d)	50015	3	6.527	
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	11.507	
2 6	Bypass				
	Plant Bypass Volume (10 ³ m ³)	50026	3		
	Duration (hours)	80563	1		
	Secondary Bypass Volume (10 ³ m ³)	50040	3		
	Duration (hours)	80565	1		
0 3	Raw Sewage				# of Samples
	BOD ₅ (mg/L)	00001	0	187	5
	Suspended Solids (mg/L)	00006	0	322	7
	TKN (mg/L)	00020	2	24.00	5
	Total Phosphorus (mg/L)	00033	1	5.5	6
0 4	Final Effluent				
	BOD ₅ (mg/L)	00001	1	3.0	5
	CBOD ₅ (mg/L)	00002	1	3.0	5
	Suspended Solids (mg/L)	00006	1	0.5	9
	Ammonia + Ammonium (mg/L)	00019	2	0.02	6
	TKN (mg/L)	00020	2	0.70	5
	Total Phosphorus (mg/L)	00033	2	0.05	10
0 7	Disinfection				
	Chlorine Used (kg as Cl ₂)	50100	1		
	Chlorine Dosage (mg/L as Cl ₂)	80410	1		
	Chlorine Residual (mg/L as Cl ₂)	80420	1		

 Operator Telephone Number
 613-283-4124

 Operator Email Address *
 scooke@smithsfalls.ca

Comments

UV disinfection, revised to correct pH max

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 Ministry Contact Email Address *
 brenda.beaudoin@ontario.ca

Fields marked with an asterisk (*) are mandatory.

 Project Name
 Smiths Falls Water Pollution Control Plant

Facility Address

Unit Number	Street Number 180	Street Name Queen Street	PO Box
Municipality/City/Town Town of Smiths Falls		Province ON - Ontario	Postal Code K7A 5B8
Operating Authority Town of Smiths Falls			

Mailing Address

Unit Number	Street Number 77	Street Name Beckwith Street	PO Box 695
Municipality/City/Town Town of Smiths Falls		Province ON - Ontario	Postal Code K7A 4T6

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 2 0 0 0 0 8 9 0	Month 1 0	Year 2 0 2 1	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.	Flows	Parameter Code	Dec.	Monthly Results
0 1	Total Flow (10 ³ m ³)	50010	3	250.789
	Average Daily Flow (10 ³ m ³ /d)	50015	3	8.090
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	18.641
2 6	Bypass			# of Occurrences
	Plant Bypass Volume (10 ³ m ³)	50026	3	0
	Duration (hours)	80563	1	
	Secondary Bypass Volume (10 ³ m ³)	50040	3	
	Duration (hours)	80565	1	
0 3	Raw Sewage			# of Samples
	BOD ₅ (mg/L)	00001	0	136
	Suspended Solids (mg/L)	00006	0	199
	TKN (mg/L)	00020	2	18.40
	Total Phosphorus (mg/L)	00033	1	3.4
0 4	Final Effluent			
	BOD ₅ (mg/L)	00001	1	3.0
	CBOD ₅ (mg/L)	00002	1	3.0
	Suspended Solids (mg/L)	00006	1	0.5
	Ammonia + Ammonium (mg/L)	00019	2	0.02
	TKN (mg/L)	00020	2	0.60
	Total Phosphorus (mg/L)	00033	2	0.05
0 7	Disinfection			
	Chlorine Used (kg as Cl ₂)	50100	1	
	Chlorine Dosage (mg/L as Cl ₂)	80410	1	
	Chlorine Residual (mg/L as Cl ₂)	80420	1	

 Operator Telephone Number
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 Operator Email Address *
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Comments

UV disinfection

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Smiths Falls Water Pollution Control Plant

Facility Address

Unit Number	Street Number	Street Name	PO Box
	180	Queen Street	
Municipality/City/Town		Province	Postal Code
Town of Smiths Falls		ON - Ontario	K7A 5B8

Operating Authority
Town of Smiths Falls

Mailing Address

Unit Number	Street Number	Street Name	PO Box
	77	Beckwith Street	695
Municipality/City/Town		Province	Postal Code
Town of Smiths Falls		ON - Ontario	K7A 4T6

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 2 0 0 0 0 8 9 0	Month	Year	3 0	2	R
1 2	3 11	1 1	2 0 2 1	20 21	22	80

C.P.	Flows	Parameter Code	Dec.	Monthly Results	
0 1	Total Flow (10 ³ m ³)	50010	3	234.813	
	Average Daily Flow (10 ³ m ³ /d)	50015	3	7.827	
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	10.541	
2 6	Bypass				# of Occurrences
	Plant Bypass Volume (10 ³ m ³)	50026	3		0
	Duration (hours)	80563	1		
	Secondary Bypass Volume (10 ³ m ³)	50040	3		
	Duration (hours)	80565	1		
0 3	Raw Sewage				# of Samples
	BOD ₅ (mg/L)	00001	0	146	4
	Suspended Solids (mg/L)	00006	0	199	19
	TKN (mg/L)	00020	2	17.90	4
	Total Phosphorus (mg/L)	00033	1	3.6	6
0 4	Final Effluent				
	BOD ₅ (mg/L)	00001	1	3.0	4
	CBOD ₅ (mg/L)	00002	1	3.0	4
	Suspended Solids (mg/L)	00006	1	0.9	14
	Ammonia + Ammonium (mg/L)	00019	2	0.05	6
	TKN (mg/L)	00020	2	0.70	4
	Total Phosphorus (mg/L)	00033	2	0.05	13
0 7	Disinfection				
	Chlorine Used (kg as Cl ₂)	50100	1		
	Chlorine Dosage (mg/L as Cl ₂)	80410	1		
	Chlorine Residual (mg/L as Cl ₂)	80420	1		

Operator Telephone Number
613-283-4124

Operator Email Address *
scooke@smithsfalls.ca

Comments

UV disinfection

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Project Name
Smiths Falls Water Pollution Control Plant

Facility Address

Unit Number	Street Number	Street Name	PO Box
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Municipality/City/Town		Province	Postal Code
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Operating Authority
Town of Smiths Falls

Mailing Address

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Municipality/City/Town		Province	Postal Code
Town of Smiths Falls		ON - Ontario	K7A 4T6

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 2 0 0 0 0 8 9 0	Month	Year	3 1	2	R
1 2	3 11	1 2 2 0 2 1	16 19	20 21	22	80

C.P.
0 1

Flows	Parameter Code	Dec.	Monthly Results
Total Flow (10 ³ m ³)	50010	3	288.462
Average Daily Flow (10 ³ m ³ /d)	50015	3	9.305
Maximum Daily Flow (10 ³ m ³ /d)	50020	3	17.146

Bypass	Parameter Code	Dec.	# of Occurrences
Plant Bypass Volume (10 ³ m ³)	50026	3	0
Duration (hours)	80563	1	
Secondary Bypass Volume (10 ³ m ³)	50040	3	
Duration (hours)	80565	1	

Raw Sewage	Parameter Code	Dec.	# of Samples
BOD ₅ (mg/L)	00001	0	5
Suspended Solids (mg/L)	00006	0	9
TKN (mg/L)	00020	2	5
Total Phosphorus (mg/L)	00033	1	8

Final Effluent	Parameter Code	Dec.	# of Samples
BOD ₅ (mg/L)	00001	1	5
CBOD ₅ (mg/L)	00002	1	5
Suspended Solids (mg/L)	00006	1	12
Ammonia + Ammonium (mg/L)	00019	2	6
TKN (mg/L)	00020	2	5
Total Phosphorus (mg/L)	00033	2	12

Disinfection	Parameter Code	Dec.	# of Occurrences
Chlorine Used (kg as Cl ₂)	50100	1	
Chlorine Dosage (mg/L as Cl ₂)	80410	1	
Chlorine Residual (mg/L as Cl ₂)	80420	1	

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Operator Email Address *
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Comments
UV disinfection

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2. Your Environmental Officer at your local District/Area MECP Office.

Ministry Contact Email Address *
brenda.beaudoin@ontario.ca

APPENDIX F
Operators Licenses

Wastewater Operator Licenses

Smiths Falls Water Pollution Control Plant Class 4

Works # 120000890

Conventional Tertiary Treatment UV Disinfection / Pelletization

Operator	Operator ID	Class	License #	Expiry Date (DD/MM/YY)	Type	ORO/ OIC
Jason Barlow	90010987	4	12448	30-Apr-22	WWT	ORO
Steve Laplante	90001222	4	13358	31-Jan-24	WWT	OIC/ORO alternative
Tyler George	90054012	4	68240	31-Jan-25	WWT	OIC/ORO alternative
Andrew MacNaughton	90053135	4	92617	30-Apr-24	WWT	OIC
Molly Buckland	90087406	2	112084	30-Apr-24	WWT	OIC
Aaron Morris	90073911	1	108196	31-Dec-22	WWT	

Other Departments

Sarah E. Cooke	90010541	OIT	42740	30-Sep-24	WWT	N/A
Harrison Leithch	90086060	OIT	OT102399	30-Sep-24	WWT	N/A

APPENDIX G

Notice of Modifications to Sewage Works



Notice of Modification to Sewage Works

RETAIN COPY OF COMPLETED FORM AS PART OF THE ECA ON-SITE PRIOR TO THE SCHEDULED IMPLEMENTATION DATE.

Part 1 – Environmental Compliance Approval (ECA) with Limited Operational Flexibility

(Insert the ECA's owner, number and issuance date and notice number, which should start with "01" and consecutive numbers thereafter)

ECA Number #5671-AE7HFT	Issuance Date (mm/dd/yy) 03/16/21	Notice number (if applicable) 4
ECA Owner Town of Smiths Falls	Municipality Town of Smiths Falls	

Part 2: Description of the modifications as part of the Limited Operational Flexibility

(Attach a detailed description of the sewage works)

Supply and configuration of the Win 911 software for the Wastewater Treatment Plant (WWTP).
The software will be installed on each SCADA computers as a hot back up pair. One system will be kept on standby mode and activated upon server failover.
The existing Raco Dialer will be used as backup response system if no response is received within a certain time will need to make modifications in the existing PLC program to give the operator to acknowledge alarms in Win 911 first.

Software:

WIN-911/Interactive licences

Includes 2-way communication with all notifiers: SMS, Email, Voice, and 10 Smartphone Apps. Includes Announcer. Allows for remote acknowledgments, alarm requests, report requests. Includes one year WIN-911 Customer Care Subscription.

WIN-911/Interactive-HB, Interactive Hot Backup.

WIN-911 Premium Voice - US English.

WIN-911 Premium Voice - US English HOT BACKUP

2 x Grandstream VoIP PBX for up to 2 analog voice line connections.

Description shall include:

1. A detail description of the modifications and/or operations to the sewage works (e.g. sewage work component, location, size, equipment type/model, material, process name, etc.)
2. Confirmation that the anticipated environmental effects are negligible.
3. List of updated versions of, or amendments to, all relevant technical documents that are affected by the modifications as applicable, i.e. submission of documentation is not required, but the listing of updated documents is (design brief, drawings, emergency plan, etc.)

Part 3 – Declaration by Professional Engineer

I hereby declare that I have verified the scope and technical aspects of this modification and confirm that the design:

1. Has been prepared or reviewed by a Professional Engineer who is licensed to practice in the Province of Ontario;
2. Has been designed in accordance with the Limited Operational Flexibility as described in the ECA;
3. Has been designed consistent with Ministry's Design Guidelines, adhering to engineering standards, industry's best management practices, and demonstrating ongoing compliance with s.53 of the Ontario Water Resources Act; and other appropriate regulations.

I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate

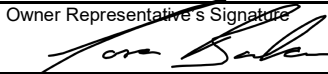
Name (Print)	PEO License Number
Signature	Date (mm/dd/yy)
Name of Employer	

Part 4 – Declaration by Owner

I hereby declare that:

1. I am authorized by the Owner to complete this Declaration;
2. The Owner consents to the modification; and
3. This modifications to the sewage works are proposed in accordance with the Limited Operational Flexibility as described in the ECA.
4. The Owner has fulfilled all applicable requirements of the *Environmental Assessment Act*.

I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate

Name of Owner Representative (Print) Jason Barlow	Owner representative's title (Print) Manager Water/Wastewater Treatemnt
Owner Representative's Signature 	Date (mm/dd/yy) 04/09/21

EAPB Form July 26, 2018

RETAIN COPY OF COMPLETED FORM AS PART OF THE ECA ON-SITE PRIOR TO THE SCHEDULED IMPLEMENTATION DATE.

Part 1 – Environmental Compliance Approval (ECA) with Limited Operational Flexibility

(Insert the ECA's owner, number and issuance date and notice number, which should start with "01" and consecutive numbers thereafter)

ECA Number

#5671-AE7HFT

Issuance Date (mm/dd/yy)

January 11, 2017

Notice number (if applicable)

04

Noticed number should be #5

ECA Owner

The Corporation of the Separated Town of Smiths Falls

Municipality

Town of Smiths Falls

Part 2: Description of the modifications as part of the Limited Operational Flexibility

(Attach a detailed description of the sewage works)

Supply and configuration of updated PLC equipment and software for the Water Pollution Control Plant (WPCP). The modifications will include:

- Replacement of the existing Bristol-Babcock (BB) controllers (5 of) with Allen-Bradley devices.
 - BB Controllers in Headworks, Blower, and Tertiary Treatment process units to be replaced with PLC's. New PLC's to be programmed with existing control logic.
 - BB Controller in Pelletizer process unit to be replaced with remote I/O.
- Replacements of the existing SCADAPACK 32 controllers (3 of) with Allen-Bradley PLC's.
 - Replace existing Allen-Bradley ControlLogix PLC's, Provide new PLC control panel (CP-100) in Headworks process unit .
 - Provide new PLC control panel in Blower process unit (CP-400) and wiring to existing RPU-400
- Modify existing control panels for controller replacements, touchscreen HMI additions, and general clean-up of panel layout (provision of wiring ducts/covers, routing of wiring, removal of obsolete wiring, etc).
- Provision of a new development PC and all software/licenses for SCADA/PLC/HMI programming development for the Work.
- The new works will include the required start-up, commissioning, and operator training services as well as As-Built wiring diagrams, O&M manuals, and software back-ups for all of the modifications and updates to the control systems.

We confirm that the anticipated environmental effects of the modifications are negligible, control redundancies are in place during the modifications and operations will be aware of the changes as they are brought on-line.

The technical documentation that are being updated as part of this work include the following list of network and controls drawings:


- a. C101 Existing Site Plan
- b. I011 Existing Network Topology
- c. I012 New Network Topology
- d. I021 Typical Control Panel – Layout Detail
- e. I022 Typical Control Panel – Wiring Details
- f. I101 Headworks Building – Control Panel Modifications
- g. I102 Headworks Building – PLC I/O Migration – 1 of 2
- h. I103 Headworks Building – PLC I/O Migration – 2 of 2
- i. I401 Blower Building – Control Panel Modifications
- j. I402 Blower Building – PLC I/O Migration
- k. I601 Tertiary Treatment Building – Control Panel Modifications
- l. I602 Tertiary Treatment Building – PLC I/O Migrations
- m. I701 CSO Tank Building – Control Panel Modifications
- n. I702 CSO Tank Building – Control System Wiring Details
- o. I801 Administration Building – Control Panel Modifications
- p. I901 Pelletizer Building – CP-900 & CP-901 Modifications
- q. I902 Pelletizer Building – CP-902 & Fibre Network Panel Modifications
- r. I903 Pelletizer Building – CP-902 Wiring Detail & RTU-902 I/O Migration
- s. I1001 OPP Pumping Station – Control Panel Modifications
- t. I1101 Centre St. Pumping Station – Control Panel Modifications

Part 3 – Declaration by Professional Engineer

I hereby declare that I have verified the scope and technical aspects of this modification and confirm that the design:

1. Has been prepared or reviewed by a Professional Engineer who is licensed to practice in the Province of Ontario;
2. Has been designed in accordance with the Limited Operational Flexibility as described in the ECA;
3. Has been designed consistent with Ministry's Design Guidelines, adhering to engineering standards, industry's best management practices, and demonstrating ongoing compliance with s.53 of the Ontario Water Resources Act; and other appropriate regulations.

I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate


Name (Print)	PEO License Number
Jamie Baker	100151897
Signature	Date (mm/dd/yy)
	December 20, 2021
Name of Employer	
EVB Engineering	

Part 4 – Declaration by Owner

I hereby declare that:

1. I am authorized by the Owner to complete this Declaration;
2. The Owner consents to the modification; and
3. This modifications to the sewage works are proposed in accordance with the Limited Operational Flexibility as described in the ECA.
4. The Owner has fulfilled all applicable requirements of the *Environmental Assessment Act*.

I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate

Name of Owner Representative (Print)	Owner representative's title (Print)
Jason Barlow	Manager of Water/Wastewater Treatment
Owner Representative's Signature	Date (mm/dd/yy)
	December 20th, 2021