



London
CANADA

THE CORPORATION OF THE CITY OF LONDON

**2023 Annual Performance Report –
Municipal Sewage Collection System
Environmental Compliance Approval #006-W601**



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1. Overview

The City of London (the City) owns and operates a sewage collection system, which includes 1,155 km of local sewers (diameter less than 450mm), 47 forcemains, and 34 sewage pumping stations. This system also comprises 14.09 km of combined sewer and 7 offline wet-weather storage facilities. It is responsible for collecting and transmitting sewage from residential, commercial, industrial, and institutional sources to one of the five wastewater treatment plants owned and operated by the City of London. The treated effluent is then released into the Thames River.

2. Summary and Interpretation of Monitoring Data

The City of London has no data to report from the municipal sewage collection system for the specified period.

3. Summary of Operating Problems Encountered and Corrective Actions Taken

In 2023, the City of London addressed various work orders related to operational issues. Table 6 in Appendix A details the specific operational problems, the dates of the incidents, and the actions taken to resolve them.

Additionally, the City of London handles service requests concerning sewer backups. Problems identified within sewer laterals (from the sewer main to the home) are the responsibility of the private property owners to maintain and repair, as indicated in Table 7 in Appendix A. Corrective actions taken include removing obstructions, assessing the likely cause, and implementing ongoing monitoring to minimize the possibility of recurring incidents.

4. Summary of all Calibration, Maintenance, and Repairs on the Municipal Sewage Collection System

4.1. Pumping Stations

Table 6 in Appendix A shows the details about the calibration, maintenance, and repairs of the pumping stations.

4.2. CCTV Inspections

The City of London conducts a CCTV sewer inspection program to assess the condition of sewage system pipes and identify potential issues such as pipe damage and blockages. In 2023, a total of 68,100m of sanitary sewer pipe were inspected, covering

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819 sewers. The age of the sanitary mains ranged from 170 years old to brand new, and the pipe sizes ranged from 150 mm up to 1350 x 910mm.

4.3. Sewer Lining

The City of London manages a sewer lining program annually to repair and replace cracked, leaked, backed up, and damaged sewer lines. In 2023, 5,467m of sanitary sewer pipes were lined, representing 56 sewers. The age of the sanitary pipes ranged from 90 years old to 70 years old, and the pipe sizes ranged from 200mm up to 900mm.

4.4. Sanitary Flushing

The City of London carries out a preventative sewer flushing and inspection program. Problematic areas are given high-priority flushing to maintain the system until the underlying problem can be addressed through an in-situ repair program or as part of a larger capital project. A summary of maintenance activities on the gravity collection system in 2023 is shown in Table 1.

Table 1: Summary of maintenance activities on gravity collection system in 2023

Maintenance Activity	Total Inspections/ Work Orders
Sanitary Sewer Flushed (m)	865,662
Sanitary Manholes Inspected (#)	14,475
Sanitary Main Spot Repair (#)	16
Sanitary Main Replacement (#)	12
Sanitary Manhole Repair (#)	1
Sanitary Manhole Replacement (#)	10
Sanitary Sewer Appurtenance Inspections (#)	227

5. Summary of any Public Complaints Related to Sewer Works and Corrective Actions Taken

The City of London addresses service requests reported by the public. Problems identified within sewer laterals (from the sewer main to the home) are the responsibility of private property owners to maintain and repair. Corrective actions taken may include removing obstructions, evaluating the likely cause of odour complaints, flushing and installing and maintaining odour control filters, and conducting follow-up monitoring to minimize the chance of recurrence. Table 2 shows a summary of public complaints received in 2023.

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Table 2: Summary of public complaints in 2023

Type of Service Request	Number of Service Requests	Corrective Actions Taken
Odour complaint	57	Evaluate probable cause of odour complaints, flushing and odour control filter installation and maintenance, and follow up monitoring to reduce the possibility of repeat occurrences.
Sewer backup complaint – Mainline (partial blockage)	9	Remove obstructions utilizing high-pressure flushing, evaluating probable cause, monitoring and implement corrective measures.
Sewer backup complaint – Lateral	370	These occurrences are reported to the City but ultimately determined to be private in nature (building drainage or plumbing related), not caused by City infrastructure.
Sewer backup complaint – Rainfall event	193	Monitor system after event to ensure functionality. Review for system optimization opportunities.

6. Summary of Alterations to the Authorized System

This section includes a summary of all alterations to the Authorized System within the period of January 1st, 2023, to December 31st, 2023. Table 3 illustrates the different alterations to the authorized system.

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Table 3: Summary of Alterations made to the Authorized System

Street Name	Limits	Type of Work	Description
Quebec Street	Oxford Street to Salisbury Street	Capital work	Proposed 375mm dia. sanitary sewer & appurtenances on Quebec Street from Oxford Street East to underneath the Quebec Street bridge to service a 45.59ha area, including 200mm and 250mm dia. sanitary sewer & appurtenances on Mornington Avenue and 200mm dia. sanitary sewer & appurtenances on Salisbury Street.
Lyle Street Elizabeth Street	Dundas Street to King Street Queen Avenue to Dundas Street	Capital work	Lyle Street & Elizabeth Street Reconstruction: Sewer replacement along Elizabeth Street from Queens Avenue to Dundas Street including approximately 122m of new 200mm sanitary sewers including appurtenances. Sewer replacement along Lyle Street from Dundas Street to King Street including approximately 70m of new 250mm sanitary sewers including appurtenances.
Platt's Lane	Oxford Street West to Cherryhill Place	Capital work	Platt's Lane from Oxford Street West to Cherryhill Place. The sanitary sewer works include the construction of a 200mm diameter sanitary sewer, sanitary sewer appurtenances, and sanitary sewer private drain connections to replace existing infrastructure on Platt's Lane.
McKenzie Avenue Baker Street Windsor Avenue	Wortley Road to Ridout Street Ridout Street to Belgrave Street	Capital work	Replacement of existing sanitary sewers as follows: McKenzie Avenue (Wortley Road to Ridout Street): Sanitary 249.0m of 200mm, McKenzie Avenue (Ridout Street to Belgrave Avenue): Sanitary 64.5m of 250mm, 160.0m of 200mm,

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	Ridout Street to Belgrave Street		Baker Street (Ridout Street to Belgrave Avenue): Sanitary 219.1m of 200mm, 12.0m of 150mm, and Windsor Avenue (Ridout Street to Belgrave Avenue): Sanitary 83m of 250mm, 145.2m of 200m.
White Oak Road	Exeter Road to 400m south of Exeter Road	Capital work	New sanitary sewers as follows: White Oak Road (Manhole 1 north of Exeter Road southward to Manhole 2) 40.0m of 375mm; (Manhole 2 southward to Manhole 3) 56.9m of 375mm; (Manhole 3 southward to Manhole 4) 67.9m of 375mm; and (Manhole 4 southward to Manhole 5) 60.0m of 375mm and (Manhole 5 connect to existing sewer north of Manhole WO878) 61.0m of 450mm.
Southdale Road West	Colonel Talbot Road (Roundabout)	Capital work	Sanitary servicing works involve the construction of 200mm diameter sewers, sanitary sewer appurtenances, and sanitary private drain connections installed on Southdale Road West, east of Colonel Talbot Road on Colonel Talbot Road, north of Southdale Road West and outletting to an existing 200mm diameter sanitary sewer on Southdale Road west at STA 1+460.
Paardeberg Crescent, Flanders Row and Rhine Avenue	Whole streets	Capital work	Paardeberg Crescent, Flanders Row, and Rhine Avenue scope includes the replacement of 200-300mm sanitary sewers and appurtenances, as well as the decommissioning and abandonment of the existing Paardeberg Sanitary Pump Station.
Regent Street	Colborne St to Maitland St	Capital work	Regent Street and Fraser Avenue. The project includes the replacement of sanitary sewers and

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Fraser Avenue	Regent Street to Huron Street		maintenance holes on Regent Street from Colborne Street to Maitland Street (236m) and Fraser Avenue from Regent Street to Huron Street (112m). 348m of new sanitary sewers will be installed (115m of 200mm diameter and 234m of 250mm diameter pipe). Existing services will be replaced and connected to the new sanitary sewers. The proposed sanitary sewers will outlet to the existing sanitary sewers on Colborne Street.
2300 Richmond Street	Subdivision	Development work	This ECA is for a proposed sanitary sewer (200mm dia. to 450mm dia.) on Richmond Street North to service a 3.21ha residential site development at 2300 Richmond Street. The proposed sanitary sewer will connect to the existing sanitary sewer on the Villagewalk attached sanitary design brief and supporting area plan/sewer design sheet for technical details. Boulevard west of the intersection with Richmond Street and extend North to service the proposed.
Liberty Crossing	Subdivision	Development work	The proposed sanitary servicing works include the construction of a 200mm diameter sanitary sewer to service 99 single-family homes, 1 medium-density street-fronting townhouse block, and a medium-density condominium block (to be serviced internally by others at a later date) along Green Bend, Liberty Crossing, and Calhoun Way. Under temporary conditions until built out, an automatic flushing device will provide watermain turnover and direct discharge to the

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			sanitary sewer network. The subdivision sewer system will discharge to the Hamlyn Street 900mm diameter sewer.
6019 Hamlyn Street (Sunningdale Court)	Subdivision	Development work	Sunningdale Court subdivision: Phase 2 - Valleyview Walk - An approximate extension of 70m of 200mm sanitary sewers in front of Block 33-2. Phase 3 - Creekview Chase - An approximate extension of 70m of 200mm sanitary sewers in front of Block 35-3.
Talbot Village North of Old Garrison Road (between Colonel Talbot Road and Bostwick Road)	Subdivision	Development work	The project involves the servicing of 108-lot residential subdivision located on the north side of Old Garrison Road, between Colonel Talbot Road and Bostwick Road. This is Phase 7 of the Talbot Village subdivision and is a northern extension of the existing development. Proposed sewers will vary in size from 200mm to 250mm and will provide service to 108 proposed lots.

7. Collection System Overflows and Spills of Sewage

In 2023, 12 incidents occurred in the City of London sewage collection system. A summary of those events is shown in Tables 4 and 5 with all the details.

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Table 4: Collection system overflows in 2023

Station	Start Date	Start Time	Finish date	Finish time	Duration (hr)	Volume (m ³)
Dingman	April 1, 2023	12:05 AM	April 2, 2023	7:35 PM	30.06	61,120
Medway	April 1, 2023	12:19 AM	April 1, 2023	5:37 PM	17.30	6,836
Berkshire	April 1, 2023	12:20 AM	April 1, 2023	5:20 AM	5.00	4,331
Sunninghill	April 1, 2023	1:33 AM	April 1, 2023	4:10 AM	2.62	313
Pond Mills	April 1, 2023	1:40 AM	April 1, 2023	1:51 AM	0.18	55
Byron	April 1, 2023	1:44 AM	April 1, 2023	3:56 AM	2.20	15,956
Adelaide	April 1, 2023	2:00 AM	April 2, 2023	12:50 AM	22.83	5,217
Adelaide	April 4, 2023	6:00 AM	April 4, 2023	10:10 PM	16.17	2,584
Dingman	April 4, 2023	3:30 AM	April 7, 2023	12:20 AM	68.83	56,990
Berkshire	July 3, 2023	7:41 AM	July 3, 2023	11:23 AM	3.70	3,751
Byron	July 3, 2023	8:25 AM	July 3, 2023	12:33 PM	4.13	40,568
Sunninghill	July 3, 2023	8:25 AM	July 3, 2023	9:59 AM	1.57	154

Table 5: Summary of Spill(s) of Sewage in 2023

Date	GIS Asset ID	Volume and Duration	Sample Results	Disinfection Provided	Type	Corrective Actions
September 23, 2023	13953213	Unknown	N/A	N/A	Obstruction	Obstruction removed/ ongoing monitoring
December 5, 2023	10487069	Unknown	N/A	N/A	Obstruction	Obstruction removed/ ongoing monitoring

8. Summary of Efforts Made to Reduce Collection System Overflows, Spills, and/or STP Bypasses

The Sewer Operations Division of the City of London is responsible for clearing blockages and conducting ongoing monitoring and maintenance to prevent sewage spills.

In 2023, the city prepared a technical memo for the Pollution Prevention and Control Plan (PPCP), specifically focusing on the Typical Year Rainfall Analysis. This analysis evaluates combined sewer overflow (CSO) and sanitary sewer overflow (SSO) discharges in accordance with Procedure F-5-5. Additionally, the City employs this analysis alongside a hydraulic model to estimate overflow discharges and ensure compliance with Ontario's regulations governing sewage treatment works that discharge

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into surface waters. Due to changes in precipitation patterns over time, the City recognized the need to update the historical rainfall data from 2010, which had previously been used as the typical year for rainfall. The 2010 data may no longer accurately represent current annual precipitation conditions.

Details about projects undertaken and completed within the Authorized System that contribute to overall overflow reduction are provided in the Summary of Calibration, Maintenance, and Repairs of the Municipal Sewage Collection System (**Section 4**, page 4).

Appendix A: Different Operating Repairs Completed in 2023

Table 6: Different operating repairs completed in 2023

Date	Operating Problems	Corrective Actions Taken
2023-05-01	Biofilter irrigation system	Preventive maintenance - Annual biofilter irrigation
2023-05-01	Retired – Recirculation pump 1	Annual Preventive maintenance Scrubb Recirculation pump
2023-05-01	Retired – Recirculation pump 2	Annual Preventive maintenance Scrubb Recirculation pump
2023-05-01	Channel grinder	Preventive maintenance channel grinder
2023-05-01	Raw sewage pump 1 – Air release valve 1	Preventive maintenance for air release valve
2023-05-01	Raw sewage pump 2 – Air release valve 1	Preventive maintenance for air release valve
2023-05-01	Raw sewage pump 3 – Air release valve 1	Preventive maintenance for air release valve
2023-05-01	Channel grinder	Preventive maintenance for channel grinder
2023-05-01	Uninterrupted Power Supply – Chelsea Heights pumping station	Uninterrupted Power Supply Dead battery
2023-05-01	Channel grinder	Preventive maintenance for channel grinder
2023-05-01	Channel grinder	Preventive maintenance for channel grinder
2023-05-01	Channel grinder 1 (Wet Well Level 1)	Preventive maintenance for channel grinder
2023-05-01	Channel grinder 2 (Wet Well Level 2)	Preventive maintenance for channel grinder
2023-05-01	Channel grinder	Preventive maintenance for channel grinder
2023-05-01	Raw sewage pump 1 – Medway pumping station	Preventive maintenance raw sewage pump
2023-05-01	Raw sewage pump 2 - Medway pumping station	Annual Preventive maintenance for raw sewage pump
2023-05-01	Raw sewage pump 3 - Medway pumping station	Annual Preventive maintenance for raw sewage pump
2023-05-01	Raw sewage pump 4 - Medway pumping station	Annual Preventive maintenance for raw sewage pump
2023-05-01	Channel grinder	Preventive maintenance for channel grinder
2023-05-01	Channel grinder	Preventive maintenance for channel grinder

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2023-05-01	Channel grinder	Preventive maintenance for channel grinder
2023-05-02	Raw sewage pumping	Inspect and replace chain
2023-05-03	Portable Genset 33-104	Replace battery
2023-05-03	Generator - Genset	Replace hand primer
2023-05-03	Building 101	Repair railing post/concrete
2023-05-03	Generator – New location	Replace heater hoses
2023-05-04	Westminster plant - SCADA	Uninterrupted Power Supply not working
2023-05-04	Generator (new 2022)	Propane refill
2023-05-08	Building B01	ATS status not available
2023-05-09	WWL inlet channel sluice gate	Inspect
2023-05-09	Wet wells	Secure middle rail
2023-05-10	Building B01	Repair Faccia
2023-05-11	Raw sewage pump 3	Temporary/leak alarm
2023-05-11	Chemical storage/feed Building 5	Purchase strainer cover
2023-05-15	Bostwick pumping station	Repair fence
2023-05-15	Raw sewage pumping	Modify lead/lag duty cycle
2023-05-16	Retrieval Block 10 (81366)	Pay invoice
2023-05-16	Drain/grit pump - WWL	Repair discharge line
2023-05-16	Raw sewage pump - (RSP 2)	Temporary alarm
2023-05-16	Raw sewage pump 1 pump only	Plugged
2023-05-16	Uninterrupted Power Supply for lightning panel 31	Annual Preventive maintenance – Battery bank
2023-05-17	Raw sewage pumping	Secure guards
2023-05-18	Jib crane – Wet well	Annual inspection
2023-05-19	Davit Arm (DBI – Gold)	Annual Preventive maintenance – Davit Arm
2023-05-19	Davit Arm 7 (tripod)	Annual Preventive maintenance – Davit Arm
2023-05-19	Retrieval Block 3 (37476)	Annual Preventive maintenance – Retrieval Block
2023-05-19	Retrieval Block 12 (091130)	Annual Preventive maintenance – Retrieval Block
2023-05-19	Retrieval Block 6 (74110)	Annual Preventive maintenance – Retrieval Block
2023-05-19	Retrieval Block 8 (3629)	Annual Preventive maintenance – Retrieval Block
2023-05-19	Retrieval Block 16 (134280)	Annual Preventive maintenance – Retrieval Block
2023-05-19	Retrieval Block (17717)	Annual Preventive maintenance – Retrieval Block

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2023-05-19	Raw sewage pump 2	Off/on fault alarm
2023-05-19	Davit Arm 8 (DBI - Gold)	Annual Preventive maintenance – Davit Arm
2023-05-23	Oxidizer	Off/on fault
2023-05-24	Building B01	Soffit repair
2023-05-24	Area lightning	Dry well lights
2023-05-24	Building B01 – Original building	Generator decision making alarm
2023-05-29	Medway pumping station Building B01	Order and install Confined Space sign
2023-05-30	Generator - Genset - Small	Automatic Transfer Switch automatic status alarm
2023-06-01	Biofilter Bed 1 (south cell)	Annual Preventive maintenance - Biofilter flow
2023-06-01	Biofilter bed 2 (middle cell)	Annual Preventive maintenance - Biofilter flow
2023-06-01	Biofilter bed 3 (north cell)	Annual Preventive maintenance I - Biofilter flow
2023-06-01	Biofilter supply fan	Annual Preventive maintenance - Biofilter flow
2023-06-01	Wet well 2A aerator	Annual Preventive maintenance wet well aerator
2023-06-01	Wet well 2B aerator	Annual Preventive maintenance wet well aerator
2023-06-01	Building B01	Replace water connections
2023-06-05	Pumping station general	Portable Genset MODS
2023-06-05	Raw sewage pump 2 - (RSP 2)	Replace pump guide rails
2023-06-05	Dingman pumping station	Replace ladder rungs in
2023-06-05	Wet wells	Confined Space sign purchase and installation
2023-06-05	Wet well 1	Repair float ball support
2023-06-05	Wet well (new 2022)	Install LID hasps
2023-06-08	Safety training/supplies	Purchase new gas meter
2023-06-09	Programmable Logic Controller - control panel	Replace failed Uninterrupted Power Supply
2023-06-11	Riverbend pumping station	No coms Programmable Logic Controller issue
2023-06-11	Electrical Department	Noise complaint from customer
2023-06-13	Building B01	Roof leak – Water heater stack
2023-06-14	Wet well 1	Tighten and secure
2023-06-15	Oxidizer	Compressor rebuild
2023-06-19	Raw sewage pump 2	Potential plug
2023-06-21	Oxidizer	High volume card fault
2023-06-29	Biofilter irrigation system	Repair hose

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2023-06-29	EnviroRanger control panel	Communication erratic
2023-07-01	Chemical metering pump 1	Annual Preventive maintenance chemical meter pump
2023-07-01	Chemical metering pump 2	Annual Preventive maintenance chemical meter pump
2023-07-01	Raw sewage pump 1	Annual Preventive maintenance raw sewage pump
2023-07-01	Raw sewage pump 2	Annual Preventive maintenance raw sewage pump
2023-07-01	Chemical metering pump 1	Annual Preventive maintenance and chemical meter pump
2023-07-01	Channel grinder 1	Preventive maintenance channel grinder
2023-07-01	Channel grinder 2	Preventive maintenance for channel grinder
2023-07-03	Channel grinder	Will not run on Automatic
2023-07-05	Septage receiving fog tank 1	Protect from Ultraviolet rays
2023-07-05	Building B01	Device network issues
2023-07-06	EnviroRanger control panel	No communication
2023-07-06	Wet well 2 level	Lit 02
2023-07-07	Wet well 2 level	Inspect sensor
2023-07-07	Raw sewage pumping	Raw sewage pump 1 and 2 not pumping
2023-07-11	Adelaide Pollution Control Plant sludge disposal	Rapid change alarm
2023-07-11	Inline chopper 1 for grit pump	Rebuild
2023-07-11	Raw sewage pump 2	Install new pumps
2023-07-11	Wet well grit pump 2	Plugged
2023-07-12	Raw sewage meter 1 (Wet Well Level 1)	Communication alarm
2023-07-13	Raw sewage pumping	No low efficiency alarm
2023-07-14	Raw sewage pumping	Replace checks
2023-07-16	Gore Road pumping station	Faulty Uninterrupted Power Supply
2023-07-16	Storybrook East pumping station	Faulty Uninterrupted Power Supply
2023-07-17	Channel grinder	Fault
2023-07-18	Main gate and perimeter fence	Broken FOB reader
2023-07-19	Wet well isolation valve 3	Support loose
2023-07-19	Medway pumping station building B01	Repair hose connection
2023-07-19	Channel grinder 1	Low oil
2023-07-19	Channel grinder 2	Running backwards/unplug
2023-07-19	Wet well grit pump 2	Not mating
2023-07-20	Raw sewage pump 2	Inspect pump
2023-07-24	Inlet gate 1 – Wet Well Level 1	Adjust limits
2023-07-26	Safety training/supplies	Lifting/hoisting equipment

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2023-07-26	Exhaust fan - Building 1	Louvers will not open in auto
2023-07-27	Storybrook East pumping station	Power issue
2023-07-28	Building B01	Remove graffiti
2023-07-28	Programmable Logic Controller - control panel	Uninterrupted Power Supply Faulted
2023-07-30	Raw sewage pump 2 (RSP 2)	Low efficiency
2023-08-01	Bioxide holding tank	Line split
2023-08-01	Forcemain air compressor	Annual Preventive maintenance Industrial Air Compressor
2023-08-01	Raw sewage pump 1	Annual Preventive maintenance raw sewage pump
2023-08-01	Raw sewage pump 2	Annual Preventive maintenance raw sewage pump
2023-08-01	Raw sewage pump 1	Annual Preventive maintenance raw sewage pump
2023-08-01	Raw sewage pump 2	Annual Preventive maintenance raw sewage pump
2023-08-01	Raw sewage pump 3	Annual Preventive maintenance raw sewage pump
2023-08-01	Stanley Street pumping station	Sink hole
2023-08-01	Building	Repair fence
2023-08-01	Raw sewage pump 1	Annual Preventive maintenance raw sewage pump
2023-08-01	Raw sewage pump 2	Annual Preventive maintenance raw sewage pump
2023-08-02	Dingman heritage house	Remove wasp nest
2023-08-03	Building B01	Smoke detector fault
2023-08-03	Byron pumping station	Little Johnny
2023-08-03	Check valve – Raw sewage pump 3	Replace
2023-08-10	Generator – Genset	Heater hoses leak
2023-08-14	Oxidizer	Verify instrument lights
2023-08-15	Dingman pumping station	No communications with Scada
2023-08-16	Retrieval block (17717)	Retrieval block certification
2023-08-16	Building B01	Check sensor for light
2023-08-16	Raw sewage pump 3	Cannot clear interlocks
2023-08-17	Raw sewage pump 3	Faulting on general alarm
2023-08-21	Dingman pumping station	Reservoir and pumping unit 01 not communicating
2023-08-21	Raw sewage pump 1	No communications with Scada
2023-08-22	Area lightning	Exterior lightning staying on
2023-08-22	Channel grinder 1	Faulting – will not reset
2023-08-23	Building B01	Replace paper towel dispenser
2023-08-24	Gordon Avenue biofilter	Reattach pressure gauge

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2023-08-24	Raw sewage pump 4	General alarm
2023-08-24	Programmable logic controller control panel	No communications
2023-08-30	Overhead door 1 - Operator	Will not open
2023-09-01	Supply fan 3A	Preventive maintenance semi annual - Heating, Ventilation, and Air Conditioning Makeup air unit and air handling unit
2023-09-01	Wet well supply fan	Preventive maintenance semi annual - Heating, Ventilation, and Air Conditioning makeup air unit and air handling unit
2023-09-01	Oxidizer	Semi-annual Preventive maintenance for Oxidizer
2023-09-01	Unit heater 1A	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater
2023-09-01	Unit heater 2A	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater
2023-09-01	Unit heater 2B	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater
2023-09-01	Supply fan A	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning Makeup air unit and air handling unit
2023-09-01	Oxidizer	Preventive maintenance semi - Oxidizer
2023-09-01	Air handling unit - Drywell	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning Makeup air unit and air handling unit
2023-09-01	Unit heater equipment room 1A - (Unit Heater 11)	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater
2023-09-01	Unit heater equipment room 1B - (Unit Heater 12)	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater
2023-09-01	Unit heater equipment room 2A - (Unit Heater 21)	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater
2023-09-01	Unit heater equipment room 2B - (Unit Heater 22)	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater

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2023-09-01	Unit heater equipment room 3A - Unit Heater 31)	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater
2023-09-01	Unit heater equipment room 3B - (Unit Heater 32)	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater
2023-09-01	Unit heater equipment room 5A (Unit Heater 51)	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater
2023-09-01	Unit heater equipment room 5B - Unit Heater 52)	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater
2023-09-01	Unit heater equipment room 2A	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater
2023-09-01	Unit heater equipment room 2B	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater
2023-09-01	Unit heater equipment room 3A	Annual Preventive maintenance - Heating, Ventilation, and Air Conditioning unit heater
2023-09-03	Oxidizer	Odour control unit
2023-09-03	Security panel – Building alarm	Alarm system
2023-09-05	Raw sewage pump 5 – Variable Frequency Drive	Check Variable Frequency Drive alarm
2023-09-06	Bypass flow at Windemere Road	No communications
2023-09-12	Oxidizer	Inspect fault
2023-09-12	Generator – New location	Repair broken door lock
2023-09-14	Electrical department	Remove electrical from station
2023-09-18	Building B01 – Original building	Uninterrupted Power Supply 02 battery status fault
2023-09-20	Area lightning	E-light out
2023-09-21	Pumping station general	Deliver pumps
2023-09-25	Inline chopper 1 for grit pump	Repair
2023-09-25	Generator – Genset small	Replace alternator belt
2023-09-25	Stanley Street pumping station	Inspect BFM01 reading flow
2023-09-26	Raw sewage pump 2 - Pump	Drive shaft bearing
2023-09-28	Pumping station general	220v adaptor plug
2023-10-01	Forcemain connection - RMC	Annual Preventive maintenance private force connection
2023-10-01	Air release valve 1 - Forcemain	Preventive maintenance air release valve

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2023-10-01	Air release valves A and B inside	Preventive maintenance air release valve
2023-10-01	Raw sewage pump 1	Annual Preventive maintenance raw sewage pump
2023-10-01	Raw sewage pump 2	Annual Preventive maintenance raw sewage pump
2023-10-01	Raw sewage pump 1 (new 2022)	Annual Preventive maintenance raw sewage pump
2023-10-01	Raw sewage pump 2 (new 2022)	Annual Preventive maintenance raw sewage pump
2023-10-01	Channel grinder 1	Preventive maintenance channel grinder
2023-10-01	Channel grinder 2	Preventive maintenance channel grinder
2023-10-01	Biofilter foul air blower	biofilter blower
2023-10-04	Pond Mills Road pumping station	Inspect Bypass meter 01 and Raw Sewage Meter 01 signals
2023-10-05	Wet well grit pump 2	Plugged
2023-10-11	Area lightning	Dry well lights
2023-10-11	Raw sewage pump 1	Reconnect Raw sewage pump
2023-10-12	Security panel – Building alarm	Inspect security alarm switch
2023-10-13	Main building - B01	October Continuous Safety Services electrical inspection defects
2023-10-13	Electrical department	October Continuous Safety Services electrical inspection defects
2023-10-16	Raw sewage pump 2	Not pumping
2023-10-17	Raw sewage pump 3	Temperature/leak alarm
2023-10-21	Screens screw conveyor 2	No power
2023-10-23	Raw sewage pump 2 - Pump	Rebuild spare
2023-10-26	Pumping station – Master key/lock program	Repair 5 pad locks
2023-10-27	Mechanical department hand tools	Tools
2023-10-30	Riverbend pumping station	Leaking sink faucet
2023-10-30	Raw sewage pump 2 – Pump	Inspect
2023-10-31	Building B01	Remove roots in Rainwater Leader drains
2023-10-31	Programmable Logic Controller control panel	Battery failure fault
2023-11-01	Biofilter irrigation system	Annual Preventive maintenance biofilter irrigation
2023-11-01	Portable Genset 1A (Summercrest)	Low oil pressure fault
2023-11-01	Raw sewage pump 1 – Air release valve 1	Preventive maintenance air release valve
2023-11-01	Raw sewage pump 2 – Air release valve 1	Preventive maintenance air release valve

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2023-11-01	Raw sewage pump 3 – Air release valve 1	Preventive maintenance air release valve
2023-11-01	Windmill for fire water pond	Annual Preventive maintenance windmill winterize
2023-11-02	Raw sewage pumping	Replace seal water solenoids
2023-11-07	Raw sewage pump 1 (new 2022)	Plugged pump and cable repair
2023-11-09	Wet well gantry crane	Repairs
2023-11-13	Building B01	Heating, Ventilation, and Air Conditioning faulted and will not reset
2023-11-13	Exhaust fan 3	Two broken belts
2023-11-13	Huron Street pumping station	Barb wire cut
2023-11-13	Raw sewage pump 2	Verify electrical operation
2023-11-14	Hydrogen sulphide sensor	Remove sensor and tube
2023-11-15	Gordon Avenue biofilter	Winterization
2023-11-15	Inline chopper 1 for grit pump	Low oil
2023-11-15	Biofilter irrigation system	Winterization
2023-11-16	Wet well 1	Float ball replace
2023-11-16	Wet well 1	Pump into new slot
2023-11-19	Channel grinder	Unit jammed
2023-11-20	Main gate and perimeter fence	Will not close
2023-11-27	Ferric holding tank 2	Modify flange for radar
2023-12-04	Dingman Drive pumping station	Fab handle
2023-12-07	East Park pumping station	Replace Uninterrupted Power Supply
2023-12-07	Raw sewage pump 1	Leak
2023-12-08	Raw sewage pump 2	Discharge pipe leaking
2023-12-08	Westmount pumping station	Install fire extinguisher bracket
2023-12-11	Raw sewage pump 4 – Medway River pumping station	Water line dual solenoid leaking
2023-12-13	Raw sewage pump 1	Inspect leak
2023-12-14	Raw sewage pump 2	Check valve leak
2023-12-14	Raw sewage pump 2	Suspect check valve is not holding
2023-12-15	Raw sewage pump 1	Plugged
2023-12-21	Dingman Drive pumping station	Iron new tank dual level sensor call
2023-12-21	Stanley Street pumping station	Check comms
2023-12-24	Oxidizer	Low flow alarm
2023-12-27	Inline chopper 1 for grit pump	Rebuild grinder

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Table 7: Summary of operating problems addressed in 2023

Date	Operating Problem	Corrective Actions Taken
2023-01-12	Sewer Main Obstructions	Obstruction removed/ongoing monitoring
2023-01-16	Sewer Main Obstructions	Obstruction removed/ongoing monitoring
2023-01-27	Sewer Main Obstructions	Obstruction removed/ongoing monitoring
2023-02-11	Sewer Main Obstructions	Obstruction removed/ongoing monitoring
2023-04-19	Sewer Main Obstructions	Obstruction removed/ongoing monitoring
2023-04-20	Sewer Main Obstructions	Obstruction removed/ongoing monitoring
2023-05-07	Sewer Main Obstructions	Obstruction removed/ongoing monitoring
2023-09-23	Sewer Main Obstructions	Obstruction removed/ongoing monitoring
2023-10-13	Sewer Main Obstructions	Obstruction removed/ongoing monitoring