



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

March 30, 2023

Pierre Adrien
Ministry of the Environment, Conservation and Parks
733 Exeter Road
London, ON N6E 1L3

Attention: Mr. Adrien

RE: West Lorne Wastewater Treatment Plant Annual Report 2022

The Ontario Clean Water Agency is the Operating Authority for the West Lorne Wastewater Treatment Plant on behalf of the Municipality of West Elgin. The system is operated under Environmental Compliance Approval 5873-B4RLEJ. Please find attached the 2022 Annual Report for the West Lorne Wastewater Treatment Plant.

Feel free to contact me should you require any additional information regarding the report. I can be reached at 519-312-0847.

Sincerely,

A handwritten signature in black ink, appearing to read 'TLT'.

Terri-Lynn Thomson
Process and Compliance Technician,
Ontario Clean Water Agency

c.c. Madga Badura, Municipality of West Elgin
Dale LeBritton, OCWA Regional Hub Manager
Sam Smith, OCWA Senior Operations Manager
Maegan Garber, OCWA Safety, Process and Compliance Manager

**MUNICIPALITY OF WEST ELGIN
WEST LORNE WASTEWATER TREATMENT PLANT**

**2022 ANNUAL REPORT
January 1 to December 31, 2022**

Environmental Compliance Approval # 5873-B4RLEJ

Prepared by:



**Ontario Clean Water Agency
Agence Ontarienne Des Eaux**

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Section 1: Overview

Overall the West Lorne Wastewater Treatment Plant provided effective wastewater treatment in 2022. The wastewater treatment plant was operated under Environmental Compliance Approval 5873-B4RLEJ dated November 30, 2018. Upgrades to the plant were completed in December 2019.

Collection System

The collection system contains gravity sewers that lead to the Main Pumping Station located on Marsh Line. It contains a wet well with three submersible pumps that pump to the treatment plant. There is a receptacle for a portable generator should the need arise for backup power. In emergencies, the wet well contains an overflow pipe that discharges to the West Lorne Lagoon.

Plant Description

The West Lorne Wastewater Treatment Plant is an extended aeration facility which consists of: grit removal and screening, extended aeration, settling, phosphorus removal, filtration and UV disinfection (seasonal). The extended aeration process is designed to remove carbonaceous and nitrogenous organic compounds (BOD). Aluminum Sulphate is used for phosphorus removal. After the clarifier the effluent is seasonally disinfected using ultraviolet light, then discharged to Zoller Drain. Zoller Drain is connected to Brock's Creek and then from there it goes to Lake Erie. Sludge is directed to the lagoon for storage and settling. Decant liquid off the lagoon is returned to the influent of the plant for treatment.

Process Details

- Wastewater is directed into the sewage lift station from the Village of West Lorne by gravity. Wastewater is then pumped from the sewage lift station located on Mash Line into a reinforced concrete inlet channel, provided with a mechanical rake bar screen.
- The secondary treatment system consists of two trains each consisting of: aeration tank, clarifier tank, and two return activated sludge pumps.
- The phosphorous removal system consists of one 15,000L plastic tank with 2 diaphragm type metering pumps 1 duty and 1 standby.
- Lime system for pH and alkalinity control (currently not in use)
- The objective of the system is to remove organics, total Kjeldahl nitrogen (TKN), phosphorous and ammonia-nitrogen.
- Three rotary lobe blowers one duty and two standby supply low pressure air to the aeration tanks.
- The tertiary treatment system consists of three continuous back wash, up flow, deep bed, granular single media sand filtration units housed in the filter building. The disinfection system consists of a ultra-violet (UV) unit through which the effluent is discharged.
- Operations are controlled by a programmable logic controller (PLC). A data logging computer system with local monitoring capability
- Laboratory space is also located at the WWTP to allow for basic laboratory analyses to be conducted by the plant operator

Section 2: Influent Monitoring Data

Sample Collection and Testing

All samples are collected and tested as per the requirements of the Environmental Compliance Approval.

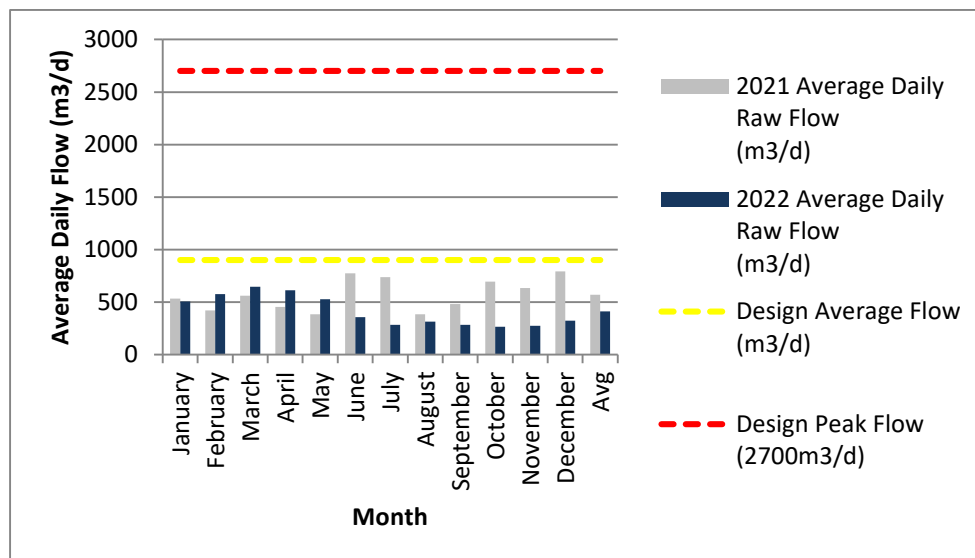
Raw sewage (influent) is sampled bi-weekly and tested for BOD₅, total suspended solids, total phosphorus, total Kjeldahl nitrogen, and alkalinity. The raw samples are collected as 24 hour composite samples.

Flows

Detailed monthly flow information is summarized in Appendix A.

The total raw flow to the WWTP in 2022 was 151, 037.6m³, which corresponds to a 27.6% decrease from 2021 raw flows, refer to Chart 1. The annual average daily flow in 2021 was 413.8m³/day, or 46% of the plant's rated design capacity of 900m³/day.

Chart 1. Average daily raw flow for 2022 compared to 2021.

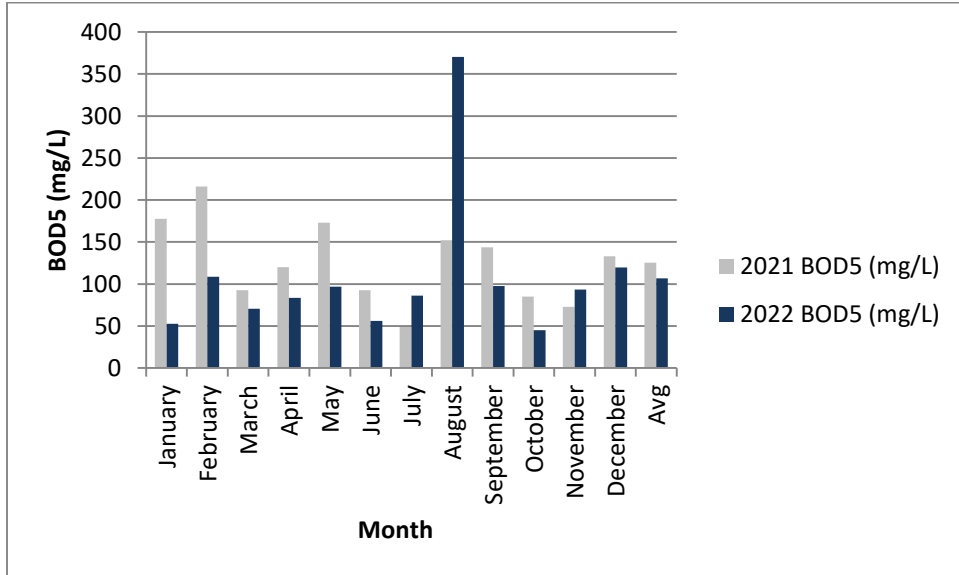


The design average daily flow for the plant was exceeded four times during the year, compared to thirty-two times in 2021. The design average daily flow exceedances were caused by rain events.

Raw Sewage Quality

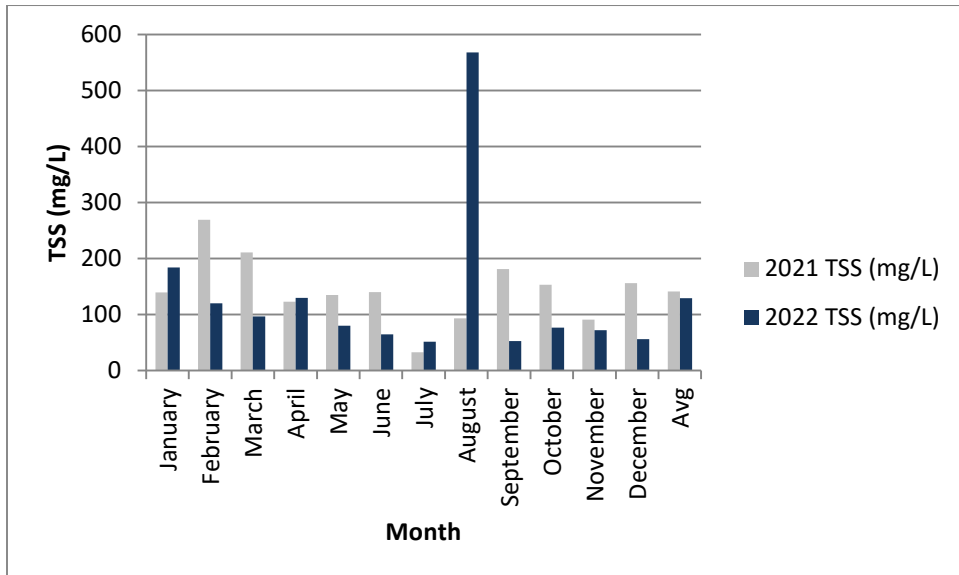
The annual average raw sewage BOD₅ concentration to the plant was 106.9mg/L with a maximum concentration of 370.5mg/L. The average concentration of BOD₅ has decreased 14.7% from 2021, refer to Chart 3. Refer to Appendix A for detailed analytical data.

Chart 3. Raw sewage average monthly concentration of BOD₅ for 2022 compared to 2021 concentrations.



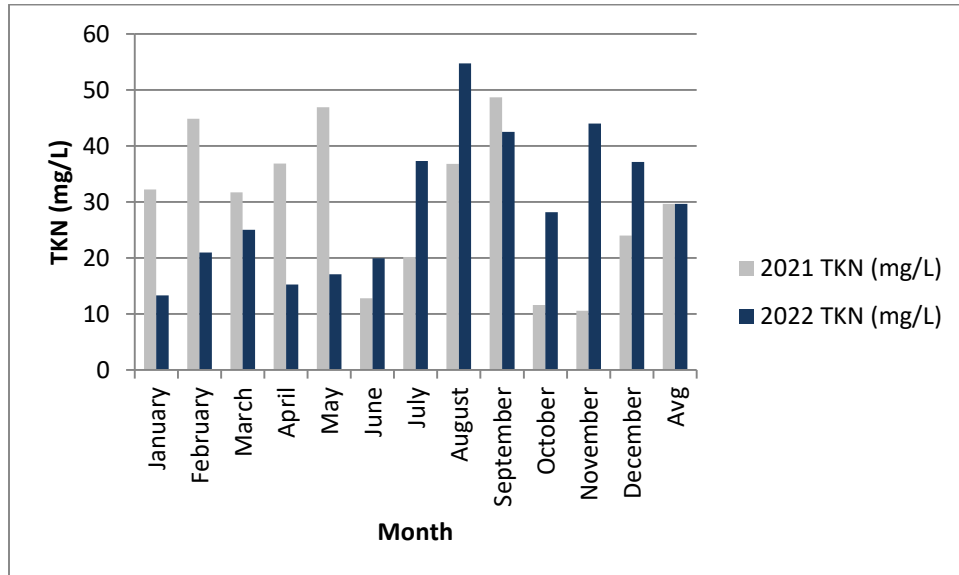
The annual average raw sewage suspended solids (TSS) concentration to the plant was 129.5mg/L, with a maximum concentration of 568mg/L. The average concentration of TSS has decreased 8% from 2021 (refer to Chart 4). Refer to Appendix A for detailed analytical data.

Chart 4. Raw sewage average monthly concentration of TSS for 2022 compared to 2021 concentrations.



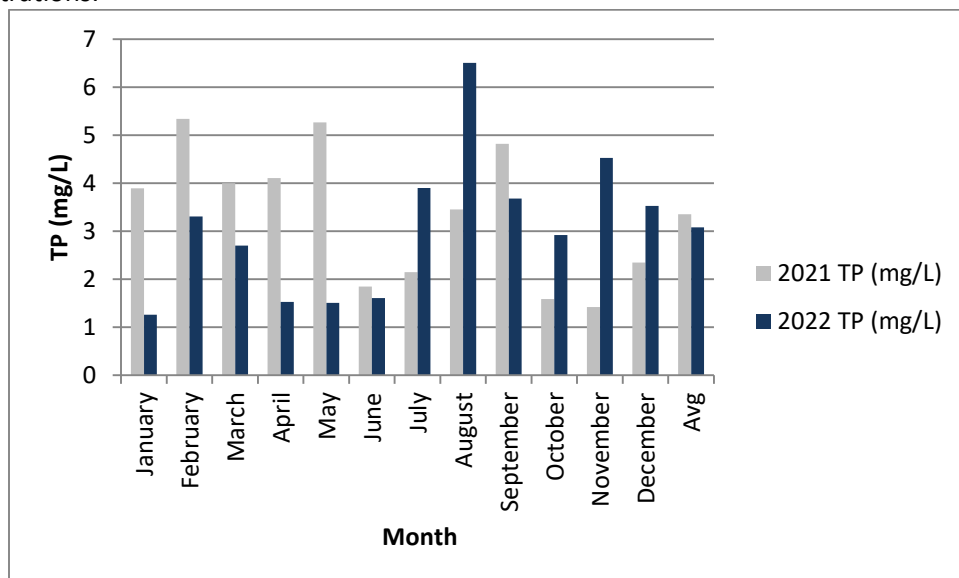
The annual average raw sewage nitrogen concentration (as represented by TKN) to the plant was 29.6mg/L with a maximum concentration of 54.8mg/L. The average concentration of TKN has decreased 0.2% from 2021 (refer to Chart 5). Refer to Appendix A for detailed analytical data.

Chart 5. Raw sewage average monthly concentration of TKN for 2022 compared to 2021 concentrations.



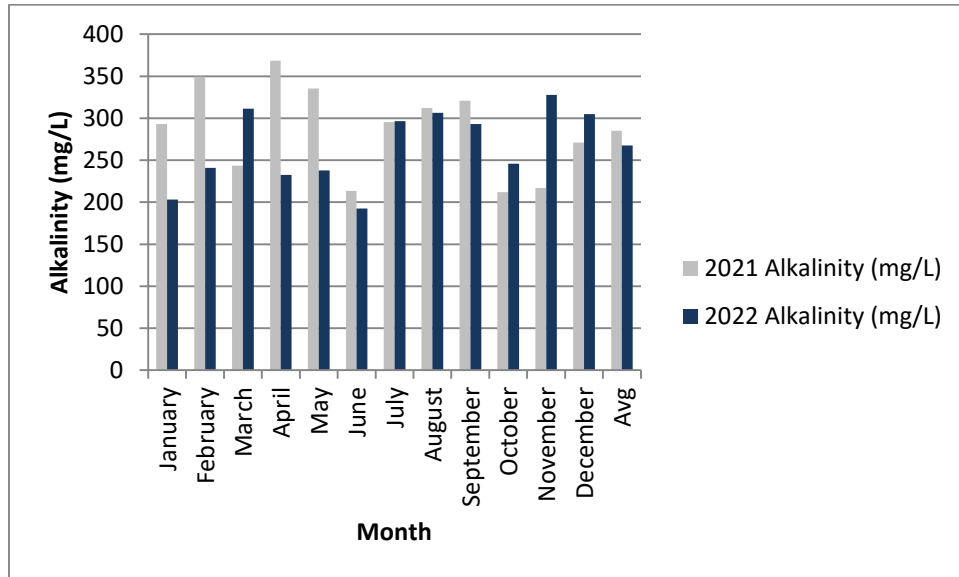
The annual average raw sewage total phosphorus (TP) to the plant was 3.35mg/L with a maximum concentration of 6.51mg/L. The average concentration of TP has decreased 8% from 2021 (refer to Chart 6). Refer to Appendix A for detailed analytical data.

Chart 6. Raw sewage monthly average concentrations of TP for 2022 compared to 2021 concentrations.



The annual average raw sewage alkalinity to the plant was 267.4mg/L with a maximum of 327.7mg/L. The annual average alkalinity has decreased 6.3% from 2021 (refer to Chart 7). Refer to Appendix A for detailed analytical data.

Chart 7. Raw sewage average monthly concentrations of alkalinity for 2022 compared to 2021 concentrations.

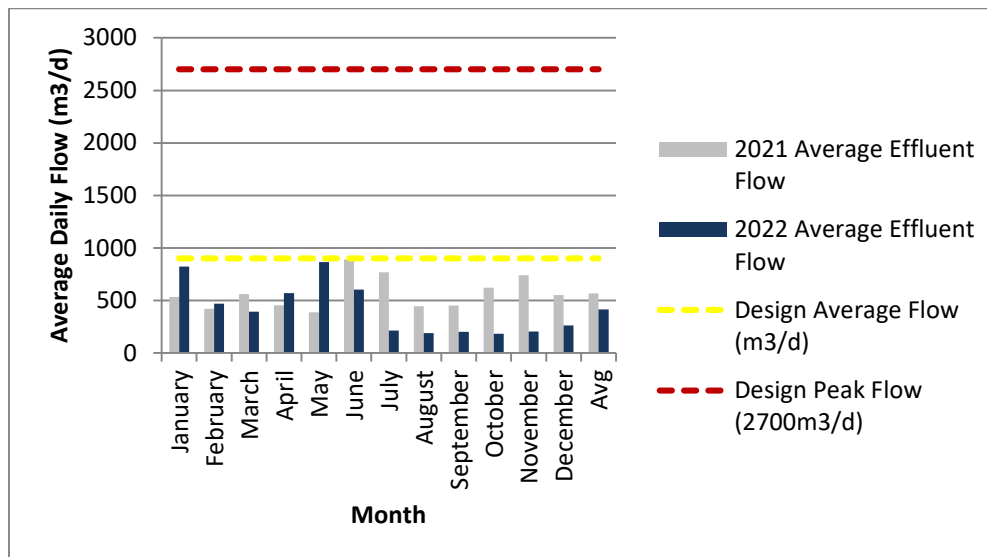


Section 3: Effluent Monitoring Data

Detailed monthly flow information is summarized in Appendix A.

The total effluent flow treated in 2022 was 151,530.14m³, which corresponds to a 27% decrease from 2021 effluent flows, refer to Chart 8.

Chart 8. Average daily effluent flow for 2022 compared to 2021.



Sample Collection and Testing

Final effluent is sampled bi-weekly and tested for CBOD₅, total suspended solids, total phosphorus, free ammonia nitrogen, total Kjeldahl nitrogen, nitrite, nitrate and alkalinity. Samples are collected using an automatic composite sampler and collected over a 24 hour period. A grab sample is collected at a minimum bi-weekly and tested for pH, temperature and dissolved oxygen. A grab sample is also collected bi-weekly and tested for E. coli during the disinfection period which as stated in the ECA is the period between April 15 to October 15.

In-house tests are conducted on a weekly basis on the final effluent, raw influent and the mixed liquor suspended solids at the plant to check plant performance and to make any operational changes as required.

In 2022, all chemical and microbiological sample analyses were conducted by SGS Lakefield Research. Temperature, pH and dissolved oxygen were conducted by operators at the treatment plant.

Effluent Limits

Detailed analytical data is attached to this report as Appendix A. The following table provides a summary of monthly average effluent result ranges and loading ranges compared to the compliance limits in the Environmental Compliance Approval.

Summary and Comparison of Compliance Data

Table 1. Monthly average effluent limits and monthly average loading limits compared to sample results received at the West Lorne WWTP.

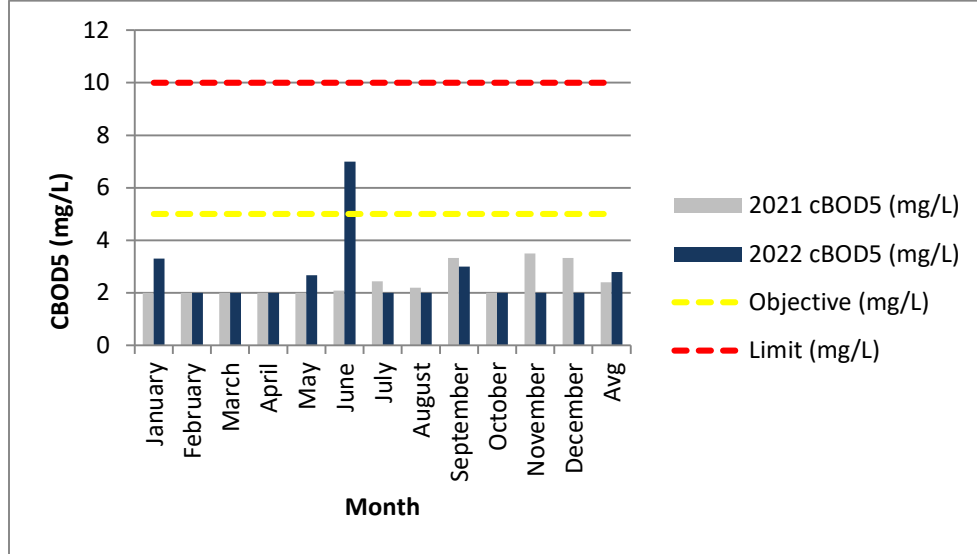
Parameter	Monthly Average Effluent Limit (mg/L)	Monthly Average Effluent Result Ranges (mg/L)	Average Monthly Loading Limit (kg/d)	Monthly Average Loading Ranges (kg/d)
CBOD ₅	10	<2 – 7.0	9	0.38 – 4.23
Total Suspended Solids	10	<2 – 10	9	0.4 – 7.59
Total Phosphorus	0.5	0.07 – 0.33	0.45	0.04 – 0.11
Total (Ammonia + Ammonium) Nitrogen	3.0(a)	<0.1 – 0.95	2.7(a)	0.02 – 0.18
	5.0(b)	<0.1 – 0.60	4.5(b)	0.04 – 0.12
E. coli (geomean)	200	2 – 103		

NOTE: (a) limit applies during the non-freezing period May 1 to November 30
(b) limit applies during the freezing period December 1 to April 30

Discussion on Monitoring Data as Compared to the Effluent Limits

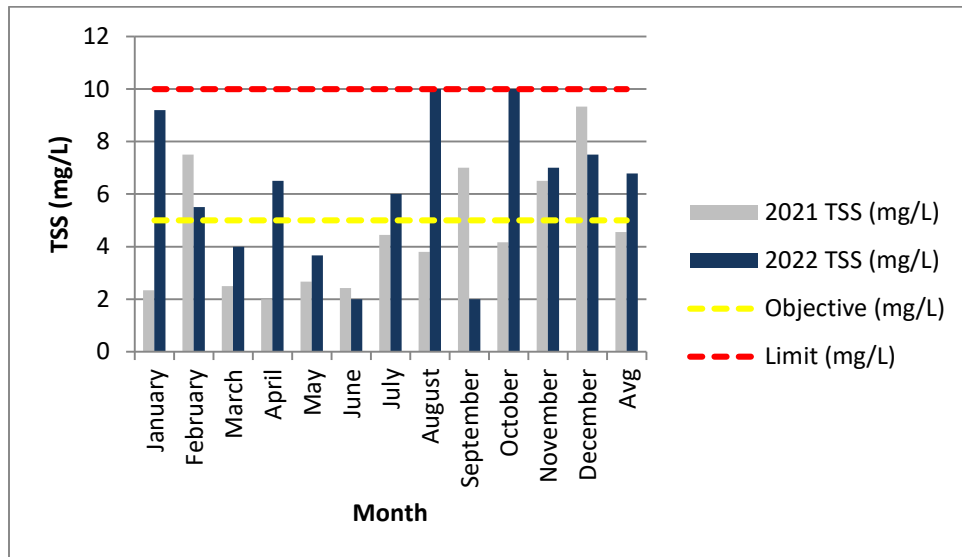
The annual average effluent CBOD₅ in 2022 was 2.79mg/L, which is an increase of 15.9% from 2021 (refer to Chart 9). The annual average loading of CBOD₅ was 1.24kg/d. Refer to Table 1 for a list of monthly average effluent limits and loading limits. The limits identified in the ECA for cBOD₅ were met in 2022.

Chart 9. The effluent monthly average concentration of CBOD₅ in 2022 compared to 2021 concentrations.



The annual average effluent Total Suspended Solids (TSS) for 2022 was 6.8mg/L, which is a 49% increase from 2021 (refer to Chart 10). The annual average loading of TSS in 2022 was 2.4kg/d. Refer to Table 1 for a list of monthly average effluent limits and loading limits. The limits identified in the ECA for TSS were met in 2022 however, the TSS objective was exceeded in eight out of the twelve months, this is discussed in detail in Table 3.

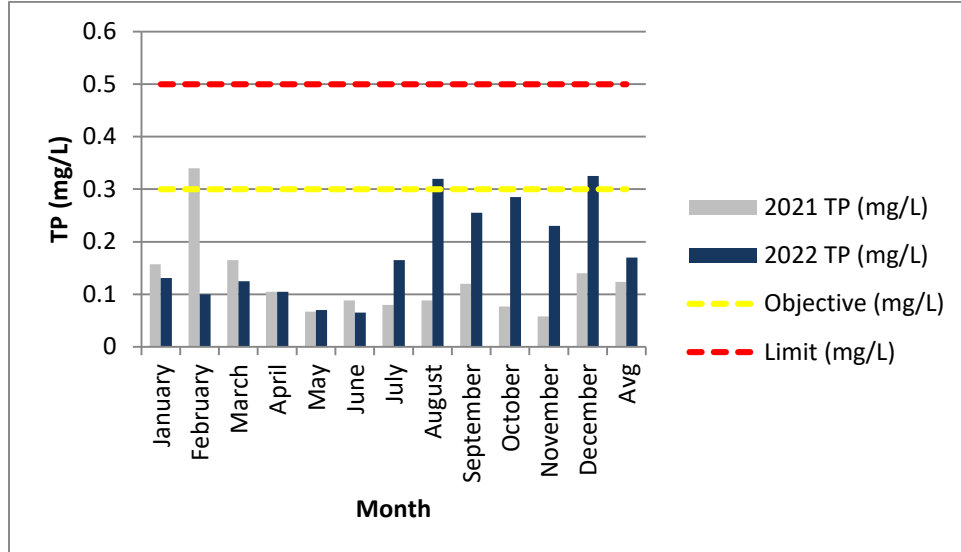
Chart 10. The effluent monthly average concentration of TSS in 2022 compared to 2021 concentrations.



The annual average effluent Total Phosphorus (TP) for 2022 was 0.17mg/L, which is a 37% increase from 2021 (refer to Chart 11). The annual average loading of TP in 2022 was 0.06kg/d. Refer to Table 1 for a list of monthly average effluent limits and loading limits. The limits

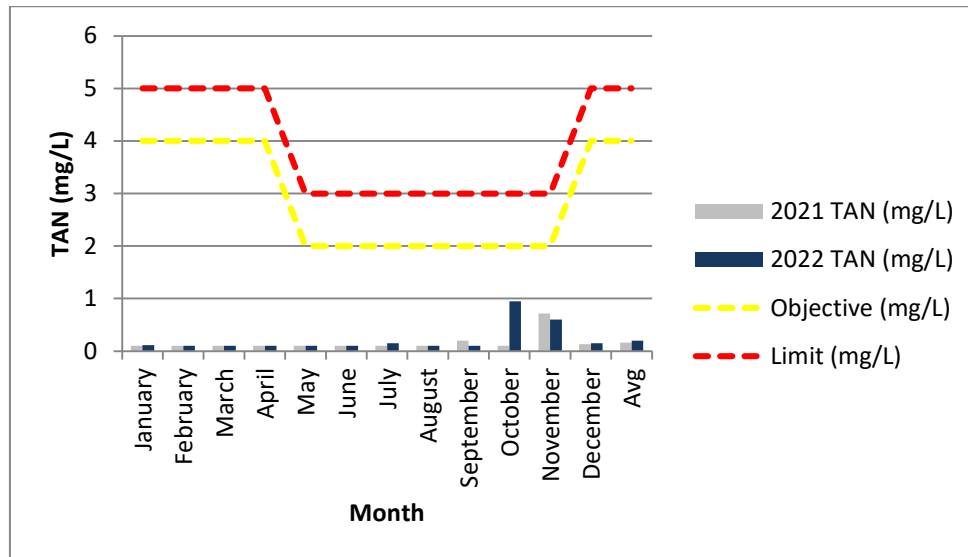
identified in the ECA for TP were met in 2022 however, there were two objective exceedances. These are discussed further in Table 3.

Chart 11. The effluent monthly average concentration of TP in 2022 compared to 2021 concentrations.



The annual average effluent Total Ammonia + Ammonium Nitrogen (TAN) for 2022 was 0.2mg/L, which is a 23% increase from 2021 (refer to Chart 12). The annual average loading of TAN in 2022 was 0.07kg/d. Refer to Table 1 for a list of monthly average effluent limits and loading limits. The limits identified in the ECA for TAN were met in 2022.

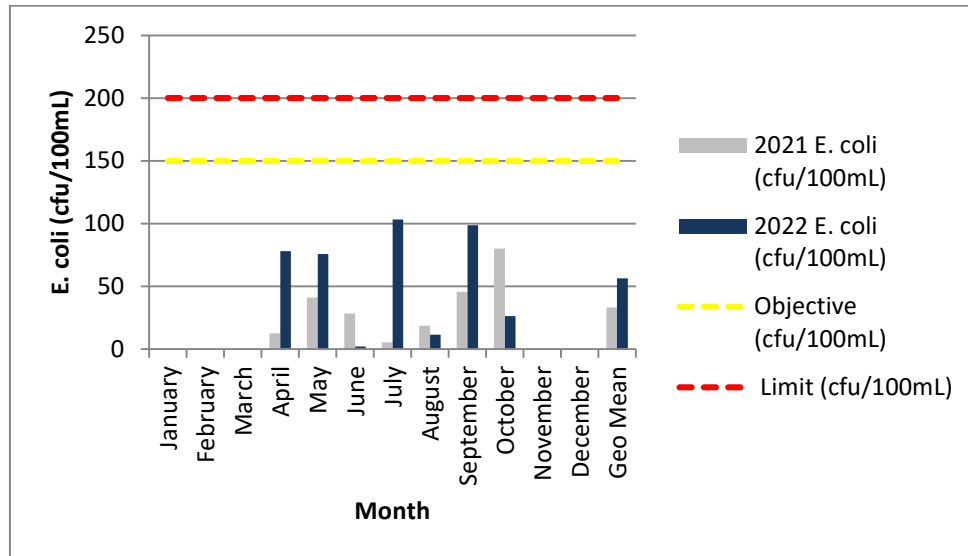
Chart 12. The effluent monthly average concentration of TAN in 2022 compared to 2021 concentrations.



The annual effluent geometric mean for E. coli was 55.5cfu/100mL in 2022, which is a 71% increase from 2021 (refer to Chart 13). E. coli is monitored only during the disinfection period

which is from April 15th to October 15th. Refer to Table 1 for a list of monthly geometric mean effluent concentrations. The limits identified in the ECA for E. coli were met in 2022.

Chart 13. The effluent monthly geometric mean concentration of E. coli in 2022 compared to 2021 concentrations.



The West Lorne WWTP provided effective treatment in 2022, complying with all the monthly average limit requirements set out in the Environmental Compliance Approval.

Effluent Objectives

The following table represents the monthly average effluent result ranges and the monthly average loading ranges compared to the monthly average objectives outlined in the Environmental Compliance Approval.

Table 2. Effluent objectives compared to monthly average concentrations and loadings.

Parameter	Effluent Objective (mg/L)	Monthly Average Effluent Ranges (mg/L)	Monthly Loading Objective (kg/day)	Monthly Average Loading Ranges (kg/d)
CBOD ₅	5	<2 – 7.0	4.5	0.38 – 4.23
Total Suspended Solids	5	<2 – 10	4.5	0.4 – 7.59
Total Phosphorus	0.3	0.07 – 0.33	0.27	0.04 – 0.11
Total (Ammonia + Ammonium) Nitrogen	2.0(a)	<0.1 – 0.95	1.8(a)	0.02 – 0.18
	4.0(b)	<0.1 – 0.60	3.6(b)	0.04 – 0.12
E. coli	150	2 – 103		
Dissolved Oxygen*	5	2.78 – 8.53		
Design Flow (m ³ /d)**	900	227 – 1,124		

Note: (a) objective applies during the non-freezing period May 1 to November 30
(b) objective applies during the freezing period December 1 to April 30

*Dissolved Oxygen objective is expressed as a minimum, where all other parameters are expressed as averages.

**design flow is average daily flows, not monthly average flows of the influent.

Discussion of Effluent Objectives

Table 3. Identification and best efforts made to achieve effluent objectives.

Parameter	Month	Comments/Best Efforts
Flow (influent)	February 17, 22. 23, May 4	These were all due to infiltration into the collection system during snow melt and/or rain events. Extra sampling was completed.
CBOD ₅	June	An increase in CBOD ₅ concentrations occurred in June due to the decanting of the lagoon.
TSS	January, February, April, July, August, October, November, December	In 2022, there were issues with the RAS/WAS rotork valve which required additional monitoring and manual operation. Adjustments were also made throughout the reporting year to alum dosages and careful monitoring was completed of the alkalinity concentrations.
TP	August, December	RAS/WAS valve issue, alum dosage adjustments needed

Section 4: Monitoring Schedule

Refer to Appendix B for the monitoring schedule for 2023. All changes and extra samples are documented on the sample calendars that are signed off by the operator.

Section 5: Operating Problems and Corrective Actions

High influent flows were experience four times during the 2022 reporting period compared to the thirty-two times the previous year. Extra sampling was completed which did not result in any limit exceedances.

In 2022, operational challenges were experienced with the RAS/WAS rotork valve which is automated to either return sludge to the aeration tanks or waste sludge to the lagoons. Due to supply issues, a replacement valve is expected to be installed in 2023. During 2022 with the rotork valve failure, Operations staff were required to manually operate the RAS and WAS valve thus leading to challenges in maintaining the effluent TSS below the ECA objective. It is expected that once the rotork valve is replaced and the RAS/WAS system is returned to automatic operation, TSS objectives will be met.

Section 6: Maintenance

Regular scheduled monthly preventative maintenance is assigned and monitored using the Workplace Management System (WMS) program. Refer to Appendix D for a schedule of work orders. The following is a summary of maintenance performed other than WMS work orders:

- air compressor repairs
- air compressor repairs
- RAS/WAS valve repair
- RAS/WAS pump repairs

Section 7: Effluent Quality Assurance

Effluent quality assurance is evaluated by monitoring parameters and changes throughout the plant processes. The operators monitor the aeration tank by performing weekly tests on the mixed liquor. These tests include dissolved oxygen, pH, temperature, settling tests, Mixed Liquor Suspended Solids (MLSS). As well, monitoring of the alum dosages, wasting volumes and Return Activated Sludge suspended solids is completed. Data collected from these tests provide information to the operator to make the appropriate adjustments in the treatment process and take corrective actions before the plant reaches its effluent limits.

Section 8: Calibration and Maintenance

Regular scheduled monthly preventative maintenance is assigned and monitored using the Workplace Management System program.

Annual maintenance on the generator was completed in July by Albert's Generator Service. Flow Metrix Technical Services Inc. performed the annual calibration on the flow meters in March and April, refer to Appendix C.

In house meters for pH and dissolved oxygen are calibrated by OCWA operators as per manufacturer's instructions.

Section 9: Design Objectives

The influent flow is currently at 46% of the rated capacity. The effluent objectives were achieved more than 50% of the time in 2022 and there is no increasing trend in deterioration of final effluent quality. Therefore, there is no assessment required to meet objectives identified in the ECA.

Section 10: Sludge Generation

The lagoon is used for sludge digestion and storage as per the Environmental Compliance Approval. The waste activated sludge (WAS) is transferred to the lagoon. The sludge settles on the bottom of the lagoon and the liquid is pumped to the head of the plant for treatment. In

2022, the total amount of WAS transferred to the lagoon was approximately 2,500m³. For 2023 this amount will be approximately the same. The lagoon has ample storage for the sludge and will not require cleanout in the coming year.

Section 11: Community Complaints

On May 18, 2022 a call was received in regards to a sewer back up on McGregor Street. Operator arrived on site and found that manhole located at dead end appeared to have slight back up. Manhole located at McGregor and Wood Street appeared to be okay and flowing slightly still. Operator suspected there to be an issue between the two manholes. Hurricane Hydrovac in to flush from manhole to manhole. Completed flushing of line and all systems appeared to be ok.

Section 12: Bypasses, Overflow, Spills, and Other Situations Outside Normal Operating Conditions

There were no bypasses, overflows or other situations outside normal operating conditions for the West Lorne WWTP or for the Pumping Station during 2022.

Section 13: Modifications to Sewage Works

There have been no modifications to sewage works under condition 10 of the ECA.

Section 14: Bypass/Overflow Elimination

There were no bypasses or overflow events for the West Lorne Wastewater Treatment Plant in 2022. There are no projects at this time planned in the sanitary sewer system.

Section 15: Proposed Works Completion and Commissioning

There were significant replacements that took place in 2019 as identified as proposed works in the current ECA. The effluent flow meter that was previously installed was commissioned in 2021.

Section 16: Summary

Overall the West Lorne Wastewater Treatment Plant provided effective treatment in 2022, with no exceedances with effluent limits.

APPENDIX A

Analytical Data

5526 WEST LORNE WASTEWATER TREATMENT PLANT 110002853

	1 / 2022	2/ 2022	3/ 2022	4/ 2022	5/ 2022	6/ 2022	7/ 2022	8/ 2022	9/ 2022	10/ 2022	11/ 2022	12/ 2022	<--Total-->	<--Avg-->	<--Max-->	<-Criteria-->
Flows																
Raw Flow: Total - Raw m³/d	15,753.18	16,152.02	20,087.52	18,380.90	16,335.38	10,694.83	8,793.32	9,724.19	8,527.32	8,240.94	8,286.18	10,061.82	151,037.60			
Raw Flow: Avg - Raw m³/d	508.17	576.86	647.98	612.70	526.95	356.49	283.66	313.68	284.24	265.84	276.21	324.57		413.80		900.00
Raw Flow: Max - Raw m³/d	703.17	1,123.89	864.99	803.36	1,069.32	520.12	460.84	559.48	329.14	299.95	334.86	777.52			1,123.89	2,700.00
Raw Flow: Count - Raw m³/d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			
Eff. Flow: Total - Effluent m³/d	25,564.35	13,137.93	12,237.46	17,116.91	26,811.47	18,121.08	6,634.00	5,885.37	6,012.46	5,722.01	6,183.59	8,103.51	151,530.14			
Eff. Flow: Avg - Effluent m³/d	824.66	469.21	394.76	570.56	864.89	604.04	214.00	189.85	200.42	184.58	206.12	261.40		415.15		900.00
Eff. Flow: Max - Effluent m³/d	1,451.41	780.61	738.89	1,695.10	1,962.53	1,747.65	393.73	567.38	393.89	242.34	267.19	683.16			1,962.53	2,700.00
Eff Flow: Count - Effluent m³/d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			
Carbonaceous Biochemical Oxygen Demand: CBOD																
Eff: Avg cBOD5 - Effluent mg/L	3.30	2.00	2.00	2.00	2.67	7.00	2.00	2.00	3.00	2.00	2.00	2.00		2.79	7.00	10
Eff: # of samples of cBOD5 - Effluent	10.00	2.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	34.00			
Loading: cBOD5 - Effluent kg/d	2.721	0.938	0.790	1.141	2.306	4.228	0.428	0.380	0.601	0.369	0.412	0.523		1.24	4.23	9
Biochemical Oxygen Demand: BOD5																
Raw: Avg BOD5 - Raw mg/L	52.50	108.50	70.50	83.50	97.00	56.00	86.00	370.50	97.50	45.00	96.33	119.50		106.90	370.50	
Raw: # of samples of BOD5 - Raw	2.00	2.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	26.00			
Total Suspended Solids: TSS																
Raw: Avg TSS - Raw mg/L	184.00	120.00	97.00	130.00	80.33	65.00	51.50	568.00	53.00	77.00	72.00	56.00		129.49	568.00	
Raw: # of samples of TSS - Raw	2.00	2.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	26.00			
Eff: Avg TSS - Effluent mg/L	9.20	5.50	4.00	6.50	3.67	2.00	6.00	10.00	2.00	10.00	7.00	7.50		6.79	10	10.00
Eff: # of samples of TSS - Effluent	10.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	34.00			
Loading: TSS - Effluent kg/d	7.587	2.581	1.579	3.709	3.171	1.208	1.284	1.899	0.401	1.846	1.443	1.961		2.39	7.59	9.000
Percent Removal: TSS - Raw %	95.00	95.42	95.88	95.00	95.44	96.92	88.35	98.24	96.23	87.01	90.28	86.61			98.24	
Total Phosphorus: TP																
Raw: Avg TP - Raw mg/L	1.26	3.31	2.70	1.53	1.51	1.61	3.90	6.51	3.68	2.92	4.53	3.53		3.08	6.51	
Raw: # of samples of TP - Raw	2.00	2.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	26.00			
Eff: Avg TP - Effluent mg/L	0.13	0.10	0.13	0.11	0.07	0.07	0.17	0.32	0.26	0.29	0.23	0.33		0.17	0.33	0.50
Eff: # of samples of TP - Effluent	10.00	2.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	34.00			
Loading: TP - Effluent kg/d	0.108	0.047	0.049	0.060	0.061	0.039	0.035	0.061	0.051	0.053	0.047	0.085		0.06	0.11	0.450
Percent Removal: TP - Raw %	89.56	96.98	95.37	93.14	95.37	95.96	95.76	95.08	93.06	90.22	94.92	90.79			96.98	
Nitrogen Series																
Raw: Avg TKN - Raw mg/L	13.35	21.00	25.05	15.25	17.10	19.95	37.35	54.75	42.50	28.20	44.03	37.15		29.64	54.75	
Raw: # of samples of TKN - Raw	2.00	2.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	26.00			
Eff: Avg TAN - Effluent mg/L	0.11	0.10	0.10	0.10	0.10	0.10	0.15	0.10	0.10	0.95	0.60	0.15		0.20	0.95	5 (3)
Eff: # of samples of TAN - Effluent	10.00	2.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	34.00			
Loading: TAN - Effluent kg/d	0.091	0.047	0.039	0.057	0.086	0.060	0.032	0.019	0.020	0.175	0.124	0.039		0.07	0.18	4.5 (2.7)
Eff: Avg NO3-N - Effluent mg/L	8.56	13.28	19.65	18.65	9.59	17.01	40.30	36.15	43.45	44.20	44.67	38.05		27.80	44.67	
Eff: # of samples of NO3-N - Effluent	10.00	2.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	34.00			
Eff: Avg NO2-N - Effluent mg/L	0.44	0.03	0.03	0.03	0.03	0.04	0.06	0.10	0.08	0.04	0.08	0.03		0.08	0.44	
Eff: # of samples of NO2-N - Effluent	10.00	2.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	34.00			
Disinfection																
Eff: GMD E. Coli - Effluent cfu/100mL	0.00	0.00	0.00	78.00	75.92	2.00	103.29	11.49	98.71	26.27	0.00	0.00				200.00
Eff: # of samples of E. Coli - Effluent	0.00	0.00	0.00	1.00	3.00	2.00	2.00	2.00	2.00	2.00	0.00	0.00	14.00			

APPENDIX B

Monitoring Schedule



Sample Schedule 2023 5526 West Lorne WWTP

Issued: 2022-12-06
Rev.#: 0
Pages: 1 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

January 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2 STAT	3	4 IH Full	5	6 IH Reduced	7
8	9 IH Reduced	10	11 IH Full Raw & Effluent Samples	12	13 IH Reduced	14
15	16 IH Reduced	17	18 IH Full	19	20 IH Reduced	21
22	23 IH Reduced	24	25 IH Full Raw & Effluent Samples	26	27 IH Reduced	28
29	30 IH Reduced	31				

IH (In House) Full:

Raw 24hr Composite (pH, Alk)
Aeration (Set Test, MLSS, MLVSS, DO, pH, Temp.)
RAS (SS)
Lagoon Decant (TP, NH₃+NH₄, pH, DO)
Effluent 24hr Composite (TP, NH₃+NH₄, Alk, SS); Grab (pH, DO, Temp.)
Receiving Stream (pH, Temp.)

IH (In House) Reduced:

Aeration (Set Test, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH₃+NH₄)
24hr Composite (BOD₅, SS, TP, TKN, Alkalinity)
24hr Composite (cBOD₅, SS, NH₃+NH₄, TKN, NO₃, NO₂, TP, Alkalinity, pH)
Grab (E. coli—Apr 15 to Oct 15, DO, Temp.)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

Date	Revision #	Reason for Revision	Revision By
2022-12-06	0	Create Schedule	Terri-Lynn Thomson



Sample Schedule 2023

5526 West Lorne WWTP

Issued: 2022-12-06
Rev.#: 0
Pages: 2 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

February 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 IH Full	2	3 IH Reduced	4
5	6 IH Reduced	7	8 IH Full Raw & Effluent Samples	9	10 IH Reduced	11
12	13 IH Reduced	14	15 IH Full	16	17 IH Reduced	18
19	20 STAT	21	22 IH Full Raw & Effluent Samples	23	24 IH Reduced	25
26	27 IH Reduced	28				

IH (In House) Full:

Raw 24hr Composite (pH, Alk)
Aeration (Set Test, MLSS, MLVSS, DO, pH, Temp.)
RAS (SS)
Lagoon Decant (TP, NH₃+NH₄, pH, DO)
Effluent 24hr Composite (TP, NH₃+NH₄, Alk, SS); Grab (pH, DO, Temp.)
Receiving Stream (pH, Temp.)

IH (In House) Reduced:

Aeration (Set Test, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH₃+NH₄)

Raw Samples:

24hr Composite (BOD₅, SS, TP, TKN, Alkalinity)

Effluent Samples:

24hr Composite (cBOD₅, SS, NH₃+NH₄, TKN, NO₃, NO₂, TP, Alkalinity, pH)
Grab (E. coli—Apr 15 to Oct 15, DO, Temp.)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

Date	Revision #	Reason for Revision	Revision By
2022-12-06	0	Create Schedule	Terri-Lynn Thomson



Sample Schedule 2023 5526 West Lorne WWTP

Issued: 2022-12-06
Rev.#: 0
Pages: 3 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

March 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 IH Full	2	3 IH Reduced	4
5	6 IH Reduced	7	8 IH Full Raw & Effluent Samples	9	10 IH Reduced	11
12	13 IH Reduced	14	15 IH Full	16	17 IH Reduced	18
19	20 IH Reduced	21	22 IH Full Raw & Effluent Samples	23	24 IH Reduced	25
26	27 IH Reduced	28	29 IH Full	30	31 IH Reduced	

IH (In House) Full:

Raw 24hr Composite (pH, Alk)
Aeration (Set Test, MLSS, MLVSS, DO, pH, Temp.)
RAS (SS)
Lagoon Decant (TP, NH₃+NH₄, pH, DO)
Effluent 24hr Composite (TP, NH₃+NH₄, Alk, SS); Grab (pH, DO, Temp.)
Receiving Stream (pH, Temp.)

IH (In House) Reduced:

Aeration (Set Test, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH₃+NH₄)
24hr Composite (BOD₅, SS, TP, TKN, Alkalinity)
24hr Composite (cBOD₅, SS, NH₃+NH₄, TKN, NO₃, NO₂, TP, Alkalinity, pH)
Grab (E. coli—Apr 15 to Oct 15, DO, Temp.)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

Date	Revision #	Reason for Revision	Revision By
2022-12-06	0	Create Schedule	Terri-Lynn Thomson



Sample Schedule 2023 5526 West Lorne WWTP

Issued: 2022-12-06
Rev.#: 0
Pages: 4 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

April 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3 IH Reduced	4	5 IH Full Raw & Effluent Samples	6	7 STAT	8
9	10 STAT	11	12 IH Full	13	14 IH Reduced	15
16	17 IH Reduced	18	19 IH Full Raw & Effluent Samples	20	21 IH Reduced	22
23	24 IH Reduced	25	26 IH Full	27	28 IH Reduced	29
30						

IH (In House) Full:

Raw 24hr Composite (pH, Alk)
Aeration (Set Test, MLSS, MLVSS, DO, pH, Temp.)
RAS (SS)
Lagoon Decant (TP, NH₃+NH₄, pH, DO)
Effluent 24hr Composite (TP, NH₃+NH₄, Alk, SS); Grab (pH, DO, Temp.)
Receiving Stream (pH, Temp.)

IH (In House) Reduced:

Aeration (Set Test, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH₃+NH₄)

Raw Samples:

24hr Composite (BOD₅, SS, TP, TKN, Alkalinity)

Effluent Samples:

24hr Composite (cBOD₅, SS, NH₃+NH₄, TKN, NO₃, NO₂, TP, Alkalinity, pH)
Grab (E. coli—Apr 15 to Oct 15, DO, Temp.)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

Date	Revision #	Reason for Revision	Revision By
2022-12-06	0	Create Schedule	Terri-Lynn Thomson



Sample Schedule 2023 5526 West Lorne WWTP

Issued: 2022-12-06
Rev.#: 0
Pages: 5 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

May 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 IH Reduced	2	3 IH Full Raw & Effluent Samples	4	5 IH Reduced	6
7	8 IH Reduced	9	10 IH Full	11	12 IH Reduced	13
14	15 IH Reduced	16	17 IH Full Raw & Effluent Samples	18	19 IH Reduced	20
21	22 STAT	23	24 IH Full	25	26 IH Reduced	27
28	29 IH Reduced	30	31 IH Full Raw & Effluent Samples			

IH (In House) Full:

Raw 24hr Composite (pH, Alk)
Aeration (Set Test, MLSS, MLVSS, DO, pH, Temp.)
RAS (SS)
Lagoon Decant (TP, NH₃+NH₄, pH, DO)
Effluent 24hr Composite (TP, NH₃+NH₄, Alk, SS); Grab (pH, DO, Temp.)
Receiving Stream (pH, Temp.)

IH (In House) Reduced:

Aeration (Set Test, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH₃+NH₄)
24hr Composite (BOD₅, SS, TP, TKN, Alkalinity)
24hr Composite (cBOD₅, SS, NH₃+NH₄, TKN, NO₃, NO₂, TP, Alkalinity, pH)
Grab (E. coli—Apr 15 to Oct 15, DO, Temp.)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

Date	Revision #	Reason for Revision	Revision By
2022-12-06	0	Create Schedule	Terri-Lynn Thomson



Sample Schedule 2023 5526 West Lorne WWTP

Issued: 2022-12-06
Rev.#: 0
Pages: 6 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

June 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2 IH Reduced	3
4	5 IH Reduced	6	7 IH Full	8	9 IH Reduced	10
11	12 IH Reduced	13	14 IH Full Raw & Effluent Samples	15	16 IH Reduced	17
18	19 IH Reduced	20	21 IH Full	22	23 IH Reduced	24
25	26 IH Reduced	27	28 IH Full Raw & Effluent Samples	29	30 IH Reduced	

IH (In House) Full:

Raw 24hr Composite (pH, Alk)
Aeration (Set Test, MLSS, MLVSS, DO, pH, Temp.)
RAS (SS)
Lagoon Decant (TP, NH₃+NH₄, pH, DO)
Effluent 24hr Composite (TP, NH₃+NH₄, Alk, SS); Grab (pH, DO, Temp.)
Receiving Stream (pH, Temp.)

IH (In House) Reduced:

Aeration (Set Test, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH₃+NH₄)

Raw Samples:

24hr Composite (BOD₅, SS, TP, TKN, Alkalinity)

Effluent Samples:

24hr Composite (cBOD₅, SS, NH₃+NH₄, TKN, NO₃, NO₂, TP, Alkalinity, pH)
Grab (E. coli—Apr 15 to Oct 15, DO, Temp.)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

Date	Revision #	Reason for Revision	Revision By
2022-12-06	0	Create Schedule	Terri-Lynn Thomson



Sample Schedule 2023 5526 West Lorne WWTP

Issued: 2022-12-06
Rev.#: 0
Pages: 7 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

July 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3 STAT	4	5 IH Full	6	7 IH Reduced	8
9	10 IH Reduced	11	12 IH Full Raw & Effluent Samples	13	14 IH Reduced	15
16	17 IH Reduced	18	19 IH Full	20	21 IH Reduced	22
23	24 IH Reduced	25	26 IH Full Raw & Effluent Samples	27	28 IH Reduced	29
30	31 IH Reduced					

IH (In House) Full:

Raw 24hr Composite (pH, Alk)
Aeration (Set Test, MLSS, MLVSS, DO, pH, Temp.)
RAS (SS)
Lagoon Decant (TP, NH3+NH4, pH, DO)
Effluent 24hr Composite (TP, NH3+NH4, Alk, SS); Grab (pH, DO, Temp.)
Receiving Stream (pH, Temp.)

IH (In House) Reduced:

Aeration (Set Test, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH3+NH4)

Raw Samples:

24hr Composite (BOD5, SS, TP, TKN, Alkalinity)

Effluent Samples:

24hr Composite (cBOD5, SS, NH3+NH4, TKN, NO3, NO2, TP, Alkalinity, pH)
Grab (E. coli—Apr 15 to Oct 15, DO, Temp.)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

Date	Revision #	Reason for Revision	Revision By
2022-12-06	0	Create Schedule	Terri-Lynn Thomson



Sample Schedule 2023 5526 West Lorne WWTP

Issued: 2022-12-06
Rev.#: 0
Pages: 8 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

August 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2 IH Full	3	4 IH Reduced	5
6	7 STAT	8	9 IH Full Raw & Effluent Samples	10	11 IH Reduced	12
13	14 IH Reduced	15	16 IH Full	17	18 IH Reduced	19
20	21 IH Reduced	22	23 IH Full Raw & Effluent Samples	24	25 IH Reduced	26
27	28 IH Reduced	29	30 IH Full	31		

IH (In House) Full:

Raw 24hr Composite (pH, Alk)
Aeration (Set Test, MLSS, MLVSS, DO, pH, Temp.)
RAS (SS)
Lagoon Decant (TP, NH₃+NH₄, pH, DO)
Effluent 24hr Composite (TP, NH₃+NH₄, Alk, SS); Grab (pH, DO, Temp.)
Receiving Stream (pH, Temp.)

IH (In House) Reduced:

Aeration (Set Test, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH₃+NH₄)

Raw Samples:

24hr Composite (BOD₅, SS, TP, TKN, Alkalinity)

Effluent Samples:

24hr Composite (cBOD₅, SS, NH₃+NH₄, TKN, NO₃, NO₂, TP, Alkalinity, pH)
Grab (E. coli—Apr 15 to Oct 15, DO, Temp.)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

Date	Revision #	Reason for Revision	Revision By
2022-12-06	0	Create Schedule	Terri-Lynn Thomson



Sample Schedule 2023 5526 West Lorne WWTP

Issued: 2022-12-06
Rev.#: 0
Pages: 9 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

September 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1 IH Reduced	2
3	4 STAT	5	6 IH Full Raw & Effluent Samples	7	8 IH Reduced	9
10	11 IH Reduced	12	13 IH Full	14	15 IH Reduced	16
17	18 IH Reduced	19	20 IH Full Raw & Effluent Samples	21	22 IH Reduced	23
24	25 IH Reduced	26	27 IH Full	28	29 IH Reduced	30

IH (In House) Full:

Raw 24hr Composite (pH, Alk)
Aeration (Set Test, MLSS, MLVSS, DO, pH, Temp.)
RAS (SS)
Lagoon Decant (TP, NH₃+NH₄, pH, DO)
Effluent 24hr Composite (TP, NH₃+NH₄, Alk, SS); Grab (pH, DO, Temp.)
Receiving Stream (pH, Temp.)

IH (In House) Reduced:

Aeration (Set Test, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH₃+NH₄)

Raw Samples:

24hr Composite (BOD₅, SS, TP, TKN, Alkalinity)

Effluent Samples:

24hr Composite (cBOD₅, SS, NH₃+NH₄, TKN, NO₃, NO₂, TP, Alkalinity, pH)
Grab (E. coli—Apr 15 to Oct 15, DO, Temp.)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

Date	Revision #	Reason for Revision	Revision By
2022-12-06	0	Create Schedule	Terri-Lynn Thomson



Sample Schedule 2023 5526 West Lorne WWTP

Issued: 2022-12-06
Rev.#: 0
Pages: 10 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

October 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2 IH Reduced	3	4 IH Full Raw & Effluent Samples	5	6 IH Reduced	7
8	9 STAT	10	11 IH Full	12	13 IH Reduced	14
15	16 IH Reduced	17	18 IH Full Raw & Effluent Samples	19	20 IH Reduced	21
22	23 IH Reduced	24	25 IH Full	26	27 IH Reduced	28
29	30 IH Reduced	31				

IH (In House) Full:

Raw 24hr Composite (pH, Alk)
Aeration (Set Test, MLSS, MLVSS, DO, pH, Temp.)
RAS (SS)
Lagoon Decant (TP, NH₃+NH₄, pH, DO)
Effluent 24hr Composite (TP, NH₃+NH₄, Alk, SS); Grab (pH, DO, Temp.)
Receiving Stream (pH, Temp.)

IH (In House) Reduced:

Aeration (Set Test, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH₃+NH₄)
24hr Composite (BOD₅, SS, TP, TKN, Alkalinity)
24hr Composite (cBOD₅, SS, NH₃+NH₄, TKN, NO₃, NO₂, TP, Alkalinity, pH)
Grab (E. coli—Apr 15 to Oct 15, DO, Temp.)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

Date	Revision #	Reason for Revision	Revision By
2022-12-06	0	Create Schedule	Terri-Lynn Thomson



Sample Schedule 2023 5526 West Lorne WWTP

Issued: 2022-12-06
Rev.#: 0
Pages: 11 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

November 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 IH Full Raw & Effluent Samples	2	3 IH Reduced	4
5	6 IH Reduced	7	8 IH Full	9	10 IH Reduced	11
12	13 STAT	14	15 IH Full Raw & Effluent Samples	16	17 IH Reduced	18
19	20 IH Reduced	21	22 IH Full	23	24 IH Reduced	25
26	27 IH Reduced	28	29 IH Full Raw & Effluent Samples	30		

IH (In House) Full:

Raw 24hr Composite (pH, Alk)
Aeration (Set Test, MLSS, MLVSS, DO, pH, Temp.)
RAS (SS)
Lagoon Decant (TP, NH₃+NH₄, pH, DO)
Effluent 24hr Composite (TP, NH₃+NH₄, Alk, SS); Grab (pH, DO, Temp.)
Receiving Stream (pH, Temp.)

IH (In House) Reduced:

Aeration (Set Test, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH₃+NH₄)
24hr Composite (BOD₅, SS, TP, TKN, Alkalinity)
24hr Composite (cBOD₅, SS, NH₃+NH₄, TKN, NO₃, NO₂, TP, Alkalinity, pH)
Grab (E. coli—Apr 15 to Oct 15, DO, Temp.)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

Date	Revision #	Reason for Revision	Revision By
2022-12-06	0	Create Schedule	Terri-Lynn Thomson



Sample Schedule 2023 5526 West Lorne WWTP

Issued: 2022-12-06
Rev.#: 0
Pages: 12 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

December 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1 IH Reduced	2
3	4 IH Reduced	5	6 IH Full	7	8 IH Reduced	9
10	11 IH Reduced	12	13 IH Full Raw & Effluent Samples	14	15 IH Reduced	16
17	18 IH Reduced	19	20 IH Full	21	22 IH Reduced	23
24	25 STAT	26 STAT	27 IH Full Raw & Effluent Samples	28	29 IH Reduced	30
31						

IH (In House) Full:

Raw 24hr Composite (pH, Alk)
Aeration (Set Test, MLSS, MLVSS, DO, pH, Temp.)
RAS (SS)
Lagoon Decant (TP, NH₃+NH₄, pH, DO)
Effluent 24hr Composite (TP, NH₃+NH₄, Alk, SS); Grab (pH, DO, Temp.)
Receiving Stream (pH, Temp.)

IH (In House) Reduced:

Aeration (Set Test, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH₃+NH₄)

Raw Samples:

24hr Composite (BOD₅, SS, TP, TKN, Alkalinity)

Effluent Samples:

24hr Composite (cBOD₅, SS, NH₃+NH₄, TKN, NO₃, NO₂, TP, Alkalinity, pH)
Grab (E. coli—Apr 15 to Oct 15, DO, Temp.)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

Date	Revision #	Reason for Revision	Revision By
2022-12-06	0	Create Schedule	Terri-Lynn Thomson

APPENDIX C

Flow Meter Verification



AS FOUND CERTIFICATION
FORWARD FLOW DIRECTION
PASS

CLIENT DETAIL

CUSTOMER OCWA - West Elgin Middlesex
CONTACT Cindy Sigurdson
Compliance Manager
9210 Graham Road, West Lorne
c: 226-377-3563
e: csigurdson@ocwa.com

EQUIPMENT DETAIL

[MUT] MANUFACTURER ROSEMOUNT
MODEL 8712EM
CONVERTER SERIAL NUMBER 14974744
FUSE Filter Building Panel WLN1 - Breaker CB5140

PLANT ID West Lorne WWTP
METER ID Influent Raw Meter
FIT ID FIT-170
CLIENT TAG OCWA# 123540
OTHER ORG# 5526
GPS COORDINATES N42 35.162 W081 35.77

VERIFICATION DATE March 30, 2022
CAL. FREQUENCY Annual
CAL. DUE DATE March, 2023

VER. BY - FM Paris Machuk

Quality Management Standards Information -
Reference equipment and instrumentation used to
conduct this verification test is found in our AC-
QMS document at the time this test was

PROGRAMMING PARAMETERS

DIAMETER (DN) mm 200
F.S. FLOW - MAG LPS n/a
F.S. RANGE - O/P LPS 60.000
TUBE CAL. FACTOR 0956005409440005

FORWARD TOTALIZER INFORMATION

AS FOUND 439236 M3
AS LEFT 439278 M3
DIFFERENCE 42 M3

TEST CRITERIA

AS FOUND CERTIFICATION TEST Yes
FORWARD FLOW DIRECTION Yes
ALLOWABLE [%] ERROR 5

COMPONENTS TESTED

CONVERTER DISPLAY Yes
mA OUTPUT Yes
TOTALIZER Yes
ACCURACY BASED ON [% o.r.] Yes
ERROR DOCUMENTED IN THIS REPORT; BASED ON % o.r.

VERIFICATOR CAL. FACTOR 1000015010000000
[16-digits]

FLOW TUBE SIMULATION

		0
DISPLAY		0.00
MUT Reading		0.00
MUT % Error		n/a
mA OUTPUT		4.000
MUT Reading	4 mA	3.997
MUT % Error	20 mA	-0.08
TOTALIZER		
TEST Accumulation		
TIME		
CALC. Velocity		
% Error		

3	10	30	ft/s
3.00	10.00	30.00	ft/s
3.00	10.00	30.01	ft/s
0.00	0.00	0.03	%
5.600	9.333	20.000	mA
5.596	9.330	19.997	mA
-0.07	-0.04	-0.02	%
		30.00	ft/s
		2008.00	ft
		66.80	seconds
		30.06	ft/s
		0.20	%

QUALITY MANAGEMENT STANDARDS INFO.

[QMS] INFORMATION	IDENT.	ID #
[REFERENCE] FTS	ROS	1
PROCESS METER	DMM	11
ANALOG METER	AM	N/A
STOP WATCH	SW	Yes

*All values are for "As Found" values.

COMMENTS

RESULTS

TEST	AVG % o.r.	PASS FAIL
DISPLAY	0.01	PASS
mA OUTPUT	-0.04	PASS
TOTALIZER	0.20	PASS

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.



v-Notch Weir

Verification/Calibration Report

AS FOUND CERTIFICATION

PASS

CLIENT DETAIL

CUSTOMER OCWA - West Elgin Middlesex
CONTACT Cindy Sigurdson
Compliance Manager
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EQUIPMENT DETAIL

[MUT] MANUFACTURER Pulsar
MODEL FlowCERT
CONVERTER SERIAL NUMBER 323205

PLANT ID West Lorne Pollution Control Plant
METER ID Effluent Flow Meter
FIT ID N/A
CLIENT TAG OCWA# Not Assigned
OTHER ORG# 5526
GPS COORDINATES N42 35.162 W081 35.77

VERIFICATION DATE April 27, 2022
CAL. FREQUENCY Annual
CAL. DUE DATE April, 2023

VER. BY - FM Paris Machuk

Quality Management Standards Information -
Reference equipment and instrumentation used to
conduct this verification test is found in our AC-
QMS document at the time this test was

PROGRAMMING PARAMETERS

NOTCH ANGLE (φ)	inches	90
EMPTY DISTANCE, TX to notch	m	0.558
TRANSDUCER (TX), to sump flc	m	1.082
SUMP LEVEL, zero flow	m	0.575
MAX. HEAD	m	0.238
BLANKING DISTANCE	m	0.000
DEAD ZONE	m	0.320
MAX. FLOW	LPS	38.1
F.S. RANGE - O/P	LPS	38.0

TOTALIZER

AS FOUND	84978015	LITER
AS LEFT	84987112	LITER
DIFFERENCE	9097	LITER

TEST CRITERIA

AS FOUND CERTIFICATION TEST	Yes
ALLOWABLE [%] ERROR	5

COMPONENTS TESTED

CONVERTER DISPLAY	yes
mA OUTPUT	yes
TOTALIZER	yes
ACCURACY BASED ON [% o.r.]	yes

Ultrasonic sensor installed to ensure full scale flow condition

ERROR DOCUMENTED IN THIS REPORT; BASED ON % o.r.

AS FOUND TEST RESULTS

			0.0	2.0	11.4	31.5	64.7	% F.S. Range
			0.000	0.050	0.100	0.150	0.200	m
REF. FLOW RATE			0.00	0.77	4.36	12.03	24.69	LPS
MUT [Reading]			0.00	0.80	4.45	12.37	25.46	LPS
MUT [Difference]			0.00	0.03	0.09	0.34	0.77	LPS
MUT [% Error]			#DIV/0!	3.7	2.0	2.9	3.1	%
mA OUTPUT			4.000	4.324	5.831	9.046	14.357	mA
MUT [Reading]	min. 4.000	mA	3.980	4.316	5.860	9.125	14.581	mA
MUT [Difference]	max. 20.000	mA	-0.020	-0.008	0.029	0.079	0.224	mA
MUT [% Error]			-0.50	-0.18	0.50	0.88	1.56	%
TOTALIZER - REF. FLOW RATE							24.686	LPS
TOTALIZER [MUT]							1727	LITER
TEST TIME							67.95	SECONDS
CALC. TOTALIZER							1677.427	LITER
ERROR							2.87	%

COMMENTS

QUALITY MANAGEMENT STANDARDS INFO.

[QMS] INFORMATION	IDENT.	ID #
[REFERENCE] LEVEL	Sim. BOARD	Yes
PROCESS METER	PM	11
STOP WATCH	SW	Yes

RESULTS

TEST	AVG % o.r.	PASS FAIL
DISPLAY	2.92	PASS
mA OUTPUT	0.45	PASS
TOTALIZER	2.87	PASS

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.

APPENDIX D

Work Order Schedule

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2604481	0000123216	PANEL ALARM/ DIALER PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	1/1/22 12:00 AM	1/20/22 02:14 PM	1/20/22 02:14 PM	-Completed during generator tests
2604488	0000123533	PANEL ALARM/ DIALER 01 PS	5526, West Lorne Sewage Pumping Stn	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	1/1/22 12:00 AM	1/20/22 12:35 PM	1/20/22 12:35 PM	-Completed checks during generator test.
2604927	0000123442	ENGINE DIESEL STAND-BY PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	1/1/22 12:00 AM	1/20/22 02:15 PM	1/20/22 02:15 PM	-Completed under load.
2604953	0000123677	ENGINE DIESEL STAND-BY LIFE STATION	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	1/1/22 12:00 AM	1/20/22 12:38 PM	1/20/22 12:38 PM	-Completed run test and transfer. Started hard due to cold weather but was able to start on its own.
2605409	0000123567	UV LIGHT EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Light Insp (1m) - 5526	CLOSE	1/1/22 12:00 AM	1/11/22 03:04 PM	1/11/22 03:04 PM	-Out of service for season
2605462			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Building & Grounds Maintenance (1m) - 5526	CLOSE	1/1/22 12:00 AM	2/28/22 08:22 AM	2/28/22 08:22 AM	Building & Grounds Maintenance (1m) - 5526 -Completed as per plan
2605677			5526, West Lorne WWTF	OPER	Inspection	1	YEARS	Daily O&M Activities West Lorne WWTP (1y) - 5526	COMP	1/1/22 12:00 AM	1/4/23 12:54 PM	1/4/23 12:54 PM	- scope of everyday activites.
2606394			5526, West Lorne WWTF	PM	Health and Safety	1	YEARS	Lifting Device Insp Route (1y) - 5526	CLOSE	1/1/22 12:00 AM	4/29/22 02:07 PM	4/29/22 02:07 PM	Lifting Device Insp Route (1y) - 5526 - Completed as per plan by Kone Cranes on April 25th
2620278			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Analyzer DO Route Inspection (1m) 5526	CLOSE	1/1/22 12:00 AM	1/21/22 09:16 AM	1/21/22 09:16 AM	- East DO = [11.92] mg/l vs online probe at[10.0 and 10.7] mg/l DO = [11.6] mg/l vs online probe at[9.0 and 9.9] mg/l Cleaned probes and values started to increase.
2620280	0000334503	BLOWER POSITIVE DISPLACEMENT B101	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Blower B101 Aeration Insp/Service (1y) - 5526	CLOSE	1/1/22 12:00 AM	5/30/22 11:33 AM	5/30/22 11:33 AM	- complete
2620285	0000334505	BLOWER POSITIVE DISPLACEMENT B102	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Blower B102 Aeration Insp/Service (1y) - 5526	CLOSE	1/1/22 12:00 AM	5/30/22 11:34 AM	5/30/22 11:34 AM	- complete

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2620290			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Drive VFD Insp/Service (1m) 5526	CLOSE	1/1/22 12:00 AM	1/20/22 02:20 PM	1/20/22 02:20 PM	-Blower 100 and 101 off line 102 BFF working good
2620304	0000334543	TANK PROCESS CLARIFIER EAST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier East Insp/ Service (1m) - 5526	CLOSE	1/1/22 12:00 AM	1/21/22 09:18 AM	1/21/22 09:18 AM	-Hosed and cleared foam, tested ras/ was pumps operations.
2620307	0000334544	TANK PROCESS CLARIFIER WEST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier West Insp/ Service (1m) - 5526	CLOSE	1/1/22 12:00 AM	1/21/22 09:20 AM	1/21/22 09:20 AM	-Cleared scum and hosed down. Verified proper operation or ras/was pumps and chain drives.
2620310			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	Valve Blower Damper (1m) - 5526	CLOSE	1/1/22 12:00 AM	1/20/22 02:17 PM	1/20/22 02:17 PM	-Completed weekly
2620445	0000334501	BLOWER POSITIVE DISPLACEMENT B100 AERATION	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Blower B100 Aeration Insp/Service (1y) - 5526	CLOSE	1/1/22 12:00 AM	5/30/22 11:31 AM	5/30/22 11:31 AM	- complete
2640124			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Sewage Plant Sample TSS	CLOSE		1/31/22 09:58 AM	1/31/22 10:01 AM	West Lorne Sewage Plant Sample TSS - Onsite To Sample As Per OIC ORO Request Due To Higher Than Normal TSS Trying To Meet Objective.
2654484	0000123216	PANEL ALARM/ DIALER PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	2/1/22 12:00 AM	2/28/22 08:24 AM	2/28/22 08:24 AM	Alarm Dialer Test/Insp (1m) - 5526 -Completed on Feb 25th, all dialer and alarms are operating normally
2654491	0000123533	PANEL ALARM/ DIALER 01 PS	5526, West Lorne Sewage Pumping Stn	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	2/1/22 12:00 AM	2/28/22 08:27 AM	2/28/22 08:27 AM	Alarm Dialer Test/Insp (1m) - 5526 -Completed on February 25th, alarms and dialer operated normally at time
2654909	0000123442	ENGINE DIESEL STAND-BY PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	2/1/22 12:00 AM	2/28/22 08:28 AM	2/28/22 08:28 AM	Engine Diesel Test/Insp (1m) - 5526 -operated generator for 1 hour on February 24th, all systems appeared okay
2654928	0000123677	ENGINE DIESEL STAND-BY LIFE STATION	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	2/1/22 12:00 AM	2/28/22 08:34 AM	2/28/22 08:34 AM	Engine Diesel Test/Insp (1m) - 5526 -Operated generator for 1 hour and completed monthly inspection on February 24th

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2655371	0000123567	UV LIGHT EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Light Insp (1m) - 5526	CLOSE	2/1/22 12:00 AM	3/7/22 08:05 AM	3/7/22 08:05 AM	UV Light Insp (1m) - 5526 - Completed as per plan
2655424			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Building & Grounds Maintenance (1m) - 5526	CLOSE	2/1/22 12:00 AM	3/7/22 08:05 AM	3/7/22 08:05 AM	Building & Grounds Maintenance (1m) - 5526 - Completed as per plan
2656356	0000123549	SEPARATOR GRIT CYCLONE	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Separator Grit Cyclone Insp/Service (1y) - 5526	CLOSE	2/1/22 12:00 AM	5/30/22 11:32 AM	5/30/22 11:32 AM	- complete
2665322			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Analyzer DO Route Inspection (1m) 5526	CLOSE	2/1/22 12:00 AM	3/7/22 08:06 AM	3/7/22 08:06 AM	Analyzer DO Route Inspection (1m) 5526 - Completed as per plan
2665324			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Drive VFD Insp/Service (1m) 5526	CLOSE	2/1/22 12:00 AM	3/7/22 08:07 AM	3/7/22 08:07 AM	Drive VFD Insp/Service (1m) 5526 - Completed as per plan
2665338	0000334531	ANALYZER GAS AIC 101 MONITOR	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	6	MONTHS	Analyzer Gas Insp/Service (6m) - 5526	CLOSE	2/1/22 12:00 AM	5/30/22 11:33 AM	5/30/22 11:33 AM	- complete
2665342	0000334543	TANK PROCESS CLARIFIER EAST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier East Insp/Service (1m) - 5526	CLOSE	2/1/22 12:00 AM	3/7/22 08:09 AM	3/7/22 08:09 AM	Tank Process Clarifier East Insp/Service (1m) - 5526 - Completed as per plan
2665345	0000334544	TANK PROCESS CLARIFIER WEST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier West Insp/Service (1m) - 5526	CLOSE	2/1/22 12:00 AM	3/7/22 08:10 AM	3/7/22 08:10 AM	Tank Process Clarifier West Insp/Service (1m) - 5526 - Completed as per plan
2665348			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	Valve Blower Damper (1m) - 5526	CLOSE	2/1/22 12:00 AM	3/7/22 08:08 AM	3/7/22 08:08 AM	Valve Blower Damper (1m) - 5526 - Completed as per plan

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2676679			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne WWTP Gateway Communication Alarm	CLOSE		2/3/22 07:55 PM	2/3/22 10:30 PM	--Received alarm at 1955 for gateway communication alarm. Called dialer to acknowledge alarm. En route to site. -Arrived on site at 2058, disarmed dialer and restarted SCADA computer. -SCADA computer reset, armed dialer. All appears OK on SCADA. -Completed facility walk through. Confirmed alum is dosing, blower is on, RAS pump on and rotating duty, clarifier scraper working and air compressor is on. All operating as intended. -Off site at 2120 - • 105kms
2680312			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne WWTP Network Gateway Alarm (5526)	CLOSE		2/18/22 09:34 PM	2/18/22 11:00 PM	West Lorne WWTP Network Gateway Alarm (5526) - • Received channel 2 network gateway alarm at 21:34 • Arrived onsite and reset SCADA computer • All systems are now operating normally at time Total Km: 134 km

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2680952			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		WLSTP - Channel 1 - Loss of communication alarm	CLOSE		2/23/22 06:06 PM	2/24/22 10:52 AM	• Received alarm page out @ 1806 to site for channel 1 communication loss. • Arrived onsite , found SCADA system was frozen. Restarted SCADA system & regained communication. • Completed plant walk thru to ensure proper operations and all systems appear to be working as designed. • Offsite @ 1843 • 10km
2697689	0000123216	PANEL ALARM/ DIALER PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	3/1/22 12:00 AM	4/1/22 11:09 AM	4/1/22 11:09 AM	Alarm Dialer Test/Insp (1m) - 5526 - Completed alarm dialer checks as per plan on March 31, 2022
2697696	0000123533	PANEL ALARM/ DIALER 01 PS	5526, West Lorne Sewage Pumping Stn	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	3/1/22 12:00 AM	4/1/22 11:16 AM	4/1/22 11:16 AM	Alarm Dialer Test/Insp (1m) - 5526 - Completed alarm dialer checks as per plan
2698174	0000123442	ENGINE DIESEL STAND-BY PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	3/1/22 12:00 AM	3/28/22 08:07 AM	3/28/22 08:07 AM	Engine Diesel Test/Insp (1m) - 5526 - Completed as per plan on March 24
2698193	0000123677	ENGINE DIESEL STAND-BY LIFE STATION	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	3/1/22 12:00 AM	4/6/22 08:22 AM	4/6/22 08:22 AM	Engine Diesel Test/Insp (1m) - 5526 - Completed on March 24th as per plan, refer to log book
2698657	0000123567	UV LIGHT EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Light Insp (1m) - 5526	CLOSE	3/1/22 12:00 AM	4/6/22 08:27 AM	4/6/22 08:27 AM	UV Light Insp (1m) - 5526 -completed as per plan
2698710			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Building & Grounds Maintenance (1m) - 5526	CLOSE	3/1/22 12:00 AM	4/6/22 10:22 AM	4/6/22 10:22 AM	Building & Grounds Maintenance (1m) - 5526 - Completed as per plan
2708950			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Analyzer DO Route Inspection (1m) 5526	CLOSE	3/1/22 12:00 AM	4/6/22 08:31 AM	4/6/22 08:31 AM	Analyzer DO Route Inspection (1m) 5526 - Completed as per plan
2708952			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Drive VFD Insp/Service (1m) 5526	CLOSE	3/1/22 12:00 AM	4/6/22 10:25 AM	4/6/22 10:25 AM	Drive VFD Insp/Service (1m) 5526 - Completed as per plan
2708966	0000334543	TANK PROCESS CLARIFIER EAST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier East Insp/ Service (1m) - 5526	CLOSE	3/1/22 12:00 AM	4/6/22 10:27 AM	4/6/22 10:27 AM	Tank Process Clarifier East Insp/ Service (1m) - 5526 - Completed as per plan

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2708969	0000334544	TANK PROCESS CLARIFIER WEST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier West Insp/ Service (1m) - 5526	CLOSE	3/1/22 12:00 AM	4/6/22 10:29 AM	4/6/22 10:29 AM	Tank Process Clarifier West Insp/ Service (1m) - 5526 - Completed as per plan
2708972	0000334515	TANK PROCESS BACKWASH FILTER 200 US GAL	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	6	MONTHS	Backwash Tank Cleaning/inspection 5526	CLOSE	3/1/22 12:00 AM	5/30/22 11:36 AM	5/30/22 11:36 AM	- complete
2708986			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	Valve Blower Damper (1m) - 5526	CLOSE	3/1/22 12:00 AM	4/6/22 10:30 AM	4/6/22 10:30 AM	Valve Blower Damper (1m) - 5526 - Completed as per plan
2724618			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		Filter Building Comms Failure	CLOSE		3/18/22 07:55 AM	3/18/22 08:00 AM	Filter Building Comms Failure - Onsite for filter building comms failure reset scada computer reset dialer and completed plant walk through 86km used in this call out.
2725198			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		call out. communication alarm	CLOSE		3/19/22 10:30 PM	3/20/22 01:15 AM	- • received call out for communication alarm @ 22:26 • arrived @ 00:33 • reset scada computer and backup battery • completed plant walk through, all systems appear ok at time • left site @ 01:06 • 87km round trip
2726805			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		call out. communication alarm	CLOSE		3/27/22 11:00 AM	3/28/22 09:06 AM	
2744750	0000123216	PANEL ALARM/ DIALER PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	4/1/22 12:00 AM	4/29/22 02:15 PM	4/29/22 02:15 PM	Alarm Dialer Test/Insp (1m) - 5526 - Completed as per plan on April 29th
2744757	0000123533	PANEL ALARM/ DIALER 01 PS	5526, West Lorne Sewage Pumping Stn	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	4/1/22 12:00 AM	4/29/22 02:19 PM	4/29/22 02:19 PM	Alarm Dialer Test/Insp (1m) - 5526 - Completed as per plan on April 29th
2745163	0000123442	ENGINE DIESEL STAND-BY PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	4/1/22 12:00 AM	4/25/22 08:19 AM	4/25/22 08:19 AM	Engine Diesel Test/Insp (1m) - 5526 - Completed as per plan on April 14th

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2745182	0000123677	ENGINE DIESEL STAND-BY LIFE STATION	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	4/1/22 12:00 AM	4/25/22 08:18 AM	4/25/22 08:18 AM	Engine Diesel Test/Insp (1m) - 5526 - Completed as per plan on April 14th
2745612	0000123567	UV LIGHT EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Light Insp (1m) - 5526	CLOSE	4/1/22 12:00 AM	5/2/22 02:19 PM	5/2/22 02:19 PM	UV Light Insp (1m) - 5526 - Completed as per plan
2745665			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Building & Grounds Maintenance (1m) - 5526	CLOSE	4/1/22 12:00 AM	5/2/22 02:19 PM	5/2/22 02:19 PM	Building & Grounds Maintenance (1m) - 5526 - Completed as per plan
2749968	0000123193	ANALYZER 02 TRI-DETECTOR PORTABLE	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	6	MONTHS	Analyzer Gas Insp/Service (6m) - 5526	CLOSE	4/1/22 12:00 AM	5/30/22 12:01 PM	5/30/22 12:01 PM	- complete
2749983	0000123215	METER FLOW FE170 RAW SEWAGE	5526, West Lorne WWTF	PM	Calibration	1	YEARS	Meter Flow Insp/Service (1y) - 5526	CLOSE	4/1/22 12:00 AM	4/29/22 02:41 PM	4/29/22 02:41 PM	Meter Flow Insp/Service (1y) - 5526 - Completed as per plan by Flowmetrix
2749988	0000123567	UV LIGHT EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	UV Light Effluent Insp/Service (1y) - 5526	CLOSE	4/1/22 12:00 AM	5/30/22 12:01 PM	5/30/22 12:01 PM	- complete
2758424			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Analyzer DO Route Inspection (1m) 5526	CLOSE	4/1/22 12:00 AM	5/2/22 02:22 PM	5/2/22 02:22 PM	Analyzer DO Route Inspection (1m) 5526 - Completed as per plan
2758426			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Drive VFD Insp/Service (1m) 5526	CLOSE	4/1/22 12:00 AM	5/2/22 02:21 PM	5/2/22 02:21 PM	Drive VFD Insp/Service (1m) 5526 - Completed as per plan
2758440	0000334543	TANK PROCESS CLARIFIER EAST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier East Insp/ Service (1m) - 5526	CLOSE	4/1/22 12:00 AM	5/2/22 02:23 PM	5/2/22 02:23 PM	Tank Process Clarifier East Insp/ Service (1m) - 5526 - Completed as per plan
2758443	0000334544	TANK PROCESS CLARIFIER WEST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier West Insp/ Service (1m) - 5526	CLOSE	4/1/22 12:00 AM	5/2/22 02:24 PM	5/2/22 02:24 PM	Tank Process Clarifier West Insp/ Service (1m) - 5526 - Completed as per plan
2758446			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	Valve Blower Damper (1m) - 5526	CLOSE	4/1/22 12:00 AM	5/2/22 02:25 PM	5/2/22 02:25 PM	Valve Blower Damper (1m) - 5526 - Completed as per plan

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2772673			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne WWTP (5526) Network Gateway Alarm	CLOSE		4/4/22 12:16 AM	4/4/22 01:20 AM	West Lorne WWTP (5526) Network Gateway Alarm - Received page for West Lorne WWTP network gateway alarm at 00:16. Arrived onsite and reset SCADA computer, all now appear okay at time Total Km: 122 km
2774410			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		Net 2 Communication Fault alarm	CLOSE		4/12/22 06:09 AM	4/12/22 07:51 AM	-• Received alarm page out @ 0609 to site for net 2 communication fault • Arrived onsite @0622 and completed facility walk thru and found that both RAS pumps and both scum scrapers were faulted and not working. • Reset breakers on MCC panel & SCADA system and are now working again. • Completed another facility walk thru to ensure all systems were operating again. All systems now appear to be normal
2776923			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Pump Station High Level	CLOSE		4/25/22 07:58 AM	4/25/22 08:07 AM	West Lorne Pump Station High Level - Called out for high level west Lorne high level @ west lorne pump station when arriving onsite I found that it was a now normal call out work had been done at the pump station that day. insured pump was operating as normal pump station operating normally and appears normal at this time. 38kms used in this call out.

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2776935			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Comms Error Channel # 2	CLOSE		4/25/22 08:15 AM	4/25/22 08:25 AM	West Lorne Comms Error Channel # 2 - Onsite For Channel # 2 Alarm - Comms Error @ SCADA computer control room reset scada computer reset dialer and completed plant walk throughs 80kms used in this callout
2793769	0000123216	PANEL ALARM/ DIALER PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	5/1/22 12:00 AM	5/27/22 08:38 AM	5/27/22 08:38 AM	Alarm Dialer Test/Insp (1m) - 5526 - Completed as per plan
2793776	0000123533	PANEL ALARM/ DIALER 01 PS	5526, West Lorne Sewage Pumping Stn	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	5/1/22 12:00 AM	5/27/22 08:39 AM	5/27/22 08:39 AM	Alarm Dialer Test/Insp (1m) - 5526 - Completed as per plan
2794157	0000123442	ENGINE DIESEL STAND-BY PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	5/1/22 12:00 AM	5/24/22 08:45 AM	5/24/22 08:45 AM	Engine Diesel Test/Insp (1m) - 5526 - completed as per plan May 16th as per SOP
2794176	0000123677	ENGINE DIESEL STAND-BY LIFE STATION	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	5/1/22 12:00 AM	5/24/22 08:46 AM	5/24/22 08:46 AM	Engine Diesel Test/Insp (1m) - 5526 - Completed as per plan following SOP on May 16th
2794606	0000123567	UV LIGHT EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Light Insp (1m) - 5526	CLOSE	5/1/22 12:00 AM	5/27/22 08:40 AM	5/27/22 08:40 AM	UV Light Insp (1m) - 5526 - Completed as per plan
2794659			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Building & Grounds Maintenance (1m) - 5526	CLOSE	5/1/22 12:00 AM	5/27/22 08:41 AM	5/27/22 08:41 AM	Building & Grounds Maintenance (1m) - 5526 - Completed as per plan
2794713			5526, West Lorne WWTF	PM	Health and Safety	1	YEARS	OHSA Inspection & Report West Lorne (1y) 5526	CLOSE	5/1/22 12:00 AM	6/29/22 03:42 PM	6/29/22 03:42 PM	- complete
2798685	0000123443	SAMPLER FINAL EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Sampler Final Effluent Insp/Service (1y) - 5526	CLOSE	5/1/22 12:00 AM	6/29/22 03:42 PM	6/29/22 03:42 PM	- complete
2798688	0000123415	SAMPLER RAW SEWAGE	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Sampler Raw Sewage Insp/Service (1y) - 5526	CLOSE	5/1/22 12:00 AM	6/29/22 03:43 PM	6/29/22 03:43 PM	- complete
2800519	0000334540	PUMP CENT P107 WEST CLARIFIER	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible P107 Ras-WAS Insp/Service (1y) - 5526	CLOSE	5/1/22 12:00 AM	6/29/22 03:44 PM	6/29/22 03:44 PM	- complete

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2800528	0000334538	PUMP SUBMERSIBLE P105 EAST CLARIFIER RAS/WAS	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible P105 Ras-WAS Insp/Service (1y) - 5526	CLOSE	5/1/22 12:00 AM	6/29/22 03:45 PM	6/29/22 03:45 PM	- complete
2800537	0000334537	PUMP SUBMERSIBLE P106 EAST CLARIFIER RAS/WAS	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible P106 Ras-WAS Insp/Service (1y) - 5526	CLOSE	5/1/22 12:00 AM	6/29/22 03:46 PM	6/29/22 03:46 PM	- complete
2805002			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Analyzer DO Route Inspection (1m) 5526	CLOSE	5/1/22 12:00 AM	5/24/22 08:55 AM	5/24/22 08:55 AM	Analyzer DO Route Inspection (1m) 5526 - Completed as per plan on May 16th
2805004			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Drive VFD Insp/Service (1m) 5526	CLOSE	5/1/22 12:00 AM	5/27/22 08:42 AM	5/27/22 08:42 AM	Drive VFD Insp/Service (1m) 5526 - Completed as per plan n
2805007	0000334539	PUMP CENT P108 WEST CLARIFIER	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible P108 West Clarifier Insp/Service (1y) - 5526	CLOSE	5/1/22 12:00 AM	6/29/22 03:46 PM	6/29/22 03:46 PM	- complete
2805028	0000334543	TANK PROCESS CLARIFIER EAST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier East Insp/ Service (1m) - 5526	CLOSE	5/1/22 12:00 AM	5/27/22 08:42 AM	5/27/22 08:42 AM	Tank Process Clarifier East Insp/ Service (1m) - 5526 - Completed as per plan
2805031	0000334544	TANK PROCESS CLARIFIER WEST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier West Insp/ Service (1m) - 5526	CLOSE	5/1/22 12:00 AM	5/27/22 08:44 AM	5/27/22 08:44 AM	Tank Process Clarifier West Insp/ Service (1m) - 5526 - Completed as per plan
2805034			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	Valve Blower Damper (1m) - 5526	CLOSE	5/1/22 12:00 AM	5/27/22 08:43 AM	5/27/22 08:43 AM	Valve Blower Damper (1m) - 5526 - Completed as per plan
2817789			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Pump Station Door Issues(Wind Blew Door Open)	CLOSE		5/2/22 10:25 AM	5/2/22 10:33 AM	West Lorne Pump Station Door Issues(Wind Blew Door Open) - Received Call from friend in the area concerned about a door blown open at West Lorne Main Pump station Arrived Onsite to find door shut, generator doors blown open. shut and locked all doors. Personal vehicle Used in this Call Out no kms used

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2817792			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Comms Error Channel # 2	CLOSE		5/2/22 10:38 AM	5/2/22 10:41 AM	West Lorne Comms Error Channel # 2 - Onsite For West Lorne Comms Failure Channel # 2 Reset SCADA Computer, Completed Plant Walk Through 77kms used
2817794			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Comms Error Channel Channel # 1 & 2	CLOSE		5/2/22 10:41 AM	5/2/22 10:48 AM	West Lorne Comms Error Channel Channel # 1 & 2 - Onsite Again for comms alarm found battery bank by dialer alarming out, armed and unarmed alarms on scada after alarm wouldn't clear after resetting dialer. after resetting computer a second time alarms cleared. 79kms used in this call out
2817801			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Comms Error Channel # 2	CLOSE		5/2/22 10:55 AM	5/2/22 10:59 AM	West Lorne Comms Error Channel # 2 - Onsite for comms error channel # 2 reset SCADA computer and completed plant walk through 77kms used in this call out

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2817804			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Comms Error Channel # 2 & # 1	CLOSE		5/2/22 10:59 AM	5/2/22 11:05 AM	West Lorne Comms Error Channel # 2 & # 1 - Onsite again for comms alarm, this time around I noticed battery bank below dialer faulted, reset scada computer the first time. it did not clear alarms, unarmed and rearmed alarms on scada. restarted scada computer a second time and it cleared alarms completed plant walk through 79kms used in this call out.
2819959			5526, West Lorne Sewage Pumping Stn	CALL	Refurbish/ Replace/Repair	0		Call Back Report West Lorne P.Station High Level (5526)	CLOSE		5/3/22 06:35 PM	5/3/22 07:40 PM	Call Back Report West Lorne P.Station High Level (5526) - • Received page at 18:35 for West Lorne Pump Station High Level Alarm • Arrived onsite and found wet well at 3.60 m and still in alarm • Pump is operating normally and plant is receiving flow at 14 L/s • Notified S.O.M Sam Smith Total Km: 137
2819985			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		Call Back Report West Lorne Network Gateway Alarm (5526)	CLOSE		5/8/22 01:20 PM	5/8/22 01:40 PM	Call Back Report West Lorne Network Gateway Alarm (5526) - • Received call from Spectrum at 12:17 for network gateway 2 alarm • Arrived onsite and reset SCADA computer and completed plant walk through, all systems now appear okay Total Km: 181

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2823646			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Computer Reset	CLOSE		5/25/22 02:30 PM	5/25/22 03:33 PM	West Lorne Computer Reset - Received a call stating there was gateway net communications issue at the West Lorne WWTP. Attended the site and reset the SCADA computer. Logged in and verified communications had been restored. 200 kms used for this call.
2840510	0000123216	PANEL ALARM/ DIALER PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:47 PM	6/29/22 03:47 PM	- complete
2840517	0000123533	PANEL ALARM/ DIALER 01 PS	5526, West Lorne Sewage Pumping Stn	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:41 PM	6/29/22 03:41 PM	- complete
2840961	0000123442	ENGINE DIESEL STAND-BY PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	6/1/22 12:00 AM	6/20/22 10:32 AM	6/20/22 10:32 AM	Engine Diesel Test/Insp (1m) - 5526 - Completed as per plan on June 17th
2840980	0000123677	ENGINE DIESEL STAND-BY LIFE STATION	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:40 PM	6/29/22 03:40 PM	- complete
2841462	0000123567	UV LIGHT EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Light Insp (1m) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:39 PM	6/29/22 03:39 PM	- complete
2841536			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Building & Grounds Maintenance (1m) - 5526	CLOSE	6/1/22 12:00 AM	7/28/22 10:42 AM	7/28/22 10:42 AM	- complete
2844714	0000334519	PUMP CENT P119 BACKWASH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Cent P119 Backwash Insp/ Service (1y) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:38 PM	6/29/22 03:38 PM	- complete
2844717	0000334518	PUMP CENT P118 BACKWASH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Cent P118 Backwash Insp/ Service (1y) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:37 PM	6/29/22 03:37 PM	- complete
2844720	0000334521	PUMP CENT P110 EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Cent 110 Effluent Insp/ Service (1y) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:36 PM	6/29/22 03:36 PM	- complete
2844723	0000334522	PUMP CENT P120 EFFLUENT FOAM CONTROL	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Cent P120 Foam Control Insp/ Service (1y) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:35 PM	6/29/22 03:35 PM	- complete
2846702	0000123442	ENGINE DIESEL STAND-BY PLANT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Engine Diesel Stand-By Plant Insp/ Service (1y) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:33 PM	6/29/22 03:33 PM	- complete

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2846746	0000123677	ENGINE DIESEL STAND-BY LIFE STATION	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Engine Diesel Stand-By Life Station Insp/Service (1y) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:32 PM	6/29/22 03:32 PM	- complete
2854256			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Analyzer DO Route Inspection (1m) 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:24 PM	6/29/22 03:24 PM	- complete
2854258			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Drive VFD Insp/Service (1m) 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:25 PM	6/29/22 03:25 PM	- complete
2854261			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Fan Route Insp/Service (1y) 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:26 PM	6/29/22 03:26 PM	- complete
2854264			5526, West Lorne WWTF	PM	Inspection	1	YEARS	Filter Sand Inspection (1y) 5526	CLOSE	6/1/22 12:00 AM	7/28/22 10:43 AM	7/28/22 10:43 AM	- complete
2854269	0000334520	PUMP CENT P109 EFFLUENT WATER	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Cent 109 Effluent Insp/ Service (1y) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:27 PM	6/29/22 03:27 PM	- complete
2854283	0000334543	TANK PROCESS CLARIFIER EAST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier East Insp/ Service (1m) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:28 PM	6/29/22 03:28 PM	- complete
2854286	0000334544	TANK PROCESS CLARIFIER WEST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier West Insp/ Service (1m) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:29 PM	6/29/22 03:29 PM	- complete
2854289			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	Valve Blower Damper (1m) - 5526	CLOSE	6/1/22 12:00 AM	6/29/22 03:31 PM	6/29/22 03:31 PM	- complete
2869945			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Comms Error Channel # 2	CLOSE		6/13/22 08:46 AM	6/13/22 08:50 AM	West Lorne Comms Error Channel # 2 - Onsite for comms error channel 2 west lorne wwtp restarted scada computer cleared alarms and completed plant walk through 83kms used in this call out.
2890969	0000123216	PANEL ALARM/ DIALER PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	7/1/22 12:00 AM	7/29/22 02:39 PM	7/29/22 02:39 PM	Alarm Dialer Test/Insp (1m) - 5526 - Completed as per plan
2890976	0000123533	PANEL ALARM/ DIALER 01 PS	5526, West Lorne Sewage Pumping Stn	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	7/1/22 12:00 AM	7/29/22 02:40 PM	7/29/22 02:40 PM	Alarm Dialer Test/Insp (1m) - 5526 - Completed as per plan
2891352	0000123442	ENGINE DIESEL STAND-BY PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	7/1/22 12:00 AM	7/6/22 08:43 AM	7/6/22 08:43 AM	-Complete

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2891371	0000123677	ENGINE DIESEL STAND-BY LIFE STATION	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	7/1/22 12:00 AM	7/6/22 08:42 AM	7/6/22 08:42 AM	-Complete
2891782	0000123567	UV LIGHT EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Light Insp (1m) - 5526	CLOSE	7/1/22 12:00 AM	7/29/22 02:40 PM	7/29/22 02:40 PM	UV Light Insp (1m) - 5526 - Completed as per plan
2891835			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Building & Grounds Maintenance (1m) - 5526	CLOSE	7/1/22 12:00 AM	8/30/22 02:04 PM	8/30/22 02:04 PM	Building & Grounds Maintenance (1m) - 5526 - Completed as per plan
2896859	0000164709	VALVE BACKFLOW PREVENTER	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Valve Backflow Preventer Insp (1y) - 5526	CLOSE	7/1/22 12:00 AM	7/25/22 11:38 AM	7/25/22 11:38 AM	Valve Backflow Preventer Insp (1y) - 5526 - Completed as per plan
2903079			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Analyzer DO Route Inspection (1m) 5526	CLOSE	7/1/22 12:00 AM	7/29/22 02:41 PM	7/29/22 02:41 PM	Analyzer DO Route Inspection (1m) 5526 - Completed as per plan
2903081			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Drive VFD Insp/Service (1m) 5526	CLOSE	7/1/22 12:00 AM	7/29/22 02:42 PM	7/29/22 02:42 PM	Drive VFD Insp/Service (1m) 5526 - Completed as per plan
2903084			5526, West Lorne WWTF	PM	Inspection	1	YEARS	Heat Trace Inspection (1y) 5526	CLOSE	7/1/22 12:00 AM	10/4/22 09:08 AM	10/4/22 09:08 AM	Heat Trace Inspection (1y) 5526 - Completed as per plan
2903103	0000334543	TANK PROCESS CLARIFIER EAST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier East Insp/ Service (1m) - 5526	CLOSE	7/1/22 12:00 AM	7/29/22 02:44 PM	7/29/22 02:44 PM	Tank Process Clarifier East Insp/ Service (1m) - 5526 - Completed as per plan
2903106	0000334544	TANK PROCESS CLARIFIER WEST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier West Insp/ Service (1m) - 5526	CLOSE	7/1/22 12:00 AM	7/29/22 02:44 PM	7/29/22 02:44 PM	Tank Process Clarifier West Insp/ Service (1m) - 5526 - Completed as per plan
2903109	0000334523	TRANSMITTER LEVEL BACKWASH TANK	5526, West Lorne WWTF	PM	Calibration	1	YEARS	Transmitter Level Service (1y) - 5526	CLOSE	7/1/22 12:00 AM	10/4/22 09:08 AM	10/4/22 09:08 AM	Transmitter Level Service (1y) - 5526 - Completed as per plan
2903114			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	Valve Blower Damper (1m) - 5526	CLOSE	7/1/22 12:00 AM	7/29/22 02:43 PM	7/29/22 02:43 PM	Valve Blower Damper (1m) - 5526 - Completed as per plan
2938365	0000123216	PANEL ALARM/ DIALER PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	8/1/22 12:00 AM	8/30/22 02:01 PM	8/30/22 02:01 PM	Alarm Dialer Test/Insp (1m) - 5526 - Completed as per plan
2938372	0000123533	PANEL ALARM/ DIALER 01 PS	5526, West Lorne Sewage Pumping Stn	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	8/1/22 12:00 AM	8/30/22 02:02 PM	8/30/22 02:02 PM	Alarm Dialer Test/Insp (1m) - 5526 - Completed as per plan
2938748	0000123442	ENGINE DIESEL STAND-BY PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	8/1/22 12:00 AM	8/29/22 11:27 AM	8/29/22 11:27 AM	Engine Diesel Test/Insp (1m) - 5526 - Completed as per plan

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2938767	0000123677	ENGINE DIESEL STAND-BY LIFE STATION	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	8/1/22 12:00 AM	8/29/22 11:28 AM	8/29/22 11:28 AM	Engine Diesel Test/Insp (1m) - 5526 - Completed as per plan
2939178	0000123567	UV LIGHT EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Light Insp (1m) - 5526	CLOSE	8/1/22 12:00 AM	8/30/22 02:03 PM	8/30/22 02:03 PM	UV Light Insp (1m) - 5526 - Completed as per plan
2939229			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Building & Grounds Maintenance (1m) - 5526	CLOSE	8/1/22 12:00 AM	8/30/22 02:06 PM	8/30/22 02:06 PM	Building & Grounds Maintenance (1m) - 5526 - Completed as per plan
2944382	0000123536	PUMP SUBMERSIBLE P102 RAW PS-1	5526, West Lorne Sewage Pumping Stn	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible P102 Raw Ps-1 Insp/Service (1y) - 5526	CLOSE	8/1/22 12:00 AM	10/4/22 09:09 AM	10/4/22 09:09 AM	Pump Submersible P102 Raw Ps-1 Insp/Service (1y) - 5526 - Completed as per plan
2944391	0000123537	PUMP SUBMERSIBLE P101 RAW PS-1	5526, West Lorne Sewage Pumping Stn	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible P101 Raw Ps-1 Insp/Service (1y) - 5526	CLOSE	8/1/22 12:00 AM	10/4/22 09:10 AM	10/4/22 09:10 AM	Pump Submersible P101 Raw Ps-1 Insp/Service (1y) - 5526 - Completed as per plan
2944400	0000123538	PUMP SUBMERSIBLE P100 PS-1	5526, West Lorne Sewage Pumping Stn	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible P100 Ps-1 Insp/ Service (1y) - 5526	CLOSE	8/1/22 12:00 AM	10/4/22 09:11 AM	10/4/22 09:11 AM	Pump Submersible P100 Ps-1 Insp/ Service (1y) - 5526 - Completed as per plan
2944409	0000123565	PUMP 02 SANITARY SUMP	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump 02 Sanitary Sump Insp/ Service (1y) - 5526	CLOSE	8/1/22 12:00 AM	10/4/22 09:11 AM	10/4/22 09:11 AM	Pump 02 Sanitary Sump Insp/ Service (1y) - 5526 - Completed as per plan
2944418	0000123566	PUMP SUBMERSIBLE 01 SANITARY SUMP	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible 01 Sanitary Sump Insp/Service (1y) - 5526	CLOSE	8/1/22 12:00 AM	10/4/22 09:12 AM	10/4/22 09:12 AM	Pump Submersible 01 Sanitary Sump Insp/Service (1y) - 5526 - Completed as per plan
2944427	0000123692	PUMP SUBMERSIBLE PS PUMP 100 SPARE SCUM	5526, West Lorne Sewage Pumping Stn	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible Ps Pump 100 Spare Insp/Service (1y) - 5526	CLOSE	8/1/22 12:00 AM	10/4/22 09:13 AM	10/4/22 09:13 AM	Pump Submersible Ps Pump 100 Spare Insp/Service (1y) - 5526 - Completed as per plan
2949391			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Analyzer DO Route Inspection (1m) 5526	CLOSE	8/1/22 12:00 AM	8/30/22 02:07 PM	8/30/22 02:07 PM	Analyzer DO Route Inspection (1m) 5526 - Completed as per plan
2949393			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Drive VFD Insp/Service (1m) 5526	CLOSE	8/1/22 12:00 AM	8/30/22 02:08 PM	8/30/22 02:08 PM	Drive VFD Insp/Service (1m) 5526 - Completed as per plan
2949396			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Heater Unit Route Inspection/ Service (1y) 5526	CLOSE	8/1/22 12:00 AM	10/4/22 09:14 AM	10/4/22 09:14 AM	Heater Unit Route Inspection/ Service (1y) 5526 - Completed as per plan

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2949406	0000334529	SCREEN BAR SCREW	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Conveyor Screw Bar Screen Insp/ Service (1y) - 5526	CLOSE	8/1/22 12:00 AM	11/30/22 09:11 PM	11/30/22 09:11 PM	-Checked to ensure bar screen is in proper working order, properly greased and nothing loose
2949424	0000334531	ANALYZER GAS AIC 101 MONITOR	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	6	MONTHS	Analyzer Gas Insp/Service (6m) - 5526	CLOSE	8/1/22 12:00 AM	10/4/22 09:15 AM	10/4/22 09:15 AM	Analyzer Gas Insp/Service (6m) - 5526 - Completed as per plan
2949428	0000334543	TANK PROCESS CLARIFIER EAST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier East Insp/ Service (1m) - 5526	CLOSE	8/1/22 12:00 AM	8/30/22 02:09 PM	8/30/22 02:09 PM	Tank Process Clarifier East Insp/ Service (1m) - 5526 - Completed as per plan
2949431	0000334544	TANK PROCESS CLARIFIER WEST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier West Insp/ Service (1m) - 5526	CLOSE	8/1/22 12:00 AM	8/30/22 02:10 PM	8/30/22 02:10 PM	Tank Process Clarifier West Insp/ Service (1m) - 5526 - Completed as per plan
2949434	0000334525	PANEL SURGE ARRESTER BARRIER	5526, West Lorne Sewage Pumping Stn	PM	Refurbish/ Replace/Repair	1	YEARS	Panel Surge Protection SPS Service (1y) - 5526	CLOSE	8/1/22 12:00 AM	10/4/22 09:16 AM	10/4/22 09:16 AM	Panel Surge Protection SPS Service (1y) - 5526 - Completed as per plan
2949437			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	Valve Blower Damper (1m) - 5526	CLOSE	8/1/22 12:00 AM	8/30/22 02:12 PM	8/30/22 02:12 PM	Valve Blower Damper (1m) - 5526 - Completed as per plan
2961657			5526, West Lorne Sewage Pumping Stn	CALL	Refurbish/ Replace/Repair	0		West Lorne WWTP (5526) Network Gateway Alarm	CLOSE		7/28/22 03:10 AM	7/28/22 05:00 AM	West Lorne WWTP (5526) Network Gateway Alarm - - Received page for West Lorne WWTP Communication alarm 03:10 - Arrived onsite and reset SCADA computer - Reset SCADA computer, all systems now appear okay at time
2968536			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne WWTP Communication Alarm (5526)	CLOSE		8/22/22 05:18 PM	8/22/22 06:30 PM	West Lorne WWTP Communication Alarm (5526) - - Received page for communication alarm at 17:18 - Arrived onsite and found RAS/WAS pumps and sludge scrappers tripped - Reset pumps and scrappers - All systems are now okay at time

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2985154	0000123216	PANEL ALARM/DIALER PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	9/1/22 12:00 AM	9/29/22 01:36 PM	9/29/22 01:36 PM	Alarm Dialer Test/Insp (1m) - 5526 - Completed as per plan
2985161	0000123533	PANEL ALARM/DIALER 01 PS	5526, West Lorne Sewage Pumping Stn	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	9/1/22 12:00 AM	9/29/22 01:37 PM	9/29/22 01:37 PM	Alarm Dialer Test/Insp (1m) - 5526 - Completed as per plan
2985597	0000123442	ENGINE DIESEL STAND-BY PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	9/1/22 12:00 AM	9/29/22 01:38 PM	9/29/22 01:38 PM	Engine Diesel Test/Insp (1m) - 5526 - Completed as per plan
2985616	0000123677	ENGINE DIESEL STAND-BY LIFE STATION	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	9/1/22 12:00 AM	9/29/22 01:40 PM	9/29/22 01:40 PM	Engine Diesel Test/Insp (1m) - 5526 - Completed as per plan
2986058	0000123567	UV LIGHT EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/Replace/Repair	1	MONTHS	UV Light Insp (1m) - 5526	CLOSE	9/1/22 12:00 AM	9/29/22 01:41 PM	9/29/22 01:41 PM	UV Light Insp (1m) - 5526 - Completed as per plan
2986109			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Building & Grounds Maintenance (1m) - 5526	CLOSE	9/1/22 12:00 AM	9/29/22 01:43 PM	9/29/22 01:43 PM	Building & Grounds Maintenance (1m) - 5526 - Completed as per plan
2992169	0000123592	METER FLOW FIT300 AIR	5526, West Lorne WWTF	PM	Calibration	1	YEARS	Meter Flow Insp/Service (1y) - 5526	CLOSE	9/1/22 12:00 AM	10/4/22 09:16 AM	10/4/22 09:16 AM	Meter Flow Insp/Service (1y) - 5526 - Completed as per plan
2998063			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Analyzer DO Route Inspection (1m) 5526	CLOSE	9/1/22 12:00 AM	9/29/22 01:47 PM	9/29/22 01:47 PM	Analyzer DO Route Inspection (1m) 5526 - Completed as per plan
2998065			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Drive VFD Insp/Service (1m) 5526	CLOSE	9/1/22 12:00 AM	9/29/22 01:51 PM	9/29/22 01:51 PM	Drive VFD Insp/Service (1m) 5526 - Completed as per plan
2998071	0000334524	SCADA COMPUTER COMMUNICATION	5526, West Lorne WWTF	PM	Inspection	1	YEARS	Scada Server Insp/Service (1y) 5526	CLOSE	9/1/22 12:00 AM	10/4/22 09:17 AM	10/4/22 09:17 AM	Scada Server Insp/Service (1y) 5526 - Completed as per plan
2998086	0000334543	TANK PROCESS CLARIFIER EAST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/Replace/Repair	1	YEARS	Tank Process Clarifier East Insp/Service (1m) - 5526	CLOSE	9/1/22 12:00 AM	9/29/22 01:53 PM	9/29/22 01:53 PM	Tank Process Clarifier East Insp/Service (1m) - 5526 - Completed as per plan
2998089	0000334544	TANK PROCESS CLARIFIER WEST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/Replace/Repair	1	YEARS	Tank Process Clarifier West Insp/Service (1m) - 5526	CLOSE	9/1/22 12:00 AM	9/29/22 01:54 PM	9/29/22 01:54 PM	Tank Process Clarifier West Insp/Service (1m) - 5526 - Completed as per plan
2998092	0000334515	TANK PROCESS BACKWASH FILTER 200 US GAL	5526, West Lorne WWTF	PM	Refurbish/Replace/Repair	6	MONTHS	Backwash Tank Cleaning/inspection 5526	CLOSE	9/1/22 12:00 AM	11/16/22 07:57 AM	11/16/22 07:57 AM	- inspected that the tank has no leaks, and recorded pressure of the tank.
2998106	0000334528	TANK PROCESS CLARIFIER GRIT	5526, West Lorne WWTF	PM	Refurbish/Replace/Repair	1	YEARS	Tank Process Clarifier Grit Insp/Service (1y) - 5526	CLOSE	9/1/22 12:00 AM	10/4/22 09:18 AM	10/4/22 09:18 AM	Tank Process Clarifier Grit Insp/Service (1y) - 5526 - Completed as per plan

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2998109			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	Valve Blower Damper (1m) - 5526	CLOSE	9/1/22 12:00 AM	9/29/22 01:55 PM	9/29/22 01:55 PM	Valve Blower Damper (1m) - 5526 - Completed as per plan
2998111	0000334527	VALVE PLUG GRIT SYSTEM	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Valve Plug Insp. (1y) - 5526	CLOSE	9/1/22 12:00 AM	10/4/22 09:18 AM	10/4/22 09:18 AM	Valve Plug Insp. (1y) - 5526 - Completed as per plan
3012824	0000334524	SCADA COMPUTER COMMUNICATION	5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne WWTP Communications	CLOSE		9/6/22 12:56 AM	9/16/22 02:25 PM	West Lorne WWTP Communications - Received call at 22:45p.m for channel 1 alarm at west lore wwtp. arrived on site at 23:45. reset the SCADA server. Logged back in to both admin and operator account. Cycled thru each page and cleared errors. reset dialer and ensured proper function by calling it. Completed a visual inspection of the facility by doing a walk through. Checked daily stats on SCADA. Plant appeared to run smoothly all day. Left site at 00:00
3014367			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		Channel 1 No Comms Alarm West Lorne WWTP	CLOSE		9/12/22 11:23 AM	9/12/22 11:30 AM	Channel 1 No Comms Alarm West Lorne WWTP - Onsite for Channel 1 comms error/ no comms alarm arrived onsite reset computer restarted blower and clarifier scraper completed plant walk through and left site. 84kms used in this call
3014370			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		Power Flicker West Lorne WWTP	CLOSE		9/12/22 11:32 AM	9/12/22 11:40 AM	Power Flicker West Lorne WWTP - Onsite for power flicker followed SOP for power outage reset blower, RAS/ WAS pumps, Clarifier Scrapper checked alum pump and completed plant walk through.

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3015412	0000123448	FAN EF-03 EXHAUST ELEC ROOF	5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Gateway Net 2 - Exhaust Fan	CLOSE		9/16/22 01:46 PM	9/16/22 01:57 PM	West Lorne Exhaust Fan -Received call for West Lorne channel 1 alarm at 16:35 and headed for site. Arrived on site and reset the SCADA server as communications were off. After reset, still receiving call out. Completed plant walktrough with Sam Smith and found that exhaust fan EF-3 was tripped. once reset the alarms cleared. made sure all processes were normal and left site.
3017294			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		WLSTP Channel 1 alarm.	CLOSE		9/24/22 12:20 PM	9/27/22 03:52 PM	-Received alarm call @ 1220 from the answering service for a West Lorne Sewage Treatment Plant Channel 1 Network communication is off alarm. Acknowledged alarm through dialer. On site @ 1255. Reset the computer in the control room. Blowers were off, reset the breaker on the MCC panel for the blowers. Put blower 3 in manual and is now working. RAS pumps are alternating and working as normal. Completed a plant walk through all appears ok at this time. Notified ORO and SOM of actions taken. Km: 12km.
3035085	0000123216	PANEL ALARM/ DIALER PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	10/1/22 12:00 AM	10/26/22 09:00 AM	10/26/22 09:00 AM	-Tripped an alarm to ensure the dialer would call out upon emergency situation. Dialer called answering service whom paged the operators as per SOPs. All appears to be functioning normally. Repeated steps for both Channel 1/2 alarms.
3035092	0000123533	PANEL ALARM/ DIALER 01 PS	5526, West Lorne Sewage Pumping Stn	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	10/1/22 12:00 AM	10/31/22 10:46 AM	10/31/22 10:46 AM	- testing alarms

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3035490	0000123442	ENGINE DIESEL STAND-BY PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	10/1/22 12:00 AM	10/31/22 10:39 AM	10/31/22 10:39 AM	- ran generator on load for `1 hr
3035509	0000123677	ENGINE DIESEL STAND-BY LIFE STATION	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	10/1/22 12:00 AM	10/31/22 10:40 AM	10/31/22 10:40 AM	- ran generator on load for 1 hr
3035920	0000123567	UV LIGHT EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Light Insp (1m) - 5526	CLOSE	10/1/22 12:00 AM	10/31/22 10:45 AM	10/31/22 10:45 AM	- removed uv bulbs for the non disinfection seaon. and cleaned
3035971			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Building & Grounds Maintenance (1m) - 5526	CLOSE	10/1/22 12:00 AM	10/31/22 10:57 AM	10/31/22 10:57 AM	- cleaning buildings etc
3039722	0000123193	ANALYZER 02 TRI-DETECTOR PORTABLE	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	6	MONTHS	Analyzer Gas Insp/Service (6m) - 5526	CLOSE	10/1/22 12:00 AM	11/16/22 07:47 AM	11/16/22 07:47 AM	- Checked to ensure that the unit is charged properly. Checked to see with the gas cylinder to ensure the unit alarms properly. it passes.
3048261			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Analyzer DO Route Inspection (1m) 5526	CLOSE	10/1/22 12:00 AM	10/31/22 10:56 AM	10/31/22 10:56 AM	- cleaning and calibrated DO probes
3048263			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Drive VFD Insp/Service (1m) 5526	CLOSE	10/1/22 12:00 AM	10/31/22 10:59 AM	10/31/22 10:59 AM	- inspected VFD and followed maintenance procedure
3048277	0000334543	TANK PROCESS CLARIFIER EAST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier East Insp/ Service (1m) - 5526	CLOSE	10/1/22 12:00 AM	10/31/22 10:36 AM	10/31/22 10:36 AM	-inspecting clarifier and cleaning. Water pump broken so unable to completely drain
3048280	0000334544	TANK PROCESS CLARIFIER WEST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier West Insp/ Service (1m) - 5526	CLOSE	10/1/22 12:00 AM	10/31/22 10:38 AM	10/31/22 10:38 AM	- inspected the clarfier and cleaned where able, water pump broken so unable to clean properly
3048283			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	Valve Blower Damper (1m) - 5526	CLOSE	10/1/22 12:00 AM	10/31/22 11:09 AM	10/31/22 11:09 AM	- followed the maintenance procedure

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3065395	0000334505	BLOWER POSITIVE DISPLACEMENT B102	5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Blower Reset	CLOSE		10/16/22 12:20 PM	11/28/22 10:33 AM	West Lorne Blower Reset - Received call at WWTP. Arrived on site and blower 3 was off. Reset alarms and turned back on in hand. Completed visual inspection of processes and all appears to be running normal. No new alarms and left site. Travel to WWTP: 51 KM Travel Home: 62 KM
3067223			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Channel 1	CLOSE		10/23/22 07:59 PM	10/23/22 11:59 PM	West Lorne Channel 1 -Received call for west Lorne channel 1 alarm. Arrived on site and reset scada computer. Completed plant walk through and inspected processes. After scada reset, reset dialler and all was working fine. 65 KM one way -
3082952	0000123216	PANEL ALARM/ DIALER PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	11/1/22 12:00 AM	11/14/22 08:26 AM	11/14/22 08:26 AM	- Identified channel 1 and 2 alarms. Tripped alarms causing the dialer to begin calling out to the answering service and then send a text message notifying the operator. all appears ok and in working order.
3082959	0000123533	PANEL ALARM/ DIALER 01 PS	5526, West Lorne Sewage Pumping Stn	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	11/1/22 12:00 AM	11/14/22 08:28 AM	11/14/22 08:28 AM	- Identified all channel alarms. Tripped alarms causing the dialer to begin calling out to the answering service and then send a text message notifying the operator. all appears ok and in working order.
3083350	0000123442	ENGINE DIESEL STAND-BY PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	11/1/22 12:00 AM	11/30/22 09:19 PM	11/30/22 09:19 PM	-Ran generator on load for one hour, recorded numbers on inspection sheet.

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3083369	0000123677	ENGINE DIESEL STAND-BY LIFE STATION	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	CLOSE	11/1/22 12:00 AM	11/30/22 09:20 PM	11/30/22 09:20 PM	-Ran generator on load for one hour, recorded numbers on inspection sheet.
3083780	0000123567	UV LIGHT EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Light Insp (1m) - 5526	CLOSE	11/1/22 12:00 AM	11/8/22 08:03 AM	11/8/22 08:03 AM	- UV bulbs off for the winter months as per SOP
3083831			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Building & Grounds Maintenance (1m) - 5526	CLOSE	11/1/22 12:00 AM	11/30/22 09:21 PM	11/30/22 09:21 PM	-Cleaning and tidying work spaces so they are safe for everyday use.
3088561			5526, West Lorne WWTF	PM	Inspection	1	YEARS	Emergency Generator Trailer Insp/ Service (1y) - 5526	CLOSE	11/1/22 12:00 AM	12/5/22 11:41 AM	12/5/22 11:41 AM	- had trailer inspected, all ok.
3088587	0000123502	UPS BATTERY BANK PLANT	5526, West Lorne WWTF	PM	Inspection	1	YEARS	UPS Battery Bank Plant Insp/ Service (1y) - 5526	CLOSE	11/1/22 12:00 AM	11/16/22 10:49 AM	11/16/22 10:49 AM	- Checked the outside of the unit. Ensured there were no alarms. Cleared debris from the fan, and cleaned dust from the unit.
3088598	0000123532	UPS	5526, West Lorne Sewage Pumping Stn	PM	Inspection	1	YEARS	UPS Insp/Service (1y) - 5526	CLOSE	11/1/22 12:00 AM	11/30/22 09:14 PM	11/30/22 09:14 PM	-Ensuring that there are no alarms, clearing any debris from the fan. All appears ok.
3088609	0000123557	PUMP SUBMERSIBLE	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible Insp/Service (1y) - 5526	CLOSE	11/1/22 12:00 AM	12/5/22 11:42 AM	12/5/22 11:42 AM	- inspected pump and removed debris as necessary.
3088618	0000123571	PUMP SUBMERSIBLE CP7 SCUM PIT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible Cp7 Scum Pit Insp/Service (1y) - 5526	CLOSE	11/1/22 12:00 AM	11/16/22 07:49 AM	11/16/22 07:49 AM	- Pump currently out of service as it is not working properly. Needs to be pulled and inspected.
3088627	0000123693	PUMP SUBMERSIBLE SPARE	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible Spare Insp/ Service (1y) - 5526	CLOSE	11/1/22 12:00 AM	12/5/22 11:43 AM	12/5/22 11:43 AM	- inspected pump, removed debris where necessary.
3093015			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Analyzer DO Route Inspection (1m) 5526	CLOSE	11/1/22 12:00 AM	11/8/22 08:09 AM	11/8/22 08:09 AM	- checking DO probes are reading properly, passed
3093017			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Drive VFD Insp/Service (1m) 5526	CLOSE	11/1/22 12:00 AM	11/8/22 08:08 AM	11/8/22 08:08 AM	- inspecting VFD's at pump station and sewage treatment plant

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3093031	0000334543	TANK PROCESS CLARIFIER EAST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier East Insp/ Service (1m) - 5526	CLOSE	11/1/22 12:00 AM	11/8/22 08:05 AM	11/8/22 08:05 AM	- cleaning clarifiers
3093034	0000334544	TANK PROCESS CLARIFIER WEST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier West Insp/ Service (1m) - 5526	CLOSE	11/1/22 12:00 AM	11/8/22 08:07 AM	11/8/22 08:07 AM	- cleaned clarifier of algae etc
3093037	0000334513	UPS PLC PANEL	5526, West Lorne WWTF	PM	Inspection	1	YEARS	UPS Insp/Service (1y) - 5526	CLOSE	11/1/22 12:00 AM	11/30/22 09:15 PM	11/30/22 09:15 PM	-Checking to make sure there are no alarms on unit, clearing any debris from the fan.
3093048			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	Valve Blower Damper (1m) - 5526	CLOSE	11/1/22 12:00 AM	11/14/22 08:30 AM	11/14/22 08:30 AM	- opened valves allowing moisture to leave the blower pipes that has accumulated.
3104902			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Channel 1	CLOSE		11/3/22 10:07 PM	11/28/22 10:33 AM	West Lorne channel 1 -Received call for channel 1 alarm. Arrived on site and completed facility walk through. Reset scada server. Overviewed scada after reset and completed another facility walk through. All running normally. 120KM total.
3107361			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		Channel 1 alarm	CLOSE		11/18/22 10:37 PM	11/18/22 11:25 PM	- Received call from answering service at 2237 for west lorne STP channel 1 alarm. Arrived on site and reset the SCADA computer. Completed plant walk through. All is working as per usually and appears ok. Notified SOM. Km: 15.

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3108694			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Channel 1	CLOSE		11/26/22 11:14 AM	11/28/22 08:30 AM	West Lorne channel 1 -Received call for channel 1 at west Lorne sewage. Arrived on site and reset scada system. Completed facility walk through. All systems running normal. Checked scada once reset and all was fine. 60km there. 60km back.
3123578	0000123216	PANEL ALARM/ DIALER PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	12/1/22 12:00 AM	12/5/22 11:57 AM	12/5/22 11:57 AM	- tested all alarms within the system and identified them. pass
3123585	0000123533	PANEL ALARM/ DIALER 01 PS	5526, West Lorne Sewage Pumping Stn	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 5526	CLOSE	12/1/22 12:00 AM	12/5/22 11:58 AM	12/5/22 11:58 AM	- identified all critical alarms, tested to make sure they call out. pass
3124132	0000123442	ENGINE DIESEL STAND-BY PLANT	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	COMP	12/1/22 12:00 AM	1/4/23 12:50 PM	1/4/23 12:50 PM	- complteted in december, ran generator on load for one hour.
3124151	0000123677	ENGINE DIESEL STAND-BY LIFE STATION	5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 5526	COMP	12/1/22 12:00 AM	1/4/23 12:52 PM	1/4/23 12:52 PM	- completed in december, ran on load for 1 hr
3124631	0000123586	PUMP 01 ALUM CHEMIC RM	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Diaphragm 01 Insp/Service (1y) - 5526	CLOSE	12/1/22 12:00 AM	12/8/22 08:08 AM	12/8/22 08:08 AM	- Checking to ensure the pump is dosing properly, and no faults.
3124649	0000123585	PUMP DIAPHRAGM 02 ALUM CHEMIC RM	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Diaphragm 02 Insp/Service (1y) - 5526	CLOSE	12/1/22 12:00 AM	12/8/22 08:09 AM	12/8/22 08:09 AM	- Checking to ensure the pump is dosing properly, and no faults.
3124786	0000123567	UV LIGHT EFFLUENT	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Light Insp (1m) - 5526	CLOSE	12/1/22 12:00 AM	12/5/22 11:59 AM	12/5/22 11:59 AM	- lights not on in winter months, cleaned passageway of debris.,
3124875			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Building & Grounds Maintenance (1m) - 5526	CLOSE	12/1/22 12:00 AM	12/15/22 08:25 AM	12/15/22 08:25 AM	- cleaning garage, cleaning filter room and organizing for end of year.

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3133597			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Analyzer DO Route Inspection (1m) 5526	CLOSE	12/1/22 12:00 AM	12/8/22 08:03 AM	12/8/22 08:03 AM	- Verifying pH probes in the aeration tank with the handheld reader. All appears ok.
3133599			5526, West Lorne WWTF	PM	Inspection	1	MONTHS	Drive VFD Insp/Service (1m) 5526	CLOSE	12/1/22 12:00 AM	12/5/22 12:03 PM	12/5/22 12:03 PM	- cleaned cooling fan from debris, cleared faults, checked battery voltages, and tested to ensure they work during an emergency situation.
3133613	0000334543	TANK PROCESS CLARIFIER EAST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier East Insp/ Service (1m) - 5526	CLOSE	12/1/22 12:00 AM	12/8/22 08:05 AM	12/8/22 08:05 AM	- Followed maintenance procedure to ensure everything is working and no issues found.
3133616	0000334544	TANK PROCESS CLARIFIER WEST SCUM THROUGH	5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Clarifier West Insp/ Service (1m) - 5526	CLOSE	12/1/22 12:00 AM	12/8/22 08:06 AM	12/8/22 08:06 AM	- Followed maintenance procedure to ensure everything is working and no issues found.
3133619			5526, West Lorne WWTF	PM	Refurbish/ Replace/Repair	1	MONTHS	Valve Blower Damper (1m) - 5526	CLOSE	12/1/22 12:00 AM	12/5/22 12:02 PM	12/5/22 12:02 PM	- opened valves to let off moisture in air pipes
3145441			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		Channel One West Lorne WWTp	CLOSE		12/4/22 12:45 AM	12/5/22 04:43 PM	Channel 1 west Lorne wwtp -Received call at 12:45 a.m for channel 1 alarm at west Lorne. Arrived on site at 01:45 a.m and inspected scada server. Reset server and logged back in. Inspected processes, completed facility walk thorough and inspected processes and breakers. All processes appeared to be running per usual. Reset dialler. Locked up and left at 2:15 a.m. 62km there 62 km back

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3148175			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		channel 1 communication	CLOSE		12/19/22 03:30 AM	12/19/22 10:34 AM	- - received call for channel 1 communication alarm @03:29 - arrived onsite @05:00 reset battery backup and scada computer, completed plant walk through, all systems appear ok at time - left site @05:30 86km round trip

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3148972			5526, West Lorne WWTF	CALL	Refurbish/ Replace/Repair	0		West Lorne Power Failure Alarm	COMP		12/23/22 08:30 PM	12/24/22 02:00 PM	Power failure alarm Friday 23rd -Received call from answering service at 19:30 on Friday December 23rd 2022 for a power failure alarm at west Lorne sewage treatment plant. Called auto dialler to acknowledge and monitored hydro one status. No other outages in area. Prepared to leave site and on route around 20:30. Due to the "storm of the generation", highway closures, and blizzard warnings, travel to site took a significant amount of time as there was low to no visibility from major snow squalls and drifts. Arrived on site around 22:30 and driveway to site was blanketed by 40-50" snow banks and drifts. Took time to investigate situation. Called senior operations manager Sam Smith and notified of situation. Checked on pump station to assure power was there and noted that there were no other alarms at the plant like the blowers being off, or communications off. (Channel 1 or channel 2) Left site to come back when it was safe to do so and slowly made travel back. Left to site again at 07:30 on Saturday December 24th and due to significant visibility restrictions and road conditions, did not arrive to site until 09:00. On-site determined driveway was unsafe to drive through as snow

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
													drifts were up to 50" high.
													Travelled to plant on foot on neighbouring farm field from end of driveway.
													Once arrived on site, confirmed the power was in fact on despite the alarm saying it wasn't. No other alarms were on because all equipment was still running properly.
													While on site did rounds and thorough walk through. Attempted to trouble shoot power error failure on auto dialler. Consulted with Duty OICs Sam Smith and Brendan Johnston as well as OIT Jada Krebs. After trouble shooting and receiving several recommendations such as resetting the auto dialler, the SCADA, and the UPS, could not figure out the alarm.
													Once more completed a very thorough facility investigation which took much time due to inclement weather conditions and determined that the status of the plant should be monitored but the power failure alarm was a nuisance. It might have been likely that the battery in the unit was failing as read in the instruction manual. Fault PFAIL and LOBAT.
													Directed by Senior Operations Manager to leave site and monitor.
													Trekked to vehicle and slowly made way back home on improving road conditions.
													Total travel 200KM

Workorder Summary Report

Report Start Date: Jan 1, 2022 12:00 AM

Report End Date: Dec 31, 2022 11:59 PM

Location: 5526-SPP1,5526-WWWL

Work Order Type: CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail