Meaford
Water Treatment Plant

Summary & Annual Reports

2023

2023 Annual Compliance Report

Drinking Water System General Information

This report has been prepared in accordance with the reporting requirements of the Safe Drinking Water Act 2002 O. Reg 170/03, s 11(1), (3), (6), (7), (8), (9.1) and 10 as well as Schedule 22-1 and 22-2.

This annual report is included in the Water Summary Report to be presented to Council and can be viewed on the Municipal website at www.meaford.ca/WaterReports

Drinking Water System Information

Drinking Water System Number	210000176
Drinking Water System Name	The Municipality of Meaford Water Treatment Plant
Drinking Water System Owner	Municipality of Meaford
Drinking Water System Category	Large Municipal Residential
Period being reported	January 1, 2023 to December 31, 2023
Does your Drinking Water System serve more than 10,000 people?	No

Drinking Water System Description

The Meaford Water System is situated on Georgian Bay in Meaford, Ontario. The treatment plant was originally constructed in 1959/60. In 1975 gas chlorination was added to the treatment plant. The Meaford Water Plant was further upgraded in 1999/2000 by completing the following: increasing the clear water storage, expanding the control building, installing a SCADA system and new low lift and high lift pumping system, backwash waste water treatment.
Another upgrade in 2002 added one more gas chlorinator, ultraviolet disinfection on both filter effluent's, in line booster pump to feed plant and new truck fill station. The plant SCADA system and PLC panels were upgraded during 2013.

The system presently consists of the following:

- An approximately 760mm raw water intake extends into Georgian Bay with chlorination for zebra mussel control
- Two 150 HP low lift pumps
- Injection of poly aluminum chloride prior to inline flash mixer
- Two filter beds with multi-media and backwash troughs
- Ultraviolet disinfection on filter effluent
- Gas chlorine disinfection (3 chlorinators)
- One clearwell comprising of two cells in series
- Three 200 HP high lift pumps and 1 VFD high lift pump 75HP
- A filter backwash waste treatment system

The filter backwash wastewater treatment system consists of 2 Backwash pumps, air scour, surge tank, a treatment clarifier, and injection of vitamin D-Chlor for de-chlorination. The treated backwash wastewater is discharged into the storm sewer which ends up in Georgian Bay, the sludge is pumped into the sanitary sewer. The water plant has standby power, provided by a Diesel Generator (including fuel storage tanks replaced in 2019).

The UTM co-ordinates of the plant are: Zone 17 531440E, 494400N

Meaford Water Tower

An elevated storage tank is located on Nelson St. in Meaford and is referred to as the Meaford Water Tower. This Tower has a capacity of 570 cubic meters. The Tower supplies water pressure to the lower zone as well as the Nelson Street station in the Municipality.

St. Vincent St. Booster Station

A booster station is located on St. Vincent St. and is known as St. Vincent St. Booster Station. The station consists of 5 pumps. The water pressure at this station is boosted for higher distribution pressures and volume to provide fire flows throughout the upper southern part of the Municipality.

Nelson St. Booster Station

In 2022 the construction of the new Nelson Street booster station was completed. The new station is located on the same property as the Water Tower. The station consists of 7 pumps; of varying horsepower. This station is used to boost the water pressure in the distribution and provide adequate fire flows throughout the upper western part of the Municipality.

Summary of Water Treatment Chemicals Used Over this Reporting Period

Chlorine Gas (68 kg cylinders) – used in zebra mussel chlorination (during warmer months >10 degrees celcius), used in chlorination during filtration and post chlorination (treatment after filtration).
PAX XL-1900 – is a coagulant used prior to filtration. A coagulants primary objective is to adhere to suspended particulates, make them bigger in size, so there is a higher removal rate of particulates in the filtration process.

Vita D-Chlor – is a chemical for dechlorinating previously treated water before it is sent to sewer or Georgian Bay after waste processes.

Summary of Monetary Expenses Incurred in 2023

Filter #2 Inlet Valve and Actuator	$34,875.96
Filter #1 Effluent Valve and Actuator	$33,203.53
Filter #2 Effluent Valve and Actuator	$33,203.53
St. Vincent St. Station Chlorine Analyzer replacement	$8,722.36

Summary of Adverse Drinking Water Quality Results

There were no incidents of adverse drinking water quality during 2023.

Summary of Microbiological testing done under Schedule 10, 11 or 12 of Regulation 170/03 during this reporting period

Parameter	Number of Samples	Range of E. Coli or Fecal Results Min-Max	Range of Total Coliform Results Min-Max	Number of HPC Samples	Results of HPC Results Min # to Max #
Raw	52	0-6	0-179	N/A	N/A
Treated	52	0	0	51	0-2
Distribution	172	0	0	54	0->2000

In December for the fourth set of samples HPC was unable to be analyzed. A note from the lab was provided that said the following.
“For your samples received on December 21st 2023 there was a contamination issue with the HPC analysis so we are unable to report HPC results for the TW WTP Lab – Treated Tap and DW St. Vincent St. Stn samples that requested this analysis. The lab and quality group will be doing a non-conformance investigation into this to determine the cause.
HPC, in general, can be easily contaminated due to its non-selective nature. Despite our stringent protocols and requirements for lab sterility, incidents of contamination on this media type may occur. In the event there is uncertainty as to the origin of growth on a sample filter, with or without a QC failure, our process is to code/qualify the data to ensure data quality transparency and to properly document any non-conformances.
Your final report for this submission will be sent shortly. The HPC results will be reported as “NDLA” – No Data: Laboratory Accident/Error.”

Details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or Section 16-4 of Schedule 16 of O. Reg 170/03 and reported to Spills Action Centre

Summary of Operational Testing completed under Schedule 7, 8, or 9 of Ontario Regulation 170/03 during this reporting period

	Number of Grab Samples	Range of Results Min # to Max #	Unit of Measure
Turbidity			
Treated	8760	0.01-4	NTU
Chlorine			
Treated	8760	0.86-4.37	mg/L

Summary of additional Testing and Sampling

Please see attached additional sampling results for Haloacetic Acids, Trihalomethanes, Process Wastewater Suspended Solids, Nitrate, Nitrite, pH and Alkalinity.

Haloacetic Acid

Quarter	HAA Sample Result ug/L	Sampling Location
A	10.8	323 Sykes St.
B	14.3	223 Nelson St W.
C	17.7	223 Nelson St W.
D	22.7	223 Nelson St W.
RAA	**16.38**	

Trihalomethanes

Quarter	THM Sample Result ug/L	Sampling Location
A	21	91 Edwin St W.
B	37	Memorial Park Site 38
C	47	Grey Rd 7 Yard Hydrant
D	35	Memorial Park Auto Flusher
RAA	**35**	

Process Wastewater Total Suspended Solids

Sample Date	Result Value	Unit of Measure
January 12, 2023	15	mg/L
February 10, 2023	22	mg/L
March 8, 2023	15	mg/L
April 13, 2023	25	mg/L
May 11, 2023	17	mg/L
June 14, 2023	25	mg/L
July 17, 2023	11	mg/L
August 10, 2023	16	mg/L
September 15, 2023	12	mg/L
October 13, 2023	11	mg/L
November 17, 2023	11	mg/L
December 12, 2023	20	mg/L
Annual Average	**17**	**mg/L**

Nitrate Results

Sample Date	Location	Results (mg/L)
February 21, 2023	Meaford WTP-Treated Tap	0.289
May 15, 2023	Meaford WTP-Treated Tap	0.263
August 14, 2023	Meaford WTP-Treated Tap	0.231
November 20, 2023	Meaford WTP-Treated Tap	0.240

Nitrite Results

Sample Date	Location	Results (mg/L)
February 21, 2023	Meaford WTP – Treated Tap	0.003<MDL
May 15, 2023	Meaford WTP-Treated Tap	0.003<MDL
August 14, 2023	Meaford WTP-Treated Tap	0.003<MDL
November 20, 2023	Meaford WTP-Treated Tap	0.003<MDL

Summary of Lead, pH & Alkalinity Results

Sample Date	Location	Lead	pH	Alkalinity mg/L as CaCo3
March 27, 2023	223 Nelson St. W	0.23	7.42	76
	Golf Course Sample Stn	0.06	7.66	72
	Memorial Park Blow Off	0.03	7.70	72
September 25, 2023	223 Nelson St W	0.29	7.44	69
	Golf Course Sample Stn	0.09	7.55	69
	Memorial Park Auto Flusher	0.14	7.64	68

Summary of Inorganic Parameters

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Sept 25, 2023	0.6<MDL	ug/L	No
Arsenic	Sept 25, 2023	0.4	ug/L	No
Barium	Sept 25, 2023	13.3	ug/L	No
Boron	Sept 25, 2023	14	ug/L	No
Cadmium	Sept 25, 2023	0.003	ug/L	No
Chromium	Sept 25, 2023	0.22	ug/L	No
Mercury	Sept 25, 2023	0.01<MDL	ug/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Sodium	Sept 20, 2022	4.40	mg/L	No
Uranium	Sept 25, 2023	0.173	ug/L	No
Fluoride	Sept 20, 2022	0.06<MDL	mg/L	No
Nitrite	Feb 21, 2023 May 15, 2023 Aug 14, 2023 Nov 20, 2023	0.003<MDL 0.003<MDL 0.003<MDL 0.003<MDL	mg/L	No
Nitrate	Feb 21, 2023 May 15, 2023 Aug 14, 2023 Nov 20, 2023	0.289 0.263 0.231 0.240	mg/L	No

Summary of Organic Parameters

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance (Yes or No)
Alachlor	Sept 25, 2023	0.02<MDL	ug/L	No
Atrazine + N-dealkylated metabolites	Sept 25, 2023	0.01	ug/L	No
Atrazine	Sept 25, 2023	0.01	ug/L	No
Desethyl atrazine	Sept 25, 2023	0.01<MDL	ug/L	No
Azinphos-methyl	Sept 25, 2023	0.05<MDL	ug/L	No
Benzene	Sept 25, 2023	0.32<MDL	ug/L	No
Benzo(a)pyrene	Sept 25, 2023	0.004<MDL	ug/L	No
Bromoxynil	Sept 25, 2023	0.33<MDL	ug/L	No
Carbaryl	Sept 25, 2023	0.05<MDL	ug/L	No
Carbofuran	Sept 25, 2023	0.01<MDL	ug/L	No
Carbon Tetrachloride	Sept 25, 2023	0.17<MDL	ug/L	No
Chlorpyrifos	Sept 25, 2023	0.02<MDL	ug/L	No
Diazinon	Sept 25, 2023	0.02<MDL	ug/L	No
Dicamba	Sept 25, 2023	0.20<MDL	ug/L	No
1,2-Dichlorobenzene	Sept 25, 2023	0.41<MDL	ug/L	No
1,4-Dichlorobenzene	Sept 25, 2023	0.36<MDL	ug/L	No
1,2-Dichloroethane	Sept 25, 2023	0.35<MDL	ug/L	No
1,1-Dichloroethylen	Sept 25, 2023	0.33<MDL	ug/L	No
Dichloromethane	Sept 25, 2023	0.35<MDL	ug/L	No
2-4 Dichlorophenol	Sept 25, 2023	0.15<MDL	ug/L	No
2,4 Dichlorophenoxy acetic acid (2,4-D)	Sept 25, 2023	0.19<MDL	ug/L	No
Diclofop-methyl	Sept 25, 2023	0.40<MDL	ug/L	No
Dimethoate	Sept 25, 2023	0.06<MDL	ug/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance (Yes or No)
Diquat	Sept 25, 2023	1<MDL	ug/L	No
Diuron	Sept 25, 2023	0.03<MDL	ug/L	No
Glyphosate	Sept 25, 2023	1<MDL	ug/L	No
Malathion	Sept 25, 2023	0.02<MDL	ug/L	No
Metolachlor	Sept 25, 2023	0.01<MDL	ug/L	No
Metribuzin	Sept 25, 2023	0.02<MDL	ug/L	No
Monochlorobenzene	Sept 25, 2023	0.3<MDL	ug/L	No
Paraquat	Sept 25, 2023	1<MDL	ug/L	No
Picloram	Sept 25, 2023	1<MDL	ug/L	No
Pentachlorophenol	Sept 25, 2023	0.15<MDL	ug/L	No
Phorate	Sept 25, 2023	0.01<MDL	ug/L	No
PolychlorinatedBiphenyls (PCB)	Sept 25, 2023	0.04<MDL	ug/L	No
Prometryne	Sept 25, 2023	0.03<MDL	ug/L	No
Simazine	Sept 25, 2023	0.01<MDL	ug/L	No
THM (Note: Latest RAA)	Nov 20, 2023	35	ug/L	No
HAA (Note: Latest RAA)	Nov 20, 2023	16.38	ug/L	No
Terbufos	Sept 25, 2023	0.01<MDL	ug/L	No
Tetrachloroethylene	Sept 25, 2023	0.35<MDL	ug/L	No
2,3,4,6-Tetrachlorophenol	Sept 25, 2023	0.20<MDL	ug/L	No
2 methyl-4 chlorophenozyacetic acid (MCPA)	Sept 25, 2023	0.00012<MDL	mg/L	No
Triallate	Sept 25, 2023	0.01<MDL	ug/L	No
Trichloroethylene	Sept 25, 2023	0.44<MDL	ug/L	No
2,4,6-Trichlorophenol	Sept 25, 2023	0.25<MDL	ug/L	No
Trifluralin	Sept 25, 2023	0.02<MDL	ug/L	No
Vinyl Chloride	Sept 25, 2023	0.17<MDL	ug/L	No

2023 Summary report

Safe Drinking Water Act

Following the Walkerton tragedy in 2000, the Ontario Government developed a new, comprehensive legislative paradigm based on a source to tap, multi-barrier approach to the protection of drinking water. The Safe Drinking Water Act (SDWA), 2002, and its Regulations, contain requirements for Municipalities that provide potable water to their residents.

Under Section 19 Standard of Care of the SDWA, owners of a Drinking Water System are required to:

a) Exercise the level of care, diligence and skill in respect of a Municipal Drinking Water System that a reasonable prudent person would be expected to exercise in a similar situation; and
b) Act honestly, competently and with integrity, with a view to ensuring the protection and safety of the users of the Municipal Drinking Water System. 2002, c.32, s. 19(1)

Summary Report

Schedule 22 of Ontario Regulation 170/03 requires, for Large Municipal Residential Systems, that a Summary Report be prepared for distribution to Council by March 31, 2024 for the period from January 1 to December 31, 2023.

This regulation also requires the owner produce a Summary Report that includes the following:

- The requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water license, and any orders applicable to the system that were not met at any time during the period covered by the report and specify the duration of the failure and describe the measures taken to correct the situation.

- A summary of quantities and flow rates of the water supplied during the period covered by the report including monthly average and maximum daily flows
- The summary report must be presented and accepted by Council by March 31st of each year.

A hard copy of the Annual and Summary reports will be made available free of charge at the Meaford Water Plant after March 31st 2024. It will also be available for viewing on the Municipal website www.meaford.ca.

System Information – Meaford Drinking Water System

Municipal Drinking Water Licence – 089-101
Municipal Drinking Water Permit – 089-201
Permit to Take Water – 7605-74TJ9N
Financial Plan – 089-301A
Accredited Operational Plan – 089-401

Month	Max Day	Max M3	Min Day	Min M3	AVG Day M3	Monthly Total M3
JAN	22-Jan	1786	20-Jan	1504	1617	50135
FEB	05-Feb	1726	14-Feb	1510	1608	45035
MAR	03-May	1408	29-Mar	1091	1244	38557
APR	16-Apr	1461	04-Jun	1092	1227	36823
MAY	25-May	2411	26-May	989	1335	41381
JUNE	06-Jun	2175	27-Jun	1208	1509	45259
JULY	25-Jul	1870	07-Jan	1264	1482	45937
AUG	03-Aug	1572	24-Aug	1288	1424	44134
SEPT	21-Sep	2154	18-Sep	1262	1429	42856
OCT	03-Oct	1667	26-Oct	1184	1323	41024
NOV	24-Nov	1395	17-Nov	1117	1235	37049
DEC	31-Dec	1349	01-Dec	1072	1238	38367
Annual Average						
Total						**506557**

Meaford Water Treatment Plant
Waterloss

Plant	**506,557**	**m3**
Metered	**385,650**	**m3**
Difference	**120,907**	**m3**
Bulkwater	11000	m3
Backwash	8361	m3
Flushing/ Const.	25236	m3
Swimming Pool	659	m3
Main Breaks	11059	m3
Analyzers Cl2	525.6	m3
Turbidimeters	372	m3
Total	**57212**	**m3**
Difference- Total	63695	m3
Water Loss	63695	m3
	506557	m3
Percent Waterloss	**12.6%**	

MUNICIPALITY OF MEAFORD
WATER DEPARTMENT STATISTICS FOR YEAR ENDING DECEMBER 31, 2023

ROUTE	DESCRIPTION	WATER	SEWAGE
20	COMMERCIAL - MONTHLY	813	264
1	RESIDENTIAL - BI MONTHLY	1225	1096
2	RESIDENTIAL - BI MONTHLY	983	724
11	RESIDENTIAL - MONTHLY (VICTORIA VILLAGE)	64	64
	LEITH RESIDENTIAL - FLAT RATE BI-MONTHLY	15	
10	LEITH RESIDENTIAL - BI MONTHLY	139	
	TOTAL CUSTOMERS	3239	2148

WATER		SEWAGE	
URBAN RESIDENTIAL	2282	RESIDENTIAL	1884
COMMERCIAL SERVICE	813	COMM SERVICE	264
LEITH RESIDENTIAL	139		
TOTAL WATER	**3234**	TOTAL SEWAGE	**2148**

TOTAL WATER PUMPED AT WTP FOR YEAR	506557
TOTAL METERED WATER CONSUMPTION FOR YEAR	375356
FLUSHING/ CONSTRUCTION	25236
WATER MAIN BREAKS/LEAKS	11059
TOTAL BULK WATER SALES	11000
OTHER (SP/NON MTR/BCKWSH/TURBIDI/CHL	9917
UNACCOUNTED WATER FOR YEAR	57212
RESIDENTIAL URBAN MONTHLY AVERAGE	9.20012
TOTAL RESIDENTIAL CONSUMPTION	251936
TOTAL RESIDENTIAL CUSTOMERS	2282
COMMERCIAL SERVICE MONTHLY AVERAGE	12.6516
TOTAL COMMERCIAL SERVICE CONSUMPTION	123429
TOTAL COMMERCIAL SERVICE CUSTOMERS	813
OVERALL CONSUMPTION AVERAGE	10.1068
OVERALL CONSUMPTION	375365
TOTAL CUSTOMERS (less Leith)	3095
TOTAL LEITH CONSUMPTION	15551

January-23	Clearwell Filtered Cl2 Min	Clearwell Filtered Cl2 Max	Discharge Cl2 Min	Discharge Cl2 Max	Raw Water Avg	Raw Water Max	Filter Turb. Avg.	Filter Turb. Max	Filter Duty Performance Max %	Discharge Turb. Avg	Discharge Turb. Max	Raw Flow	Treated Flow	UV Dose	Initials
1	1.41	1.64	1.14	1.26	1.46	2.04	0.16	0.26	100.0%	0.11	0.34	1647	1730	56	CH
2	1.41	1.62	1.17	1.26	0.53	0.82	0.12	0.16	100.0%	0.16	0.37	1603	1533	48	OS
3	1.39	1.61	1.19	1.27	0.89	2.55	0.11	0.13	99.9%	0.11	0.30	1804	1644	48	DL
4	0.70	1.55	1.15	1.55	7.75	17.23	0.26	0.60	91.8%	0.20	3.65	2271	1617	48	DL
5	1.41	1.64	1.19	1.55	5.23	11.20	0.14	0.27	93.4%	0.61	4.00	1881	1663	48	DL
6	1.38	1.63	1.15	1.38	1.18	2.36	0.12	0.16	94.5%	0.37	1.06	1619	1618	50	DL
7	1.39	1.62	1.22	1.32	1.19	2.28	0.12	0.15	95.3%	0.09	0.17	1629	1632	51	DL
8	1.42	1.63	1.20	1.30	1.15	1.57	0.12	0.17	95.9%	0.08	0.25	2089	1647	52	DL
9	1.31	1.71	1.16	1.43	0.96	1.33	0.12	0.15	96.3%	0.16	0.26	1566	1655	52	BW
10	1.38	1.65	1.34	1.63	0.74	6.56	0.11	0.17	96.7%	0.11	0.27	1560	1548	51	BW
11	1.41	1.73	1.41	1.59	2.92	7.09	0.23	0.55	98.9%	0.08	0.12	2271	1558	46	BW
12	1.41	1.62	1.30	1.47	2.25	7.70	0.14	0.27	99.0%	0.13	0.19	1751	1557	47	BW
13	1.40	1.63	1.21	1.55	3.81	6.51	0.15	0.23	99.1%	0.13	0.20	1536	1571	38	BW
14	1.42	1.63	1.26	1.38	1.53	3.72	0.12	0.17	99.2%	0.10	0.22	1709	1699	47	BW
15	1.43	1.62	1.28	1.39	0.60	1.70	0.11	0.16	99.2%	0.07	0.14	1906	1746	47	BW
16	1.18	1.67	1.30	1.48	0.83	4.54	0.12	0.26	99.3%	0.06	0.14	1628	1616	47	BW
17	1.41	1.61	1.38	1.48	1.52	19.98	0.12	0.16	99.3%	0.08	0.41	1691	1595	47	OS
18	1.44	1.64	1.30	1.49	0.60	1.28	0.11	0.13	99.4%	0.08	0.26	2117	1636	47	OS
19	1.42	1.63	1.24	1.44	2.33	5.66	0.15	0.77	99.2%	0.08	0.23	1783	1580	48	BW
20	1.43	1.62	1.31	1.46	1.71	3.46	0.16	0.86	99.0%	0.07	0.24	1678	1504	49	OS
21	1.43	1.63	1.32	1.43	0.56	1.12	0.11	0.25	98.4%	0.08	0.11	1676	1633	49	OS
22	1.43	1.62	1.28	1.45	0.54	0.72	0.08	0.10	98.5%	0.08	0.14	1800	1786	48	OS
23	1.42	1.62	1.32	1.42	0.41	1.77	0.08	0.10	98.6%	0.07	0.18	2024	1508	49	DL
24	1.40	1.63	1.28	1.40	0.43	0.91	0.07	0.09	98.6%	0.07	0.20	1744	1570	49	DL
25	1.40	1.62	1.30	1.39	1.18	6.01	0.08	0.10	98.7%	0.09	0.29	1748	1580	51	DL
26	1.41	1.63	1.26	1.38	3.04	5.93	0.09	0.12	98.7%	0.08	0.26	1701	1561	50	DL
27	1.41	1.63	1.25	1.50	0.69	1.37	0.08	0.10	98.8%	0.08	0.20	1711	1516	49	DL
28	1.42	1.63	1.40	1.48	0.53	0.84	0.07	0.09	98.8%	0.07	0.19	1732	1699	50	DL
29	1.41	1.63	1.39	1.50	1.41	4.49	0.08	0.11	98.9%	0.06	0.16	1697	1593	52	DL
30	1.41	1.64	1.37	1.46	0.64	1.31	0.13	0.40	99.3%	0.06	0.23	1563	1627	48	BW
31	1.44	1.63	1.41	1.62	0.31	0.54	0.12	0.42	99.3%	0.07	4.00	2202	1713	48	BW
Overall Avg.	**1.51**		**1.36**								**Total**	55337	50135		
Average	**1.38**	**1.63**	**1.27**	**1.44**	**1.58**	**4.34**	**0.12**	**0.25**		**0.12**	**0.61**	**1785**	**1617**		
Max		**1.73**		**1.63**		**19.98**	**Max**	**0.86**			**4.00**	**2271**	1786		
Min	**0.70**		**1.14**		**0.31**			**0.09**		**0.06**	**Min**	**1536**	1504		

Monthly Filter Performance both filters 95% target: 99.1%

Maintenance/ Events	Generator Testing	10-Jan	
	Backwash Filter #1	11-Jan	
	Power Outage/Low Voltage	16-Jan	
	Power Outage	19-Jan	
	Backwash Filter #2	23-Jan	
	Backwash Filter #1/Back Flow Testin	31-Jan	

February-23	Clearwell Filtered Cl2 Min	Clearwell Filtered Cl2 Max	Discharge Cl2 Min	Discharge Cl2 Max	Raw Water Avg	Raw Water Max	Filter Turb. Avg.	Filter Turb. Max	Filter Duty Performance Max %	Discharge Turb. Avg	Discharge Turb. Max	Raw Flow	Treated Flow	UV Dose	Initials	
1	1.45	1.61	1.34	1.68	0.27	0.42	0.13	0.58	99.8%	0.05	0.06	1609	1550	46	BW	
2	1.38	1.63	1.34	1.46	0.41	1.24	0.14	0.33	99.6%	0.05	0.06	1710	1607	47	BW	
3	1.43	1.64	1.30	1.47	1.12	1.71	0.15	0.49	98.2%	0.05	0.07	1714	1577	46	BW	
4	1.43	1.63	1.34	1.47	0.86	1.43	0.17	0.84	97.2%	0.05	0.08	1801	1604	46	BW	
5	1.44	1.61	1.31	1.46	0.49	1.75	0.16	0.53	97.1%	0.05	0.15	2345	1726	38	BW	
6	1.43	1.65	1.34	1.51	0.52	1.03	0.16	0.50	96.8%	0.05	0.11	1757	1586	49	OS	
7	1.44	1.62	1.32	1.49	0.37	0.58	0.16	0.49	96.5%	0.05	0.07	1725	1554	47	OS	
8	1.43	1.62	1.31	1.43	0.31	0.53	0.16	0.46	96.2%	0.05	0.06	1683	1608	47	OS	
9	1.43	1.62	1.30	1.42	0.28	0.48	0.08	0.23	100.0%	0.05	0.08	1924	1570	48	OS	#1 Filter ran on Feb 9
							0.16	0.46	96.0%					50		#2 Filter ran on Feb 9
10	1.38	1.65	1.28	1.44	0.42	0.79	0.08	0.09	100.0%	0.06	0.07	1909	1580	48	OS	
11	1.42	1.62	1.33	1.50	0.48	0.74	0.08	0.10	100.0%	0.06	0.08	1885	1605	49	OS	
12	1.42	1.63	1.32	1.49	0.41	0.62	0.08	0.10	100.0%	0.06	0.08	1866	1699	41	OS	
13	1.41	1.65	1.34	1.48	0.42	1.73	0.08	0.10	100.0%	0.06	0.07	1691	1588	49	DL	
14	1.43	1.62	1.35	1.53	0.40	9.56	0.08	0.10	100.0%	0.06	0.20	1488	1510	49	DL	
15	1.40	1.65	1.36	1.56	0.62	2.82	0.08	0.10	100.0%	0.06	0.09	1741	1570	50	BW	
16	1.35	1.65	1.39	1.57	1.20	2.59	0.09	0.15	100.0%	0.06	0.08	1363	1551	48	DL	
17	1.41	1.64	1.41	1.52	4.65	7.49	0.11	0.22	100.0%	0.07	0.09	1639	1566	50	DL	
18	1.41	1.63	1.41	1.57	1.05	2.64	0.09	0.13	100.0%	0.08	0.11	2237	1690	51	BW	
19	1.40	1.65	1.39	1.55	0.45	1.11	0.08	0.10	100.0%	0.08	0.11	1766	1705	53	BW	
20	1.40	1.63	1.36	1.52	0.42	0.65	0.18	0.65	98.0%	0.07	0.08	1553	1673	46	OS	
21	1.44	1.62	1.35	1.52	0.38	0.45	0.21	0.86	97.7%	0.07	0.09	1592	1600	47	BW	
22	1.44	1.61	1.41	1.52	1.58	9.56	0.19	0.75	97.6%	0.07	0.11	2518	1619	37	OS	
23	1.36	1.63	1.38	1.53	6.80	13.02	0.20	0.89	97.4%	0.08	0.11	1532	1555	46	BW	
24	1.41	1.72	1.36	1.50	1.64	29.66	0.12	0.42	97.5%	0.10	0.16	1735	1542	47	BW	
25	1.44	1.62	1.28	1.45	0.74	1.69	0.12	0.18	97.6%	0.09	0.12	1770	1682	47	BW	
26	1.43	1.62	1.24	1.37	0.41	0.74	0.12	0.16	97.7%	0.07	0.11	1780	1693	48	BW	
27	1.41	1.62	1.23	1.41	1.48	3.95	0.11	0.19	99.6%	0.07	0.13	2043	1666	49	OS	#1 Filter ran on Fab 27
							0.12	0.14	97.8%					48		#2 Filter ran on Feb 27
28	1.42	1.61	1.31	1.44	1.57	3.91	0.10	0.15	99.6%	0.08	0.10	1273	1559	49	OS	
Overall Avg.	**1.63**			**1.42**							**Total**	49649	45035			
Average	**1.42**	**1.63**	**1.34**	**1.50**	**1.06**	**3.67**	**0.13**	**0.35**		**0.06**	**0.10**	**1773**	**1608**			
Max		**1.72**		**1.68**		**29.66**	**Max**	**0.89**			**0.20**	**2518**	1726			
Min			**1.23**		**0.27**			**0.09**		**0.05**	**Min**	**1273**	1510			

Monthly Filter Performance both filters 95% target: 98.7

Maintenance/ Events	Backwash Filter #2	09-Feb	
	Generator run	14-Feb	
	Switch cl2 tank for the weekend	16-Feb	
	Backwash Filter #1	22-Feb	
	Raw Turb Meter Maintenance	24-Feb	

March-23	Clearwell Filtered Cl2 Min	Clearwell Filtered Cl2 Max	Discharge Cl2 Min	Discharge Cl2 Max	Raw Water Avg	Raw Water Max	Filter Turb. Avg.	Filter Turb. Max	Filter Duty Performance Max %	Discharge Turb. Avg	Discharge Turb. Max	Raw Flow	Treated Flow	UV Dose	Initials	
1	1.43	1.61	1.34	1.45	0.56	0.84	0.12	0.16	100.0%	0.09	0.14	2021	1406	45.04	DL	
2	1.44	1.61	1.30	1.44	0.82	1.49	0.12	0.16	100.0%	0.08	0.21	1206	1177	50.18	CH	
3	1.43	1.61	1.30	1.42	0.94	2.65	0.12	0.16	100.0%	0.08	0.11	1242	1214	47	CH	
4	1.40	1.61	1.28	1.41	2.71	5.76	0.11	0.17	100.0%	0.08	0.10	1270	1305	49	OS	
5	1.43	1.61	1.28	1.41	1.29	1.85	0.09	0.11	100.0%	0.09	0.13	1240	1408	48.8	OS	
6	1.43	1.61	1.28	1.43	0.66	1.19	0.09	0.11	100.0%	0.09	0.13	1789	1232	48.77	CH	
7	1.43	1.61	1.30	1.41	0.62	2.73	0.09	0.11	100.0%	0.09	0.11	1731	1297	48.38	BW	
8	1.33	1.65	1.30	1.50	0.66	7.23	0.09	0.12	100.0%	0.09	0.17	1226	1186	48.76	BW	
9	1.42	1.62	1.39	1.54	1.24	4.54	0.10	0.12	100.0%	0.09	0.11	1253	1235	46.19	BW	
10	1.42	1.63	1.43	1.57	1.85	4.35	0.10	0.12	100.0%	0.09	0.13	1580	1253	49.9	BW	#1 Filter ran on Mar 10
							0.18	0.52	99.9%					46.88	BW	#2 Filter ran on Mar 10
11	1.43	1.62	1.37	1.55	1.78	6.56	0.13	0.17	99.9%	0.10	0.13	1256	1356	46.15	CH	
12	1.43	1.60	1.34	1.48	0.47	0.91	0.13	0.15	99.9%	0.10	0.12	1236	1326	46.87	CH	
13	1.43	1.63	1.32	1.48	0.57	0.81	0.13	0.15	99.9%	0.09	0.14	1716	1356	46.87	BW	
14	1.43	1.61	1.29	1.44	0.58	0.97	0.13	0.18	99.9%	0.09	0.12	1099	1191	48.37	BW	
15	1.44	1.62	1.26	1.40	0.63	0.94	0.13	0.15	99.9%	0.09	0.11	1248	1238	49.11	BW	
16	1.43	1.63	1.31	1.42	0.54	0.78	0.13	0.15	99.9%	0.09	0.13	1978	1272	50.27	BW	
17	1.44	1.62	1.31	1.44	0.40	0.67	0.13	0.17	100.0%	0.09	0.12	1169	1219	46.87	OS	
18	1.42	1.62	1.31	1.44	0.73	1.69	0.14	0.15	100.0%	0.09	0.14	1222	1321	48.75	BW	
19	1.43	1.62	1.30	1.44	0.75	1.32	0.14	0.25	100.0%	0.10	0.11	1827	1290	50.2	BW	
20	1.45	1.62	1.27	1.45	0.45	1.54	0.13	0.17	100.0%	0.10	0.17	1295	1213	50.84	BW	
21	1.43	1.61	1.30	1.42	0.38	0.63	0.13	0.17	100.0%	0.10	0.15	1229	1112	48.73	EH	
22	1.44	1.61	1.29	1.41	0.36	0.62	0.11	0.42	100.0%	0.10	0.53	1503	1172	46.92	EH	
23	1.43	1.62	1.27	1.43	0.38	0.61	0.10	0.11	100.0%	0.12	0.31	1430	1319	48.5	EH	#1 Filter ran on Mar 23
							0.17	0.49	99.9%					46.5	EH	#2 Filter ran on Mar 23
24	1.43	1.61	1.25	1.40	0.49	3.44	0.10	0.11	100.0%	0.10	0.18	1300	1185	48	EH	
25	1.41	1.61	1.28	1.43	3.15	7.87	0.14	0.22	100.0%	0.12	0.20	1259	1296	47	OS	
26	1.39	1.61	1.27	1.40	3.26	6.73	0.15	0.42	99.7%	0.14	0.23	1297	1260	48	OS	
27	1.41	1.62	1.23	1.39	0.80	1.55	0.11	0.14	99.7%	0.17	0.25	1239	1132	51	OS	
28	1.40	1.61	1.21	1.36	0.52	0.85	0.10	0.12	99.7%	0.14	0.21	1198	1183	49	OS	
29	1.41	1.62	1.22	1.34	0.54	1.12	0.10	0.12	99.7%	0.12	0.17	1242	1091	48	OS	
30	1.41	1.63	1.19	1.34	0.50	1.05	0.10	0.12	99.7%	0.13	0.19	1161	1183	48	OS	
31	1.42	1.62	1.25	1.39	0.46	0.78	0.10	0.12	99.7%	0.17	0.37	1182	1129	48	OS	
Overall Avg.	**1.52**		**1.36**								**Total**	42644	38557			
Average	**1.42**	**1.62**	**1.29**	**1.43**	**0.94**	**2.39**	**0.12**	**0.19**		**0.10**	**0.17**	**1376**	**1244**			
Max		**1.65**		**1.57**		**7.87**	**Max**	**0.52**			**0.53**	**2021**	1408			
Min			**1.19**		**0.36**			**0.11**		**0.08**	**Min**	**1099**	1091			

Monthly Filter Performance both filters 95% target: 99.8%

Maintenance/ Events	Break on Grey Rd 7 Repaired	01-Mar
	Filter #1 Cooling Value replaced by electrician	02-Mar
	Backwash Filter #2	07-Mar
	Backwash Filter #1	16-Mar
	Switch duty filter & backwash with blower #2 Filter	22-Mar
	Reference Sensor Calibrations on UV #1 & #2	22-Mar

April-23	Clearwell Filtered Cl2 Min	Clearwell Filtered Cl2 Max	Discharge Cl2 Min	Discharge Cl2 Max	Raw Water Avg	Raw Water Max	Filter Turb. Avg.	Filter Turb. Max	Filter Duty Performa	Discharge Turb. Avg	Discharge Turb. Max	Raw Flow	Treated Flow	UV Dose	Initials	
1	1.41	1.62	1.26	1.41	1.48	3.14	0.12	0.19	100.0%	0.16	0.43	1787	1245	48	OS	
2	1.41	1.61	1.25	1.43	2.62	3.71	0.13	0.20	100.0%	0.13	0.19	1276	1201	48.04	OS	
3	1.40	1.62	1.23	1.36	1.54	4.17	0.13	0.19	100.0%	0.14	0.21	1271	1185	49	EH	#1 Filter ran on Apr 3
							0.16	0.20	100.0%					48	EH	#2 Filter ran on Apr 3
4	1.43	1.63	1.27	1.38	0.89	1.37	0.15	0.20	100.0%	0.14	0.27	1102	1156	46.87	OS	
5	1.51	1.69	1.25	1.47	4.57	9.82	0.22	0.41	96.0%	0.15	0.27	1234	1136	49.13	BW	
6	1.38	1.64	1.30	1.45	9.61	16.90	0.20	0.59	95.3%	0.17	0.34	1958	1092	46.9	BW	
7	1.41	1.68	1.30	1.45	6.42	10.69	0.17	0.28	96.0%	0.20	0.29	1090	1245	46.9	BW	
8	1.39	1.65	1.28	1.46	2.40	4.03	0.15	0.20	96.5%	0.21	0.38	1612	1301	46.52	BW	
9	1.43	1.61	1.23	1.39	1.44	2.29	0.15	0.19	96.9%	0.15	0.31	1306	1295	47.25	BW	
10	1.43	1.62	1.23	1.36	0.82	1.28	0.15	0.17	97.2%	0.15	0.39	1179	1252	48	BW	
11	1.41	1.61	1.21	1.37	0.55	1.08	0.15	0.17	97.4%	0.15	0.27	1264	1163	48.76	OS	
12	1.37	1.64	1.21	1.40	0.56	0.91	0.12	0.17	100.0%	0.14	0.29	2053	1205	47.5	BW	
13	1.41	1.62	1.32	1.46	0.58	0.91	0.11	0.20	100.0%	0.14	0.20	1292	1279	47.7	BW	
14	1.43	1.62	1.36	1.52	0.59	0.87	0.11	0.14	100.0%	0.13	0.27	1269	1214	45.07	EH	
15	1.40	1.61	1.35	1.51	0.56	0.90	0.11	0.12	100.0%	0.13	0.14	1586	1363	44.33	CH	
16	1.38	1.64	1.33	1.50	0.48	0.77	0.11	0.12	100.0%	0.14	0.16	1534	1461	46.19	CH	
17	1.36	1.68	1.31	1.50	0.55	0.80	0.11	0.12	100.0%	0.16	0.27	994	1211	45.44	EH	
18	1.38	1.63	1.30	1.45	0.59	0.91	0.11	0.12	100.0%	0.16	0.36	1389	1182	45.8	EH	
19	1.38	1.64	1.27	1.48	1.11	6.73	0.11	0.15	100.0%	0.15	0.47	1255	1127	47.3	BW	
20	1.42	1.62	1.23	1.45	0.88	1.74	0.11	0.13	100.0%	0.15	0.20	1233	1141	47.28	EH	
21	1.30	1.68	1.26	1.38	1.86	2.64	0.18	0.25	100.0%	0.17	0.24	1409	1141	44.3	EH	#1 Filter ran on Apr 21
							0.18	0.25	98.7%					48	EH	#2 Filter ran on Apr 21
22	1.39	1.65	1.27	1.41	0.80	1.29	0.12	0.15	100.0%	0.21	0.35	1093	1270	52.15	EH	
23	1.37	1.64	1.31	1.50	0.70	0.90	0.11	0.17	100.0%	0.25	0.41	1215	1292	51.39	EH	
24	1.42	1.69	1.25	1.51	0.62	0.97	0.12	0.14	100.0%	0.22	4.00	1698	1209	53	EH	#1 Filter ran on Apr 24
							0.18	0.27	98.8%					46	EH	#2 Filter ran on Apr 24
25	1.43	1.60	1.22	1.43	0.42	0.70	0.15	0.18	98.9%	0.21	0.36	1250	1171	46.5	OS	
26	1.42	1.63	1.22	1.34	0.42	0.63	0.15	0.19	98.9%	0.19	0.28	1814	1223	47.68	EH	
27	1.42	1.62	1.18	1.33	0.46	0.68	0.15	0.22	99.0%	0.21	0.35	1265	1192	47	BW	
28	1.29	1.71	1.16	1.31	0.47	0.64	0.15	0.18	99.0%	0.15	0.19	1270	1241	47	OS	
29	0.90	1.75	1.16	1.36	0.57	0.82	0.16	0.20	99.0%	0.21	0.34	1386	1313	46.91	CH	
30	1.42	1.63	1.12	1.41	0.56	0.78	0.16	0.20	99.1%	0.17	0.48	1470	1317	46.91	CH	
Overall Avg.	**1.51**		**1.34**								**Total**	41554	36823			
Average	**1.38**	**1.64**	**1.25**	**1.43**	**1.50**	**2.77**	**0.14**	**0.20**		**0.17**	**0.42**	**1385**	**1227**			
Max		**1.75**		**1.52**		**16.90**	**Max**	**0.59**			**4.00**	**2053**	1461			
Min			**1.12**		**0.42**			**0.12**		**0.13**	**Min**	**994**	1092			

Monthly Filter Performance both filters 95% target: 99.5

Maintenance/ Events	Thunder Storm-Power Outage	05-Apr
	Backwash Filer #1	06-Apr
	Backwash Filter #2	12-Apr
	Generator Maintenance	19-Apr
	UV Reference sensor checks	19-Apr
	UV Critical Alarm #1 UV Replaced system sensor	21-Apr
	High discharge turb alarm. Adjusted flow, ran highlift #3	24-Apr
	Replace UVT Bulb	26-Apr
	Blackwash Filter #1	26-Apr

May-23	Clearwell Filtered Cl2 Min	Clearwell Filtered Cl2 Max	Discharge Cl2 Min	Discharge Cl2 Max	Raw Water Avg	Raw Water Max	Filter Turb. Avg.	Filter Turb. Max	Filter Duty Performance Max %	Discharge Turb. Avg	Discharge Turb. Max	Raw Flow	Treated Flow	UV Dose	Initials	
1	1.39	1.67	1.31	1.48	2.91	4.74	0.22	0.41	87.6%	0.15	0.17	1216	1193	46.92	EH	
2	1.10	1.68	1.19	3.63	2.17	10.47	0.17	0.28	93.8%	0.23	4.00	1356	1110	46.91	EH	
3	1.39	1.71	1.37	1.57	0.92	1.61	0.15	0.18	95.9%	0.26	0.33	1283	1247	47.66	BW	
4	1.40	1.62	1.28	1.53	0.56	1.62	0.15	0.19	96.9%	0.25	0.32	1325	1239	46.92	BW	
5	1.31	1.67	1.25	1.43	0.50	0.76	0.16	0.20	97.5%	0.24	0.35	1271	1184	49.17	EH	
6	1.38	1.65	1.32	1.48	0.31	0.57	0.15	0.28	97.9%	0.19	0.24	1280	1231	49.17	BW	
7	1.39	1.63	1.36	1.58	0.25	0.45	0.15	0.22	98.2%	0.20	0.24	1232	1184	46.94	BW	
8	1.41	1.69	1.34	1.76	0.38	0.59	0.54	0.89	87.5%	0.26	4.00	1638	1350	53.86	EH	#1 Filter ran on May 8
							0.16	0.29	98.5%					48.8	EH	#2 Filter ran on May 8
9	1.38	1.61	1.25	1.48	0.28	0.63	0.14	0.28	88.9%	0.31	0.38	1233	1297	49.55	EH	#1 Filter ran on May 9
							0.15	0.19	98.6%					49.16	EH	#2 Filter ran on May 9
10	1.36	1.66	1.09	1.51	0.18	2.32	0.12	0.13	90.0%	0.25	0.41	2074	1310	51.43	EH	
11	1.43	1.63	1.13	1.27	0.26	0.45	0.12	0.13	90.9%	0.22	0.24	1180	1372	49.56	EH	
12	1.42	1.64	1.16	1.58	0.27	0.47	0.12	0.13	91.7%	0.23	0.24	1742	1248	49.17	EH	
13	1.42	1.63	1.27	1.46	0.18	0.38	0.12	0.13	92.3%	0.24	0.27	1156	1381	49.92	EH	
14	1.41	1.62	1.25	1.45	0.21	0.47	0.11	0.13	92.9%	0.25	0.27	1825	1423	52.97	EH	
15	1.26	1.70	1.23	1.50	0.19	0.45	0.11	0.13	93.3%	0.26	0.38	1258	1300	51.78	BW	
16	1.39	1.62	1.39	1.69	0.21	0.52	0.11	0.13	93.8%	0.27	2.40	1466	1336	51.78	EH	
17	1.39	1.63	1.27	1.63	0.65	1.46	0.19	0.23	99.3%	0.28	0.30	1215	1261	45.84	EH	
18	1.39	1.62	1.22	1.36	0.32	0.84	0.16	0.23	99.3%	0.30	0.31	1692	1308	46.21	EH	
19	1.39	1.64	1.19	1.47	0.22	0.47	0.11	0.15	94.7%	0.30	0.33	1507	1305	52.16	EH	
20	1.38	1.65	1.32	1.51	0.20	0.42	0.11	0.13	95.0%	0.20	0.79	1458	1393	52.16	CH	
21	1.39	1.66	1.34	1.52	0.25	0.54	0.11	0.13	95.2%	0.09	0.11	1576	1398	51.41	CH	
22	1.38	1.63	1.31	1.45	0.21	0.44	0.11	0.13	95.2%	0.09	0.10	1294	1599	52.16	CH	
23	1.41	1.63	1.30	1.45	0.22	0.38	0.11	0.14	95.7%	0.10	0.11	1793	1342	51.04	EH	
24	1.41	1.62	1.28	1.45	1.01	3.00	0.12	0.15	95.8%	0.10	0.11	1331	1279	42.8	BW	#1 Filter ran on May 24
							0.17	0.21	99.5%					46.93	BW	#2 Filter ran on May 24
25		1.65	1.12	1.61	0.54	0.94	0.11	0.15	96.0%	0.12	4.00	1981	2411	51.8	EH	#1 Filter ran on May 25
							0.17	0.21	99.5%					46.55	EH	#2 Filter ran on May 25
26		2.00	1.24	1.53	0.27	0.59	0.16	0.19	99.5%	0.13	0.15	1644	989	45.47	EH	
27	1.40	1.65	1.21	1.39	0.24	0.40	0.16	0.18	99.5%	0.13	0.14	1698	1355	46.94	EH	
28	1.41	1.64	1.23	1.38	0.23	0.38	0.16	0.18	99.6%	0.12	0.14	1346	1465	46.94	BW	
29	1.40	1.63	1.18	1.55	0.25	0.41	0.16	0.19	99.6%	0.13	0.14	1587	1397	46.94	EH	
30	1.38	1.85	1.36	1.62	0.27	0.49	0.16	0.19	99.6%	0.14	4.00	1327	1236	46.93	EH	
31	1.37	1.63	1.23	1.57	0.22	0.45	0.16	0.21	99.6%	0.14	0.20	2139	1238	46.57	EH	
Overall Avg.	**1.52**		**1.42**								**Total**	46123	41381			
Average	**1.38**	**1.66**	**1.26**	**1.58**	**0.48**	**1.22**	**0.15**	**0.21**		**0.20**	**0.81**	**1488**	**1335**			
Max		**2.00**		**3.63**		**10.47**	**Max**	**0.89**			**4.00**	**2139**	2411			
Min			**1.09**		**0.18**			**0.13**		**0.09**	**Min**	**1156**	989			

Monthly Filter Performance both filters 95% target: 98.2%

Maintenance/ Events	Ran HL #1-turb spike	02-May
	Ran HL #2, Switch duty filter to #1	08-May
	Generator Run, Backwash #2 Filter	10-May
	Ran HL #3	15-May
	Adjusted flow in Dist. Turb meter	20-May
	UV #1 Critical alarm see trends & reports	24-May
	Fire @ Johnny B's	25-May
	Fire @ Johnny B's Advisory	26-May
	Advisory in place	28-May
	Flow meter calibrations	30-May

June-23	Clearwell Filtered Cl2 Min	Clearwell Filtered Cl2 Max	Discharge Cl2 Min	Discharge Cl2 Max	Raw Water Avg	Raw Water Max	Filter Turb. Avg.	Filter Turb. Max	Filter Duty Performance Max %	Discharge Turb. Avg	Discharge Turb. Max	Raw Flow	Treated Flow	UV Dose	Initials	
1	1.37	1.63	1.34	1.51	0.18	0.35	0.13	0.86	99.8%	0.14	0.15	1448	1435	51.05	EH	
2	1.41	1.64	1.30	1.46	0.21	0.37	0.11	0.12	99.9%	0.14	0.16	1869	1569	50.68	NE	
3	1.36	1.66	1.27	1.46	0.19	0.39	0.16	0.35	99.9%	0.15	0.18	1779	1504	47.72	EH	
4	1.39	1.65	1.23	1.36	0.21	0.42	0.16	0.35	99.8%	0.15	0.16	1912	1684	48.53	EH	
5	1.36	1.67	1.23	1.40	0.18	0.37	0.17	0.36	99.8%	0.15	0.17	1652	1615	49.2	EH	
6	1.40	1.67	1.22	1.39	0.30	0.44	0.17	0.34	99.8%	0.16	0.18	2355	2175	48.83	NE	
7	1.35	1.64	1.14	1.30	0.34	0.49	0.17	0.24	99.8%	0.16	0.17	1781	1572	49.19	NE	
8	1.36	1.64	1.17	1.29	0.34	0.51	0.11	0.14	100.0%	0.16	0.17	1811	1585	50.68	NE	#1 Filter ran on Jun8
							0.17	0.24	99.8%						NE	#2 Filter ran on Jun 8
9	1.37	1.82	1.05	1.73	0.36	0.55	0.11	0.13	100.0%	0.18	4.00	1557	1301	51.05	NE	
10	1.45	1.77	1.21	1.55	0.30	0.51	0.11	0.14	100.0%	0.18	0.19	1306	1549	51.78	BW	
11	1.47	1.59	1.37	1.54	0.40	0.65	0.11	0.15	99.9%	0.17	0.19	1746	1416	51.41	BW	
12	1.45	1.78	1.25	1.49	0.36	0.52	0.11	0.15	100.0%	0.18	0.26	1166	1258	51.04	NE	
13	1.43	1.78	1.25	1.41	0.34	0.53	0.11	0.17	100.0%	0.18	0.23	2269	1225	51.42	NE	
14	0.62	1.94	1.25	1.75	0.32	3.85	0.11	0.17	100.0%	0.19	0.20	1588	1386	50.3	BW	
15	1.29	1.60	1.52	2.02	0.53	0.98	0.11	0.16	100.0%	0.23	4.00	1305	1322	51.77	BW	
16	1.45	1.77	1.67	2.01	0.31	0.53	0.11	0.17	100.0%	0.22	2.62	1605	1449	52.16	NE	
17	1.26	1.63	1.36	1.72	0.28	0.52	0.11	0.16	100.0%	0.20	0.22	1777	1600	52.54	CH	
18	1.51	1.66	1.48	1.73	0.27	0.41	0.11	0.16	100.0%	0.21	0.22	1635	1721	52.55	CH	
19	1.42	1.68	1.45	1.69	0.28	0.47	0.11	0.16	100.0%	0.21	0.22	1942	1942	52.56	EH	
20	1.52	1.65	1.59	1.70	0.27	0.47	0.11	0.16	99.9%	0.21	0.23	2026	1649	53.05	NE	
21	1.52	1.67	1.47	1.68	0.30	0.46	0.11	0.17	100.0%	0.22	0.24	1997	1857	54.06	NE	#1 Filter ran on Jun 21
							0.19	0.24	99.9%					55.54	NE	#2 Filter ran on Jun 21
22	1.45	1.75	1.42	1.65	0.29	0.51	0.13	0.51	100.0%	0.23	0.25	1562	1654	58.97	EH	#1 Filter ran on Jun 22
							0.18	0.21	99.9%					47	EH	#2 Filter ran on Jun 22
23	1.36	1.66	1.31	1.69	0.29	0.46	0.18	0.20	99.9%	0.23	0.25	1642	1312	46.63	NE	
24	1.37	1.56	1.54	1.86	0.31	4.33	0.18	0.21	99.9%	0.23	0.24	1862	1444	47	EH	
25	1.41	1.78	1.41	1.84	0.27	0.50	0.18	0.32	99.9%	0.23	0.25	1329	1527	46.65	EH	
26	1.35	1.51	1.36	1.70	0.25	0.47	0.17	0.22	99.9%	0.24	0.27	1261	1252	46.65	MD	
27	1.36	1.70	1.49	1.73	0.35	0.54	0.18	0.22	99.9%	0.18	0.28	2152	1208	47	MD	
28	1.41	1.71	1.46	1.77	0.34	0.55	0.18	0.24	99.9%	0.11	0.14	1315	1272	46.63	MD	
29	1.40	1.77	1.33	1.68	0.41	0.64	0.18	0.24	100.0%	0.10	0.15	1632	1422	46.99	MD	
30	1.47	1.76	1.50	1.72	0.33	0.67	0.18	0.23	100.0%	0.11	0.36	1464	1354	46.98	NE	
Overall Avg.	**1.53**		**1.49**								**Total**	50745	45259			
Average	**1.38**	**1.69**	**1.35**	**1.63**	**0.30**	**0.75**	**0.14**	**0.24**		**0.18**	**0.55**	**1692**	**1509**			
Max		**1.94**		**2.02**		**4.33**	**Max**	**0.86**			**4.00**	**2355**	2175			
Min			**1.05**		**0.18**			**0.12**		**0.10**	**Min**	**1166**	1208			

Monthly Filter Performance both filters 95% target: 100

Maintenance/ Events	Fireflow Testing Bayfield St	05-Jun
	Ran Highlift #3- turb spike	09-Jun
	Backwash Filter #2	13-Jun
	Generator Testing	14-Jun
	Ran Highlift- turb spike	15-Jun
	Ran Highlift- turb spike	16-Jun
	Started Hydrant flushing	22-Jun
	Backwash Filter #1	27-Jun

July-23	Clearwell Filtered Cl2 Min	Clearwell Filtered Cl2 Max	Discharge Cl2 Min	Discharge Cl2 Max	Raw Water Avg	Raw Water Max	Filter Turb. Avg.	Filter Turb. Max	Filter Duty Performance Max %	Discharge Turb. Avg	Discharge Turb. Max	Raw Flow	Treated Flow	UV Dose	Initials	
1	1.52	1.66	1.49	1.75	0.34	0.50	0.18	0.24	100.0%	0.10	0.16	1603	1264	49.25	BW	
2	1.53	1.73	1.48	1.81	0.33	0.51	0.18	0.24	100.0%	0.15	0.37	1640	1373	49.26	BW	
3	1.38	1.66	1.28	1.60	0.32	0.49	0.18	0.24	100.0%	0.22	0.35	1361	1581	48.51	BW	
4	1.40	1.73	1.43	1.68	0.30	0.47	0.18	0.25	100.0%	0.21	0.36	1896	1552	48.9	MD	
5	1.36	1.77	1.31	1.87	0.31	0.54	0.18	0.25	100.0%	0.19	4.00	1783	1601	50.71	NE	#1 Filter on Jul 5
														50.02		#2 Filter on Jul 5
6	1.35	1.68	1.27	1.81	0.32	0.46	0.07	0.10	100.0%	0.10	0.20	1986	1276	51.08	CH	
7	1.52	1.67	1.34	1.63	0.34	0.58	0.07	0.10	100.0%	0.09	0.11	1689	1393	49.2	NE	
8	1.47	1.62	1.37	1.61	0.34	0.60	0.06	0.11	100.0%	0.09	0.10	1131	1416	49.19	CH	
9	1.52	1.69	1.41	1.63	0.34	0.70	0.06	0.12	100.0%	0.08	0.10	1706	1349	46.82	CH	
10	1.26	1.57	1.27	1.60	0.35	0.88	0.06	0.13	100.0%	0.08	0.10	1361	1457	51.08	NE	
11	1.26	1.63	1.42	1.63	0.38	0.80	0.06	0.14	100.0%	0.08	0.10	1863	1400	48.46	NE	
12	1.47	1.67	1.46	1.63	0.43	0.93	0.07	0.16	100.0%	0.08	0.10	1315	1378	52.58	NE	
13	1.42	1.60	1.35	1.55	0.52	1.07	0.07	0.14	100.0%	0.09	0.10	1782	1269	51.08	NE	
14	1.43	1.63	1.36	1.62	0.47	1.01	0.07	0.13	100.0%	0.09	0.10	1325	1305	49.95	NE	
15	1.45	1.67	1.50	1.72	0.48	1.02	0.07	0.12	100.0%	0.09	0.11	1358	1337	50.71	EH	
16	1.45	1.66	1.53	1.65	0.45	0.96	0.06	0.11	100.0%	0.09	0.11	1782	1453	50.71	EH	
17	1.48	1.56	1.47	1.65	0.42	0.81	0.06	0.10	100.0%	0.11	0.26	2034	1404	52.2	NE	#1 Filter on Jul 17
									99.8%					45.19		#2 Filter on Jul 17
18	1.44	1.73	1.50	1.69	0.40	0.83	0.21	0.25	100.0%	0.11	0.14	1179	1420	46.65	NE	
19	1.53	1.66	1.45	1.65	0.46	0.77	0.20	0.22	99.8%	0.11	0.13	1930	1521	45.93	BW	
20	1.48	1.68	1.48	1.63	0.40	0.72	0.11	0.13	99.8%	0.11	0.13	1457	1363	46.63	NE	
21	1.48	1.66	1.38	1.63	0.52	1.01	0.20	0.27	99.8%	0.11	0.13	1579	1468	46.66	NE	
22	1.50	1.66	1.41	1.61	0.41	0.84	0.09	0.22	99.8%	0.12	0.13	1874	1494	51.09	BW	
23	1.41	1.64	1.35	1.54	0.42	0.79	0.08	0.10	99.8%	0.12	0.13	1273	1602	50.32	BW	
24	1.48	1.67	1.41	1.58	0.43	0.77	0.07	0.08	99.5%	0.12	0.14	2182	1668	51.82	MD	#1 Filter on Jul 24
									99.9%					46.65	MD	#2 Filter on Jul 24
25	1.37	1.74	1.45	1.85	0.47	0.75	0.20	0.28	99.9%	0.12	0.27	2006	1870	46.66	MD	
26	1.22	1.59	1.25	1.67	0.48	0.78	0.20	0.27	99.9%	0.12	0.14	1989	1822	47.01	MD	
27	1.30	1.72	1.25	1.91	0.43	0.78	0.20	0.26	99.9%	0.15	4.00	1974	1781	46.66	MD	
28	1.28	1.51	1.20	3.15	0.44	0.78	0.20	0.25	99.9%	0.13	4.00	1600	1523	46.67	MD	
29	1.34	1.66	1.32	1.56	0.50	0.87	0.20	0.24	99.9%	0.11	0.13	1511	1433	47.43	MD	
30	1.45	1.63	1.39	1.58	0.53	0.84	0.08	0.21	100.0%	0.11	0.13	1547	1506	49.97	MD	
31	1.44	1.69	1.34	2.01	0.50	0.90	0.07	0.10	100.0%	0.13	4.00	1642	1658	50.33	BW	
Overall Avg.	**1.54**		**1.56**								**Total**	51358	45937			
Average	**1.42**	**1.66**	**1.38**	**1.73**	**0.41**	**0.77**	**0.12**	**0.18**		**0.12**	**0.66**	**1657**	**1482**			
Max		**1.77**		**3.15**		**1.07**	**Max**	**0.28**			**4.00**	**2182**	1870			
Min			**1.20**		**0.30**			**0.08**		**0.08**	**Min**	**1131**	1264			

Monthly Filter Performance both filters 95% target: 99.9

Maintenance/ Events	Ran HLP #1, Dist Turb Spiked	05-Jul	
	Generating Testing	25-Jul	
	Ran HLP #2, 3, Dist Turb Spiked	27-Jul	
	Ran HLP #2 Dist Turb & Cl2 Spiked	28-Jul	
	Ran HLP #1, 2, 3, Dist Turb Spiked	31-Jul	

August-23	Clearwell Filtered Cl2 Min	Clearwell Filtered Cl2 Max	Discharge Cl2 Min	Discharge Cl2 Max	Raw Water Avg	Raw Water Max	Filter Turb. Avg.	Filter Turb. Max	Filter Duty Performance Max %	Discharge Turb. Avg	Discharge Turb. Max	Raw Flow	Treated Flow	UV Dose	Initials	
1	1.36	1.62	1.33	2.75	0.45	0.80	0.07	0.10	100.0%	0.15	4.00	1790	1473	50.33	BW	
2	1.37	1.74	1.41	3.28	0.42	0.78	0.07	0.10	100.0%	0.20	2.28	1219	1490	51.45	JR	
3	0.91	2.00	1.39	1.77	0.41	2.51	0.07	0.10	100.0%	0.18	4.00	2217	1572	51.47	JR	
4	1.35	1.83	1.27	1.50	0.46	0.74	0.07	0.11	100.0%	0.16	0.20	1855	1464	51.45	EH	
5	1.46	1.81	1.20	1.32	0.65	1.25	0.07	0.10	100.0%	0.15	0.18	1301	1517	51.1	EH	
6	1.47	1.82	1.16	1.26	0.65	1.06	0.08	0.11	100.0%	0.15	0.16	1874	1541	52.95	EH	
7	1.40	1.84	1.13	1.33	0.57	1.07	0.08	0.12	100.0%	0.15	0.17	1362	1434	50.33	EH	
8	1.41	1.85	1.14	1.36	0.71	1.55	0.07	0.11	97.4%	0.15	0.19	2250	1451	51.82	JR	#1 Filter on Aug 8
							0.23	0.43	100.0%					46.32	JR	#2 Filter on Aug 8
9	1.46	1.90	1.22	1.43	0.47	0.73	0.24	0.45	97.6%	0.15	0.19	1855	1497	46.3	JR	
10	1.28	1.86	1.19	1.32	0.45	0.74	0.24	0.46	97.8%	0.13	0.16	1881	1445	47.79	BW	
11	1.47	1.84	1.12	1.88	0.48	0.80	0.25	0.46	98.0%	0.16	0.39	1487	1388	46.31	BW	
12	1.43	1.83	1.16	2.04	0.46	0.70	0.26	0.36	98.1%	0.14	0.56	1489	1377	47.01	BW	
13	1.42	1.88	1.22	1.41	0.54	0.77	0.26	0.37	98.2%	0.10	0.14	1318	1394	48.67	BW	
14	1.48	1.82	1.27	1.38	0.53	0.83	0.28	0.34	97.8%	0.08	0.16	1786	1423	46.64	JR	
15	1.48	1.82	1.21	1.38	0.50	0.92	0.15	0.34	97.8%	0.08	0.09	1641	1356	47.9	MD	
16	1.48	1.83	1.23	1.32	0.47	0.75	0.06	0.13	98.0%	0.08	0.09	1321	1491	46.65	MD	
17	1.46	1.84	1.18	1.37	0.43	0.74	0.13	0.40	99.8%	0.08	0.68	1808	1369	51.83	MD	#1 Filter on Aug 17
							0.06	0.37	98.1%					46.65	MD	#2 Filter on Aug 17
18	1.43	1.84	1.20	1.89	0.54	1.13	0.11	0.14	99.9%	0.10	4.00	1211	1495	51.43	MD	#1 Filter on Aug 18
							0.06	0.12	98.2%					69.39	MD	#2 Filter on Aug 18
19	1.50	1.83	1.30	1.42	0.55	0.95	0.11	0.16	98.3%	0.10	0.12	1874	1377	49.56	MD	
20	1.48	1.84	1.27	1.41	0.35	0.60	0.09	0.12	99.9%	0.09	0.10	1359	1472	48.85	MD	
21	1.46	1.88	1.29	1.45	0.59	1.38	0.10	0.13	99.9%	0.09	0.11	1420	1442	50.7	BW	#1 Filter on Aug 21
							0.10	0.17	98.4%					47.01	BW	#2 Filter on Aug 21
22	1.08	1.83	1.32	1.52	0.61	19.49	0.10	0.15	99.9%	0.10	1.65	2293	1450	48.82	JR	
23	1.34	2.00	1.21	1.70	0.41	0.61	0.06	0.12	99.9%	0.10	0.12	1232	1298	49.95	JR	
24	1.40	1.86	1.38	1.64	0.43	0.60	0.06	0.12	99.9%	0.10	0.11	1682	1288	49.95	EH	
25	1.41	1.82	1.25	2.10	0.36	0.54	0.07	0.12	99.9%	0.11	4.00	1643	1450	42.83	JR	
26	1.40	1.85	1.25	1.46	0.40	0.71	0.07	0.12	99.9%	0.11	0.12	1210	1313	50.69	EH	
27	1.45	1.82	1.37	1.55	1.07	2.92	0.10	0.23	99.9%	0.14	0.21	1900	1391	50.7	EH	
28	1.47	1.81	1.32	1.49	0.40	0.57	0.07	0.11	99.9%	0.15	0.20	1309	1316	52.18	NE	
29	0.69	1.85	1.07	1.35	0.33	0.54	0.06	0.11	99.9%	0.15	0.30	1521	1409	48.8	NE	
30	1.13	1.84	1.01	1.88	0.63	1.43	0.07	0.11	99.9%	0.13	2.21	1560	1433	51.07	NE	
31	0.94	1.84	0.90	2.63	0.58	1.01	0.08	0.12	99.9%	0.15	4.00	2181	1318	54.3	BW	#1 Filter on Aug 31
							0.12	0.23	98.9%					44.02	BW	#2 Filter on Aug 31
Overall Avg.	**1.60**		**1.44**								**Total**	50849	44134			
Average	**1.35**	**1.84**	**1.22**	**1.66**	**0.51**	**1.59**	**0.12**	**0.20**		**0.13**	**1.00**	**1640**	**1424**			
Max		**2.00**		**3.28**		**19.49**	**Max**	**0.46**			**4.00**	**2293**	1572			
Min			**0.90**		**0.33**			**0.10**		**0.08**	**Min**	**1210**	1288			

Monthly Filter Performance both filters 95% target: 99.4%

Maintenance/ Events	Ran 1, 2, 3, HL Pumps - Discharge Spike	01-Aug
	NLS Onsite	02-Aug
	NLS Onsite-BW proc test	03-Aug
	Backwash Filter #1	09-Aug
	Ran HLP #2-Discharge Spike	12-Aug
	Filter #2 drained & filled to clean troughs	15-Aug
	Filter #1 ran as a test in the morning/#2 still duty	17-Aug
	Discharge turb spike due to highlift run	18-Aug
	Turb meter calibrations & maintenance	22-Aug
	Chlorine analyzer maintenance & sludge pump oil changes	23-Aug
	Highlift pump run- turb spike	25-Aug
	Highlift pump run- turb spike	30-Aug
	Chlorine spike, highlift run cause turb spike	31-Aug

September-23	Clearwell Filtered Cl2 Min	Clearwell Filtered Cl2 Max	Discharge Cl2 Min	Discharge Cl2 Max	Raw Water Avg	Raw Water Max	Filter Turb. Avg.	Filter Turb. Max	Filter Duty Performance Max %	Discharge Turb. Avg	Discharge Turb. Max	Raw Flow	Treated Flow	UV Dose	Initials	
1	1.21	1.97	0.86	2.30	0.48	1.67	0.11	0.14	100.0%	0.18	4.00	1415	1416	46.24	EH	
2	1.53	1.87	1.26	1.58	0.44	0.71	0.09	0.11	100.0%	0.18	0.20	1666	1455	46.25	BW	
3	1.51	1.92	1.40	1.58	0.41	0.75	0.08	0.11	100.0%	0.17	0.19	1320	1488	46.64	BW	
4	1.54	1.87	1.43	1.60	0.38	0.64	0.07	0.11	100.0%	0.15	0.18	1939	1576	46.3	BW	
5	1.51	1.84	1.40	1.55	0.41	0.67	0.11	0.40	99.2%	0.14	0.16	1557	1438	51.81	JR	#1 Filter on Sep 5
							0.08	0.10	99.6%					46.31		#2 Filter on Sep 5
6	1.52	1.90	1.39	1.53	0.42	0.83	0.07	0.17	100.0%	0.14	0.15	1815	1532	46.65	NE	
7	1.51	1.90	1.18	2.12	0.44	0.64	0.08	0.10	100.0%	0.17	4.00	1354	1348	45.94	JR	
8	1.49	1.91	1.38	1.56	0.69	1.39	0.10	0.23	100.0%	0.17	0.19	1603	1359	37.71	NE	
9	1.49	1.90	1.31	1.41	0.42	0.74	0.06	0.10	100.0%	0.17	0.21	1336	1368	46.98	NE	
10	1.49	1.90	1.27	1.37	0.40	0.66	0.06	0.08	100.0%	0.14	0.17	1782	1533	46.61	NE	
11	1.52	1.89	1.23	1.38	0.38	2.43	0.06	0.10	100.0%	0.14	0.15	1552	1323	46.61	JR	
12	1.48	1.89	1.27	1.39	0.40	0.65	0.06	0.09	100.0%	0.14	0.15	1398	1298	46.99	NE	
13	1.48	1.89	1.33	1.49	0.46	0.67	0.11	0.81	99.6%	0.13	0.15	1741	1527	51.8	JR	#1 Filter on Sep 13
							0.06	0.11	100.0%					46.98		#2 Filter on Sep 13
14	0.72	1.93	1.39	1.56	0.72	2.68	0.13	0.32	99.4%	0.16	0.18	1865	1291	49.56	JR	
15	1.48	1.89	1.41	1.57	0.51	0.75	0.09	0.15	99.5%	0.17	0.19	1601	1423	50.31	JR	
16	1.46	1.90	1.47	1.58	0.43	0.61	0.08	0.10	99.5%	0.16	0.20	1554	1344	49.93	JR	
17	1.46	1.86	1.48	1.58	0.41	0.65	0.07	0.09	99.5%	0.15	0.17	1404	1403	51.05	JR	
18	1.45	1.93	1.46	1.58	0.42	0.63	0.07	0.09	99.5%	0.15	0.16	1281	1262	50.68	BW	
19	1.50	1.88	1.38	1.51	0.53	1.40	0.08	0.13	99.6%	0.15	0.17	1318	1342	49.92	BW	
20	1.47	1.88	1.35	1.48	0.43	0.67	0.07	0.10	99.6%	0.15	0.16	1850	1363	51.21	NE	
21	1.53	1.87	1.40	1.56	0.42	0.56	0.07	0.09	99.6%	0.14	0.16	2109	2154	52.17	NE	
22	1.52	1.89	1.43	1.59	0.41	0.57	0.07	0.08	99.6%	0.14	0.16	1711	1363	51.08	BW	
23	1.52	1.88	1.43	1.54	0.40	0.55	0.07	0.09	99.6%	0.14	0.16	1366	1527	51.07	BW	
24	1.53	1.88	1.42	1.50	0.40	0.63	0.07	0.08	99.7%	0.14	0.16	1871	1524	53.09	BW	
25	1.51	1.87	1.28	1.48	0.43	0.69	0.07	0.09	99.7%	0.14	0.19	1647	1407	51.81	NE	
26	1.46	1.88	1.24	1.38	0.48	0.78	0.08	0.10	99.7%	0.14	0.16	1386	1337	42.81	NE	
27	1.47	1.79	1.28	1.41	0.36	0.72	0.05	0.08	99.7%	0.14	0.17	1815	1369	51.42	NE	#1 Filter on Sep 27
							0.08	0.20	99.8%					46.25		#2 Filter on Sep 27
28	0.84	1.81	1.27	1.45	0.40	1.39	0.06	0.11	99.9%	0.13	0.35	1887	1298	46.59	NE	
29	1.40	1.99	1.34	1.86	0.35	0.73	0.06	0.11	99.9%	0.12	0.16	1589	1349	46.57	NE	
30	1.56	1.89	1.63	1.77	0.37	1.91	0.06	0.12	99.9%	0.11	0.14	1331	1439	45.85	NE	
Overall Avg.	**1.66**		**1.46**								**Total**	48063	42856			
Average	**1.44**	**1.89**	**1.35**	**1.58**	**0.44**	**0.95**	**0.08**	**0.15**		**0.15**	**0.43**	**1602**	**1429**			
Max		**1.99**		**2.30**		**2.68**	**Max**	**0.81**			**4.00**	**2109**	2154			
Min			**0.86**		**0.35**			**0.08**		**0.11**	**Min**	**1281**	1262			

Monthly Filter Performance both filters 95% target: 99.9

Maintenance/ Events	Discharge Spike Highlift run	01-Sep
	Generator Testing	28-Sep

October-23	Clearwell Filtered Cl2 Min	Clearwell Filtered Cl2 Max	Discharge Cl2 Min	Discharge Cl2 Max	Raw Water Avg	Raw Water Max	Filter Turb. Avg.	Filter Turb. Max	Filter Duty Performance Max %	Discharge Turb. Avg	Discharge Turb. Max	Raw Flow	Treated Flow	UV Dose	Initials	
1	1.59	1.87	1.57	1.72	0.33	0.80	0.06	0.07	100.0%	0.11	0.14	1817	1492	46.93	NE	
2	1.52	1.92	1.29	1.66	0.35	0.91	0.06	0.08	100.0%	0.12	0.14	1581	1410	46.25	JR	
3	1.55	1.90	1.35	1.63	0.35	0.67	0.06	0.08	100.0%	0.12	0.15	1881	1667	46.27	JR	
4	1.55	1.87	1.48	1.63	0.34	0.62	0.06	0.08	100.0%	0.12	0.15	1661	1573	46.28	JR	
5	1.47	2.00	1.21	1.60	0.36	0.57	0.11	0.59	99.8%	0.13	0.16	1639	1460	48.43	JR	#1 Filter on Oct 5
							0.07	0.12	100.0%					47.36		#2 Filter on Oct 5
6	1.53	1.91	1.20	1.41	0.38	0.53	0.07	0.08	100.0%	0.14	0.17	1348	1298	46.61	JR	
7	1.52	1.88	1.25	1.51	0.57	1.95	0.08	0.15	100.0%	0.14	0.16	1665	1422	47	JR	
8	1.53	1.88	1.30	1.49	1.47	3.01	0.10	0.14	100.0%	0.14	0.16	1487	1328	46.59	JR	
9	1.51	1.90	1.30	1.51	1.70	3.51	0.13	0.22	100.0%	0.15	0.18	1419	1354	46.95	JR	
10	1.49	1.89	1.32	1.56	1.15	1.75	0.19	0.60	99.0%	0.16	0.20	1447	1306	50.68	BW	#1 Filter on Oct 10
							0.15	0.26	100.0%					46.95		#2 Filter on Oct 10
11	1.48	1.88	1.28	1.52	0.70	1.00	0.12	0.21	99.1%	0.18	0.21	1222	1263	49.18	JR	
12	0.86	1.87	1.36	1.62	0.60	0.97	0.07	0.11	99.1%	0.15	0.19	1972	1356	41.69	BW	
13	1.53	1.88	1.41	1.57	0.55	0.89	0.07	0.10	99.2%	0.12	0.15	1205	1252	49.92	BW	
14	1.54	1.88	1.39	1.56	1.28	6.82	0.06	0.09	99.3%	0.12	0.14	1670	1302	50.65	BW	
15	1.52	1.86	1.38	1.57	2.28	5.29	0.08	0.20	99.3%	0.12	0.14	1284	1310	51.78	BW	
16	1.53	1.88	1.39	1.68	1.63	2.67	0.07	0.11	99.4%	0.11	0.14	1685	1274	51.78	NE	
17	1.54	1.86	1.43	1.61	0.74	1.12	0.05	0.08	99.4%	0.11	0.13	1312	1365	51.81	NE	
18	1.56	1.86	1.44	1.57	0.45	0.72	0.04	0.06	99.4%	0.10	0.13	1267	1190	53.29	NE	
19	1.54	1.89	1.38	1.57	0.38	0.59	0.05	0.07	99.5%	0.09	0.12	1539	1232	53.29	NE	
20	1.48	1.74	1.34	1.54	0.40	0.58	0.08	0.19	100.0%	0.09	0.11	1350	1327	46.54	NE	
21	1.43	1.77	1.29	1.45	0.51	1.22	0.07	0.09	100.0%	0.10	0.13	1324	1284	46.55	NE	
22	1.45	1.76	1.29	1.45	1.10	2.56	0.07	0.12	100.0%	0.11	0.13	1591	1302	46.22	NE	
23	1.03	1.81	1.30	1.52	1.14	2.22	0.08	0.19	100.0%	0.11	0.27	1947	1317	46.55	JR	
24	1.44	1.76	1.32	1.48	0.53	0.81	0.06	0.10	100.0%	0.10	0.14	1379	1250	48.8	JR	
25	1.42	1.76	1.19	1.37	0.44	0.67	0.06	0.10	100.0%	0.09	0.11	1494	1247	43.98	JR	
26	1.47	1.77	1.16	1.28	0.40	0.68	0.06	0.11	100.0%	0.09	0.10	1326	1184	45.47	JR	
27	1.36	1.79	1.10	1.33	0.32	0.52	0.05	0.12	100.0%	0.09	0.10	1241	1270	46.55	JR	
28	1.31	1.75	1.25	1.58	0.39	0.63	0.05	0.12	100.0%	0.08	0.10	1628	1265	46.93	JR	
29	1.36	1.73	1.40	1.59	0.42	0.62	0.06	0.11	100.0%	0.08	0.10	1342	1261	46.25	JR	
30	1.36	1.93	1.41	1.57	0.46	0.74	0.06	0.12	100.0%	0.08	0.10	1207	1257	48.84	JR	
31	1.34	1.80	1.34	1.50	0.38	0.71	0.06	0.11	100.0%	0.08	0.10	1223	1206	46.57	BW	
Overall Avg.	**1.65**		**1.43**								**Total**	46153	41024			
Average	**1.45**	**1.85**	**1.33**	**1.54**	**0.71**	**1.50**	**0.07**	**0.15**		**0.11**	**0.14**	**1489**	**1323**			
Max		**2.00**		**1.72**		**6.82**	**Max**	**0.60**			**0.27**	**1972**	1667			
Min			**1.10**		**0.32**			**0.06**		**0.08**	**Min**	**1205**	1184			

Monthly Filter Performance both filters 95% target: 99.8%

Maintenance/ Events	Backwash Filter #2	12-Oct
	Backwash Filter #1, ran plant generator	23-Oct

November-23	Clearwell Filtered Cl2 Min	Clearwell Filtered Cl2 Max	Discharge Cl2 Min	Discharge Cl2 Max	Raw Water Avg	Raw Water Max	Filter Turb. Avg.	Filter Turb. Max	Filter Duty Performance Max %	Discharge Turb. Avg	Discharge Turb. Max	Raw Flow	Treated Flow	UV Dose	Initials	
1	1.39	1.99	1.29	4.37	0.76	93.29	0.06	0.12	100.0%	0.08	4.00	1613	1231	49.7	BW	
2	1.36	1.80	1.37	1.54	0.41	0.78	0.07	0.84	99.9%	0.09	0.10	1257	1140	50.65	BW	
3	0.87	1.81	1.35	1.59	0.34	0.52	0.05	0.07	99.9%	0.09	0.11	1706	1265	50.66	BW	
4	1.42	1.77	1.30	1.49	0.33	0.49	0.05	0.07	99.9%	0.09	0.10	1328	1289	49.91	BW	
5	1.40	1.76	1.27	1.43	0.31	0.48	0.05	0.08	100.0%	0.09	0.10	1550	1289	49.92	BW	
6	1.45	1.75	1.24	1.39	0.30	0.48	0.05	0.08	100.0%	0.08	0.10	1614	1192	49.90	NE	
7	1.42	1.77	1.22	1.37	0.36	0.64	0.04	0.08	100.0%	0.08	0.09	1261	1179	49.91	NE	
8	1.44	1.76	1.22	1.37	0.50	0.93	0.05	0.09	100.0%	0.08	0.10	1321	1191	50.66	NE	
9	1.39	1.81	1.21	1.75	0.52	1.55	0.05	0.10	100.0%	0.08	0.20	1424	1186	49.91	JR	
10	1.41	1.78	1.34	1.73	0.40	0.67	0.04	0.09	100.0%	0.08	0.10	1227	1199	51.78	NE	
11	1.41	1.76	1.31	1.43	0.37	0.60	0.04	0.10	100.0%	0.08	0.10	1363	1278	53.67	NE	
12	1.42	1.75	1.28	1.40	0.32	0.58	0.04	0.11	100.0%	0.08	0.10	1565	1269	54.07	NE	
13	1.37	1.82	1.18	1.35	0.32	0.48	0.04	0.10	100.0%	0.08	0.10	1235	1233	52.53	JR	
14	1.48	1.76	0.99	1.83	0.41	0.67	0.07	0.12	100.0%	0.13	4.00	1539	1252	45.81	JR	
15	0.80	1.75	1.00	2.50	0.34	0.57	0.05	0.09	100.0%	0.15	4.00	1692	1250	46.19	JR	
16	1.46	1.75	1.22	2.02	0.31	0.50	0.05	0.13	100.0%	0.10	4.00	1527	1230	46.19	JR	
17	1.42	1.79	1.21	1.37	0.31	0.56	0.05	0.09	100.0%	0.09	0.10	1264	1117	48.76	JR	
18	1.47	1.75	1.24	1.37	0.35	0.61	0.05	0.08	100.0%	0.09	0.09	1333	1163	46.19	JR	
19	1.39	1.80	1.24	1.37	0.38	0.61	0.05	0.09	100.0%	0.11	0.17	1472	1284	46.53	JR	
20	1.42	1.79	1.21	1.58	0.36	0.57	0.05	0.08	100.0%	0.09	0.10	1393	1299	46.52	BW	
21	1.40	1.74	1.40	1.56	0.46	0.84	0.09	0.15	100.0%	0.12	0.25	1077	1218	45.79	BW	#1 Filter on Nov 21
							0.05	0.10	100.0%					46.75	BW	#2 Filter on Nov 21
22	1.34	1.79	1.32	1.78	0.33	0.65	0.05	0.08	100.0%	0.16	2.09	1562	1217	46.54	BW	
23	1.42	1.78	1.31	1.50	0.29	0.42	0.04	0.05	100.0%	0.11	0.14	1171	1230	48.05	BW	#1 Filter on Nov 23
							0.06	0.12	100.0%					46.53	BW	#2 Filter on Nov 23
24	1.43	1.78	1.30	1.72	0.38	0.60	0.05	0.09	100.0%	0.18	4.00	1651	1395	47.88	BW	
25	1.45	1.79	1.42	1.61	0.32	0.50	0.05	0.10	100.0%	0.22	0.28	1218	1301	46.52	BW	
26	1.46	1.76	1.39	1.57	0.28	0.41	0.05	0.11	100.0%	0.24	0.35	1254	1311	46.88	BW	
27	1.47	1.74	1.37	1.55	0.29	0.40	0.05	0.11	100.0%	0.14	0.39	1723	1168	46.83	NE	
28	1.43	1.77	1.31	1.49	0.35	0.54	0.05	0.12	100.0%	0.12	0.13	1283	1182	46.40	NE	
29	1.47	1.76	1.26	1.52	0.30	0.46	0.04	0.50	100.0%	0.15	1.99	1300	1244	46.52	NE	
30	0.79	1.76	1.37	1.56	0.27	0.37	0.04	0.04	100.0%	0.14	0.20	1754	1247	48.77	NE	#1 Filter on Nov 30
							0.05	0.17	100.0%					41.73	NE	#2 Filter on Nov 30
Overall Avg.	**1.57**		**1.47**								**Total**	42677	37049			
Average	**1.36**	**1.78**	**1.27**	**1.67**	**0.37**	**3.69**	**0.05**	**0.13**		**0.11**	**0.92**	**1423**	**1235**			
Max		**1.99**		**4.37**		**93.29**	**Max**	**0.84**			**4.00**	**1754**	1395			
Min			**0.99**		**0.27**			**0.04**		**0.08**	**Min**	**1077**	1117			

Monthly Filter Performance both filters 95% target: 100%

Maintenance/ Events	Electrical Maintenance	01-Nov
	Backwash Filter #2	03-Nov
	ran highlift pump 1, caused spike in discharge turbidity	14-Nov
	Highlift pump 2 ran causing spike in discharge turbidity	15-Nov
	ran highlift pump 1, caused spike in discharge turbidity	16-Nov
	Ran HLP #1 - Turb Spike	21-Nov
	Ran HLP #2 - Turb Spike	24-Nov
	Ran HLP #3	29-Nov
	Backwash Filter #2	30-Nov

December-23	Clearwell Filtered Cl2 Min	Clearwell Filtered Cl2 Max	Discharge Cl2 Min	Discharge Cl2 Max	Raw Water Avg	Raw Water Max	Filter Turb. Avg.	Filter Turb. Max	Filter Duty Performance Max %	Discharge Turb. Avg	Discharge Turb. Max	Raw Flow	Treated Flow	UV Dose	Initials	
1	1.44	1.76	1.37	1.52	0.35	0.56	0.04	0.05	100.0%	0.12	0.21	1203	1072	48.05	BW	
2	1.46	1.74	1.39	1.59	0.42	0.62	0.05	0.05	100.0%	0.12	0.16	1411	1328	48.77	JR	
3	1.39	1.83	1.43	1.65	0.37	0.55	0.05	0.05	100.0%	0.14	0.21	1368	1255	49.90	JR	
4	1.42	1.78	1.46	1.63	0.29	0.46	0.05	0.06	100.0%	0.13	0.19	1240	1248	50.28	JR	
5	1.42	1.79	1.36	1.67	0.26	0.37	0.06	0.06	100.0%	0.16	4.00	1450	1208	51.78	JR	
6	1.41	1.79	1.44	1.63	0.28	0.37	0.06	0.06	100.0%	0.18	0.26	1147	1248	53.28	JR	
7	1.39	1.77	1.45	1.75	0.25	0.40	0.06	0.06	100.0%	0.18	0.43	1639	1265	50.28	JR	
8	1.43	1.93	1.50	1.74	0.27	0.41	0.07	0.07	100.0%	0.19	0.28	1454	1252	51.77	JR	
9	1.37	1.80	1.45	1.63	0.31	0.48	0.07	0.07	100.0%	0.19	0.28	1286	1254	52.15	JR	
10	1.35	1.77	1.42	1.63	0.31	0.41	0.07	0.07	100.0%	0.16	0.37	1452	1257	52.51	JR	
11	0.77	1.76	1.46	1.65	0.36	0.59	0.06	0.33	100.0%	0.13	0.19	1811	1213	47.45	BW	
12	1.31	1.80	1.36	1.67	0.31	0.44	0.04	0.05	100.0%	0.12	4.00	1209	1233	47.28	BW	#1 Filter on Dec 12
							0.05	0.34	100.0%					45.78	BW	#2 Filter on Dec 12
13	1.38	1.91	1.43	1.65	0.31	1.32	0.04	0.05	100.0%	0.12	0.33	1375	1171	52.51	BW	#1 Filter on Dec 13
							0.05	0.18	100.0%					46.88	BW	#2 Filter on Dec 13
14	1.44	1.75	1.32	1.53	0.27	0.42	0.05	0.13	100.0%	0.14	2.37	1426	1217	46.51	BW	
15	1.45	1.78	1.32	1.47	0.26	0.35	0.04	0.10	100.0%	0.17	0.23	1384	1187	46.17	NE	
16	1.46	1.77	1.24	1.40	0.27	0.35	0.04	0.08	100.0%	0.15	0.23	1133	1107	46.50	BW	
17	1.47	1.77	1.22	1.36	0.30	0.41	0.05	0.08	100.0%	0.20	0.33	1590	1331	46.15	BW	
18	1.38	1.78	1.22	1.48	0.47	1.46	0.05	0.09	97.0%	0.21	0.33	1345	1272	46.51	BW	
19	1.44	1.76	1.36	1.63	2.77	5.04	0.07	0.16	100.0%	0.14	0.24	1605	1248	46.52	JR	
20	0.92	1.78	1.45	1.63	2.20	3.51	0.06	0.36	100.0%	0.18	0.40	1667	1122	51.02	NE	#1 Filter on Dec 20
							0.07	0.13	100.0%					46.51	NE	#2 Filter on Dec 20
21	1.47	1.75	1.41	1.59	1.36	2.59	0.06	0.09	100.0%	0.20	0.33	1518	1276	50.28	NE	#1 Filter on Dec 21
							0.12	0.24	100.0%					46.15	NE	#2 Filter on Dec 21
22	1.41	1.76	1.37	1.54	1.22	2.03	0.06	0.10	100.0%	0.24	0.36	1219	1270	40.89	NE	
23	1.48	1.78	1.38	1.55	0.98	1.78	0.06	0.18	100.0%	0.25	2.10	1324	1287	51.38	NE	
24	1.47	1.76	1.37	1.50	0.46	0.69	0.04	0.07	100.0%	0.17	0.39	1624	1313	49.89	NE	
25	1.40	1.78	1.36	1.54	0.38	0.59	0.03	0.06	100.0%	0.09	0.11	1186	1234	50.64	NE	
26	1.42	1.75	1.34	1.51	0.45	0.69	0.04	0.06	100.0%	0.08	0.10	1210	1215	51.39	JR	
27	1.43	1.76	1.32	1.48	0.33	0.55	0.03	0.07	100.0%	0.08	0.10	1568	1245	52.89	JR	
28	1.38	1.82	1.32	1.50	1.39	2.95	0.06	0.17	100.0%	0.08	0.10	1396	1213	51.77	JR	
29	1.41	1.80	1.29	1.50	0.66	3.27	0.08	0.29	100.0%	0.09	0.14	1144	1207	45.80	JR	
30	1.47	1.76	1.30	1.52	0.34	0.62	0.05	0.07	100.0%	0.10	0.12	1823	1270	46.17	JR	
31	1.46	1.73	1.37	1.59	0.38	0.58	0.04	0.07	100.0%	0.09	0.11	1703	1349	48.21	JR	
Overall Avg.	**1.58**		**1.47**								**Total**	43910	38367			
Average	**1.38**	**1.78**	**1.37**	**1.57**	**0.60**	**1.12**	**0.05**	**0.12**		**0.15**	**0.61**	**1416**	**1238**			
Max		**1.93**		**1.75**		**5.04**	**Max**	**0.36**			**4.00**	**1823**	1349			
Min			**1.22**		**0.25**			**0.05**		**0.08**	**Min**	**1133**	1072			

Monthly Filter Performance both filters 95% target: 100%

Maintenance/ Events	Ran HL Pump 1 causing turb spike	05-Dec
	Ran HL Pump 2 causing turb spike	07-Dec
	Backwash Filter #1	11-Dec
	HLP 1-3 run - turb spike	12-Dec
	Generator testing	13-Dec
	Backwash Filter #2	20-Dec
	Cleaned plant output turb analyzer, turb spike, chlorine residual blip	23-Dec
	Power outage generator ran for 2.5 hrs	29-Dec

	Chlorine		Discharge Flow		
	Monthly Total (KG)	Daily Average (KG)	Monthly Total (M3)	Daily Average (M3)	Dosage (mg/l)
JANUARY	95.9	3.09	50135	1617	**1.91**
FEBRUARY	109.1	3.90	45035	1608	**2.42**
MARCH	83.4	2.69	38557	1244	**2.16**
APRIL	84.2	2.81	36823	1227	**2.29**
MAY	96.9	3.13	41381	1335	**2.34**
JUNE	118.8	3.96	45259	1509	**2.63**
JULY	93.8	3.03	45937	1482	**2.04**
AUGUST	120.8	3.90	44134	1424	**2.74**
SEPTEMBER	138.6	4.62	42856	1429	**3.23**
OCTOBER	122.2	3.94	41024	1323	**2.98**
NOVEMBER	96.3	3.21	37049	1235	**2.60**
DECEMBER	101.5	3.27	38367	1238	**2.65**

Annual Summary-Treated Water Bacteriological Data (From Water Treatment Plant)

WATER WORKS NAME:	Municipality of Meaford
YEAR	2023
SERVICE POPULATION	7008
LABORATORIES WHICH PERFORMED ANALYSES	SGS Laboratory

MONTH	TOTAL COLIFORM			ESCHERICHIA COLI. (E. Coli)			H.P.C.		
	# of samples collected	# of samples safe	# of samples unsafe	# of samples collected	# of samples safe	# of samples unsafe	# of samples collected	# of samples safe	# of samples unsafe
JAN.	5	5	0	5	5	0	5	5	0
FEB.	4	4	0	4	4	0	4	4	0
MAR.	4	4	0	4	4	0	4	4	0
APR.	4	4	0	4	4	0	4	4	0
MAY	5	5	0	5	5	0	5	5	0
JUN.	4	4	0	4	4	0	4	4	0
JUL.	5	5	0	5	5	0	5	5	0
AUG.	4	4	0	4	4	0	4	4	0
SEPT.	4	4	0	4	4	0	4	4	0
OCT.	5	5	0	5	5	0	5	5	0
NOV.	4	4	0	4	4	0	4	4	0
DEC.	4	4	0	4	4	0	3	3	0
TOTAL	52	52	0	52	52	0	51	51	0

Indicators of adverse water quality — If any of the following conditions exist,the drinking water is judged unsafe:

1. Eschericia coli and/or fecal coliforms are detected in any required sample other than raw water sample.
2. Total coliforms are detected in any required sample other than raw water sample.
3. Unchlorinated water is directed to the distribution system,where chlorination is used or required.
   This includes water in the distribution system,which has less than 0.05 mg/l of free chlorine residual when tested.

If the water containing indicators of unsafe water quality for any of the reasons listed above, the laboratory will immediately notify the M.O.E. District Officer, M.O.E. Spills Action Centre, the local Medical Officer of Health and the owner / operator to initiate collection of special samples and or corrective action. In addition the owner / operator must notify the M.O.E. Spills Action Centre and the local Medical Officer of Health when they become aware of an adverse water quality condition.

In December for the 4th HPC sample, we received an error from the Lab as noted in the Annual Report under Summary of Microbiological testing done under Schedule 10, 11 or 12

Annual Summary -Raw Water Bacteriological Data

WATER WORKS NAME:	Municipality of Meaford
YEAR	2023
SERVICE POPULATION	7008
LABORATORIES WHICH PERFORMED ANALYSES	SGS Laboratory

MONTH	TOTAL COLIFORM					ESCHERICHIA COLI (E. Coli)			
	# of samples collected	# of samples 0-100 ORG./100ml	# of samples 101-5000 ORG./100ml	# of samples >5000 ORG./100ml		# of samples collected	# of samples 0-10 ORG./100ml	# of samples 11-500 ORG./100ml	# of samples >500 ORG./100ml
JAN.	5	5	0	0		5	5	0	0
FEB.	4	3	1	0		4	4	0	0
MAR.	4	4	0	0		4	4	0	0
APR.	4	4	0	0		4	4	0	0
MAY	5	5	0	0		5	5	0	0
JUN.	4	4	0	0		4	4	0	0
JUL.	5	5	0	0		5	5	0	0
AUG.	4	4	0	0		4	4	0	0
SEPT.	4	4	0	0		4	4	0	0
OCT.	5	5	0	0		5	5	0	0
NOV.	4	4	0	0		4	4	0	0
DEC.	4	4	0	0		4	4	0	0
TOTAL	52	51	1	0		52	52	0	0

In systems treating surface water or ground water, samples should be taken from the raw water source and from the point at which treated water enters the distribution system.In these systems sampling is done weekly in systems serving populations up to 100,000 and more often in larger systems. In addition, the operator must ensure that the disinfection process is functioning properly at all times.

Annual Summary-Distribution Bacteriological Data

WATER WORKS NAME:	Municipality of Meaford
YEAR	2023
SERVICE POPULATION	7008
LABORATORIES WHICH PERFORMED ANALYSES	SGS Laboratory

MONTH	TOTAL COLIFORM			ESCHERICHIA COLI. (E. Coli)			H.P.C.		
	# of samples collected	# of samples safe	# of samples unsafe	# of samples collected	# of samples safe	# of samples unsafe	# of samples collected	# of samples safe	# of samples unsafe
JAN.	16	16	0	16	16	0	5	5	0
FEB.	13	13	0	13	13	0	4	4	0
MAR.	13	13	0	13	13	0	4	4	0
APR.	13	13	0	13	13	0	4	4	0
MAY	16	16	0	16	16	0	6	6	0
JUN.	13	13	0	13	13	0	4	4	0
JUL.	18	18	0	18	18	0	6	6	0
AUG.	13	13	0	13	13	0	4	4	0
SEPT.	15	15	0	15	15	0	5	5	0
OCT.	16	16	0	16	16	0	5	5	0
NOV.	13	13	0	13	13	0	4	4	0
DEC.	13	13	0	13	13	0	3	3	0
TOTAL	172	179	0	172	172	0	54	54	0

Indicators of adverse water quality — If any of the following conditions exist,the drinking water is judged unsafe:

1. Eschericia coli and/or fecal coliforms are detected in any required sample other than raw water sample. **HPC %=** 30%
2. Total coliforms are detected in any required sample other than raw water sample.
3. Unchlorinated water is directed to the distribution system,where chlorination is used or required.
   This includes water in the distribution system,which has less than 0.05 mg/l of free chlorine residual when tested.

If the water containing indicators of unsafe water quality for any of the reasons listed above, the laboratory will immediately notify the M.O.E. District Officer M.O.E. Spills Action Centre, the local Medical Officer of Health and the owner / operator to initiate collection of special samples and or corrective action. In addition the owner / operator must notify the M.O.E. Spills Action Centre and the local Medical Officer of Health when they become aware of an adverse water quality condition.

In December for the 4th HPC sample, we received an error from the Lab as noted in the Annual Report under Summary of Microbiological testing done under Schedule 10, 11 or 12

Annual Summary- Nitrite, Nitrate , THM's

WATER WORKS NAME:	Municipality of Meaford
YEAR	2023
SERVICE POPULATION	7008
LABORATORIES WHICH PERFORMED ANALYSES	SGS Laboratory

	TREATED WATER Nitrates					DISTRIBUTION WATER		
	NO. OF SAMPLES COLLECTED	NITRITE (mg/l)	NITRATE (mg/L)		RAA	NO. OF SAMPLES COLLECTED	THM's (ug/L)	HAA's (ug/L)
JAN.								
FEB.	1	<0.003	0.289		**(Feb 2023) A**	1	21	10.8
MAR.								
APR.								
MAY	1	<0.003	0.263		**(May 2023) B**	1	37	14.3
JUN.								
JUL.								
AUG.	1	<0.003	0.231		**(Aug 2023) C**	1	47	17.7
SEPT.								
OCT.								
NOV.	1	<0.003	0.240		**(Nov 2023) D**	1	35	22.7
DEC.								
AVG.		< 0.005	0.256				35.00	16.38
						mg/L	0.0350	0.016375
MAC		1	10			MAC	100	80

Where nitrite and nitrate are present, the total of the two shall not exceed 10mg/L.
MAC = Maximum Acceptable Concentration

Annual Summary- Total Suspended Solids (TSS)

WATER WORKS NAME:	Municipality of Meaford
YEAR	2023
SERVICE POPULATION	7008
LABORATORIES WHICH PERFORMED ANALYSES	SGS Laboratory

MONTH	Backwash Waste Water (TSS)	
	NO. OF SAMPLES COLLECTED	TSS (mg/l)
JAN.	1	15
FEB.	1	22
MAR.	1	15
APR.	1	25
MAY	1	17
JUN.	1	25
JUL.	1	11
AUG.	1	16
SEPT.	1	12
OCT.	1	11
NOV.	1	11
DEC.	1	20
AVG.		17
MAC		25

MAC = Maximum Acceptable Concentration

Annual Summary- Sodium and Flouride

WATER WORKS NAME:	Municipality of Meaford
YEAR	2023
SERVICE POPULATION	7008
LABORATORIES WHICH PERFORMED ANALYSES	SGS Laboratory

	Month	No. of Samples	Sample Results
Sodium	Sep-22	1	4.4
Flouride	Sep-22	1	0.06

Month	Lead	pH	Alkalinity
27-Mar-23	0.23	7.42	76
	0.06	7.66	72
	0.03	7.7	72
25-Sep-23	0.29	7.44	69
	0.09	7.55	69
	0.14	7.64	68

Annual Summary- Treated Water and Wastewater Flows, Turbidity and Disinfectant Residuals

WATER WORKS NAME: Municipality of Meaford
YEAR 2023
SERVICE POPULATION 7008
LABORATORIES WHICH PERFORMED ANALYSES OPERATORS/CONTINUOUS MONITOR

MONTH	TREATED WATER FLOW			BACKWASH WATER	TREATED WATER TURBIDITY			TREATED DISINFECTANT		DIST. SYSTEM DISINFECTANT	
	AVERAGE DAY (m3)	MAX. DAY (m3)	MONTHLY TOTAL (m3)	MONTHLY TOTAL (m3)	NO. OF SAMPLES COLLECTED	NO. OF SAMPLES (> 1 NTU)	AVERAGE TURBIDITY (NTU)	NO. OF SAMPLES COLLECTED	AVERAGE RESIDUAL (mg/l)	NO. OF SAMPLES COLLECTED	NO. WITH DETECTABLE RESIDUAL
JAN.	1617	1786	50135	993	8760	0	0.12	8760	1.36	8760	8760
FEB.	1608	1726	45035	682	8760	0	0.06	8760	1.42	8760	8760
MAR.	1244	1408	38557	842	8760	0	0.10	8760	1.34	8760	8760
APR.	1227	1461	36823	862	8760	0	0.57	8760	1.31	8760	8760
MAY	1335	2411	41381	541	8760	0	0.25	8760	1.38	8760	8760
JUN.	1509	2175	45259	659	8760	0	0.41	8760	1.77	8760	8760
JUL.	1482	1870	45937	661	8760	0	0.44	8760	1.91	8760	8760
AUG.	1424	1572	44134	872	8760	0	0.33	8760	1.49	8760	8760
SEPT.	1429	2154	42856	730	8760	0	0.35	8760	1.45	8760	8760
OCT.	1323	1667	41024	449	8760	0	0.38	8760	1.57	8760	8760
NOV.	1235	1395	37049	624	8760	0	0.27	8760	1.52	8760	8760
DEC.	1238	1349	38367	446	8760	0	1.39	8760	1.48	8760	8760
TOTAL			506,557	8,361							
AVG.	1,389	1,748		697			0.39		1.50		
MAX.	1617	2411	50135	993			1.39		1.91		

DISINFECTANT COMPOUND USED CHLORINE GAS

QUANTITY OF DISINFECTANT USED DURING YEAR (kg) 1261.62
DISTRIBUTION SYSTEM TARGET RESIDUAL (mg/l) > .20 mg/l

DISTRIBUTION SYSTEM CHLORINE RESIDUALS - St. Vincent Station & Nelson Station

Date	AIT-101 St Vincent	AIT-101 St Vincent	AIT-101 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	Total Flow St Vincent	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	Total Flow Nelson	Initial
January	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		
2023															
1	1.10	1.02	1.12	1.04	0.98	1.12	728	0.88	0.82	1.10	0.97	0.89	1.36	347	CH
2	1.10	1.00	1.13	1.04	0.98	1.13	723	0.88	0.83	1.25	0.98	0.91	1.37	348	OS
3	0.99	0.98	1.14	1.06	0.99	1.13	713	0.87	0.82	1.09	0.96	0.89	1.25	348	DL
4	1.06	0.99	1.14	1.08	0.99	1.15	728	0.88	0.82	1.19	1.01	0.91	1.67	345	DL
5	1.07	0.98	1.19	1.08	1.00	1.16	732	0.95	0.81	1.05	0.99	0.90	1.37	346	DL
6	1.07	1.00	1.20	1.07	1.02	1.18	742	0.86	0.79	1.62	0.96	0.88	1.51	340	DL
7	1.03	0.99	1.13	1.05	1.00	1.15	771	0.87	0.80	1.50	0.99	0.90	1.78	346	DL
8	1.12	1.04	1.14	1.10	1.02	1.18	791	0.88	0.80	1.05	1.01	0.89	1.78	351	DL
9	1.07	1.04	1.15	1.12	1.07	1.19	784	0.90	0.81	1.31	0.99	0.90	1.10	343	BW
10	1.15	1.03	1.21	1.07	1.03	1.23	781	0.90	0.85	1.05	1.00	0.93	1.16	346	BW
11	1.24	1.10	1.28	1.22	1.14	1.29	777	0.93	0.89	1.08	1.05	1.03	1.23	340	BW
12	1.23	1.17	1.27	1.21	1.16	1.29	770	0.96	0.92	1.09	1.09	1.02	1.23	341	BW
13	1.16	1.14	1.20	1.14	1.08	1.19	802	0.96	0.86	1.04	1.07	0.96	1.16	333	BW
14	1.14	1.07	1.18	1.07	1.03	1.18	821	0.96	0.89	1.04	1.06	0.97	1.18	349	BW
15	1.15	1.07	1.19	1.11	1.05	1.20	833	1.04	0.89	1.05	1.12	0.98	1.17	356	BW
16	1.15	1.08	1.20	1.14	1.08	1.19	814	0.95	0.86	1.03	1.12	0.46	1.22	342	BW
17	1.14	1.09	1.17	1.12	1.09	1.17	807	0.93	0.90	1.01	1.10	1.05	1.20	341	OS
18	1.14	1.10	1.26	1.10	1.07	1.28	803	0.91	0.89	1.06	1.10	1.03	1.16	343	OS
19	1.24	1.15	1.28	1.18	1.16	1.29	788	0.98	0.91	1.08	1.01	1.00	1.18	344	BW
20	1.23	1.19	1.39	1.22	1.09	1.50	802	1.01	0.91	1.32	1.09	0.97	1.31	338	OS
21	1.37	1.17	1.41	1.37	1.06	1.56	806	1.2	0.90	1.31	1.23	0.96	1.32	344	OS
22	1.19	1.15	1.22	1.20	1.09	1.31	817	0.94	0.89	1.04	0.99	0.94	1.14	353	OS
23	1.19	1.12	1.20	1.20	1.08	1.30	797	0.97	0.88	1.02	1.04	0.97	1.12	341	DL
24	1.15	1.12	1.17	1.19	1.05	1.27	801	0.93	0.83	1.02	1.04	0.92	1.11	344	DL
25	1.14	1.12	1.17	1.13	1.05	1.23	787	0.91	0.80	1.07	1.00	0.88	1.08	340	DL
26	1.10	1.07	1.16	1.07	1.03	1.23	811	0.98	0.96	1.06	0.98	0.90	1.06	344	DL
27	1.14	1.06	1.15	1.04	1.01	1.23	811	0.98	0.95	1.07	0.99	0.96	1.18	340	DL
28	1.14	1.07	1.16	1.07	1.05	1.23	828	0.98	0.92	1.10	1.11	1.02	1.22	346	DL
29	1.10	1.06	1.15	1.06	1.01	1.19	804	1.01	0.90	1.08	1.13	1.03	1.22	349	DL
30	1.14	1.11	1.26	1.09	1.03	1.27	797	1.01	0.92	1.07	1.15	1.04	1.21	352	BW
31	1.17	1.13	1.28	1.19	1.09	1.31	811	1.17	0.86	1.20	1.25	0.99	1.31	348	BW
Average	**1.14**	**1.08**	**1.20**	**1.12**	**1.05**	**1.24**	**786.45**	**0.95**	**0.87**	**1.13**	**1.05**	**0.94**	**1.27**	**344.77**	

DISTRIBUTION SYSTEM CHLORINE RESIDUALS - St. Vincent Station & Nelson Station

Date	AIT-101 St Vincent	AIT-101 St Vincent	AIT-101 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	Total Flow St Vincent	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	Total Flow Nelson	Initial
February	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		
2023															
1	1.25	1.19	1.27	1.22	1.11	1.33	798	1.03	0.95	1.11	1.18	1.09	1.27	346	BW
2	1.21	1.19	1.27	1.18	1.10	1.31	797	1.00	0.98	1.11	1.19	1.11	1.28	348	BW
3	1.24	1.17	1.26	1.17	1.11	1.29	784	1.03	0.95	1.15	1.19	1.06	1.28	344	BW
4	1.26	1.17	1.30	1.20	1.10	1.33	811	1.04	0.94	1.16	1.20	1.07	1.31	350	BW
5	1.29	1.24	1.31	1.19	1.12	1.36	835	1.02	0.94	1.13	1.20	1.10	1.33	357	BW
6	1.35	1.23	1.38	1.36	1.14	1.48	813	1.07	0.99	1.17	1.24	1.13	1.31	346	OS
7	1.35	1.28	1.37	1.34	1.24	1.46	819	1.05	0.96	1.17	1.22	1.11	1.31	343	OS
8	1.30	1.23	1.32	1.16	1.12	1.39	815	1.00	0.92	1.09	1.16	1.09	1.26	339	OS
9	1.26	1.23	1.30	1.11	1.10	1.27	793	0.97	0.89	1.06	1.14	1.05	1.24	339	OS
10	1.24	1.19	1.29	1.14	1.07	1.26	796	0.97	0.89	1.05	1.13	1.04	1.22	333	OS
11	1.20	1.17	1.32	1.13	1.04	1.28	817	0.98	0.88	1.07	1.10	1.00	1.24	345	OS
12	1.29	1.25	1.35	1.19	1.11	1.34	828	0.99	0.93	1.09	1.18	1.08	1.26	350	OS
13	1.32	1.24	1.33	1.16	1.09	1.32	806	1.00	0.94	1.09	1.17	1.09	1.28	341	DL
14	1.36	1.24	1.36	1.19	1.11	1.32	803	1.01	0.93	1.11	1.18	1.08	1.26	338	DL
15	1.31	1.26	1.34	1.21	1.13	1.35	801	1.04	0.87	1.08	1.20	1.03	1.25	345	BW
16	1.28	1.24	1.33	1.20	1.13	1.34	827	0.96	0.89	1.08	1.14	1.04	1.25	344	DL
17	1.28	1.23	1.32	1.21	1.12	1.33	813	1.02	0.94	1.11	1.09	1.06	1.24	342	DL
18	1.28	1.25	1.34	1.23	1.14	1.38	823	1.03	0.91	1.12	1.10	1.01	1.22	351	BW
19	1.34	1.28	1.35	1.33	1.18	1.41	813	1.05	0.97	1.11	1.17	1.07	1.23	353	BW
20	1.30	1.25	1.35	1.28	1.21	1.44	836	1.03	0.99	1.11	1.18	1.10	1.24	352	OS
21	1.32	1.24	1.34	1.26	1.19	1.41	816	1.03	0.95	1.11	1.14	1.05	1.22	342	BW
22	1.31	1.25	1.33	1.25	1.20	1.42	800	1.03	0.95	1.09	1.16	1.06	1.24	342	OS
23	1.30	1.26	1.35	1.29	1.20	1.42	784	1.05	1.02	1.13	1.18	1.13	1.25	343	BW
24	1.32	1.30	1.37	1.30	1.14	1.47	792	1.07	0.98	1.17	1.21	1.09	1.29	342	BW
25	1.33	1.29	1.37	1.41	1.24	1.51	804	1.11	0.99	1.19	1.19	1.07	1.29	347	BW
26	1.28	1.24	1.32	1.31	1.19	1.43	819	1.05	1.00	1.13	1.14	1.09	1.22	355	BW
27	1.26	1.21	1.28	1.29	1.14	1.37	815	1.02	0.93	1.10	1.29	1.06	1.38	345	OS
28	1.21	1.16	1.24	1.20	1.10	1.32	808	0.98	0.83	1.08	1.25	1.12	1.34	342	OS
Average	**1.29**	**1.23**	**1.32**	**1.23**	**1.14**	**1.37**	**809.50**	**1.02**	**0.94**	**1.11**	**1.18**	**1.07**	**1.27**	**345.14**	

DISTRIBUTION SYSTEM CHLORINE RESIDUALS - St. Vincent Station & Nelson Station

Date	AIT-101 St Vincent	AIT-101 St Vincent	AIT-101 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	Total Flow St Vincent	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	Total Flow Nelson	Initial
March	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		
2023															
1	1.22	1.17	1.24	1.20	1.07	1.28	582	0.97	0.86	1.03	1.23	0.96	1.31	350	DL
2	1.20	1.15	1.24	1.10	1.03	1.27	420	0.96	0.85	1.06	1.06	0.95	1.17	342	CH
3	1.19	1.14	1.23	1.14	1.00	1.25	425	0.97	0.89	1.05	1.10	1.00	1.17	338	CH
4	1.20	1.14	1.23	1.03	0.98	1.19	446	0.97	0.86	1.05	1.09	0.99	1.17	355	OS
5	1.20	1.14	1.23	1.11	0.97	1.21	454	0.94	0.84	1.05	1.04	0.95	1.17	355	OS
6	1.20	1.15	1.23	1.10	0.98	1.21	434	0.97	0.87	1.04	1.09	0.98	1.16	346	CH
7	1.15	1.14	1.21	1.07	0.97	1.17	440	0.94	0.85	1.05	1.11	0.95	1.15	350	BW
8	1.14	1.14	1.24	1.04	0.95	1.15	437	0.93	0.83	1.05	1.03	0.93	1.15	345	BW
9	1.14	1.13	1.25	1.06	0.95	1.19	437	0.94	0.90	1.05	1.05	0.99	1.15	342	BW
10	1.21	1.18	1.28	1.11	0.98	1.33	431	0.99	0.93	1.10	1.07	1.00	1.32	344	BW
11	1.23	1.20	1.30	1.17	1.09	1.37	445	1.01	0.96	1.10	1.22	1.10	1.33	352	CH
12	1.24	1.21	1.27	1.26	1.09	1.31	429	1.02	0.97	1.10	1.21	1.19	1.33	347	CH
13	1.21	1.19	1.26	1.19	1.09	1.30	445	1.00	0.94	1.08	1.20	1.14	1.31	349	BW
14	1.19	1.17	1.25	1.12	1.08	1.27	423	1.00	0.95	1.07	1.19	1.11	1.29	347	BW
15	1.19	1.16	1.23	1.17	1.06	1.27	431	0.98	0.90	1.06	1.19	1.03	1.27	350	BW
16	1.18	1.17	1.24	1.15	1.06	1.27	428	1.01	0.86	1.09	1.11	0.97	1.19	346	BW
17	1.19	1.17	1.25	1.14	1.07	1.30	420	0.94	0.91	1.07	1.06	1.02	1.20	345	OS
18	1.18	1.17	1.25	1.19	1.06	1.28	437	1.00	0.90	1.08	1.08	0.99	1.18	354	BW
19	1.18	1.17	1.25	1.12	1.08	1.28	442	0.99	0.93	1.09	1.09	1.03	1.19	359	BW
20	1.19	1.17	1.25	1.19	1.06	1.27	427	1.00	0.91	1.05	1.08	1.00	1.17	345	BW
21	1.22	1.17	1.25	1.19	1.07	1.26	428	0.96	0.88	1.07	1.06	0.97	1.17	344	EH
22	1.22	1.18	1.26	1.17	1.06	1.26	431	1.00	0.88	1.05	1.12	1.01	1.21	344	EH
23	1.17	1.17	1.25	1.14	1.05	1.27	494	0.96	0.88	1.05	1.11	0.98	1.21	345	EH
24	1.23	1.16	1.24	1.18	1.05	1.25	527	0.96	0.90	1.06	1.10	1.04	1.21	342	EH
25	1.19	1.15	1.23	1.18	1.03	1.24	429	0.96	0.89	1.04	1.10	0.99	1.20	350	OS
26	1.19	1.15	1.23	1.13	1.03	1.23	438	0.97	0.90	1.04	1.09	1.05	1.20	355	OS
27	1.19	1.12	1.21	1.08	0.99	1.21	423	0.93	0.88	1.02	1.08	1.02	1.18	343	OS
28	1.11	1.07	1.14	1.14	1.01	1.19	431	0.93	0.86	1.03	1.09	0.99	1.18	341	OS
29	1.07	1.06	1.14	1.24	1.01	1.35	432	0.92	0.83	1.00	1.06	0.97	1.16	347	OS
30	1.09	1.06	1.14	1.22	1.13	1.34	436	0.93	0.87	1.02	1.08	1.00	1.17	343	OS
31	1.07	1.07	1.14	0.98	0.97	1.32	417	0.92	0.86	1.00	1.04	1.00	1.16	347	OS
Average	**1.18**	**1.15**	**1.23**	**1.14**	**1.03**	**1.26**	**442.55**	**0.97**	**0.89**	**1.05**	**1.10**	**1.01**	**1.21**	**347.16**	

*Mar 24 mainbreak 118 Montgomery

DISTRIBUTION SYSTEM CHLORINE RESIDUALS - St. Vincent Station & Nelson Station

Date	AIT-101 St Vincent	AIT-101 St Vincent	AIT-101 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	Total Flow St Vincent	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	Total Flow Nelson	Initial
April	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		
2023															
1	1.12	1.07	1.15	1.10	0.99	1.19	430	0.91	0.86	1.03	1.05	0.95	1.18	353	OS
2	1.12	1.08	1.16	1.04	1.00	1.19	441	0.95	0.88	1.04	1.06	0.97	1.16	355	OS
3	1.11	1.06	1.14	1.08	0.98	1.17	428	0.92	0.82	1.02	1.04	0.96	1.19	340	EH
4	1.07	1.05	1.14	1.07	0.95	1.15	424	0.93	0.81	0.99	1.10	0.94	1.17	335	OS
5	1.07	1.06	1.15	1.04	0.92	1.16	419	0.88	0.78	1.01	1.07	0.79	1.14	349	BW
6	1.14	1.08	1.17	1.04	0.97	1.20	425	0.84	0.79	1.22	1.03	0.91	1.19	343	BW
7	1.17	1.12	1.23	1.11	0.98	1.24	436	0.92	0.76	1.05	1.07	0.92	1.20	348	BW
8	1.19	1.14	1.25	1.14	1.04	1.29	442	0.91	0.80	1.04	1.10	0.95	1.21	356	BW
9	1.20	1.13	1.23	1.15	1.03	1.24	434	0.96	0.84	1.05	1.12	0.97	1.21	353	BW
10	1.14	1.13	1.20	1.13	1.01	1.21	432	0.90	0.77	1.00	1.04	0.91	1.17	356	BW
11	1.11	1.10	1.19	1.07	0.97	1.18	429	0.91	0.76	1.02	1.08	0.92	1.16	344	OS
12	1.10	1.10	1.17	1.19	0.98	1.16	429	0.94	0.75	1.11	1.06	0.90	1.26	353	BW
13	1.12	1.10	1.23	1.00	0.96	1.20	450	0.89	0.81	1.16	1.02	0.95	1.33	387	BW
14	1.20	1.15	1.26	1.11	1.01	1.23	441	1.12	0.80	1.18	1.31	0.91	1.35	415	EH
15	1.24	1.17	1.30	1.13	1.03	1.24	441	1.11	0.77	1.23	1.31	0.89	1.39	433	CH
16	1.21	1.19	1.28	1.14	1.03	1.23	456	1.09	0.92	1.18	1.27	1.11	1.35	428	CH
17	1.21	1.08	1.26	1.01	0.99	1.19	426	1.04	0.90	1.14	1.21	1.04	1.33	372	EH
18	1.05	1.03	1.11	1.06	0.96	1.16	427	0.91	0.84	1.04	1.03	0.95	1.18	350	EH
19	1.01	1.01	1.09	0.97	0.90	1.11	426	0.91	0.83	1.07	1.03	0.93	1.12	341	BW
20	1.02	0.98	1.06	0.97	0.89	1.07	427	0.88	0.81	1.04	0.98	0.92	1.10	343	EH
21	1.05	0.98	1.07	0.98	0.87	1.08	420	0.85	0.76	1.02	1.00	0.90	1.13	349	EH
22	1.03	0.99	1.07	0.98	0.88	1.08	436	0.87	0.76	0.98	1.05	0.88	1.21	353	EH
23	1.04	0.99	1.11	0.99	0.88	1.10	437	0.87	0.82	1.00	1.00	0.96	1.17	356	EH
24	1.04	1.01	1.14	0.94	0.90	1.15	432	0.85	0.76	1.15	0.98	0.90	1.20	353	EH
25	1.11	1.07	1.15	1.05	0.96	1.15	425	0.96	0.91	1.15	0.97	0.93	1.17	345	OS
26	1.07	1.03	1.19	1.03	0.94	1.17	435	1.05	0.82	1.10	1.05	0.90	1.28	353	EH
27	1.12	1.11	1.16	1.06	1.00	1.17	439	0.87	0.81	1.28	0.96	0.91	1.25	343	BW
28	1.05	1.03	1.63	1.09	0.96	1.15	444	0.87	0.78	1.09	0.94	0.88	1.34	349	OS
29	1.03	1.00	1.13	1.07	0.96	1.17	441	0.94	0.77	1.08	1.01	0.86	1.24	358	CH
30	1.02	0.97	1.11	1.08	0.94	1.16	439	1.01	0.75	1.05	1.00	0.88	1.15	356	CH
Average	**1.11**	**1.07**	**1.18**	**1.06**	**0.96**	**1.17**	**433.70**	**0.94**	**0.81**	**1.08**	**1.06**	**0.93**	**1.22**	**358.97**	

DISTRIBUTION SYSTEM CHLORINE RESIDUALS - St. Vincent Station & Nelson Station

Date	AIT-101 St Vincent	AIT-101 St Vincent	AIT-101 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	Total Flow St Vincent	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	Total Flow Nelson	Initial
May	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		
2023															
1	0.95	0.93	1.08	1.02	0.91	1.15	427	0.89	0.77	1.09	0.98	0.86	1.30	345	EH
2	1.00	0.94	1.09	1.01	0.96	1.16	433	0.89	0.60	1.09	0.98	0.70	2.15	345	EH
3	0.98	0.95	1.11	1.08	0.97	1.22	422	1.00	0.83	1.17	0.95	0.83	1.23	343	BW
4	1.01	0.98	1.11	1.10	1.03	1.24	429	0.96	0.82	1.16	0.97	0.83	1.17	343	BW
5	1.03	0.98	1.15	1.16	1.02	1.24	434	1.04	0.82	1.14	0.98	0.83	1.17	349	EH
6	1.06	1.02	1.15	1.05	0.99	1.22	446	0.99	0.76	1.04	1.07	0.85	1.17	352	BW
7	1.08	1.00	1.19	1.09	1.04	1.28	439	0.92	0.78	1.09	1.09	0.93	1.24	353	BW
8	1.08	1.05	1.19	1.22	1.07	1.30	433	1.07	0.74	1.13	1.26	0.87	1.26	354	EH
9	1.12	1.06	1.18	1.12	1.06	1.29	442	0.94	0.77	1.11	1.12	0.88	1.23	351	EH
10	1.07	1.01	1.11	1.06	0.95	1.20	444	0.90	0.74	1.21	1.05	0.87	1.25	357	EH
11	1.03	0.99	1.15	1.01	0.93	1.20	448	0.91	0.74	1.29	0.99	0.90	1.15	346	EH
12	1.10	1.07	1.24	1.15	1.01	1.27	452	1.04	0.76	1.13	1.11	0.89	1.27	345	EH
13	1.14	1.10	1.21	1.12	1.04	1.26	476	1.01	0.88	1.12	1.11	1.01	1.26	354	EH
14	1.08	1.06	1.17	1.14	1.04	1.24	469	0.95	0.90	1.10	1.08	1.03	1.22	361	EH
15	1.07	1.03	1.15	1.10	1.01	1.25	450	1.00	0.82	1.09	1.14	0.96	1.19	355	BW
16	0.97	0.95	1.15	1.04	0.95	1.26	447	0.93	0.77	1.16	1.02	0.90	1.27	354	EH
17	1.10	1.03	1.20	1.12	1.00	1.28	436	0.97	0.80	1.12	1.18	0.92	1.24	347	EH
18	1.11	1.05	1.20	1.15	1.03	1.25	467	0.97	0.87	1.09	0.98	0.90	1.14	352	EH
19	1.09	1.03	1.15	1.11	1.01	1.20	472	0.96	0.75	1.14	1.04	0.88	1.16	346	EH
20	1.05	1.02	1.11	1.07	1.00	1.17	452	0.90	0.79	1.07	1.01	0.93	1.14	349	CH
21	1.05	1.02	1.11	1.06	1.01	1.16	490	0.96	0.84	1.07	1.05	0.97	1.17	352	CH
22	1.07	1.02	1.13	1.10	1.01	1.21	487	0.96	0.92	1.12	1.05	0.98	1.18	371	CH
23	1.07	1.01	1.22	1.09	1.04	1.28	490	0.99	0.73	1.09	1.08	0.92	1.15	349	EH
24	1.14	1.10	1.20	1.16	1.07	1.27	461	0.95	0.85	1.07	1.08	0.93	1.15	351	BW
25	1.10	1.09	1.19	1.08	1.06	1.24	494	0.97	0.77	1.12	1.03	0.86	1.27	394	EH
26	1.03	0.89	1.17	1.05	0.85	1.21	419	0.77	0.74	1.10	0.85	0.83	1.13	320	EH
27	1.00	0.98	1.19	0.94	0.92	1.20	482	0.91	0.77	1.08	1.08	0.91	1.15	345	EH
28	1.15	1.07	1.23	1.06	1.02	1.27	523	0.95	0.79	1.07	0.97	0.94	1.17	369	BW
29	1.19	1.09	1.21	1.16	1.08	1.26	492	0.89	0.85	1.05	1.02	0.95	1.16	371	EH
30	1.10	0.98	1.19	1.08	0.95	1.23	494	0.88	0.60	1.09	0.99	0.73	1.20	374	EH
31	1.02	1.01	1.15	0.99	0.94	1.17	486	0.89	0.83	1.07	0.99	0.90	1.11	351	EH
Average	**1.07**	**1.02**	**1.16**	**1.09**	**1.00**	**1.23**	**459.23**	**0.95**	**0.79**	**1.11**	**1.04**	**0.89**	**1.23**	**353.16**	

DISTRIBUTION SYSTEM CHLORINE RESIDUALS - St. Vincent Station & Nelson Station

Date	AIT-101 St Vincent	AIT-101 St Vincent	AIT-101 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	Total Flow St Vincent	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	Total Flow Nelson	Initial
June	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		
2023															
1	1.08	1.01	1.18	1.05	0.94	1.17	515	0.92	0.82	1.20	0.98	0.92	1.15	368	EH
2	1.09	1.07	1.17	1.06	0.99	1.20	534	0.94	0.77	1.05	1.02	0.90	1.16	384	EH
3	1.08	1.04	1.16	1.13	0.94	1.18	510	0.99	0.68	1.04	1.04	0.93	1.16	387	EH
4	1.04	0.97	1.11	0.99	0.85	1.10	537	0.89	0.77	1.31	0.99	0.86	1.46	400	EH
5	0.95	0.90	1.00	0.97	0.76	1.03	517	0.87	0.74	1.58	1.01	0.79	1.57	383	EH
6	0.94	0.90	1.11	0.88	0.82	1.07	520	0.89	0.81	1.14	0.94	0.88	1.35	397	NE
7	0.95	0.88	1.05	0.90	0.74	1.03	518	0.89	0.76	1.38	0.92	0.79	1.38	382	NE
8	0.82	0.81	0.90	0.70	0.65	0.84	511	0.87	0.76	1.24	0.91	0.72	1.41	362	NE
9	0.84	0.81	0.90	0.70	0.64	0.79	489	0.87	0.61	1.32	0.96	0.68	1.28	355	NE
10	0.88	0.77	0.99	0.68	0.60	1.00	517	0.88	0.74	1.26	0.87	0.83	1.35	368	BW
11	0.98	0.84	1.09	0.86	0.84	1.13	489	0.84	0.70	1.30	0.94	0.76	1.17	357	BW
12	0.95	0.93	1.07	0.95	0.86	1.13	447	0.95	0.82	1.78	0.99	0.84	1.33	340	NE
13	0.99	0.95	1.08	1.01	0.99	2.46	470	0.96	0.77	2.03	1.05	0.88	1.38	348	NE
14	1.02	0.96	1.16	1.13	1.02	2.53	475	0.90	0.74	1.22	1.04	0.80	1.99	353	BW
15	1.11	1.02	1.21	1.15	1.01	1.26	506	0.94	0.59	1.25	1.04	0.80	1.33	352	BW
16	1.11	1.02	1.28	1.00	0.92	1.13	508	0.95	0.84	1.32	1.06	0.95	1.43	363	NE
17	1.18	1.02	1.28	0.95	0.73	1.09	524	1.09	0.82	1.19	1.19	1.00	1.36	389	CH
18	1.01	0.99	1.16	0.68	0.66	1.30	557	0.93	0.83	1.20	1.00	0.93	1.30	393	CH
19	1.12	1.04	1.17	1.21	1.20	1.33	551	0.99	0.88	1.17	1.11	1.01	1.29	399	EH
20	1.01	0.98	1.15	1.19	1.15	1.37	574	0.96	0.79	1.15	1.02	0.94	1.27	404	NE
21	1.40	1.03	1.44	1.32	1.23	1.41	644	1.00	0.88	1.13	1.09	1.03	1.26	407	NE
22	1.39	1.27	1.34	1.35	1.23	1.31	505	1.05	0.90	1.13	1.12	0.99	1.22	382	EH
23	1.24	1.19	1.38	1.20	1.15	1.34	473	0.98	0.85	1.13	1.08	0.94	1.23	373	NE
24	1.18	1.11	1.46	1.13	1.09	1.44	507	0.94	0.76	1.25	1.01	0.84	1.27	354	EH
25	1.31	1.30	1.58	1.36	1.32	1.57	505	0.98	0.83	1.17	1.15	0.98	1.38	371	EH
26	1.43	1.05	1.51	1.44	1.18	1.51	447	0.98	0.80	1.17	1.17	1.03	1.32	342	MD
27	1.11	1.02	1.27	1.25	1.14	1.42	469	1.01	0.94	1.30	1.03	0.94	1.27	346	MD
28	1.22	1.17	1.32	1.36	1.19	1.35	473	1.22	0.88	1.38	1.15	1.01	1.32	351	MD
29	1.19	1.08	1.27	1.27	1.14	1.35	509	0.95	0.74	1.14	1.11	0.91	1.28	352	MD
30	1.06	1.01	1.20	1.12	1.07	1.26	462	0.98	0.85	1.16	1.04	0.91	1.21	345	NE
Average	**1.09**	**1.00**	**1.20**	**1.07**	**0.97**	**1.30**	**508.77**	**0.95**	**0.79**	**1.27**	**1.03**	**0.89**	**1.33**	**370.23**	

DISTRIBUTION SYSTEM CHLORINE RESIDUALS - St. Vincent Station & Nelson Station

Date	AIT-101 St Vincent	AIT-101 St Vincent	AIT-101 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	Total Flow St Vincent	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	Total Flow Nelson	Initial
July	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		
2023															
1	1.07	0.99	1.16	1.11	1.02	1.23	481	0.88	0.63	1.07	1.01	0.89	1.87	354	BW
2	1.00	0.97	1.15	1.04	1.01	1.20	471	0.92	0.78	1.21	0.98	0.92	1.47	362	BW
3	1.03	0.99	1.13	1.07	1.00	1.16	515	0.91	0.77	1.18	1.00	0.89	1.37	381	BW
4	0.99	0.97	1.23	0.97	0.95	1.20	511	0.83	0.66	1.05	0.99	0.82	1.63	417	MD
5	1.15	1.06	1.22	1.11	1.01	1.23	522	0.94	0.41	1.19	1.18	0.84	1.29	440	NE
6	1.09	1.02	1.14	1.04	0.91	1.05	454	1.01	0.77	1.12	1.16	0.95	1.34	419	CH
7	0.98	0.96	1.12	1.08	0.83	1.16	491	0.97	0.87	1.18	1.07	1.02	1.23	393	NE
8	1.01	0.98	1.11	1.04	0.96	1.14	465	1.02	0.87	1.23	1.12	0.93	1.24	351	CH
9	0.95	0.89	1.04	0.84	0.82	0.99	493	0.97	0.79	1.14	1.00	0.88	1.19	361	CH
10	0.98	0.91	1.04	0.85	0.76	0.91	507	1.05	0.86	1.31	1.09	0.92	1.20	402	NE
11	0.99	0.93	1.11	0.80	0.75	0.89	508	1.09	0.56	1.63	1.04	0.75	1.25	393	NE
12	1.02	0.93	1.11	1.04	0.74	1.10	496	1.32	0.81	1.37	1.10	0.83	1.25	362	NE
13	0.99	0.94	1.08	0.93	0.85	1.04	470	0.87	0.79	1.00	1.07	0.98	1.28	360	NE
14	0.93	0.91	1.06	0.81	0.45	1.36	469	0.84	0.58	1.23	0.90	0.76	1.65	350	NE
15	1.03	0.99	1.14	1.34	1.28	1.53	484	0.87	0.69	1.27	0.98	0.82	1.60	354	EH
16	1.06	0.99	1.18	1.44	1.35	1.64	358	0.89	0.75	1.02	1.00	0.83	1.46	489	EH
17	1.11	1.05	1.17	1.55	1.10	1.64	488	0.91	0.77	1.15	1.03	0.92	1.33	384	NE
18	1.05	1.01	1.17	1.10	1.09	1.24	476	0.97	0.87	1.17	1.02	0.90	1.21	376	NE
19	1.13	1.04	1.25	1.17	1.12	1.31	496	0.93	0.71	1.20	0.99	0.82	1.26	385	BW
20	1.08	1.05	1.20	1.16	1.09	1.27	443	0.97	0.77	1.13	1.11	0.93	1.22	350	NE
21	1.08	1.03	1.20	1.14	1.09	1.25	501	0.93	0.78	1.07	1.10	0.88	1.19	361	NE
22	1.06	1.00	1.18	1.09	1.04	1.24	488	0.91	0.58	1.26	1.02	0.87	1.34	385	BW
23	1.09	1.02	1.15	1.15	1.07	1.22	498	0.92	0.73	1.08	1.06	0.93	1.18	378	BW
24	0.99	0.96	1.16	1.02	0.98	1.17	467	0.89	0.57	1.16	0.96	0.87	1.34	368	MD
25	1.08	0.96	1.19	1.06	0.99	1.21	489	0.89	0.46	1.20	0.94	0.84	1.21	378	MD
26	1.15	0.99	1.20	1.15	0.95	1.22	481	0.93	0.68	1.22	1.07	0.91	1.28	384	MD
27	1.25	1.02	1.31	1.13	1.01	1.27	459	0.61	0.14	1.21	0.91	0.61	1.39	373	MD
28	1.15	1.08	1.41	1.10	1.02	1.35	479	0.93	0.69	1.18	1.20	0.89	1.25	367	MD
29	1.19	1.03	1.23	1.16	1.01	1.20	477	0.86	0.73	1.17	1.05	0.89	1.26	363	MD
30	1.18	1.03	1.27	1.12	1.00	1.20	483	0.88	0.73	1.21	0.97	0.84	1.24	366	MD
31	1.12	0.83	1.23	1.03	0.97	1.32	477	1.05	0.34	1.58	1.04	0.48	1.30	356	BW
Average	**1.06**	**0.98**	**1.17**	**1.09**	**0.97**	**1.22**	**480.55**	**0.93**	**0.68**	**1.20**	**1.04**	**0.86**	**1.33**	**379.42**	

Deviation from Critical Control Point. Rechlorination takes place at station, so distribution water from station was never below 0.61mg/l

DISTRIBUTION SYSTEM CHLORINE RESIDUALS - St. Vincent Station & Nelson Station

Date	AIT-101 St Vincent	AIT-101 St Vincent	AIT-101 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	Total Flow St Vincent	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	Total Flow Nelson	Initial
August	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		
2023															
1	1.02	0.88	1.10	1.16	0.99	1.22	476	1.19	0.72	1.44	1.11	0.76	1.29	368	BW
2	0.96	0.94	1.16	1.03	0.95	1.12	451	1.09	0.60	1.31	1.00	0.77	1.24	368	JR
3	1.11	0.99	1.21	1.06	0.95	1.18	475	0.68	0.38	0.96	0.96	0.59	1.42	366	JR
4	1.08	0.96	1.19	1.03	0.88	1.15	455	0.71	0.49	1.12	1.02	0.80	1.47	366	EH
5	0.90	0.88	0.99	0.83	0.76	0.91	483	0.95	0.77	1.17	0.86	0.79	1.42	373	EH
6	0.80	0.76	0.91	0.72	0.66	0.79	464	0.91	0.74	1.36	0.80	0.73	1.47	366	EH
7	0.81	0.65	0.88	0.67	0.62	0.74	469	0.87	0.54	1.29	0.84	0.70	1.82	381	EH
8	0.65	0.64	0.79	0.64	0.60	0.73	339	0.73	0.59	1.42	1.00	0.80	1.63	394	JR
9	0.77	0.74	1.00	0.80	0.67	1.00	478	0.85	0.52	1.30	0.95	0.72	1.85	381	JR
10	0.92	0.88	1.01	0.92	0.87	1.02	436	0.91	0.36	1.81	1.00	0.61	1.73	362	BW
11	0.83	0.77	1.03	0.77	0.77	1.06	463	0.88	0.51	1.83	0.89	0.70	1.70	350	BW
12	0.90	0.82	1.28	0.86	0.82	1.23	442	0.91	0.66	1.77	0.99	0.70	1.69	344	BW
13	0.98	0.83	1.20	0.90	0.81	1.18	483	1.09	0.69	1.88	1.01	0.73	1.61	354	BW
14	0.92	0.85	1.05	0.92	0.80	1.00	462	1.08	0.61	1.47	0.92	0.80	1.77	359	JR
15	0.96	0.89	1.06	0.85	0.84	1.00	469	0.96	0.57	1.40	0.95	0.75	1.51	362	MD
16	0.99	0.90	1.02	0.93	0.85	0.97	475	1.11	0.54	1.41	0.79	0.75	1.70	359	MD
17	0.93	0.85	1.02	0.87	0.77	0.95	449	1.06	0.36	1.36	1.02	0.54	1.56	378	MD
18	0.93	0.82	0.99	0.83	0.73	1.10	449	1.00	0.34	1.24	0.92	0.53	1.85	362	MD
19	1.10	0.96	1.23	0.92	0.83	1.12	451	1.04	0.70	1.82	1.03	0.76	1.93	369	MD
20	1.11	0.88	1.12	0.95	0.78	0.98	455	0.93	0.50	1.63	0.99	0.68	2.13	367	MD
21	0.98	0.92	1.10	0.90	0.79	0.97	453	0.94	0.50	1.36	1.00	0.77	1.32	374	BW
22	0.94	0.87	1.11	0.81	0.73	0.92	451	0.91	0.58	1.01	0.90	0.64	1.50	348	JR
23	0.92	0.91	1.08	0.76	0.73	0.89	439	0.81	0.70	1.40	0.93	0.79	1.56	346	JR
24	1.09	0.96	1.13	0.85	0.76	0.91	444	0.85	0.60	1.57	0.91	0.76	1.66	335	EH
25	0.95	0.86	1.11	0.77	0.68	0.86	452	0.57	0.50	1.10	0.83	0.73	1.60	348	JR
26	0.87	0.86	1.00	0.67	0.65	0.76	454	0.97	0.86	1.31	0.94	0.67	1.52	349	EH
27	0.87	0.78	1.11	0.68	0.58	0.86	474	1.01	0.81	1.74	0.97	0.71	1.91	368	EH
28	1.02	0.92	1.10	0.76	0.74	1.12	475	0.90	0.75	1.44	0.80	0.77	1.51	370	NE
29	0.99	0.92	1.05	0.93	0.91	1.07	466	0.91	0.74	1.82	0.84	0.72	1.87	356	NE
30	0.92	0.81	1.07	0.77	0.66	0.95	468	0.73	0.54	1.80	0.95	0.71	2.14	353	NE
31	0.89	0.75	1.18	0.74	0.60	0.90	450	0.88	0.49	1.32	0.94	0.69	1.96	354	BW
Average	**0.94**	**0.85**	**1.07**	**0.85**	**0.77**	**0.99**	**456.45**	**0.92**	**0.59**	**1.45**	**0.94**	**0.72**	**1.66**	**362.26**	

DISTRIBUTION SYSTEM CHLORINE RESIDUALS - St. Vincent Station & Nelson Station

Date	AIT-101 St Vincent	AIT-101 St Vincent	AIT-101 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	Total Flow St Vincent	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	Total Flow Nelson	Initial
September	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		
2023															
1	0.84	0.75	1.28	0.66	0.61	1.11	454	0.53	0.52	1.33	0.65	0.62	1.83	356	EH
2	0.93	0.79	1.16	0.69	0.65	0.94	455	1.03	0.59	1.36	0.96	0.68	1.59	357	BW
3	1.11	0.83	1.12	0.82	0.71	0.92	473	0.98	0.60	1.19	1.09	0.85	1.36	360	BW
4	1.03	0.9	1.17	1.04	0.72	1.17	493	0.74	0.60	1.23	1	0.68	1.54	371	BW
5	1.07	1	1.15	1.04	0.98	1.16	495	1.09	0.52	1.50	0.89	0.69	1.59	372	JR
6	0.99	0.92	1.10	0.94	0.91	1.02	475	0.92	0.70	1.28	0.91	0.76	1.54	384	NE
7	0.99	0.88	1.11	0.97	0.85	1.06	458	1.1	0.78	1.75	0.97	0.81	1.15	386	JR
8	0.97	0.93	1.09	0.88	0.87	1.01	459	1.13	0.79	1.64	1.04	0.84	1.48	387	NE
9	0.91	0.9	1.07	0.85	0.83	0.99	472	0.89	0.82	1.77	0.9	0.81	1.85	363	NE
10	0.9	0.85	0.99	0.75	0.74	0.90	474	0.94	0.80	1.71	0.8	0.80	1.73	362	NE
11	0.88	0.83	0.96	0.73	0.69	0.84	467	0.95	0.71	1.44	1.02	0.76	1.70	363	JR
12	0.87	0.74	0.97	0.64	0.62	0.80	456	0.95	0.71	1.53	0.87	0.65	1.66	362	NE
13	0.82	0.78	1.11	0.65	0.69	0.92	649	0.73	0.69	1.27	0.89	0.79	1.55	365	JR
14	0.94	0.87	1.07	0.84	0.71	0.88	651	0.81	0.69	1.50	0.99	0.76	1.64	366	JR
15	0.91	0.89	1.10	0.83	0.78	1.01	448	0.95	0.60	1.56	0.92	0.74	1.76	352	JR
16	0.91	0.91	1.13	0.86	0.81	1.01	452	0.93	0.64	0.87	1.05	0.76	1.41	346	JR
17	1.04	0.95	1.12	0.91	0.82	0.97	454	0.87	0.65	1.18	0.97	0.76	1.46	355	JR
18	1.05	0.96	1.30	0.83	0.80	2.02	456	0.83	0.66	1.20	0.95	0.78	1.32	356	BW
19	1.29	1.15	1.33	1.28	1.17	1.32	442	0.96	0.63	1.28	1.04	0.74	1.43	347	BW
20	1.12	0.85	1.27	1.17	0.82	1.27	444	0.99	0.63	1.38	1.02	0.71	1.49	344	NE
21	0.9	0.88	1.14	0.89	0.87	1.12	445	0.84	0.68	1.15	0.94	0.70	1.29	340	NE
22	1.04	0.92	1.22	1.01	0.95	1.12	459	0.91	0.72	1.26	1.05	0.82	1.43	346	BW
23	1.02	0.97	1.18	0.94	0.88	1.06	463	0.93	0.80	1.44	1.03	0.88	1.48	347	BW
24	1.08	0.96	1.13	0.93	0.86	0.99	465	0.89	0.65	1.40	0.93	0.67	1.52	351	BW
25	1.04	0.9	1.12	0.93	0.82	0.98	466	0.9	0.72	1.27	0.95	0.76	1.73	352	NE
26	0.94	0.92	1.08	0.85	0.75	0.95	478	0.92	0.80	1.29	0.92	0.73	1.71	346	NE
27	0.96	0.94	1.15	0.84	0.75	1.00	480	0.9	0.63	1.21	0.88	0.74	1.50	353	NE
28	1.06	1.02	1.36	0.92	0.87	1.16	469	0.88	0.62	1.24	1.02	0.87	1.62	354	NE
29	1.26	1.23	1.56	1.24	1.08	1.51	506	0.77	0.69	1.32	1.02	0.92	1.48	350	NE
30	1.48	1.33	1.53	1.43	1.29	1.48	508	1.03	0.89	1.39	1.19	1.10	1.59	357	NE
Average	**1.01**	**0.93**	**1.17**	**0.91**	**0.83**	**1.09**	**478.87**	**0.91**	**0.68**	**1.36**	**0.96**	**0.77**	**1.55**	**358.33**	

DISTRIBUTION SYSTEM CHLORINE RESIDUALS - St. Vincent Station & Nelson Station

Date	AIT-101 St Vincent	AIT-101 St Vincent	AIT-101 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	Total Flow St Vincent	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	Total Flow Nelson	Initial
October	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		
2023															
1	1.22	1.2	1.45	1.17	1.15	1.37	464	1.05	0.85	1.25	1.27	1.10	1.48	376	NE
2	1.23	1.17	1.38	1.19	1.09	1.32	468	0.97	0.68	1.10	1.2	0.95	1.39	378	JR
3	1.07	1.05	1.24	1.03	1.01	1.21	600	0.98	0.67	1.09	1.16	0.94	1.27	355	JR
4	1.19	1.04	1.29	1.15	1.01	1.26	630	1.04	0.71	1.30	1.25	0.80	1.36	355	JR
5	1.12	1.05	1.28	1.10	1.03	1.24	632	1.09	0.83	1.12	1.02	0.86	1.11	352	JR
6	1.09	1.08	1.19	1.08	1.06	1.15	547	1.04	0.77	1.32	1.06	0.79	1.09	347	JR
7	1.09	1.01	1.16	1.06	0.93	1.12	442	0.93	0.79	1.23	0.88	0.75	1.32	357	JR
8	1.08	0.97	1.20	1.06	0.94	1.15	449	0.97	0.88	1.22	0.089	0.81	1.08	359	JR
9	1.08	0.96	1.18	1.05	0.92	1.14	451	0.93	0.80	1.32	0.84	0.75	1.21	361	JR
10	1.17	0.98	1.19	1.12	0.94	1.14	439	0.72	0.68	1.30	0.84	0.77	1.69	362	BW
11	1	0.99	1.20	0.97	0.95	1.15	428	0.85	0.72	1.50	1.14	0.85	1.65	351	JR
12	1.17	0.99	1.30	1.1	0.93	1.22	499	0.87	0.76	1.54	0.91	0.86	1.35	353	BW
13	1.07	1.07	1.27	1.02	1.01	1.28	501	0.88	0.78	1.32	0.94	0.84	1.26	348	BW
14	1.21	1.03	1.27	1.24	1.06	1.30	432	0.92	0.73	1.15	1	0.83	1.50	346	BW
15	1.20	1.06	1.31	1.24	1.10	1.34	434	0.84	0.82	1.11	0.98	0.90	1.32	352	BW
16	1.22	1.13	1.31	1.25	1.14	1.34	447	0.86	0.82	1.17	1.05	0.90	1.52	353	NE
17	1.18	1.09	1.29	1.23	1.12	1.33	449	0.91	0.78	1.37	1.08	0.84	1.35	350	NE
18	1.15	1.05	1.24	1.08	0.98	1.27	427	0.88	0.72	1.20	0.97	0.79	1.40	342	NE
19	1.15	1.13	1.25	1.07	0.97	1.15	425	1.05	0.73	1.58	1.05	0.73	1.37	344	NE
20	1.2	1.07	1.27	1.14	1.01	1.18	453	0.88	0.76	1.15	1.05	0.89	1.20	345	NE
21	1.07	1.03	1.20	1	0.97	1.13	455	0.87	0.80	1.10	0.95	0.90	1.35	346	NE
22	1.07	0.97	1.18	0.98	0.90	1.09	431	0.87	0.77	1.06	1.02	0.91	1.27	357	NE
23	1.07	0.85	1.17	0.99	0.90	1.09	433	0.86	0.79	1.10	1	0.74	1.18	358	JR
24	1.01	0.9	1.06	1.07	0.92	1.12	435	0.93	0.87	1.15	0.94	0.88	1.20	347	JR
25	0.98	0.91	1.05	0.94	0.80	1.10	431	0.94	0.73	1.28	0.96	0.78	1.54	341	JR
26	1	0.93	1.06	0.96	0.87	1.02	417	0.9	0.65	1.42	0.96	0.68	1.43	343	JR
27	0.93	0.89	1.04	0.9	0.86	1.01	427	0.88	0.70	1.20	0.91	0.85	1.54	346	JR
28	0.98	0.91	1.09	0.94	0.84	1.03	437	0.90	0.73	1.28	0.94	0.76	1.68	348	JR
29	1	0.90	1.20	0.96	0.87	1.15	437	0.9	0.75	1.27	0.99	0.83	1.37	351	JR
30	1.06	1.05	1.23	1.03	0.95	1.17	466	0.87	0.83	1.23	0.9	0.88	1.20	352	JR
31	1.13	1.06	1.21	1.06	0.98	1.14	468	1	0.83	1.33	1.04	0.87	1.51	350	BW
Average	**1.10**	**1.02**	**1.22**	**1.07**	**0.97**	**1.18**	**466.26**	**0.92**	**0.77**	**1.25**	**0.98**	**0.84**	**1.36**	**352.42**	

DISTRIBUTION SYSTEM CHLORINE RESIDUALS - St. Vincent Station & Nelson Station

Date	AIT-101 St Vincent	AIT-101 St Vincent	AIT-101 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	Total Flow St Vincent	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	Total Flow Nelson	Initial
November	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		
2023															
1	1.07	0.97	1.17	1.01	0.92	1.23	425	0.91	0.83	1.24	0.95	0.89	1.26	344	BW
2	1.06	0.99	1.17	1.13	0.90	1.24	427	0.88	0.80	1.17	0.95	0.91	1.24	345	BW
3	1.02	0.94	1.14	1.07	0.99	1.19	423	0.88	0.84	1.10	0.96	0.93	1.29	345	BW
4	1.02	0.97	1.15	1.07	1.02	1.20	423	0.97	0.84	1.07	1.07	0.98	1.30	349	BW
5	1.06	0.96	1.13	1.09	0.93	1.16	440	0.88	0.84	1.08	1.02	0.97	1.27	354	BW
6	1.06	0.95	1.13	1.10	0.94	1.15	417	0.97	0.83	0.93	0.92	0.81	1.48	347	NE
7	0.96	0.94	1.12	0.98	0.96	1.14	422	0.95	0.76	1.66	0.98	0.74	1.63	338	NE
8	1.02	0.97	1.15	1.03	0.96	1.16	424	1.00	0.70	1.43	0.98	0.70	1.11	345	NE
9	1.04	1.00	1.14	1.04	1.00	1.14	419	0.97	0.85	1.14	0.97	0.85	1.21	346	JR
10	1.04	0.99	1.14	1.04	0.96	1.13	432	1.01	0.79	1.03	1.09	0.93	1.27	347	NE
11	1.04	1.01	1.16	1.03	1.00	1.17	433	0.85	0.79	1.02	1.01	0.93	1.21	354	NE
12	1.05	1.02	1.18	1.04	1.02	1.18	435	0.95	0.77	1.05	1.12	0.90	1.24	363	NE
13	1.09	1.04	1.18	1.10	1.01	1.17	437	0.93	0.74	1.04	1.09	0.90	1.24	353	JR
14	1.04	1.00	1.25	1.02	0.97	1.23	435	0.98	0.80	1.54	1.20	0.90	1.24	354	JR
15	1.07	0.98	1.54	1.06	0.96	1.51	432	0.87	0.80	1.12	1.00	0.95	1.30	355	JR
16	1.11	1.01	1.38	1.08	1.00	1.36	434	1.03	0.83	1.12	1.18	0.96	1.27	354	JR
17	1.08	1.05	1.32	1.06	1.03	1.29	429	0.88	0.83	1.10	1.02	0.97	1.29	354	JR
18	1.13	1.09	1.28	1.10	1.07	1.25	432	0.92	0.79	1.11	1.04	0.91	1.26	351	JR
19	1.15	1.13	1.28	1.11	1.10	1.25	441	0.91	0.87	1.12	1.03	0.98	1.26	361	JR
20	1.24	1.11	1.30	1.20	1.08	1.27	468	1.05	0.88	1.18	1.15	0.92	1.32	354	BW
21	1.19	1.16	1.32	1.15	1.08	1.27	470	0.97	0.91	1.16	0.99	0.93	1.21	349	BW
22	1.25	1.10	1.32	1.21	1.05	1.26	467	1.09	0.90	1.21	1.12	0.92	1.23	354	BW
23	1.28	1.14	1.29	1.23	1.03	1.24	470	1.05	0.92	1.20	1.02	0.93	1.18	352	BW
24	1.18	1.11	1.27	1.13	1.07	1.21	472	1.08	0.92	1.20	1.03	0.92	1.17	355	BW
25	1.26	1.16	1.36	1.21	0.99	1.30	455	1.00	0.95	1.15	1.00	0.94	1.15	364	BW
26	1.22	1.13	1.29	1.18	1.05	1.24	439	0.99	0.95	1.20	0.98	0.95	1.18	367	BW
27	1.20	1.16	1.28	1.14	1.11	1.31	441	1.08	0.96	1.14	1.06	0.91	1.20	353	NE
28	1.20	1.11	1.27	1.23	1.14	1.31	434	1.04	0.97	1.21	1.01	0.94	1.17	373	NE
29	1.18	1.12	1.30	1.21	1.10	1.33	427	1.15	1.01	1.28	1.10	0.97	1.24	363	NE
30	1.21	1.19	1.32	1.23	1.19	1.33	440	1.05	1.01	1.22	1.02	0.95	1.19	363	NE
Average	**1.12**	**1.05**	**1.24**	**1.11**	**1.02**	**1.24**	**438.10**	**0.98**	**0.86**	**1.17**	**1.04**	**0.91**	**1.25**	**353.53**	

DISTRIBUTION SYSTEM CHLORINE RESIDUALS - St. Vincent Station & Nelson Station

Date	AIT-101 St Vincent	AIT-101 St Vincent	AIT-101 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	AIT-102 St Vincent	Total Flow St Vincent	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3009 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	AIT-3016 Nelson	Total Flow Nelson	Initial
December	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		**Actual**	**MIN** (mg/L)	**MAX** (mg/L)	**Actual**	**MIN** (mg/L)	**MAX** (mg/L)		
2023															
1	1.18	1.13	1.29	1.20	1.07	1.31	444	1.13	0.98	1.22	1.10	0.97	1.20	357	BW
2	1.15	1.10	1.26	1.16	1.06	1.27	446	1.10	0.98	1.17	1.11	0.98	1.19	356	JR
3	1.13	1.10	1.28	1.14	1.12	1.29	443	1.04	0.99	1.24	1.04	1.00	1.23	363	JR
4	1.20	1.17	1.29	1.20	1.08	1.29	449	1.07	1.01	1.28	1.06	1.02	1.28	363	JR
5	1.14	1.12	1.28	1.14	1.10	1.28	451	1.20	0.97	1.26	1.24	0.99	1.26	359	JR
6	1.22	1.19	1.30	1.22	1.14	1.30	441	1.08	1.03	1.21	1.09	1.03	1.26	362	JR
7	1.23	1.17	1.32	1.23	1.15	1.31	443	1.16	0.99	1.27	1.18	1.02	1.28	362	JR
8	1.25	1.20	1.32	1.24	1.17	1.32	448	1.06	1.02	1.24	1.07	1.03	1.26	360	JR
9	1.23	1.18	1.32	1.22	1.14	1.31	450	1.21	1.03	1.24	1.15	1.03	1.25	361	JR
10	1.21	1.18	1.31	1.20	1.13	1.31	458	1.07	1.03	1.23	1.08	1.05	1.25	368	JR
11	1.23	1.18	1.30	1.21	1.13	1.29	461	1.11	1.04	1.26	1.12	0.83	1.27	373	BW
12	1.28	1.16	1.32	1.26	1.11	1.30	457	1.10	0.99	1.28	1.19	1.03	1.30	373	BW
13	1.21	1.19	1.30	1.19	1.15	1.28	441	1.07	1.00	1.18	1.09	1.03	1.24	359	BW
14	1.25	1.12	1.26	1.24	1.09	1.25	458	1.09	1.03	1.21	1.15	1.05	1.26	359	BW
15	1.17	1.11	1.22	1.14	1.06	1.20	458	1.07	0.98	1.16	1.07	1.00	1.18	358	NE
16	1.19	1.08	1.22	1.18	1.07	1.21	455	1.04	0.91	1.12	1.09	0.94	1.16	363	BW
17	1.16	1.10	1.21	1.14	1.05	1.20	456	1.03	0.96	1.16	1.05	0.97	1.16	374	BW
18	1.17	1.12	1.22	1.15	1.06	1.19	456	1.03	0.96	1.15	1.10	0.97	1.17	374	BW
19	1.12	1.10	1.25	1.11	1.03	1.23	448	1.04	0.99	1.17	1.04	0.99	1.16	365	JR
20	1.18	1.15	1.27	1.17	1.05	1.25	445	1.07	0.99	1.21	1.06	1.00	1.26	369	NE
21	1.21	1.19	1.32	1.18	1.13	1.29	457	1.15	1.00	1.21	1.16	1.02	1.24	369	NE
22	1.20	1.20	1.32	1.19	1.14	1.29	469	1.08	1.03	1.26	1.10	1.04	1.29	369	NE
23	1.23	1.21	1.36	1.22	1.15	1.33	469	1.19	1.03	1.26	1.22	1.04	1.28	369	NE
24	1.29	1.23	1.37	1.26	1.21	1.34	469	1.10	1.04	1.28	1.10	1.04	1.28	369	NE
25	1.22	1.21	1.35	1.20	1.14	1.33	469	1.14	1.04	1.31	1.22	1.04	1.30	369	NE
26	1.25	1.21	1.32	1.24	1.15	1.30	448	1.07	1.05	1.25	1.08	1.05	1.27	369	JR
27	1.25	1.21	1.31	1.24	1.14	1.30	450	1.12	1.03	1.24	1.11	1.03	1.23	369	JR
28	1.21	1.19	1.29	1.20	1.12	1.29	451	1.08	1.01	1.22	1.07	1.00	1.23	365	JR
29	1.19	1.17	1.29	1.18	1.04	1.27	444	1.04	1.03	1.20	1.04	0.84	1.20	355	JR
30	1.20	1.18	1.30	1.16	1.08	1.27	463	1.08	1.04	1.21	1.08	1.03	1.21	352	JR
31	1.18	1.13	1.33	1.16	1.11	1.30	475	1.10	1.06	1.30	1.09	1.03	1.25	358	JR
Average	**1.20**	**1.16**	**1.29**	**1.19**	**1.11**	**1.28**	**453.94**	**1.09**	**1.01**	**1.23**	**1.11**	**1.00**	**1.24**	**364.23**	

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