



Meaford
Water Treatment Plant
Summary & Annual Reports
2020



2020 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 presented to Council and can be viewed on the Municipal website at www.meaford.ca

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, 2020 to December 31, 2020
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. Two new chlorine sample pumps and one new filter effluent sample pump. Both filter effluent and treated water effluent turbidimeters were upgraded in 2011.

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
- A filter backwash waste treatment system

The filter backwash wastewater treatment system consists of 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).

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 level supplies water pressure to the lower zone as well as the pressure stations 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 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

A booster station is located on Nelson St. across from the Water Tower. The water from this station is boosted to supply volume throughout the upper west 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), 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 2020

Filter #1 Media & Underdrain replacement (ongoing into 2021)	\$693,040.47
TSS Sampler	\$5,056.96
WTP Fire Alarm Replacement	\$2,535.86

Summary of Adverse Drinking Water Quality Results

There were no incidents of adverse drinking water quality during 2020.

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	53	0-NDOGT	0-NDOGT	N/A	N/A
Treated	55	0	0	55	0-10
Distribution	237	0	0	81	0-66

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	0.05 - 0.90	NTU
Chlorine			
Treated	8760	0.85 – 2.51	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	13.1	56 Stewart St.
B	5.3	574 Grandview Dr.
C	23.7	St. Andrews Dr. Yard Hydrant
D	10.7	574 Grandview Dr.
RAA	13.20	

Trihalomethanes

Quarter	THM Sample Result ug/L	Sampling Location
A	20	35 Grant Ave
B	26	Grey Rd. 7 197714
C	49	Grey Rd. 7 Yard Hydrant
D	30	555 St. Vincent St.
RAA	31.25	

Process Wastewater Total Suspended Solids

Sample Date	Result Value	Unit of Measure
January 15, 2020	14	mg/L
February 11, 2020	17	mg/L
March 5, 2020	26	mg/L
April 21, 2020	58	mg/L
May 23, 2020	9	mg/L

June 17, 2020	20	mg/L
July 13, 2020	18	mg/L
August 11, 2020	44	mg/L
September 14, 2020	27	mg/L
October 21, 2020	15	mg/L
November 16, 2020	12	mg/L
December 7, 2020	20	mg/L
Annual Average	23	mg/L

Nitrate Results

Sample Date	Location	Results (mg/L)
February 18, 2020	Meaford WTP-Treated Tap	0.270
May 19, 2020	Meaford WTP-Treated Tap	0.272
August 19, 2020	Meaford WTP-Treated Tap	0.247
November 16, 2020	Meaford WTP-Treated Tap	0.256

Nitrite Results

Sample Date	Location	Results (mg/L)
February 18, 2020	Meaford WTP – Treated Tap	0.003<MDL
May 19, 2020	Meaford WTP-Treated Tap	0.003<MDL
August 19, 2020	Meaford WTP-Treated Tap	0.003<MDL
November 16, 2020	Meaford WTP-Treated Tap	0.003<MDL

Summary of Lead, pH & Alkalinity Results

Sample Date	Location	Lead	pH	Alkalinity mg/L as CaCo3
March 23, 2020	223 Nelson St. W	0.04	7.59	71
	197714 Grey Rd. 7 Yard Hyd.	0.13	8.01	72
	158175 7 th Line Yard Hyd.	2.04	7.99	73
September 21, 2020	Water Tower	0.03	7.58	70
	Fire Hydrant #169	0.20	7.75	82
	Fire Hydrant # 172	0.03	7.77	73

Summary of Inorganic Parameters

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Sept 22, 2020	0.09	ug/L	No
Arsenic	Sept 22, 2020	0.3	ug/L	No
Barium	Sept 22, 2020	13	ug/L	No
Boron	Sept 22, 2020	15	ug/L	No
Cadmium	Sept 22, 2020	0.003	ug/L	No
Chromium	Sept 22, 2020	0.24	ug/L	No
Mercury	Sept 22, 2020	0.01<MDL	ug/L	No
Sodium	Sept 18, 2017	4.38	mg/L	No
Uranium	Sept 22, 2020	0.132	ug/L	No
Fluoride	Sept 18, 2017	0.08	mg/L	No
Nitrite	Feb 18, 2020 May 19, 2020 Aug 19, 2020 Nov 16, 2020	0.003< MDL 0.003<MDL 0.003<MDL 0.003<MDL	mg/L	No
Nitrate	Feb 18, 2020 May 19, 2020 Aug 19, 2020 Nov 16, 2020	0.270 0.272 0.247 0.256	mg/L	No

Summary of Organic Parameters

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance (Yes or No)
Alachlor	Sept 22, 2020	0.02<MDL	ug/L	No
Atrazine + N-dealkylated metabolites	Sept 22, 2020	0.01	ug/L	No
Atrazine	Sept 22, 2020	0.01<MDL	ug/L	No
Desethyl atrazine	Sept 22, 2020	0.01	ug/L	No
Azinphos-methyl	Sept 22, 2020	0.05<MDL	ug/L	No
Benzene	Sept 22, 2020	0.32<MDL	ug/L	No
Benzo(a)pyrene	Sept 22, 2020	0.004<MDL	ug/L	No
Bromoxynil	Sept 22, 2020	0.33<MDL	ug/L	No
Carbaryl	Sept 22, 2020	0.05<MDL	ug/L	No
Carbofuran	Sept 22, 2020	0.01<MDL	ug/L	No
Carbon Tetrachloride	Sept 22, 2020	0.17<MDL	ug/L	No
Chlorpyrifos	Sept 22, 2020	0.02<MDL	ug/L	No
Diazinon	Sept 22, 2020	0.02<MDL	ug/L	No
Dicamba	Sept 22, 2020	0.20<MDL	ug/L	No
1,2-Dichlorobenzene	Sept 22, 2020	0.41<MDL	ug/L	No
1,4-Dichlorobenzene	Sept 22, 2020	0.36<MDL	ug/L	No
1,2-Dichloroethane	Sept 22, 2020	0.35<MDL	ug/L	No
1,1-Dichloroethylen	Sept 22, 2020	0.33<MDL	ug/L	No
Dichloromethane	Sept 22, 2020	0.35<MDL	ug/L	No
2-4 Dichlorophenol	Sept 22, 2020	0.15<MDL	ug/L	No
2,4 Dichlorophenoxy acetic acid (2,4-D)	Sept 22, 2020	0.19<MDL	ug/L	No
Diclofop-methyl	Sept 22, 2020	0.40<MDL	ug/L	No
Dimethoate	Sept 22, 2020	0.06<MDL	ug/L	No
Diquat	Sept 22, 2020	1<MDL	ug/L	No
Diuron	Sept 22, 2020	0.03<MDL	ug/L	No
Glyphosate	Sept 22, 2020	1<MDL	ug/L	No
Malathion	Sept 22, 2020	0.02<MDL	ug/L	No
Metolachlor	Sept 22, 2020	0.01<MDL	ug/L	No
Metribuzin	Sept 22, 2020	0.02<MDL	ug/L	No
Monochlorobenzene	Sept 22, 2020	0.30<MDL	ug/L	No
Paraquat	Sept 22, 2020	1<MDL	ug/L	No
Pentachlorophenol	Sept 22, 2020	0.15<MDL	ug/L	No
Phorate	Sept 22, 2020	0.01<MDL	ug/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance (Yes or No)
Picloram	Sept 22, 2020	1<MDL	ug/L	No
PolychlorinatedBiphenyls (PCB)	Sept 22, 2020	0.04<MDL	ug/L	No
Prometryne	Sept 22, 2020	0.03<MDL	ug/L	No
Simazine	Sept 22, 2020	0.01<MDL	ug/L	No
THM (Note: Latest RAA)	Nov 16, 2020	31.25	ug/L	No
HAA (Note: Latest RAA)	Nov 16, 2020	13.2	ug/L	No
Terbufos	Sept 22, 2020	0.01<MDL	ug/L	No
Tetrachloroethylene	Sept 22, 2020	0.35<MDL	ug/L	No
2,3,4,6-Tetrachlorophenol	Sept 22, 2020	0.20<MDL	ug/L	No
2 methyl-4 chlorophenozyacetic acid (MCPA)	Sept 22, 2020	0.00012<MDL	mg/L	No
Triallate	Sept 22, 2020	0.001<MDL	ug/L	No
Trichloroethylene	Sept 22, 2020	0.44<MDL	ug/L	No
2,4,6-Trichlorophenol	Sept 22, 2020	0.25<MDL	ug/L	No
Trifluralin	Sept 22, 2020	0.02<MDL	ug/L	No
Vinyl Chloride	Sept 22, 2020	0.17<MDL	ug/L	No



2020 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, 2021 for the period from January 1 to December 31, 2020.

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 2021. 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

MUNICIPALITY OF MEAFORD

WATER DEPARTMENT STATISTICS FOR YEAR ENDING DECEMBER 31, 2020

ROUTE	DESCRIPTION	WATER	SEWAGE
20	COMMERCIAL - MONTHLY	816	252
1	RESIDENTIAL - BI MONTHLY	1220	1088
2	RESIDENTIAL - BI MONTHLY	947	683
11	RESIDENTIAL - MONTHLY (VICTORIA VILLAGE)	64	64
10	LEITH RESIDENTIAL - FLAT RATE BI-MONTHLY	16	
	LEITH RESIDENTIAL - BI MONTHLY	135	
	TOTAL CUSTOMERS	3198	2087
WATER		SEWAGE	
URBAN RESIDENTIAL	2231	RESIDENTIAL	1835
COMMERCIAL SERVICE	816	COMM SERVICE	252
LEITH RESIDENTIAL	135		
TOTAL WATER	3182	TOTAL SEWAGE	2087

TOTAL WATER PUMPED AT WTP FOR YEAR	513245
TOTAL METERED WATER CONSUMPTION FOR YEAR	398444
FLUSHING	17411
WATER MAIN BREAKS/LEAKS/CONSTRUCTION	5917.6
TOTAL BULK WATER SALES	6434
OTHER (SP/NON MTR/BCKWSH/TURBIDI/CHL	17150.1
UNACCOUNTED WATER FOR YEAR	67888
RESIDENTIAL URBAN MONTHLY AVERAGE	10.405722
TOTAL RESIDENTIAL CONSUMPTION	278582
TOTAL RESIDENTIAL CUSTOMERS	2231
COMMERCIAL SERVICE MONTHLY AVERAGE	12.240772
TOTAL COMMERCIAL SERVICE CONSUMPTION	119862
TOTAL COMMERCIAL SERVICE CUSTOMERS	816
OVERALL CONSUMPTION AVERAGE	14.036894
OVERALL CONSUMPTION	513245
TOTAL CUSTOMERS (less Leith)	3047
TOTAL LEITH CONSUMPTION	14936

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

WATER WORKS NAME:	Municipality of Meaford
YEAR	2020
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.	5	5	0	5	5	0	5	5	0
APR.	4	4	0	4	4	0	4	4	0
MAY	4	4	0	4	4	0	4	4	0
JUN.	5	5	0	5	5	0	5	5	0
JUL.	4	4	0	4	4	0	4	4	0
AUG.	5	5	0	5	5	0	5	5	0
SEPT.	4	4	0	4	4	0	4	4	0
OCT.	6	6	0	6	6	0	6	6	0
NOV.	5	5	0	5	5	0	5	5	0
DEC.	4	4	0	4	4	0	4	4	0
TOTAL	55	55	0	55	55	0	55	55	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.

Annual Summary -Raw Water Bacteriological Data

WATER WORKS NAME:

Municipality of Meaford

YEAR

2020

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	3	2	0		5	5	0	0
FEB.	4	4	0	0		4	4	0	0
MAR.	5	5	0	0		5	5	0	0
APR.	4	4	0	0		4	4	0	0
MAY	4	4	0	0		4	4	0	0
JUN.	5	5	0	0		5	5	0	0
JUL.	4	4	0	0		4	4	0	0
AUG.	5	4	0	1		5	4	0	1
SEPT.	4	4	0	0		4	4	0	0
OCT.	4	4	0	0		4	4	0	0
NOV.	5	4	1	0		5	5	0	0
DEC.	4	4	0	0		4	4	0	0
TOTAL	53	49	3	1		53	52	0	1

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

2020

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.	17	17	0	17	17	0	5	5	0
FEB.	19	19	0	19	19	0	6	6	0
MAR.	19	19	0	19	19	0	6	6	0
APR.	13	13	0	13	13	0	4	4	0
MAY	13	13	0	13	13	0	4	4	0
JUN.	35	35	0	35	35	0	13	13	0
JUL.	30	30	0	30	30	0	12	12	0
AUG.	26	26	0	26	26	0	9	9	0
SEPT.	16	16	0	16	16	0	5	5	0
OCT.	20	20	0	20	20	0	8	8	0
NOV.	16	16	0	16	16	0	5	5	0
DEC.	13	13	0	13	13	0	4	4	0
TOTAL	237	237	0	237	237	0	81	81	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.

HPC %= 34%

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.

Annual Summary- Nitrite, Nitrate , THM's

WATER WORKS NAME:
 YEAR
 SERVICE POPULATION
 LABORATORIES WHICH PERFORMED ANALYSES

Municipality of Meaford

 2020

 7008

 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	0.27	(Feb 2020) A	1	20	13.1
MAR.							
APR.							
MAY	1	<0.003	0.272	(May 2020) B	1	26	5.3
JUN.							
JUL.							
AUG.	1	<0.003	0.247	(Aug 2020) C	1	49	23.7
SEPT.							
OCT.							
NOV.	1	0.003	0.256	(Nov 2020) D	1	30	10.7
DEC.							
AVG.		< 0.005	0.261			31.25	13.20
					mg/L	0.0313	0.0132
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

2020

SERVICE POPULATION

7008

LABORATORIES WHICH PERFORMED ANALYSES

SGS Laboratory

MONTH	Backwash Waste Water (TSS)	
	NO. OF SAMPLES COLLECTED	TSS (mg/l)
JAN.	1	14
FEB.	1	17
MAR.	1	26
APR.	1	58
MAY	1	9
JUN.	1	20
JUL.	1	18
AUG.	1	44
SEPT.	1	27
OCT.	1	15
NOV.	1	12
DEC.	1	20
AVG.		23
MAC		25

MAC = Maximum Acceptable Concentration

Annual Summary- Sodium and Flouride

WATER WORKS NAME:

YEAR

SERVICE POPULATION

LABORATORIES WHICH PERFORMED ANALYSES

Municipality of Meaford

2020

7008

SGS Laboratory

	Month	No. of Samples	Sample Results
Sodium	Sep-17	1	4.38
Flouride	Sep-17	1	0.08

Month	Lead	pH	Alkalinity
23-Mar-20	0.04	7.59	71
	0.13	8.01	72
	2.04	7.99	73
21-Sep-20	0.03	7.58	70
	0.2	7.75	82
	0.03	7.77	73

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

WATER WORKS NAME:

Municipality of Meaford

YEAR

2020

SERVICE POPULATION

7008

LABORATORIES WHICH PERFORMED ANALYSES

OPERATORS/CONTINUOUS MONITOR

MONTH	TREATED WATER FLOW			BACKWASH WATER MONTHLY TOTAL (m3)	TREATED WATER TURBIDITY			TREATED DISINFECTANT		DIST. SYSTEM DISINFECTANT	
	AVERAGE DAY (m3)	MAX. DAY (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.	1373	1548	42549	2021	8760	0	0.06	8760	1.36	8760	8760
FEB.	1360	1531	39429	1785	8760	0	0.05	8760	1.32	8760	8760
MAR.	1390	2250	37987	1730	8760	0	0.06	8760	1.34	8760	8760
APR.	1416	1979	37784	1428	8760	0	0.08	8760	1.32	8760	8760
MAY	1575	2649	43286	1782	8760	0	0.06	8760	1.32	8760	8760
JUN.	1853	2675	51256	714	8760	0	0.08	8760	1.40	8760	8760
JUL.	1839	2885	53220	702	8760	0	0.08	8760	1.44	8760	8760
AUG.	1638	2714	46294	1032	8760	0	0.08	8760	1.34	8760	8760
SEPT.	1519	1858	41450	1413	8760	0	0.07	8760	1.42	8760	8760
OCT.	1502	2447	41880	954	8760	0	0.07	8760	1.42	8760	8760
NOV.	1393	1841	38423	1039.8	8760	0	0.07	8760	1.37	8760	8760
DEC.	1370	1894	39687	1040	8760	0	0.06	8760	1.38	8760	8760
TOTAL			513,245	15,641							
AVG.	1,519	2,189		1303			0.07		1.37		
MAX.	1853	2885	53220	2021			0.08		1.44		

DISINFECTANT COMPOUND USED

CHLORINE GAS

FORM OF RESIDUAL DISPLAYED ON ABOVE TABLE

QUANTITY OF DISINFECTANT USED DURING YEAR

(kg)

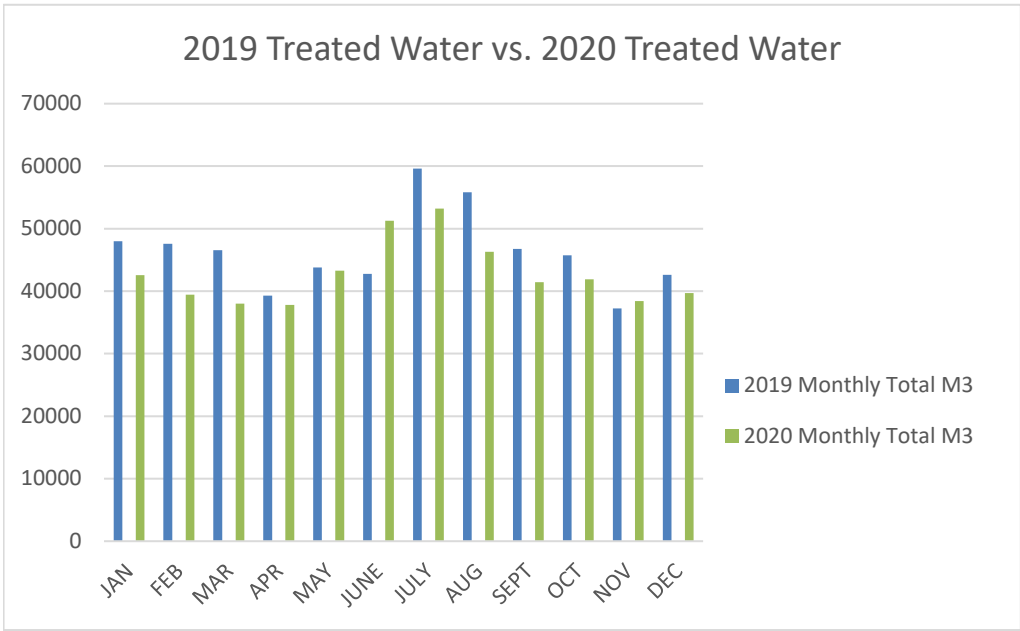
1305.7

DISTRIBUTION SYSTEM TARGET RESIDUAL

(mg/l)

> .20 mg/l

Month	Max Day	Max M3	Min Day	Min M3	AVG Day M3	Monthly Total M3
JAN	2	1548	23	1209	1373	42549
FEB	23	1531	27	1152	1360	39429
MAR	1	1503	18	1094	1225	37987
APR	4	1334	21	1111	1259	37784
MAY	27	1709	13	1243	1396	43286
JUNE	29	2256	11	1305	1709	51256
JULY	7	2481	20	1360	1717	53220
AUG	1	1832	2	1201	1493	46294
SEPT	27	1486	10	1228	1382	41450
OCT	4	1641	30	1223	1351	41880
NOV	14	1481	26	1062	1281	38423
DEC	23	1630	1	1102	1280	39687
Annual Average		1703		1191	1402	
Total						513245



**Meaford Water Treatment Plant
Waterloss**

Plant	513,245 m3	Bulkwater	6434
Metered	398,444 m3	Backwash	15641
Difference	114,800.55 m3	Flushing	17411.0
		Swimming Pool	611.5
		Main Breaks/ Construction	5917.6
		Analyzers Cl2	525.6
		Turbidimeters	372
		Total	46912.5

Difference- Total

67888

Water Loss	<u>67888</u>	13.2%
	513244.55	

DISTRIBUTION SYSTEM CHLORINE RESIDUALS (WATER TOWER)

Date	Free Chlorine Residual	Free Chlorine Residual
January	MIN (mg/L)	MAX (mg/L)
2020		
1	1.16	1.59
2	1.24	1.57
3	1.25	1.52
4	1.23	1.52
5	1.21	1.52
6	1.17	1.44
7	1.15	1.46
8	1.11	1.36
9	1.10	1.63
10	1.10	1.63
11	1.19	1.49
12	1.22	1.56
13	1.17	1.44
14	1.23	1.46
15	1.18	1.42
16	1.17	1.42
17	1.12	1.44
18	1.11	1.54
19	1.15	1.46
20	1.14	1.44
21	1.13	1.39
22	1.13	1.40
23	1.12	1.39
24	1.13	1.51
25	1.29	1.54
26	1.27	1.57
27	1.24	1.52
28	1.25	1.48
29	1.21	1.51
30	1.20	1.50
31	1.17	1.49
Average	1.18	1.49

Date	Free Chlorine Residual	Free Chlorine Residual
February	MIN (mg/L)	MAX (mg/L)
2020		
1	1.17	1.45
2	1.15	1.52
3	1.19	1.54
4	1.21	1.56
5	1.21	1.56
6	1.17	1.53
7	1.20	1.57
8	1.21	1.56
9	1.20	1.53
10	1.20	1.52
11	1.13	1.33
12	1.03	1.32
13	0.97	1.24
14	0.96	1.29
15	1.00	1.34
16	1.03	1.33
17	1.00	1.29
18	1.01	1.28
19	1.01	1.32
20	1.03	1.30
21	1.00	1.29
22	1.03	1.35
23	1.08	1.36
24	1.11	1.33
25	1.08	1.31
26	1.05	1.28
27	0.99	1.27
28	0.98	1.33
29	0.97	1.33
Average	1.08	1.39

DISTRIBUTION SYSTEM CHLORINE RESIDUALS

(St. Vincent St. Booster Station)

Date	Inlet Chlorine Residual	Outlet Chlorine Residual
Jan		
2020		
1	1.12	1.25
2	1.14	1.27
3	1.18	1.27
4	1.24	1.20
5	1.14	1.14
6	1.17	1.14
7	1.12	1.14
8	1.09	1.09
9	1.10	1.13
10	1.13	1.11
11	1.13	1.14
12	1.15	1.16
13	1.12	1.25
14	1.09	1.16
15	1.26	1.15
16	1.03	1.07
17	1.07	1.11
18	1.17	1.07
19	1.14	1.11
20	1.06	1.05
21	1.16	1.16
22	1.16	1.21
23	1.15	1.16
24	1.14	1.05
25	1.21	1.06
26	1.20	1.14
27	1.17	1.12
28	1.16	1.14
29	1.10	1.14
30	1.08	1.13
31	1.08	1.12
Average	1.14	1.14

Date	Inlet Chlorine Residual	Outlet Chlorine Residual
Feb		
2020		
1	1.06	1.11
2	1.12	1.09
3	1.08	1.16
4	1.07	1.18
5	1.12	1.19
6	1.10	1.18
7	1.12	1.19
8	1.17	1.18
9	1.13	1.27
10	1.15	1.27
11	1.11	1.18
12	1.06	1.13
13	1.01	1.09
14	0.98	0.95
15	0.92	0.92
16	0.96	0.98
17	0.94	0.96
18	0.92	0.95
19	0.94	0.94
20	1.06	1.06
21	1.08	1.03
22	1.12	1.08
23	1.08	1.09
24	1.12	1.08
25	1.13	1.09
26	1.12	1.05
27	0.99	1.05
28	1.02	1.05
29	1.03	1.07
Average	1.06	1.09

DISTRIBUTION SYSTEM CHLORINE RESIDUALS (WATER TOWER)

Date	Free Chlorine Residual	Free Chlorine Residual
March	MIN (mg/L)	MAX (mg/L)
2020		
1	1.00	1.32
2	1.06	1.38
3	1.04	1.32
4	1.03	1.36
5	1.04	1.60
6	1.21	1.55
7	1.19	1.56
8	1.23	1.60
9	1.25	1.55
10	1.21	1.48
11	1.16	1.56
12	1.19	1.57
13	0.99	1.53
14	0.97	1.63
15	1.14	1.37
16	1.12	1.33
17	1.10	1.44
18	1.07	1.42
19	1.11	1.44
20	0.93	1.48
21	1.06	1.32
22	1.07	1.29
23	1.05	1.38
24	1.08	1.49
25	1.10	1.44
26	1.12	1.43
27	1.03	1.39
28	1.02	1.33
29	1.03	1.34
30	1.02	1.29
31	1.01	1.26
Average	1.08	1.43

Date	Free Chlorine Residual	Free Chlorine Residual
April	MIN (mg/L)	MAX (mg/L)
2020		
1	1.03	1.28
2	1.05	1.39
3	1.05	1.52
4	1.17	1.55
5	1.19	1.52
6	1.14	1.44
7	1.17	1.43
8	1.14	1.41
9	1.09	1.36
10	1.05	1.42
11	1.10	1.45
12	1.16	1.45
13	1.08	1.40
14	1.06	1.39
15	1.07	1.39
16	1.04	1.36
17	1.06	1.32
18	1.04	1.42
19	1.09	1.37
20	1.09	1.43
21	1.06	1.42
22	1.08	1.38
23	1.10	1.37
24	1.10	1.45
25	1.07	1.44
26	1.11	1.46
27	1.13	1.43
28	1.12	1.40
29	1.10	1.40
30	1.08	1.43
Average	1.09	1.42

DISTRIBUTION SYSTEM CHLORINE RESIDUALS
(St. Vincent St. Booster Station)

Date	Inlet Chlorine Residual	Outlet Chlorine Residual
March		
2020		
1	1.11	1.09
2	1.07	1.12
3	1.08	1.12
4	1.06	1.14
5	1.08	1.14
6	1.08	1.15
7	1.13	1.13
8	1.08	1.14
9	1.18	1.17
10	1.10	1.18
11	1.08	1.15
12	1.05	1.16
13	1.08	1.18
14	0.89	1.02
15	1.04	1.07
16	1.03	1.05
17	1.01	1.05
18	1.05	1.05
19	1.01	1.04
20	1.05	1.11
21	0.97	1.07
22	0.98	1.04
23	1.01	1.04
24	0.99	1.07
25	1.01	1.14
26	1.04	1.14
27	1.01	1.12
28	1.05	1.02
29	1.04	1.02
30	1.00	1.04
31	0.99	1.03
Average	1.04	1.10

Date	Inlet Chlorine Residual	Outlet Chlorine Residual
April		
2020		
1	0.98	1.01
2	1.00	1.05
3	1.06	1.09
4	1.06	1.14
5	1.08	1.15
6	1.11	1.19
7	1.07	1.14
8	1.04	1.15
9	1.03	1.14
10	1.05	0.96
11	1.03	1.01
12	1.05	1.03
13	1.10	1.02
14	1.06	1.03
15	1.03	0.98
16	1.01	1.03
17	1.02	0.98
18	1.00	1.01
19	1.03	1.05
20	1.07	1.02
21	1.02	1.05
22	1.09	1.06
23	1.05	1.02
24	1.06	1.02
25	1.03	1.02
26	1.09	1.05
27	1.05	1.05
28	1.04	1.04
29	1.05	1.04
30	1.03	1.03
Average	1.05	1.05

DISTRIBUTION SYSTEM CHLORINE RESIDUALS (WATER TOWER)

Date	Free Chlorine Residual	Free Chlorine Residual
May	MIN (mg/L)	MAX (mg/L)
2020		
1	1.06	1.52
2	1.12	1.54
3	1.15	1.51
4	1.18	1.45
5	1.16	1.40
6	1.12	1.44
7	1.17	1.42
8	1.13	1.32
9	1.09	1.28
10	1.06	1.36
11	1.06	1.36
12	1.02	1.34
13	1.02	1.55
14	1.12	1.34
15	1.10	1.48
16	1.13	1.54
17	1.17	1.57
18	1.19	1.59
19	1.03	1.55
20	1.00	1.31
21	0.86	1.35
22	1.01	1.30
23	0.94	1.50
24	0.91	1.18
25	0.94	1.22
26	0.93	1.34
27	0.94	1.42
28	0.96	1.43
29	0.99	1.55
30	1.03	1.47
31	1.04	1.44
Average	1.05	1.42

Date	Free Chlorine Residual	Free Chlorine Residual
June	MIN (mg/L)	MAX (mg/L)
2020		
1	1.01	1.45
2	0.85	1.44
3	1.00	1.51
4	1.03	2.00*
5	1.11	1.56
6	1.14	1.58
7	1.11	1.45
8	1.04	1.43
9	1.05	1.51
10	1.05	1.61
11	1.07	1.55
12	1.05	1.54
13	1.13	1.61
14	1.15	1.59
15	1.14	1.51
16	1.11	1.59
17	1.20	1.64
18	1.26	1.62
19	1.29	1.66
20	1.29	1.70
21	1.30	1.66
22	1.32	1.63
23	1.28	1.60
24	1.22	1.50
25	1.20	1.65
26	1.24	1.61
27	1.24	1.62
28	*1.22	*1.53
29	1.24	1.56
30	1.22	1.42
Average	1.15	1.56

*4 Analyzer drifted, On-call Operator recalibrated to 1.18 mg/l from 1.70

*28 Trending attached to daily report 0.00 and 2.00 Not Actual

DISTRIBUTION SYSTEM CHLORINE RESIDUALS
(St. Vincent St. Booster Station)

Date	Inlet Chlorine Residual	Outlet Chlorine Residual
May		
2020		
1	1.07	1.05
2	1.01	1.05
3	0.99	1.07
4	1.08	1.09
5	1.00	1.05
6	1.02	1.09
7	1.03	1.11
8	1.06	1.13
9	0.98	1.03
10	0.96	1.03
11	0.96	1.03
12	0.93	1.01
13	0.91	0.99
14	1.01	1.02
15	0.91	0.98
16	0.96	1.02
17	0.94	1.03
18	0.96	1.03
19	0.99	1.07
20	1.03	1.07
21	1.07	1.13
22	1.02	1.03
23	1.07	1.09
24	1.13	1.08
25	1.14	1.11
26	1.13	1.11
27	1.28	1.25
28	1.33	1.23
29	1.30	1.26
30	1.00	1.10
31	0.98	1.00
Average	1.04	1.08

Date	Inlet Chlorine Residual	Outlet Chlorine Residual
June		
2020		
1	1.01	1.05
2	0.99	1.03
3	0.93	0.98
4	0.98	1.03
5	0.92	0.98
6	0.91	0.96
7	0.97	0.99
8	0.92	0.96
9	0.94	0.99
10	0.92	1.01
11	0.96	1.04
12	1.03	1.09
13	1.10	1.16
14	1.06	1.16
15	1.03	1.14
16	1.04	1.13
17	1.15	1.18
18	1.11	1.23
19	1.19	1.27
20	1.24	1.18
21	1.19	1.22
22	1.19	1.20
23	1.20	1.21
24	1.12	1.16
25	1.08	1.09
26	1.16	1.16
27	1.18	1.14
28	1.12	1.11
29	0.17	1.14
30	1.14	1.16
Average	1.03	1.10

DISTRIBUTION SYSTEM CHLORINE RESIDUALS (WATER TOWER)

Date	Free Chlorine Residual	Free Chlorine Residual
July	MIN (mg/L)	MAX (mg/L)
2020		
1	1.30	1.84
2	1.41	1.90
3	1.20	1.78
4	1.17	1.53
5	1.20	1.56
6	1.21	1.56
7	1.23	1.72
8	1.29	1.72
9	1.27	1.61
10	1.16	1.56
11	1.12	1.49
12	1.14	1.50
13	1.16	1.71
14	1.18	1.46
15	1.08	1.48
16	1.03	1.40
17	0.98	1.42
18	1.00	1.50
19	1.02	1.45
20	1.01	1.55
21	0.99	1.37
22	0.84	1.37
23	0.81	1.29
24	0.83	1.33
25	0.88	1.44
26	1.03	1.43
27	1.07	1.41
28	1.02	1.42
29	1.05	1.73
30	1.20	1.68
31	1.03	1.58
Average	1.09	1.54

Date	Free Chlorine Residual	Free Chlorine Residual
August	MIN (mg/L)	MAX (mg/L)
2020		
1	0.98	1.40
2	0.96	1.32
3	0.90	1.36
4	0.93	1.32
5	0.88	1.36
6	0.90	1.28
7	0.88	1.29
8	0.83	1.21
9	0.87	1.20
10	0.86	1.17
11	0.85	1.38
12	0.93	1.40
13	0.92	1.33
14	0.91	1.32
15	0.94	1.26
16	0.90	1.26
17	0.88	1.26
18	0.82	1.26
19	0.80	1.34
20	0.90	1.34
21	0.96	1.09
22	0.95	1.31
23	0.96	1.33
24	0.97	1.38
25	0.96	1.30
26	0.90	1.26
27	0.85	1.20
28	0.81	1.31
29	0.80	1.30
30	0.79	1.28
31	0.86	1.29
Average	0.89	1.29

DISTRIBUTION SYSTEM CHLORINE RESIDUALS
(St. Vincent St. Booster Station)

Date	Inlet Chlorine Residual	Outlet Chlorine Residual
July		
2020		
1	1.26	1.22
2	1.20	1.21
3	1.29	1.34
4	1.29	1.23
5	1.26	1.29
6	1.24	1.22
7	1.33	1.34
8	1.30	1.30
9	1.38	1.38
10	1.23	1.23
11	1.14	1.14
12	1.14	1.15
13	1.17	1.15
14	1.16	1.13
15	1.03	0.98
16	1.03	0.92
17	0.99	0.93
18	0.96	0.91
19	1.00	0.93
20	0.98	0.94
21	0.96	0.91
22	0.94	0.88
23	0.79	0.78
24	0.78	0.74
25	0.87	0.88
26	0.96	0.91
27	0.95	0.95
28	0.92	0.91
29	0.96	0.96
30	0.99	0.91
31	0.95	0.87
Average	1.08	1.05

Date	Inlet Chlorine Residual	Outlet Chlorine Residual
August		
2020		
1	0.91	0.97
2	0.80	0.87
3	0.82	0.89
4	0.81	0.86
5	0.78	0.84
6	0.88	0.95
7	0.85	0.90
8	0.83	0.91
9	0.89	0.89
10	0.96	1.07
11	0.86	0.91
12	0.85	0.89
13	0.87	0.95
14	0.79	0.96
15	0.93	0.99
16	0.89	0.97
17	0.86	0.93
18	0.79	0.86
19	0.78	0.86
20	1.07	1.04
21	0.89	1.00
22	0.93	1.07
23	0.94	1.04
24	0.98	1.09
25	0.84	0.98
26	0.89	0.98
27	0.93	0.93
28	0.82	0.90
29	0.77	0.83
30	0.87	0.94
31	0.98	0.92
Average	0.87	0.94

DISTRIBUTION SYSTEM CHLORINE RESIDUALS (WATER TOWER)

Date	Free Chlorine Residual	Free Chlorine Residual
September	MIN (mg/L)	MAX (mg/L)
2020		
1	0.87	1.30
2	0.85	1.36
3	0.86	1.28
4	0.82	1.20
5	0.80	1.16
6	0.77	1.16
7	0.79	1.15
8	0.77	1.24
9	0.78	1.17
10	0.76	1.26
11	0.79	1.40
12	0.93	1.44
13	0.99	1.36
14	0.94	1.25
15	0.86	1.23
16	0.82	1.24
17	0.82	1.21
18	0.76	1.18
19	0.77	1.19
20	0.76	1.21
21	0.80	1.14
22	0.81	1.20
23	0.81	1.64
24	1.11	1.55
25	0.92	1.47
26	0.82	1.29
27	0.83	1.27
28	0.84	1.23
29	0.81	1.19
30	0.80	1.20
Average	0.84	1.27

Date	Free Chlorine Residual	Free Chlorine Residual
October	MIN (mg/L)	MAX (mg/L)
2020		
1	0.83	1.04
2	0.78	1.33
3	0.91	1.48
4	0.99	1.36
5	0.95	1.29
6	0.89	1.24
7	0.86	1.24
8	0.83	1.24
9	0.83	1.25
10	0.88	1.28
11	0.83	1.33
12	0.88	1.32
13	0.91	1.33
14	0.87	1.29
15	0.90	1.28
16	0.85	1.27
17	0.90	1.24
18	0.94	1.22
19	0.93	1.18
20	0.88	1.17
21	0.89	1.21
22	0.91	1.31
23	0.99	1.39
24	0.95	1.31
25	0.93	1.27
26	0.95	1.22
27	0.93	1.26
28	0.90	1.25
29	0.87	1.21
30	0.83	1.19
31	0.84	1.17
Average	0.89	1.26

DISTRIBUTION SYSTEM CHLORINE RESIDUALS

(St. Vincent St. Booster Station)

Date	Inlet Chlorine Residual	Outlet Chlorine Residual
September		
2020		
1	0.83	0.91
2	0.92	0.99
3	0.95	1.00
4	0.81	0.80
5	0.82	0.80
6	0.99	0.88
7	0.90	0.90
8	0.96	0.86
9	0.78	0.72
10	0.90	0.71
11	0.87	0.83
12	1.09	0.97
13	0.96	1.14
14	0.94	1.09
15	0.79	0.87
16	0.81	0.82
17	0.78	0.78
18	0.78	0.79
19	0.85	0.89
20	0.76	0.81
21	0.92	0.86
22	0.81	0.88
23	1.05	0.91
24	0.89	0.90
25	0.80	0.88
26	0.76	0.85
27	0.96	0.98
28	0.84	0.93
29	0.85	0.93
30	0.78	0.85
Average	0.87	0.88

Date	Inlet Chlorine Residual	Outlet Chlorine Residual
October		
2020		
1	0.76	0.83
2	0.90	0.82
3	0.77	0.80
4	0.79	0.84
5	0.90	0.82
6	0.72	0.77
7	0.79	0.78
8	0.76	0.78
9	0.71	0.77
10	0.92	0.78
11	1.03	0.76
12	0.98	0.80
13	0.87	0.84
14	0.81	0.79
15	0.92	0.82
16	0.88	0.78
17	0.85	0.90
18	0.98	0.93
19	0.93	0.95
20	0.89	0.91
21	0.88	0.91
22	0.87	0.92
23	0.87	0.91
24	0.85	0.91
25	0.90	0.95
26	0.86	0.90
27	0.85	0.91
28	0.88	0.91
29	0.82	0.87
30	0.78	0.85
31	0.83	0.88
Average	0.86	0.85

DISTRIBUTION SYSTEM CHLORINE RESIDUALS (WATER TOWER)

Date	Free Chlorine	Free Chlorine
	Residual	Residual
November	MIN (mg/L)	MAX (mg/L)
2020		
1	0.89	1.21
2	0.85	1.16
3	0.87	1.18
4	0.88	1.16
5	0.92	1.16
6	0.90	1.33
7	0.99	1.33
8	1.00	1.30
9	0.96	1.35
10	0.97	1.34
11	0.91	1.28
12	0.86	1.28
13	0.88	1.28
14	0.93	1.25
15	0.92	1.29
16	0.89	1.22
17	0.86	1.21
18	0.85	1.29
19	0.87	1.32
20	0.95	1.27
21	0.93	1.27
22	0.90	1.19
23	0.89	1.17
24	0.86	1.17
25	0.85	1.75
26	0.97	1.70
27	0.95	1.37
28	0.99	1.36
29	1.02	1.36
30	0.91	1.32
Average	0.91	1.30

Date	Free Chlorine	Free Chlorine
	Residual	Residual
December	MIN (mg/L)	MAX (mg/L)
2020		
1	0.89	1.20
2	0.83	1.17
3	0.89	1.19
4	0.89	1.17
5	0.87	1.13
6	0.80	1.07
7	0.84	1.06
8	0.82	1.18
9	0.93	1.20
10	0.91	1.34
11	1.05	1.32
12	1.01	1.25
13	0.96	1.23
14	0.93	1.20
15	0.90	1.10
16	0.86	1.09
17	0.84	1.27
18	0.95	1.28
19	0.98	1.25
20	0.94	1.22
21	0.90	1.13
22	0.93	1.25
23	1.12	1.43
24	0.97	1.21
25	0.93	1.21
26	0.91	1.17
27	0.92	1.18
28	0.96	1.25
29	0.94	1.40
30	1.08	1.50
31	1.12	1.43
Average	0.93	1.23

DISTRIBUTION SYSTEM CHLORINE RESIDUALS

(St. Vincent St. Booster Station)

Date	Inlet Chlorine Residual	Outlet Chlorine Residual
November		
2020		
1	0.91	0.89
2	0.92	0.94
3	0.87	0.91
4	0.86	0.89
5	0.81	0.88
6	0.83	0.86
7	1.28	0.94
8	1.24	0.94
9	1.24	0.91
10	0.85	0.92
11	0.86	0.90
12	0.83	0.87
13	0.87	0.87
14	0.90	0.96
15	0.95	0.95
16	0.89	0.91
17	0.87	0.93
18	0.94	0.93
19	0.85	0.91
20	0.93	0.95
21	0.90	0.92
22	0.92	0.92
23	0.86	0.94
24	0.89	0.89
25	0.81	0.87
26	0.98	0.99
27	1.05	1.06
28	0.98	1.03
29	1.03	1.03
30	1.06	1.05
Average	0.94	0.93

Date	Inlet Chlorine Residual	Outlet Chlorine Residual
December		
2020		
1	1.05	0.99
2	1.08	0.99
3	0.96	1.03
4	1.01	1.00
5	0.84	0.94
6	0.87	0.97
7	0.89	0.98
8	0.90	0.91
9	0.90	0.92
10	0.85	0.93
11	0.99	0.90
12	0.94	0.89
13	0.96	0.91
14	0.90	0.89
15	0.89	0.81
16	0.88	0.82
17	0.87	0.88
18	0.93	0.98
19	1.03	0.98
20	1.03	1.02
21	0.98	1.02
22	0.99	1.00
23	0.98	0.98
24	0.94	0.98
25	0.96	0.98
26	0.98	0.98
27	0.93	0.95
28	0.94	1.02
29	0.99	0.96
30	0.98	0.99
31	0.96	1.00
Average	0.95	0.95

January-20

	Filtered Cl2 Low	Filtered Cl2 High	Plant Cl2 Low	Plant Cl2 High	Filter Turb. Avg.	Filter Turb. Max	Filter Performance %	Discharge Turb. Avg.	Raw Flow	Treated Flow	UV Dose	Initials
1	1.18	1.47	1.06	1.54	0.03	0.06	100.0%	0.10	1839	1535	>40mj/cm ³	JA
2	1.13	1.50	1.07	1.52	0.04	0.06	100.0%	0.06	1839	1548	>40mj/cm ³	JA
3	1.19	1.51	1.08	1.57	0.04	0.08	100.0%	0.06	1925	1427	>40mj/cm ³	JA
4	1.21	1.46	1.09	1.57	0.05	0.08	100.0%	0.06	1229	1521	>40mj/cm ³	JA
5	1.15	1.54	1.07	1.55	0.06	0.10	100.0%	0.06	1618	1342	>40mj/cm ³	JA
6	1.13	1.51	1.07	1.48	0.06	0.11	100.0%	0.07	1190	1313	>40mj/cm ³	CN
7	1.17	1.54	1.08	1.56	0.06	0.14	100.0%	0.08	1724	1422	>40mj/cm ³	CN
8	1.18	1.52	1.11	1.64	0.06	0.13	100.0%	0.09	1141	1276	>40mj/cm ³	CN
9	1.18	1.46	1.10	1.63	0.05	0.09	100.0%	0.09	1784	1437	>40mj/cm ³	CN
10	1.14	1.49	1.14	1.56	0.08	0.14	100.0%	0.09	1248	1353	>40mj/cm ³	CN
11	1.20	1.47	1.11	1.63	0.16	0.57	99.3%	0.10	1807	1331	>40mj/cm ³	CN
12	1.09	1.53	1.14	1.63	0.05	0.15	98.5%	0.13	1605	1512	>40mj/cm ³	CN
13	1.22	1.49	1.18	1.68	0.07	0.29	98.2%	0.15	1774	1302	>40mj/cm ³	MB
14	1.16	1.48	1.19	1.78	0.10	0.48	97.8%	0.14	1808	1313	>40mj/cm ³	MB
15	1.12	1.50	1.13	1.81	0.04	0.23	98.0%	0.12	1185	1398	>40mj/cm ³	MB
16	1.15	1.52	0.94	1.66	0.04	0.19	98.1%	0.14	1674	1285	>40mj/cm ³	MB
17	1.20	1.44	0.92	1.64	0.15	0.46	97.4%	0.09	1660	1458	>40mj/cm ³	MB
18	1.19	1.46	1.05	1.54	0.05	0.40	97.3%	0.13	2625	1342	>40mj/cm ³	MB
19	1.22	1.46	1.11	1.78	0.03	0.11	97.5%	0.12	1598	1527	>40mj/cm ³	MB
20	1.23	1.41	1.16	1.77	0.03	0.10	97.6%	0.08	1357	1317	>40mj/cm ³	KH
21	1.22	1.42	1.12	1.66	0.03	0.11	97.5%	0.07	2167	1226	>40mj/cm ³	JA
22	1.16	1.43	1.09	1.68	0.05	0.14	97.6%	0.08	1591	1452	>40mj/cm ³	KH
23	1.17	1.42	1.11	1.65	0.04	0.06	97.7%	0.08	1214	1209	>40mj/cm ³	KH
24	1.18	1.47	1.09	1.82	0.04	0.05	97.8%	0.07	1765	1403	>40mj/cm ³	KH
25	1.23	1.43	1.03	1.70	0.04	0.06	97.9%	0.07	1220	1341	>40mj/cm ³	KH
26	1.24	1.46	1.09	1.70	0.04	0.09	98.0%	0.07	1818	1332	>40mj/cm ³	KH
27	1.16	1.47	1.09	1.24	0.06	0.13	98.1%	0.07	1160	1276	>40mj/cm ³	CN
28	1.17	1.47	1.10	1.83	0.06	0.10	98.1%	0.08	1175	1455	>40mj/cm ³	CN
29	1.18	1.39	1.08	1.55	0.10	0.49	98.2%	0.09	1774	1308	>40mj/cm ³	CN
30	1.17	1.44	1.12	1.59	0.03	0.14	98.2%	0.12	1776	1283	>40mj/cm ³	CN
31	1.22	1.41	1.13	1.54	0.03	0.06	98.3%	0.09	1185	1305	>40mj/cm ³	KH
Overall Avg.	1.32			1.36			Monthly Avg.	Total	49475	42549		
Average	1.18	1.47	1.09	1.63	0.06	0.17	98.3%	0.09	1596	1373		
Max		1.54		1.83	Max	0.57		0.15	2625	1548		
Min	1.09		0.92			0.05		Min	1141	1209		

Maintenance/ Events	Maintenance to UV Sensor	January 18th
	Power Flicker	January 30th

February-20

	Filtered Cl2 Low	Filtered Cl2 High	Plant Cl2 Low	Plant Cl2 High	Filter Turb. Avg.	Filter Turb. Max	Filter Performance %	Plant Turb. Avg.	Raw Flow	Treated Flow	UV Dose	Initials
1	1.19	1.44	1.14	1.55	0.03	0.06	100.0%	0.07	1795	1326	>40mj/cm ³	CN
2	1.19	1.42	1.10	1.54	0.04	0.14	100.0%	0.06	1028	1356	>40mj/cm ³	CN
3	1.10	1.43	1.10	1.55	0.04	0.06	100.0%	0.07	2342	1428	>40mj/cm ³	JA
4	1.12	1.43	1.04	1.55	0.04	0.10	100.0%	0.07	1314	1306	>40mj/cm ³	JA
5	1.15	1.57	1.03	1.53	0.06	0.14	100.0%	0.07	1574	1289	>40mj/cm ³	JA
6	1.16	1.44	0.96	1.55	0.09	0.27	100.0%	0.09	1207	1323	>40mj/cm ³	KH
7	1.17	1.46	0.98	1.53	0.10	0.27	100.0%	0.11	1594	1307	>40mj/cm ³	JA
8	1.20	1.48	0.98	1.52	0.15	0.42	99.9%	0.13	1139	1451	>40mj/cm ³	JA
9	1.16	1.50	1.05	1.54	0.03	0.12	99.6%	0.16	1790	1478	>40mj/cm ³	JA
10	1.20	1.48	1.08	1.70	0.04	0.07	99.7%	0.11	1838	1289	>40mj/cm ³	MB
11	1.13	1.44	1.14	1.56	0.04	0.12	99.7%	0.08	1792	1217	>40mj/cm ³	MB
12	1.12	1.49	1.17	1.55	0.07	0.12	99.7%	0.07	1181	1360	>40mj/cm ³	MB
13	1.12	1.41	1.11	1.57	0.07	0.19	99.7%	0.09	1738	1387	>40mj/cm ³	MB
14	1.19	1.43	1.12	1.55	0.10	0.31	99.7%	0.10	1205	1314	>40mj/cm ³	MB
15	1.24	1.47	1.12	1.54	0.04	0.07	99.8%	0.09	1709	1521	>40mj/cm ³	MB
16	1.20	1.43	1.16	1.54	0.03	0.06	99.8%	0.08	1309	1427	>40mj/cm ³	MB
17	1.14	1.47	1.16	1.54	0.06	0.29	99.8%	0.07	1823	1429	>40mj/cm ³	MB
18	1.20	1.44	1.08	1.52	0.04	0.12	99.8%	0.07	1811	1320	>40mj/cm ³	KH
19	1.15	1.40	1.09	1.54	0.04	0.08	99.8%	0.07	1202	1329	>40mj/cm ³	KH
20	1.12	1.54	1.11	1.56	0.04	0.06	99.8%	0.07	1196	1311	>40mj/cm ³	KH
21	1.15	1.47	1.08	1.54	0.05	0.20	99.8%	0.07	1789	1470	>40mj/cm ³	KH
22	1.19	1.49	1.13	1.53	0.06	0.12	99.8%	0.08	1225	1367	>40mj/cm ³	KH
23	1.14	1.43	1.13	1.55	0.07	0.19	99.8%	0.09	1830	1531	>40mj/cm ³	KH
24	1.12	1.45	1.16	1.55	0.08	0.33	99.8%	0.10	1185	1315	>40mj/cm ³	CN
25	1.13	1.48	1.19	1.53	0.04	0.22	99.8%	0.12	2105	1388	>40mj/cm ³	CN
26	1.17	1.46	1.19	1.51	0.03	0.08	99.8%	0.11	1256	1371	>40mj/cm ³	CN
27	1.19	1.36	1.10	1.54	0.03	0.06	99.9%	0.08	1410	1152	>40mj/cm ³	CN
28	1.25	1.42	1.11	1.55	0.03	0.07	99.9%	0.07	1228	1347	>40mj/cm ³	CN
29	1.19	1.47	1.14	1.52	0.03	0.07	99.9%	0.06	1778	1320	>40mj/cm ³	CN
				1.32			Monthly Avg.	Total	44393	39429		
Average	1.16	1.46	1.10	1.55	0.05	0.15	99.9%	0.09	1531	1360		
Max		1.57		1.70	Max	0.42		0.16	2342	1531		
Min	1.10		0.96			0.06		Min	1028	1152		

Maintenance/ Events	Backwash aborted	February 9th
	ran generators	February 13th
	test run filter #1	February 14th
	Backwash filter #2	February 17th
	Clearwell Jet Pump run, UV ref. Sensor check	February 18th
	Backwash filter #1	February 25th

March-20

	Filtered Cl2 Low	Filtered Cl2 High	Plant Cl2 Low	Plant Cl2 High	Filter Turb. Avg.	Filter Turb. Max	Filter Performance %	Plant Turb,	Raw Flow	Treated Flow	UV Dose	Initials
1	1.16	1.45	1.16	1.50	0.06	0.36	99.3%	0.07	1188	1503	>40mj/cm ³	CN
2	1.09	1.43	1.12	1.53	0.08	0.21	99.6%	0.08	1674	1301	>40mj/cm ³	JA
3	1.15	1.48	1.07	1.52	0.05	0.14	99.8%	0.09	1662	1105	>40mj/cm ³	CN
4	0.73	1.51	1.05	1.55	0.04	0.15	99.8%	0.08	1335	1249	>40mj/cm ³	JA
5	1.18	1.42	1.02	1.58	0.04	0.08	99.9%	0.07	1154	1099	>40mj/cm ³	JA
6	1.17	1.46	1.09	1.54	0.05	0.08	99.9%	0.07	963	1273	>40mj/cm ³	JA
7	1.17	1.44	1.11	1.54	0.09	0.40	99.8%	0.07	1652	1303	>40mj/cm ³	MB
8	1.17	1.44	1.14	1.54	0.14	0.53	99.7%	0.10	1277	1128	>40mj/cm ³	MB
9	1.19	1.41	1.14	1.55	0.05	0.12	99.7%	0.13	1277	1297	>40mj/cm ³	MB
10	1.18	1.47	1.14	1.55	0.04	0.13	99.8%	0.13	1598	1124	>40mj/cm ³	MB
11	0.98	1.43	1.05	1.58	0.09	0.63	99.5%	0.11	1364	1117	>40mj/cm ³	MB
12	1.20	1.44	1.07	1.57	0.03	0.08	99.5%	0.11	1171	1107	>40mj/cm ³	MB
13	1.15	1.44	1.09	1.55	0.06	0.24	99.6%	0.10	1267	1287	>40mj/cm ³	MB
14	1.05	1.54	1.08	1.54	0.05	0.15	99.6%	0.09	1688	1136	>40mj/cm ³	MB
15	1.17	1.53	1.20	1.51	0.08	0.29	99.6%	0.09	1615	1323	>40mj/cm ³	MB
16	1.15	1.46	1.24	1.48	0.07	0.29	99.5%	0.09	1182	1167	>40mj/cm ³	KH
17	1.13	1.45	1.17	1.55	0.05	0.45	99.5%	0.10	1171	1248	>40mj/cm ³	KH
18	1.17	1.43	1.16	1.53	0.05	0.18	99.5%	0.09	1352	1094	>40mj/cm ³	KH
19	1.25	1.45	1.14	1.55	0.05	0.23	99.5%	0.08	1176	1290	>40mj/cm ³	KH
20	1.13	1.45	1.14	1.55	0.06	0.23	99.6%	0.08	1173	1126	>40mj/cm ³	KH
21	1.17	1.41	1.21	1.52	0.16	0.45	99.2%	0.09	2250	1337	>40mj/cm ³	KH
22	1.12	1.39	1.21	1.48	0.03	0.10	99.3%	0.14	1212	1332	>40mj/cm ³	KH
23	1.23	1.42	1.16	1.54	0.03	0.08	99.3%	0.14	1841	1163	>40mj/cm ³	CN
24	1.18	1.44	1.13	1.57	0.03	0.07	99.3%	0.08	1208	1309	>40mj/cm ³	CN
25	1.13	1.47	1.12	1.61	0.03	0.08	99.1%	0.07	1756	1172	>40mj/cm ³	CN
26	1.13	1.40	1.14	1.55	0.06	0.33	99.1%	0.09	1358	1222	>40mj/cm ³	CN
27	1.13	1.46	1.14	1.55	0.04	0.27	99.2%	0.12	1171	1118	>40mj/cm ³	CN
28	1.14	1.43	1.14	1.55	0.04	0.22	99.2%	0.10	1199	1322	>40mj/cm ³	CN
29	1.13	1.45	1.14	1.56	0.05	0.24	99.2%	0.09	1783	1321	>40mj/cm ³	CN
30	1.13	1.41	1.16	1.55	0.07	0.65	99.2%	0.08	1171	1210	>40mj/cm ³	KH
31	1.13	1.43	1.16	1.55	0.06	0.19	99.3%	0.08	1195	1204	>40mj/cm ³	KH
				1.34			Monthly Avg.	Total	43083	37987		
Average	1.14	1.45	1.13	1.54	0.06		99.30	0.09	1390	1225		
Max		1.54		1.61	Max	0.65		0.14	2250	1503		
Min	0.73		1.02			0.07		Min	963	1094		

Maintenance/ Events	Ran Generators	March 11th
	replaced Lamp #2 in UV #1	March 18th
	pH Cal to chlorine analyzers	March 19th

April-20		Filter C12 Low	Filter C12 High	Plant C12 Low	Plant C12 High	Filter Turb. Avg	Filter Turb. Max	Filter Performance %	Plant Turb,	Raw Flow	Treated Flow	UV Dose	Initials
1		1.13	1.58	1.17	1.55	0.08	0.28	100.0%	0.08	1260	1298	>40mj/cm ³	JA
2		1.07	1.66	1.07	1.55	0.12	0.31	99.9%	0.11	1639	1259	>40mj/cm ³	JA
3		1.19	1.46	1.07	1.53	0.05	0.08	100.0%	0.12	1659	1140	>40mj/cm ³	JA
4		1.13	1.47	1.08	1.54	0.05	0.08	100.0%	0.09	1221	1334	>40mj/cm ³	JA
5		1.15	1.46	1.10	1.55	0.03	0.10	100.0%	0.08	1194	1323	>40mj/cm ³	JA
6		1.20	1.46	1.11	1.53	0.05	0.13	100.0%	0.08	1777	1310	>40mj/cm ³	MB
7		1.18	1.41	1.11	1.95	0.06	0.22	100.0%	0.08	1263	1197	>40mj/cm ³	CN
8		1.24	1.45	1.12	1.52	0.05	0.08	100.0%	0.10	1074	1201	>40mj/cm ³	MB
9		1.24	1.45	1.10	1.50	0.05	0.10	100.0%	0.09	1137	1268	>40mj/cm ³	MB
10		1.20	1.45	1.10	1.53	0.09	0.20	100.0%	0.09	1177	1193	>40mj/cm ³	MB
11		1.15	1.51	1.12	1.54	0.10	0.25	100.0%	0.10	1784	1254	>40mj/cm ³	MB
12		1.17	1.45	1.08	1.53	0.14	0.81	99.5%	0.13	1601	1310	>40mj/cm ³	MB
13		1.18	1.41	1.04	1.54	0.11	0.63	99.4%	0.12	1172	1297	>40mj/cm ³	MB
14		1.04	1.49	1.05	1.59	0.09	0.86	99.2%	0.09	1173	1125	>40mj/cm ³	KH
15		0.94	1.56	1.04	1.57	0.06	0.45	99.2%	0.07	1517	1242	>40mj/cm ³	KH
16		1.06	1.55	1.17	1.48	0.05	0.11	99.3%	0.07	1416	1163	>40mj/cm ³	KH
17		1.13	1.46	1.17	1.48	0.05	0.09	99.3%	0.07	1187	1311	>40mj/cm ³	KH
18		1.18	1.43	1.12	1.53	0.06	0.11	99.4%	0.09	1186	1323	>40mj/cm ³	KH
19		1.13	1.50	1.09	1.56	0.07	0.16	99.4%	0.09	1704	1255	>40mj/cm ³	KH
20		0.97	1.56	1.03	1.56	0.09	0.26	99.4%	0.10	1799	1315	>40mj/cm ³	CN
21		1.08	1.49	1.09	1.50	0.08	0.18	99.4%	0.11	1168	1111	>40mj/cm ³	CN
22		1.24	1.43	1.16	1.46	0.07	0.15	99.5%	0.11	1185	1312	>40mj/cm ³	CN
23		1.21	1.51	1.13	1.47	0.10	0.31	99.5%	0.11	1578	1262	>40mj/cm ³	CN
24		1.26	1.43	1.12	1.46	0.31	0.73	98.7%	0.12	1443	1296	>40mj/cm ³	CN
25		1.13	1.44	1.14	1.46	0.04	0.15	98.8%	0.16	1180	1331	>40mj/cm ³	CN
26		1.16	1.49	1.14	1.46	0.04	0.07	98.8%	0.17	1777	1328	>40mj/cm ³	CN
27		1.21	1.41	1.14	1.46	0.04	0.07	98.9%	0.11	1211	1318	>40mj/cm ³	JA
28		1.20	1.46	1.13	1.55	0.05	0.10	98.9%	0.08	1166	1297	>40mj/cm ³	JA
29		1.18	1.49	1.12	1.53	0.08	0.23	99.0%	0.09	1849	1211	>40mj/cm ³	JA
30		1.14	1.54	1.05	1.54	0.09	0.26	98.8%	0.12	1979	1200	>40mj/cm ³	JA
Overall Avg.			1.32		1.32			Monthly Avg.	Total	42476	37784		
Average		1.15	1.48	1.11	1.53	0.08		98.80	0.10	1416	1259		
Max					1.95	Max	0.86		0.17	1979	1334		
Min		0.94		1.03			0.07		Min	1074	1111		

Maintenance/ Events	PM kit Chlorinator #1	April 7th
	PM kit Chlorinator #2 & #3	April 8th
	Turb Spike, clean valve screen	April 14th
	Run Generator	April 15th
	Rebuild Chlorine tank regulator	April 16th

May-20

	Filter Cl2 Low	Filter Cl2 High	Plant Cl2 Low	Plant Cl2 High	Filter Turb. Avg.	Filter Turb. Max	Filter Performance %	Plant Turb.	Raw Flow	Treated Flow	UV Dose	Initials
1	1.21	1.51	1.02	1.53	0.04	0.15	100.0%	0.12	1705	1295	>40mj/cm ³	JA
2	1.17	1.47	1.10	1.51	0.03	0.08	100.0%	0.11	1206	1308	>40mj/cm ³	JA
3	1.09	1.50	1.08	1.52	0.03	0.09	100.0%	0.09	1204	1351	>40mj/cm ³	JA
4	1.15	1.46	1.17	1.50	0.04	0.08	100.0%	0.08	2649	1310	>40mj/cm ³	JA
5	1.24	1.47	1.26	1.51	0.04	0.08	100.0%	0.08	1179	1302	>40mj/cm ³	KH
6	1.15	1.51	1.24	1.41	0.06	0.16	100.0%	0.09	1566	1303	>40mj/cm ³	JA
7	1.09	1.54	1.24	1.55	0.09	0.46	99.9%	0.09	1451	1286	>40mj/cm ³	JA
8	1.21	1.45	1.24	1.41	0.04	0.08	99.9%	0.11	1173	1300	>40mj/cm ³	BM
9	1.15	1.47	1.23	1.41	0.06	0.13	99.9%	0.1	2051	1320	>40mj/cm ³	MB
10	1.21	1.43	1.17	1.47	0.14	0.20	99.9%	0.1	1341	1327	>40mj/cm ³	MB
11	1.18	1.44	1.19	1.61	0.15	0.26	99.9%	0.12	1180	1306	>40mj/cm ³	KH
12	1.18	1.48	1.09	1.64	0.09	0.17	99.9%	0.14	1572	1306	>40mj/cm ³	KH
13	1.15	1.56	1.04	1.62	0.11	0.18	99.9%	0.13	1514	1243	>40mj/cm ³	KH
14	1.11	1.46	1.16	1.50	0.09	0.19	99.9%	0.15	1935	1441	>40mj/cm ³	KH
15	1.17	1.46	1.12	1.52	0.04	0.09	99.9%	0.11	2104	1631	>40mj/cm ³	KH
16	1.09	1.47	1.07	1.54	0.04	0.10	99.9%	0.07	1206	1502	>40mj/cm ³	KH
17	1.14	1.46	1.03	1.53	0.04	0.08	99.9%	0.06	1638	1334	>40mj/cm ³	KH
18	0.99	1.55	0.99	1.54	0.04	0.07	99.9%	0.07	1348	1321	>40mj/cm ³	KH
19	1.20	1.47	1.03	1.54	0.04	0.06	99.9%	0.07	1195	1312	>40mj/cm ³	KH
20	1.04	1.87	1.22	1.46	0.05	0.23	100.0%	0.08	2147	1259	>40mj/cm ³	KH
21	1.14	1.47	1.01	1.54	0.05	0.09	100.0%	0.07	1182	1508	>40mj/cm ³	JA
22	1.09	1.51	0.95	1.58	0.06	0.09	100.0%	0.07	2225	1517	>40mj/cm ³	JA
23	0.83	1.60	1.15	1.81	0.09	0.15	100.0%	0.09	1799	1699	>40mj/cm ³	CN
24	1.14	1.48	1.21	1.46	0.08	0.14	100.0%	0.11	1447	1543	>40mj/cm ³	CN
25	1.21	1.50	1.18	1.48	0.07	0.13	100.0%	0.11	1822	1541	>40mj/cm ³	JA
26	1.03	1.46	0.94	1.52	0.06	0.13	100.0%	0.11	1667	1424	>40mj/cm ³	JA
27	0.93	1.73	0.98	1.53	0.06	0.12	100.0%	0.1	1666	1709	>40mj/cm ³	JA
28	1.19	1.48	1.02	1.57	0.06	0.15	100.0%	0.11	1548	1346	>40mj/cm ³	JA
29	1.19	1.45	1.07	1.55	0.06	0.13	100.0%	0.1	1292	1388	>40mj/cm ³	JA
30	1.20	1.50	1.08	1.60	0.07	0.12	100.0%	0.08	1585	1328	>40mj/cm ³	JA
31	1.20	1.44	1.02	1.53	0.07	0.11	100.0%	0.09	1229	1526	>40mj/cm ³	JA
Overall Avg.		1.32		1.32			Monthly Avg.	Total	48826	43286		
Average	1.13	1.50	1.11	1.53	0.06		100%	0.10	1575	1396		
MAX				1.81	Max	0.46		0.15	2649	1709		
Min	0.83		0.94			0.06		Min	1173	1243		

Maintenance/ Events	Run Generator	May 14th
	Service Break Trowbridge	May 15th
	Submersible sample pump fail	May 18th

June-20	Filter C12 Low	Filter C12 High	Plant C12 Low	Plant C12 High	Filter Turb. Avg	Filter Turb. Max	Filter Performance %	Plant Turb,	Raw Flow	Treated Flow	UV Dose	Initials
1	1.18	1.47	0.99	1.66	0.06	0.11	100%	0.08	1843	1574	>40mj/cm ³	JA
2	1.13	1.52	1.01	2.51	0.06	0.11	100%	0.11	1787	1345	>40mj/cm ³	JA
3	1.17	1.47	0.99	1.55	0.06	0.12	100%	0.09	1821	1696	>40mj/cm ³	KH
4	1.14	1.44	0.95	1.59	0.06	0.14	100%	0.07	1807	1532	>40mj/cm ³	KH
5	0.99	1.60	0.96	1.64	0.07	0.14	100%	0.08	1409	1697	>40mj/cm ³	KH
6	1.23	1.52	1.05	1.61	0.07	0.15	100%	0.08	1772	1781	>40mj/cm ³	MB
7	1.14	1.51	1.12	1.59	0.07	0.16	100%	0.08	1753	1741	>40mj/cm ³	MB
8	1.16	1.5	1.07	1.63	0.11	0.18	100%	0.09	2675	1822	>40mj/cm ³	JA
9	1.05	1.68	1.05	2.13	0.08	0.14	100%	0.11	1883	1992	>40mj/cm ³	JA
10	0.98	1.54	0.92	1.55	0.09	0.14	100%	0.12	1806	1475	>40mj/cm ³	JA
11	1.02	1.42	0.96	1.56	0.08	0.12	100%	0.11	1164	1305	>40mj/cm ³	JA
12	0.87	1.56	1.16	1.49	0.07	0.11	100%	0.1	1811	1493	>40mj/cm ³	JA
13	1.18	1.45	1.12	1.57	0.08	0.15	100%	0.09	1794	1520	>40mj/cm ³	JA
14	1.11	1.56	1.12	1.54	0.09	0.14	100%	0.09	1613	1681	>40mj/cm ³	JA
15	1.11	1.55	1.15	1.47	0.08	0.13	100%	0.09	1581	1520	>40mj/cm ³	KH
16	1.16	1.52	1.23	1.56	0.11	0.22	100%	0.09	2464	1746	>40mj/cm ³	KH
17	1.14	1.48	1.27	1.72	0.12	0.2	100%	0.12	2172	2221	>40mj/cm ³	KH
18	1.18	1.62	1.44	1.70	0.11	0.17	100%	0.12	2309	1993	>40mj/cm ³	KH
19	1.18	1.54	1.36	1.62	0.07	0.14	100%	0.12	1853	1732	>40mj/cm ³	KH
20	1.10	1.59	1.32	1.59	0.08	0.12	100%	0.1	1851	1919	>40mj/cm ³	CN
21	1.10	1.52	1.37	1.59	0.08	0.12	100%	0.1	1839	1929	>40mj/cm ³	CN
22	1.14	1.49	1.37	1.58	0.09	0.15	100%	0.1	2012	1576	>40mj/cm ³	KH
23	1.17	1.55	1.30	1.54	0.1	0.14	100%	0.10	1622	1662	>40mj/cm ³	KH
24	1.2	1.53	1.27	1.50	0.1	0.15	100%	0.12	1733	1641	>40mj/cm ³	KH
25	1.13	1.51	1.28	1.56	0.1	0.19	100%	0.1	1654	1744	>40mj/cm ³	KH
26	1.11	1.56	1.27	1.55	0.09	0.2	100%	0.08	1752	1487	>40mj/cm ³	KH
27	1.08	1.53	1.27	1.56	0.09	0.18	100%	0.1	1788	1692	>40mj/cm ³	KH
28	1.12	1.47	1.26	1.52	0.09	0.16	100%	0.1	1821	1740	>40mj/cm ³	KH
29	0.88	1.50	1.32	1.58	0.08	0.17	100%	0.1	2370	2256	>40mj/cm ³	JA
30	1.15	1.51	1.31	1.7	0.07	0.17	100%	0.1	1826	1744	>40mj/cm ³	JA
Overall Avg.		1.32		1.40			Monthly Avg.	Total	55585	51256		
Average	1.11	1.52	1.18	1.63	0.08		100%	0.10	1853	1709		
Max				2.51	Max	0.22		0.12	2675	2256		
Min	0.87		0.92			0.11		Min	1164	1305		

Maintenance/ Events	Run Highlift in Manual due to Const. on Trowbridge	June 2nd
	Generator Run	June 9th
	IT Working on Firewall and WIFI access	June 16th
	Hydrant Flushing	June 17th, 18th, 23rd-25th
	Water Service Repair on Lakeside	June 22nd

July-20

	Filter Cl2 Low	Filter Cl2 High	Plant Cl2 Low	Plant Cl2 High	Filter Turb. Avg	Filter Turb. Max	Filter Performance %	Plant Turb,	Raw Flow	Treated Flow	UV Dose	Initials
1	1.14	1.53	1.46	1.81	0.07	0.10	100%	0.10	1869	1773	>40mj/cm ³	MB
2	1.10	1.56	1.47	1.76	0.07	0.11	100%	0.10	2254	2093	>40mj/cm ³	KH
3	1.05	1.44	1.45	1.77	0.06	0.09	100%	0.10	2442	2336	>40mj/cm ³	KH
4	1.13	1.44	1.43	1.77	0.06	0.09	100%	0.07	1821	2002	>40mj/cm ³	MB
5	1.04	1.50	1.37	1.62	0.06	0.10	100%	0.08	2603	2175	>40mj/cm ³	MB
6	1.07	1.39	1.38	1.61	0.06	0.09	100%	0.09	2313	2027	>40mj/cm ³	KH
7	1.04	1.47	1.31	1.77	0.07	0.51	99.9%	0.10	2885	2481	>40mj/cm ³	KH
8	1.12	1.48	1.58	1.85	0.06	0.10	99.9%	0.09	2270	2265	>40mj/cm ³	KH
9	1.18	1.54	1.48	1.74	0.07	0.09	99.9%	0.07	2123	1911	>40mj/cm ³	KH
10	1.08	1.53	1.51	1.79	0.07	0.09	99.9%	0.07	1756	1692	>40mj/cm ³	KH
11	1.10	1.4	1.55	1.78	0.08	0.15	99.9%	0.07	1665	1397	>40mj/cm ³	KH
12	1.13	1.47	1.54	1.75	0.09	0.17	100%	0.09	1675	1581	>40mj/cm ³	KH
13	1.12	2.00	1.27	1.82	0.08	0.24	100%	0.20	2082	1546	>40mj/cm ³	JA
14	1.10	1.47	1.10	1.59	0.09	0.14	100%	0.26	1623	1405	>40mj/cm ³	JA
15	1.08	1.47	1.02	1.49	0.09	0.16	100%	0.19	1669	1582	>40mj/cm ³	KH
16	1.05	1.54	1.00	1.54	0.09	0.16	99.9%	0.12	1096	1394	>40mj/cm ³	KH
17	1.15	1.54	0.98	1.52	0.09	0.2	99.9%	0.11	1667	1583	>40mj/cm ³	CN
18	1.16	1.46	1.09	1.52	0.08	0.13	99.9%	0.10	1678	1605	>40mj/cm ³	CN
19	1.09	1.53	1.07	1.47	0.08	0.13	100%	0.10	1650	1555	>40mj/cm ³	CN
20	1.10	1.45	1.11	1.68	0.08	0.11	100%	0.10	1575	1360	>40mj/cm ³	JA
21	1.07	1.51	1.07	1.61	0.09	0.13	100%	0.09	1892	1604	>40mj/cm ³	JA
22	1.09	1.53	0.96	1.74	0.12	0.21	100%	0.10	1359	1383	>40mj/cm ³	JA
23	1.14	1.54	0.95	1.67	0.14	0.3	100%	0.09	1668	1762	>40mj/cm ³	JA
24	1.14	1.61	1.04	1.69	0.07	0.12	100%	0.09	1267	1406	>40mj/cm ³	JA
25	1.14	1.56	0.96	1.69	0.06	0.09	100%	0.07	1708	1624	>40mj/cm ³	JA
26	1.05	1.58	1.00	1.68	0.06	0.09	100%	0.06	1709	1622	>40mj/cm ³	JA
27	1.20	1.61	1.04	1.62	0.07	0.1	100%	0.06	1700	1409	>40mj/cm ³	JA
28	1.13	1.51	0.97	1.65	0.06	0.9	100%	0.06	1943	1646	>40mj/cm ³	KH
29	1.08	1.62	0.96	1.7	0.06	0.08	100%	0.06	1861	1958	>40mj/cm ³	KH
30	1.04	1.6	0.93	1.75	0.06	0.08	100%	0.06	1239	1403	>40mj/cm ³	KH
31	1.13	1.57	1.01	1.66	0.06	0.08	100%	0.06	1940	1640	>40mj/cm ³	KH
Overall Avg.		1.32		1.44			Monthly Avg.	Total	57002	53220		
Average	1.10	1.53	1.20	1.68	0.08		100%	0.10	1839	1717		
Max				1.85	Max	0.90		Max	2885	2481		
Min	1.04		0.93			0.08		Min	1096	1360		

August-20	Filter Cl2 Low	Filter Cl2 High	Plant Cl2 Low	Plant Cl2 High	Filter Turb. Avg	Filter Turb. Max	Filter Performance %	Plant Turb,	Raw Flow	Treated Flow	UV Dose	Initials
1	1.04	1.49	1.07	1.67	0.06	0.07	100.0%	0.06	1941	1832	>40mj/cm ³	MB
2	1.10	1.54	1.05	1.64	0.07	0.48	99.0%	0.07	2240	1201	>40mj/cm ³	MB
3	1.15	1.55	0.94	1.68	0.10	0.63	98.1%	0.10	1453	1566	>40mj/cm ³	MB
4	1.15	1.59	0.92	1.70	0.14	0.17	98.6%	0.14	1820	1322	>40mj/cm ³	KH
5	1.04	1.56	1.01	1.66	0.10	0.20	98.9%	0.10	1498	1328	>40mj/cm ³	KH
6	1.17	1.57	1.08	1.70	0.09	0.23	99.1%	0.09	1088	1412	>40mj/cm ³	KH
7	1.10	1.52	1.02	1.58	0.08	0.06	99.2%	0.08	2015	1435	>40mj/cm ³	KH
8	1.17	1.49	0.94	1.63	0.06	0.06	99.3%	0.06	1220	1480	>40mj/cm ³	CN
9	1.03	1.65	0.91	1.66	0.06	0.19	99.4%	0.06	1721	1646	>40mj/cm ³	CN
10	1.21	1.59	0.93	1.64	0.08	0.12	99.4%	0.08	2303	1313	>40mj/cm ³	JA
11	1.01	1.55	0.92	1.69	0.08	0.12	99.5%	0.08	1357	1305	>40mj/cm ³	JA
12	1.16	1.52	0.96	1.62	0.08	0.13	99.5%	0.08	1358	1469	>40mj/cm ³	JA
13	1.21	1.60	1.09	1.58	0.08	0.11	99.6%	0.08	1706	1615	>40mj/cm ³	JA
14	1.18	1.57	1.05	1.61	0.07	0.10	99.6%	0.07	1730	1495	>40mj/cm ³	JA
15	1.16	1.55	0.99	1.63	0.07	0.10	99.6%	0.07	1750	1646	>40mj/cm ³	CN
16	0.98	1.52	0.90	1.66	0.07	0.11	99.7%	0.07	1183	1298	>40mj/cm ³	CN
17	1.01	1.63	0.85	1.67	0.08	0.34	9.3%	0.08	1265	1369	>40mj/cm ³	JA
18	1.09	1.64	0.88	1.65	0.11	0.11	99.3%	0.11	1769	1352	>40mj/cm ³	JA
19	1.26	1.71	0.87	1.79	0.09	0.14	99.4%	0.09	1602	1689	>40mj/cm ³	JA
20	1.28	1.67	1.03	1.63	0.08	0.09	99.4%	0.08	1703	1456	>40mj/cm ³	KH
21	1.27	1.70	1.12	1.63	0.07	0.10	99.4%	0.07	1748	1488	>40mj/cm ³	JA
22	1.34	1.69	1.13	1.65	0.07	0.09	99.4%	0.07	1218	1645	>40mj/cm ³	JA
23	1.28	1.70	1.19	1.64	0.06	0.08	99.5%	0.06	1767	1666	>40mj/cm ³	JA
24	1.22	1.74	1.16	1.70	0.07	0.21	99.5%	0.07	2714	1695	>40mj/cm ³	JA
25	1.26	1.76	1.13	1.68	0.10	0.11	99.5%	0.10	1586	1669	>40mj/cm ³	JA
26	1.22	1.71	1.04	1.73	0.09	0.15	99.5%	0.09	1672	1764	>40mj/cm ³	JA
27	1.21	1.64	0.98	1.75	0.11	0.16	99.5%	0.11	1721	1454	>40mj/cm ³	JA
28	1.26	1.72	0.96	1.79	0.11	0.12	99.6%	0.11	1205	1444	>40mj/cm ³	JA
29	1.25	1.67	1.02	1.73	0.09	0.21	99.6%	0.09	1511	1312	>40mj/cm ³	CN
30	1.13	1.63	1.01	1.72	0.10	0.16	99.6%	0.10	1725	1479	>40mj/cm ³	JA
31	1.27	1.69	1.04	1.68	0.09	0.08	99.6%	0.09	1187	1449	>40mj/cm ³	KH
Overall Avg.		1.39		1.34			Monthly Avg.	Total	50776	46294		
Average	1.17	1.62	1.01	1.67	0.08		99.6%	0.08	1638	1493		
Max				1.79	Max	0.63		Max	2714	1832		
Min	0.98		0.85			0.06		Min	1088	1201		

September-20	Filter C12	Filter C12	Plant C12	Plant C12	Filter	Filter	Filter	Plant	Raw Flow	Treated	UV Dose	Initials
	Low	High	Low	High	Turb. Avg.	Turb. Max	Performance %	Turb,		Flow	>40mj/cm ³	
1	1.28	1.67	1.02	1.70	0.04	0.06	100.0%	0.08	1858	1432	>40mj/cm ³	KH
2	1.20	1.72	1.03	1.67	0.10	0.25	100.0%	0.08	1724	1402	>40mj/cm ³	KH
3	1.30	1.64	1.08	1.65	0.07	0.11	100.0%	0.08	1679	1430	>40mj/cm ³	KH
4	1.26	1.73	1.11	1.64	0.08	0.16	100.0%	0.08	1539	1311	>40mj/cm ³	KH
5	1.34	1.67	1.18	1.66	0.08	0.12	100.0%	0.08	1034	1441	>40mj/cm ³	KH
6	1.31	1.71	1.18	1.59	0.08	0.10	100.0%	0.08	1685	1296	>40mj/cm ³	KH
7	0.97	1.68	1.18	1.65	0.07	0.09	100.0%	0.08	1667	1448	>40mj/cm ³	KH
8	1.3	1.70	1.18	1.63	0.08	0.12	100.0%	0.08	1016	1268	>40mj/cm ³	KH
9	1.28	1.66	1.23	1.60	0.09	0.21	100.0%	0.09	1632	1410	>40mj/cm ³	JA
10	1.12	1.60	1.25	1.80	0.07	0.12	100.0%	0.10	1725	1228	>40mj/cm ³	JA
11	1.27	1.64	1.33	1.54	0.06	0.11	100.0%	0.14	1363	1335	>40mj/cm ³	JA
12	1.29	1.85	1.36	1.75	0.05	0.07	100.0%	0.11	1692	1299	>40mj/cm ³	CN
13	1.27	1.77	1.44	1.66	0.05	0.07	100.0%	0.08	1529	1449	>40mj/cm ³	CN
14	1.3	1.74	1.30	1.59	0.08	0.17	100.0%	0.09	1453	1282	>40mj/cm ³	JA
15	1.17	1.73	1.13	1.71	0.05	0.10	100.0%	0.08	1542	1451	>40mj/cm ³	JA
16	1.35	1.66	1.14	1.66	0.06	0.09	100.0%	0.08	1722	1305	>40mj/cm ³	JA
17	1.24	1.71	1.20	1.65	0.07	0.10	100.0%	0.08	1434	1454	>40mj/cm ³	JA
18	1.19	1.76	1.19	1.63	0.09	0.20	100.0%	0.08	1112	1283	>40mj/cm ³	JA
19	1.35	1.62	1.19	1.63	0.07	0.12	100.0%	0.09	1535	1448	>40mj/cm ³	JA
20	1.21	1.69	1.19	1.64	0.09	0.16	100.0%	0.09	1676	1435	>40mj/cm ³	JA
21	1.36	1.67	1.29	1.57	0.08	0.11	100.0%	0.09	1531	1294	>40mj/cm ³	JA
22	1.32	1.64	1.3	1.58	0.08	0.1	100.0%	0.10	1516	1369	>40mj/cm ³	JA
23	1.33	1.63	1.28	1.56	0.07	0.09	100.0%	0.09	1530	1442	>40mj/cm ³	JA
24	1.27	1.67	1.21	1.65	0.07	0.09	100.0%	0.08	1562	1457	>40mj/cm ³	JA
25	1.18	1.64	1.14	1.70	0.07	0.11	100.0%	0.08	1824	1332	>40mj/cm ³	JA
26	1.37	1.64	1.23	1.57	0.06	0.09	100.0%	0.09	1655	1462	>40mj/cm ³	JA
27	1.33	1.67	1.27	1.57	0.05	0.07	100.0%	0.08	1576	1486	>40mj/cm ³	CN
28	1.28	1.69	1.26	1.56	0.05	0.07	100.0%	0.08	1044	1299	>40mj/cm ³	KH
29	1.21	1.59	1.21	1.61	0.05	0.07	100.0%	0.08	1011	1450	>40mj/cm ³	KH
30	1.22	1.87	1.19	1.60	0.05	0.07	100.0%	0.09	1696	1452	>40mj/cm ³	KH
Overall Avg.		1.48		1.42			Monthly Avg.	Total	45562	41450		
Average	1.26	1.69	1.21	1.63	0.07			0.09	1519	1382		
Max				1.80	Max	0.25		Max	1858	1486		
Min	0.97		1.02			0.06	1.00	Min	1011	1228		

Maintenance/ Events	UV Critical Alarm	September 6th
	Filter #1 Rehab project Started	September 28th
	Maintenance to Clearwell #1	September 30th

October-20		Filter C12 Low	Filter C12 High	Plant C12 Low	Plant C12 High	Filter Turb. Avg	Filter Turb. Max	Filter Performance %	Plant Turb,	Raw Flow	Treated Flow	UV Dose	Initials
1		1.32	1.61	1.27	1.60	0.06	0.08	100	0.09	2447	1409	>40mj/cm ³	KH
2		1.31	1.61	1.23	1.54	0.07	0.12	100	0.09	1395	1302	>40mj/cm ³	KH
3		1.34	1.69	1.22	1.71	0.07	0.1	100	0.09	1752	1467	>40mj/cm ³	KH
4		1.37	1.59	1.35	1.62	0.05	0.07	100	0.08	1430	1641	>40mj/cm ³	KH
5		1.01	1.75	1.27	1.61	0.11	0.05	98.3	0.17	1800	1383	>40mj/cm ³	KH
6		1.35	1.62	1.25	1.59	0.04	0.06	100	0.2	1568	1310	>40mj/cm ³	KH
7		1.34	1.65	1.2	1.64	0.05	0.07	100	0.13	1174	1277	>40mj/cm ³	KH
8		1.37	1.61	1.18	1.72	0.08	0.25	100	0.1	1525	1272	>40mj/cm ³	KH
9		1.23	1.69	1.14	1.72	0.06	0.09	99.1	0.09	1515	1281	>40mj/cm ³	JA
10		1.32	1.63	1.18	1.63	0.06	0.08	99.2	0.09	1527	1447	>40mj/cm ³	CN
11		1.30	1.63	1.25	1.63	0.08	0.17	99.2	0.08	1049	1310	>40mj/cm ³	CN
12		1.23	1.67	1.28	1.59	0.07	0.14	100	0.09	1720	1455	>40mj/cm ³	CN
13		1.29	1.65	1.27	1.61	0.07	0.17	100	0.1	1123	1233	>40mj/cm ³	JA
14		1.33	1.65	1.2	1.63	0.06	0.09	100	0.09	1707	1305	>40mj/cm ³	JA
15		1.29	1.65	1.19	1.63	0.09	0.18	100	0.09	1421	1273	>40mj/cm ³	JA
16		1.12	1.62	1.18	1.70	0.1	0.23	100	0.1	1839	1364	>40mj/cm ³	JA
17		1.35	1.69	1.18	1.7	0.09	0.15	100	0.11	2091	1450	>40mj/cm ³	JA
18		1.36	1.61	1.15	1.63	0.06	0.08	100	0.11	1511	1458	>40mj/cm ³	JA
19		1.37	1.62	1.23	1.61	0.07	0.1	100	0.09	985	1282	>40mj/cm ³	JA
20		1.35	1.64	1.26	1.63	0.07	0.09	100	0.09	1482	1272	>40mj/cm ³	KH
21		1.37	1.61	1.22	1.63	0.07	0.11	100	0.09	1126	1260	>40mj/cm ³	KH
22		1.34	1.61	1.23	1.61	0.08	0.18	100	0.09	1289	1280	>40mj/cm ³	KH
23		1.36	1.62	1.23	1.63	0.07	0.16	100	0.09	1357	1445	>40mj/cm ³	KH
24		1.37	1.57	1.23	1.63	0.09	0.16	100	0.1	1522	1315	>40mj/cm ³	JA
25		1.25	1.6	1.14	1.61	0.08	0.16	100	0.1	1498	1436	>40mj/cm ³	JA
26		1.25	1.53	1.09	1.6	0.08	0.15	100	0.11	1480	1275	>40mj/cm ³	KH
27		1.27	1.47	1.07	1.68	0.05	0.12	100	0.10	2164	1448	>40mj/cm ³	KH
28		1.23	1.54	1.1	1.61	0.04	0.06	100	0.09	1476	1287	>40mj/cm ³	KH
29		1.28	1.49	1.13	1.59	0.05	0.07	100	0.08	991	1281	>40mj/cm ³	KH
30		1.29	1.48	1.13	1.61	0.06	0.13	100	0.07	1426	1223	>40mj/cm ³	KH
31		1.28	1.46	1.15	1.59	0.04	0.05	100	0.07	1169	1439	>40mj/cm ³	KH
Overall Avg.			1.45		1.42			Monthly Avg.	Total	46559	41880		
Average		1.30	1.61	1.20	1.63	0.07			0.10	1502	1351		
Max				1.72	Max	0.25			Max	2447	1641		
Min		1.01		1.07		0.05	99.9		Min	985	1223		

Maintenance/ Events	Clearwell #1 Maintenance	October 1st
	Clearwell #1 Back online	October 5th
	Run Generator	October 13th

November-20		Filter C12 Low	Filter C12 High	Plant C12 Low	Plant C12 High	Filter Turb. Avg	Filter Turb. Max	Filter Performance %	Plant Turb,	Raw Flow	Treated Flow	UV Dose	Initials
1		1.24	1.52	1.13	1.56	0.04	0.08	100.00	0.07	1841	1311	>40mj/cm ³	KH
2		1.26	1.47	1.14	1.57	0.06	0.13	100.00	0.07	966	1260	>40mj/cm ³	JA
3		1.27	1.56	1.16	1.57	0.16	0.78	88.20	0.10	1553	1413	>40mj/cm ³	JA
4		1.23	1.47	1.12	1.61	0.08	0.28	100.00	0.15	1362	1278	>40mj/cm ³	JA
5		1.24	1.52	1.08	1.63	0.07	0.14	100.00	0.13	1624	1291	>40mj/cm ³	JA
6		1.21	1.5	1.08	1.64	0.06	0.12	98.50	0.11	1313	1132	>40mj/cm ³	JA
7		1.2	1.51	1.05	1.66	0.06	0.09	98.70	0.09	1166	1447	>40mj/cm ³	CN
8		1.18	1.52	1.05	1.68	0.06	0.09	98.80	0.09	1822	1298	>40mj/cm ³	CN
9		1.15	1.51	1.03	1.74	0.06	0.08	98.90	0.09	1170	1282	>40mj/cm ³	JA
10		1.20	1.53	1.01	1.73	0.05	0.08	99.00	0.09	1146	1282	>40mj/cm ³	JA
11		1.1	1.55	1.00	1.71	0.05	0.09	99.10	0.08	1356	1261	>40mj/cm ³	JA
12		1.2	1.53	1.08	1.64	0.06	0.13	99.20	0.08	1275	1143	>40mj/cm ³	JA
13		1.28	1.55	1.14	1.59	0.06	0.10	99.20	0.08	1414	1247	>40mj/cm ³	JA
14		1.14	1.59	1.01	1.72	0.06	0.10	99.30	0.08	1218	1481	>40mj/cm ³	JA
15		1.07	1.99	0.96	1.72	0.06	0.10	99.30	0.09	1729	1308	>40mj/cm ³	JA
16		1.24	1.49	1.02	1.70	0.13	0.28	99.30	0.09	1733	1338	>40mj/cm ³	JA
17		1.25	1.53	1.19	1.67	0.15	0.38	99.10	0.13	1552	1255	>40mj/cm ³	JA
18		1.25	1.49	1.17	1.64	0.05	0.08	99.10	0.15	951	1218	>40mj/cm ³	KH
19		1.18	1.53	1.14	1.64	0.05	0.06	99.20	0.13	1783	1381	>40mj/cm ³	KH
20		1.19	1.5	1.13	1.61	0.05	0.06	99.20	0.09	1151	1240	>40mj/cm ³	KH
21		1.27	1.49	1.19	1.61	0.05	0.06	99.20	0.08	1158	1160	>40mj/cm ³	CH
22		1.24	1.5	1.19	1.50	0.05	0.08	99.30	0.08	1684	1450	>40mj/cm ³	CH
23		1.21	1.48	1.17	1.61	0.06	0.09	99.30	0.08	1312	1122	>40mj/cm ³	KH
24		1.24	1.47	1.14	1.63	0.06	0.13	99.30	0.09	1311	1264	>40mj/cm ³	KH
25		1.2	1.49	1.12	1.67	0.05	0.09	99.30	0.08	1160	1267	>40mj/cm ³	KH
26		1.25	1.51	1.11	1.66	0.08	0.19	99.40	0.09	1086	1062	>40mj/cm ³	KH
27		1.21	1.53	1.1	1.64	0.06	0.11	99.40	0.10	1649	1357	>40mj/cm ³	KH
28		1.28	1.49	1.11	1.64	0.05	0.07	99.40	0.09	1505	1304	>40mj/cm ³	KH
29		1.26	1.52	1.13	1.65	0.05	0.08	99.40	0.08	1524	1309	>40mj/cm ³	KH
30		1.27	1.47	1.12	1.64	0.06	0.12	99.40	0.08	1283	1262	>40mj/cm ³	BR
Overall Avg.			1.37		1.37			Monthly Avg.	Total	41797	38423		
Average	1.22	1.53	1.10	1.64	0.07			0.09	1393	1281			
Max				1.74	Max	0.78		Max	1841	1481			
Min	1.07		0.96			0.06		Min	951	1062			

December-20	Filter C12 Low	Filter C12 High	Plant C12 Low	Plant C12 High	Filter Turb. Avg	Filter Turb. Max	Filter Performance %	Plant Turb,	Raw Flow	Treated Flow	UV Dose	Initials
1	1.27	1.49	1.13	1.63	0.12	0.35	98.10	0.08	1161	1102	>40mj/cm ³	JA
2	1.26	1.49	1.15	1.60	0.10	0.35	97.70	0.10	1310	1277	>40mj/cm ³	BR
3	1.24	1.52	1.16	1.59	0.06	0.16	98.50	0.12	1180	1126	>40mj/cm ³	BR
4	1.27	1.52	1.17	1.59	0.04	0.08	98.80	0.10	1258	1257	>40mj/cm ³	BR
5	1.25	1.51	1.14	1.61	0.04	0.07	99.10	0.09	1229	1288	>40mj/cm ³	CN
6	1.21	1.51	1.13	1.59	0.05	0.09	99.20	0.08	1352	1302	>40mj/cm ³	CN
7	1.26	1.51	1.16	1.58	0.07	0.19	99.30	0.08	1894	1135	>40mj/cm ³	BM
8	1.18	1.48	1.16	1.59	0.05	0.08	99.40	0.09	1019	1286	>40mj/cm ³	JA
9	1.26	1.51	1.14	1.59	0.05	0.07	99.50	0.09	1508	1288	>40mj/cm ³	JA
10	1.26	1.50	1.12	1.63	0.04	0.06	99.50	0.08	1208	1285	>40mj/cm ³	BM
11	1.18	1.53	1.12	1.64	0.05	0.07	99.60	0.07	1290	1117	>40mj/cm ³	BM
12	1.27	1.51	1.15	1.61	0.10	0.27	99.60	0.08	1508	1298	>40mj/cm ³	BM
13	1.24	1.50	1.20	1.59	0.06	0.14	99.60	0.10	1234	1464	>40mj/cm ³	BM
14	1.16	1.89	1.16	1.56	0.06	0.13	99.60	0.10	1395	1179	>40mj/cm ³	KH
15	1.12	1.58	1.25	1.55	0.04	0.06	99.70	0.09	1300	1283	>40mj/cm ³	BR
16	1.26	1.49	1.21	1.61	0.07	0.23	99.70	0.08	1328	1281	>40mj/cm ³	BR
17	1.23	1.50	1.21	1.59	0.14	0.73	99.40	0.10	1729	1282	>40mj/cm ³	KH
18	1.26	1.52	1.24	1.57	0.05	0.17	99.50	0.13	1441	1294	>40mj/cm ³	BR
19	1.26	1.47	1.26	1.57	0.04	0.06	99.50	0.11	1103	1313	>40mj/cm ³	KH
20	1.26	1.50	1.21	1.58	0.05	0.07	99.50	0.09	1520	1305	>40mj/cm ³	KH
21	1.22	1.53	1.27	1.57	0.05	0.06	99.50	0.08	1148	1391	>40mj/cm ³	BR
22	1.25	1.52	1.20	1.58	0.06	0.08	99.60	0.07	1384	1335	>40mj/cm ³	BM
23	1.27	1.52	1.13	1.61	0.05	0.07	99.60	0.09	1541	1630	>40mj/cm ³	BR
24	1.25	1.52	1.10	1.63	0.05	0.07	99.60	0.08	1548	1301	>40mj/cm ³	JA
25	1.23	1.52	1.12	1.64	0.06	0.14	99.60	0.08	1482	1135	>40mj/cm ³	JA
26	1.19	1.51	1.14	1.61	0.06	0.12	99.60	0.08	1005	1287	>40mj/cm ³	JA
27	1.25	1.50	1.19	1.59	0.05	0.06	99.60	0.08	1523	1305	>40mj/cm ³	JA
28	1.26	1.49	1.21	1.57	0.05	0.07	99.60	0.08	1497	1291	>40mj/cm ³	BR
29	1.26	1.48	1.16	1.57	0.09	0.17	99.70	0.08	1571	1286	>40mj/cm ³	BR
30	1.24	1.52	1.14	1.57	0.07	0.11	99.70	0.09	1483	1277	>40mj/cm ³	BR
31	1.26	1.47	1.09	1.58	0.07	0.12	99.70	0.10	1333	1287	>40mj/cm ³	JA
Overall Avg.		1.38		1.38			Monthly Avg.	Total	42482	39687		
Average	1.24	1.52	1.17	1.59	0.06			0.09	1370	1280		
Max				1.64	Max	0.73		Max	1894	1630		
Min	1.12		1.09			0.06	99.70	Min	1005	1102		