



The City of Flint and F&V Operations and Resource Management are submitting the following report(s) to Michigan Department of Environment, Great Lakes and Energy:

MOR July 2020

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons or persons who manage the system or those persons directly responsible for gathering such information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

City of Flint Representative: _____

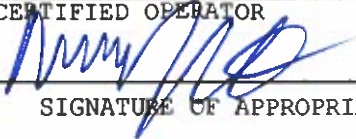
Signature: _____ Date: _____

F&V Operations Representative: Robert Jones _____

Signature:  _____ Date: 8/5/2020

**MONTHLY OPERATION REPORT
OF
WATER TREATMENT PLANT**

For Month of July 2020

<u>Flint Water Plant</u> NAME OF WATER SYSTEM	<u>2310</u> WSSN	<u>Genesee</u> COUNTY
<u>Robert Jones</u> CERTIFIED OPERATOR		<u>D-1</u> CLASSIFICATION
 SIGNATURE OF APPROPRIATE OFFICIAL		

TREATMENT RATE AND FILTER DATA

1. Treatment Rate, Maximum 11.84 Million Gallons Per Day
2. Treatment Rate, Approved Rated Plant Capacity 36 Million Gallons per Day
3. Average Filter Run N/A Hours, Average Head Loss N/A Feet
4. Average Filtration Rate N/A Gallons per Square Ft. per Minute
5. Maximum Filtration Rate N/A Gallons per Square Ft. per Minute
6. Average Wash Water Use N/A percent of Treated Water

CHEMICAL DATA

7. Sodium Hypochlorite on hand at CS2 3649 gal.: Estimated supply 35 days
8. Sodium Hypochlorite on hand at outstations 234 gal: Estimated supply 21 days.
9. Phosphoric Acid on hand 738 gal.: Estimated supply 35 days
9. Sodium Hydroxide on hand 2023 gal.: Estimated supply 26 days

Remarks:

Submit to: MDEQ - Office of Drinking Water & Municipal Assistance
LANSING DISTRICT OFFICE
525 West Allegan Street, 1st Floor South
(Constitution Hall)
PO Box 30242
Lansing, MI 48909-7742



Fluoridation & Chlorination

WSSN 2310

Jul-20

DATE	Fluoride Applied mg/l	Fluoride Analyses mg/l			Chlorine Applied mg/l	Chlorine App. Mg/l		Chlorine Residual mg/l					
		Raw	Tap	Dist		Pre (prior to filtration) mg/L OCI	Post Chlorine mg/L	Sta II	Dort	3MG Well	Tap		
								Free	Free	Free	Free		
1	0.75	0.82			1.09			1.0				1.7	
2	0.78	0.76			1.06			1.0				1.7	
3	0.75	0.75			0.96			1.0				1.6	
4	0.74	0.74			0.99			0.9				1.6	
5	0.72	0.74			1.03			0.9				1.6	
6	0.81	0.88			0.99			0.9				1.6	
7	0.75	0.83			1.02			1.0				1.7	
8	0.80	0.93			1.09			0.9				1.6	
9	0.69	0.75			1.17			1.0				1.6	
10	0.76	0.79			1.09			1.0				1.6	
11	0.72	0.78			1.11			1.0				1.6	
12	0.76	0.86			1.13			1.0				1.7	
13	0.81	0.74			1.14			1.0				1.7	
14	0.77	0.83			1.17			0.9				1.7	
15	0.82	0.83			1.20			1.0				1.7	
16	0.79	0.64			1.17			1.0				1.7	
17	0.82	0.82			1.20			0.9				1.7	
18	0.76	0.84			1.24			0.8				1.6	
19	0.86	0.82			1.33			0.8				1.7	
20	0.88	0.85			1.31			0.8				1.7	
21	0.89	0.84			1.29			0.8				1.8	
22	0.69	0.70			1.36			0.8				1.7	
23	0.70	0.67			1.34			0.9				1.7	
24	0.91	0.87			1.30			0.8				1.7	
25	0.72	0.70			1.23			1.0				1.8	
26	0.69	0.69			1.23			0.9				1.8	
27	0.72	0.84			1.23			0.9				1.7	
28	0.73	0.79			1.28			0.9				1.6	
29	0.53	0.50			1.26			0.9				1.7	
30	0.78	0.79			1.19			0.9				1.7	
31	0.88	0.73			1.17			0.8				1.7	
AVG		0.78			1.17			0.9				1.7	
MAX		0.93			1.36			1.0				1.8	
MIN		0.50			0.96			0.8				1.6	



Chemical Analyses

WSSN 2310

Jul-20

DATE	pH		Total Hardness as CaCO ₃ mg/l		Total Alkalinity as CaCO ₃ mg/l		NonCarbonate Hardness as CaCO ₃ mg/l		Iron mg/L	Calcium Ca ²⁺ mg/l		Magnesium as Mg ²⁺ mg/l		Chloride as Cl ⁻ mg/l	
	CSTII	Tap	Raw	Tap	Raw	Tap	Raw	Tap		Raw	Tap	Raw	Tap	Raw	Tap
1	7.34	7.58	100		80		28	0	0.01	28.9		7.8		14	
2	7.33	7.56	104		82		34	0.0	0.00	28.1		8.3		15	
3	7.42	7.52	102		84		32	0.02	0.02	28.1		7.8		16	
4	7.36	7.39	102		80		36	0.02	0.00	26.5		8.7		17	
5	7.45	7.54	94		76		30	0.02	0.01	25.7		7.3		14	
6	7.39	7.56	98		74		32	0	0.01	26.5		7.8		15	
7	7.35	7.51	100		78		28	0.02	0.01	27.3		7.8		14	
8	7.32	7.50	96		80		26	0.02	0.01	28.1		6.3		14	
9	7.34	7.51	96		80		24	0	0.00	28.9		5.8		15	
10	7.35	7.52	96		78		26	0.01	0.01	28.1		6.3		15	
11	7.41	7.52	96		76		32	0.01	0.01	25.7		7.8		14	
12	7.35	7.40	96		80		26	0	0.00	28.1		6.3		14	
13	7.33	7.54	98		78		28	0.01	0.02	28.1		6.8		14	
14	7.36	7.56	98		74		34	0.02	0.02	28.1		6.8		14	
15	7.35	7.54	98		80		28	0.01	0.01	28.1		6.8		15	
16	7.33	7.56	96		78		26	0.01	0.02	28.1		6.3		15	
17	7.29	7.52	100		80		30	0.01	0.01	28.1		7.3		15	
18	7.39	7.48	100		78		34	0	0.02	26.5		8.3		14	
19	7.38	7.50	100		82		32	0.02	0.01	27.3		7.8		16	
20	7.30	7.53	100		82		32	0	0.00	27.3		7.8		15	
21	7.31	7.53	100		76		30	0.02	0.02	28.1		7.3		15	
22	7.32	7.53	100		80		30	0.01	0.01	28.1		7.3		15	
23	7.27	7.56	96		80		28	0	0.00	27.3		6.8		15	
24	7.31	7.59	98		80		32	0.01	0.01	28.1		6.8		15	
25	7.53	7.61	96		78		32	0.03	0.01	25.7		7.8		14	
26	7.46	7.55	100		82		34	0.01	0.02	26.5		8.3		15	
27	7.33	7.59	98		78		30	0.01	0.01	27.3		7.3		14	
28	7.32	7.57	96		76		28	0.02	0.00	27.3		6.8		14	
29	7.29	7.55	100		82		30	0.02	0.02	28.1		7.3		14	
30	7.27	7.53	102		80		30	0.01	0.01	28.9		7.3		15	
31	7.39	7.57	98		82		26	0.01	0.01	28.9		6.3		15	
AVG	7.35	7.53	99		79		30		0.01	27.6		7.3		15	
MAX	7.53	7.61	104		84		36		0.02	28.9		8.7		17.0	
MIN	7.27	7.39	94		74		24		0.00	25.7		5.8		14.0	



WSSN 2310

Jul-20

D A T E	Total Coliform					Standard Plate Count		Conductivity (ms)	Temp deg.C	Color		Odor		
	Plant Tap					Raw Tap	Raw Tap			Raw Tap	Raw Tap			
	60	61	62	63	64							65	66	67
1						2/0		0.23	15.1					
2						2/0		0.23	15.2					
3						2/0		0.23	14.6					
4						2/0		0.22	16.4					
5						2/0		0.23	15.6					
6						2/0		0.22	16.0					
7						2/0		0.22	16.3					
8						2/0		0.22	16.6					
9						2/0		0.23	17.0					
10						2/0		0.23	17.5					
11						2/0		0.22	17.5					
12						2/0		0.23	17.6					
13						2/0		0.22	16.9					
14						2/0		0.22	16.9					
15						2/0		0.22	17.0					
16						2/0		0.23	17.2					
17						2/0		0.22	17.4					
18						2/0		0.23	18.3					
19						2/0		0.23	19.6					
20						2/0		0.23	18.7					
21						2/0		0.23	19.1					
22						2/0		0.23	19.2					
23						2/0		0.23	19.3					
24						2/0		0.23	18.7					
25						2/0		0.23	18.5					
26						2/0		0.23	17.8					
27						2/0		0.22	18.6					
28						2/0		0.23	18.5					
29						2/0		0.23	19.2					
30						2/0		0.23	20.0					
31						2/0		0.23	20.1					
AVG								0.23	17.6					
MAX								0.23	20.1					
MIN								0.22	14.6					

