



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 February 2021

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*"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: 3/3/21 \_\_\_\_\_

**MONTHLY OPERATION REPORT  
OF  
WATER TREATMENT PLANT**

**For Month of February 2021**

Flint Water Plant  
NAME OF WATER SYSTEM

2310  
WSSN

Genesee  
COUNTY

Robert Jones  
CERTIFIED OPERATOR

D-1  
CLASSIFICATION

SIGNATURE OF APPROPRIATE OFFICIAL

**TREATMENT RATE AND FILTER DATA**

1. Treatment Rate, Maximum 14.41 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 1746 gal.: Estimated supply 26 days
8. Sodium Hypochlorite on hand at outstations 264 gal: Estimated supply 91 days.
9. Phosphoric Acid on hand 832 gal.: Estimated supply 33 days
9. Sodium Hydroxide on hand 4011 gal.: Estimated supply 29 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**      **Feb-21**

D A T E	Fluoride Applied F mg/l		Fluoride Analyses mg/l			Chlorine App. Mgf/l				Chlorine Residual mg/l					
	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1		0.74	0.72		0.83				1.1					1.7	
2		0.71	0.64		0.90				1.1					1.8	
3		0.60	0.69		0.92				1.2					1.8	
4		0.70	0.76		0.91				1.2					1.8	
5		0.62	0.66		0.88				1.2					1.8	
6		0.60	0.59		0.92				1.1					1.7	
7		0.69	0.64		1.02				1.1					1.8	
8		0.64	0.64		0.92				1.1					1.7	
9		0.75	0.76		0.85				1.1					1.7	
10		0.53	0.52		0.90				1.0					1.6	
11		0.57	0.65		0.90				1.0					1.6	
12		0.67	0.62		0.86				1.2					1.7	
13		0.59	0.69		0.84				1.2					1.7	
14		0.63	0.60		0.76				1.1					1.6	
15		0.75	0.84		0.77				1.1					1.6	
16		0.67	0.65		0.76				1.3					1.7	
17		0.73	0.74		0.88				1.1					1.7	
18		0.58	0.58		0.82				1.1					1.7	
19		0.71	0.82		0.89				1.0					1.7	
20		0.76	0.83		0.85				1.1					1.8	
21		0.76	0.76		0.84				1.1					1.7	
22		0.65	0.70		0.82				1.0					1.7	
23		0.59	0.50		0.76				1.0					1.6	
24		0.77	0.81		0.77				1.1					1.6	
25		0.65	0.64		0.77				1.1					1.6	
26		0.65	0.77		0.78				1.1					1.7	
27		0.63	0.62		0.76				1.1					1.7	
28		0.66	0.64		0.82				1.2					1.8	
29															
30															
31															
AVG			0.68		0.85				1.1					1.7	
MAX			0.84		1.02				1.3					1.8	
MIN			0.50		0.76				1.0					1.6	



**Chemical Analyses WSSN 2310 Feb-21**

D A T E	pH		Total Hardness as CaCO <sub>3</sub> , mg/l		Total Alkalinity as CaCO <sub>3</sub> , mg/l		NonCarbonate Hardness as CaCO <sub>3</sub> , mg/l		Iron mg/L		Calcium Ca <sup>2+</sup> , mg/l		Magnesium as Mg <sup>2+</sup> , mg/l		Chloride as Cl <sup>-</sup> , mg/l	
	CSII	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap
20	30	31	32	33	34	35	36	37	38.00	39	40	41	42	43	44	
1	7.43	7.63	100	100	82	82	30	0	0.01	28.1	28.1	7.3	16			
2	7.54	7.67	104	102	78	78	34.0	34	0.0	0.02	28.1	27.3	8.3	15	15	
3	7.31	7.45	100	100	78	78	28	0.01	0.03	28.9	28.9	6.8	16			
4	7.23	7.79	102	102	82	82	32	0.03	0.01	28.1	28.1	7.8	16			
5	7.31	7.48	100	100	80	80	30	0.01	0.03	28.1	28.1	7.3	15			
6	7.53	7.40	102	102	80	80	32	0.02	0.00	28.1	28.1	7.8	15			
7	7.21	7.37	102	102	82	82	32	0.02	0.02	28.1	28.1	7.8	16			
8	7.23	7.43	100	100	80	80	30	0.01	0.01	28.1	28.1	7.3	15			
9	7.23	7.46	102	102	78	78	30	0.02	0.02	28.9	28.9	7.3	18	15		
10	7.25	7.63	102	102	82	82	30	0.03	0.03	28.9	28.9	7.3	15			
11	7.27	7.50	100	100	80	80	28	0.01	0.02	28.9	28.9	6.8	16			
12	7.30	7.58	104	104	82	82	34	0.02	0.04	28.1	28.1	8.3	15			
13	7.29	7.52	102	102	80	80	30	0	0.00	28.9	28.9	7.3	16			
14	7.29	7.51	100	100	80	80	26	0.03	0.03	29.7	29.7	6.3	15			
15	7.25	7.55	104	104	82	82	32	0	0.01	28.9	28.9	7.8	17			
16	7.20	7.52	98	100	78	80	28	0.01	0.02	28.1	28.9	6.8	16	16		
17	7.27	7.48	106	106	82	82	34	0.01	0.02	28.9	28.9	8.3	16			
18	7.24	7.50	102	102	82	82	32	0.03	0.03	29.7	29.7	7.8	16			
19	7.21	7.48	104	104	80	80	34	0.03	0.04	28.1	28.1	8.3	15			
20	7.35	7.37	100	100	80	80	24	0.03	0.01	30.5	30.5	5.8	18			
21	7.36	7.50	102	102	80	80	36	0.02	0.01	26.5	26.5	8.7	18			
22	7.29	7.50	100	100	80	80	30	0	0.01	28.1	28.1	7.3	16			
23	7.20	7.47	104	102	78	80	28	0.04	0.01	28.9	28.9	6.8	7.3	14	13	
24	7.30	7.55	104	104	80	80	32	0.02	0.02	28.1	28.1	7.8	15			
25	7.26	7.50	102	102	82	82	30	0.02	0.01	28.9	28.9	7.3	15			
26	7.29	7.54	102	102	80	80	30	0	0.00	28.9	28.9	7.3	16			
27	7.37	7.71	100	100	82	82	30	0.02	0.03	28.1	28.1	7.3	15			
28	7.35	7.51	102	102	84	84	34	0.02	0.01	27.3	27.3	8.3	14			
29																
30																
31																
AVG	7.30	7.52	102	102	81	81	31		0.02	28.5	28.5	7.5	16			
MAX	7.54	7.79	106	106	84	84	36		0.04	30.5	30.5	8.7	18.0			
MIN	7.20	7.37	100	100	78	78	24		0.00	26.5	26.5	5.8	13.0			







**Distribution System Monitoring**

WSSN 2310

Feb-21

DATE	Total Chlorine Residual at Bacteriological Monitoring Stations mg/l																					Chlorine only sites mg/l					Number of Samples								
	1	2	3	4	CS	6	7	8	9	10	WR	12	13	14	15	16	17	18	19	20	26	27	28	29	30	21		22	23	24	25				
1	1.85	1.79		1.59	1.95	1.82												1.50			1.84		1.75				1.59					1.52	8		
2							1.89	1.62	1.85	1.75											1.84						1.53	1.85	1.88				6		
3														1.67	1.68	1.65	1.76	1.69		1.68				1.89		1.63							9		
4	1.70			1.71	1.90					1.70									1.72															7	
5												1.95																						4	
6																																		0	
7																																		0	
8	1.81	2.17		1.84	1.95	1.81											1.44							1.73				1.48			1.77	8			
9									2.02	1.59	1.93	1.71	1.58								1.84												7		
10														1.63	1.65	1.77	1.81	1.58								1.76							8		
11	1.70			1.70	1.89					1.76										1.53														7	
12													1.83						1.68															4	
13																																		0	
14																																		0	
15	1.77	1.81		1.75	1.73	1.71											1.52																	8	
16																																		0	
17																				1.63															13
18	1.72			1.87	1.92				1.79	1.89	1.53	1.91								1.52								1.41	1.71	1.54	1.84			6	
19													1.72						1.75															5	
20																																		0	
21																																		0	
22	1.64	1.80		1.92	1.91	1.67												1.63																8	
23									1.90	1.58	1.81	1.83	1.87								1.87							1.58						7	
24														1.93	1.47	1.90	1.93	1.68							1.87		1.69		1.96	1.81				9	
25	1.74			1.74	1.96															1.58						1.58								7	
26																																		3	
27																																			0
28																																			0
29																																			0
30																																			0
31																																			0
<b>Monthly Cl<sub>2</sub> Avg.</b>																											<b>1.77</b>								
<b>Total Samples</b>																											<b>114</b>								



