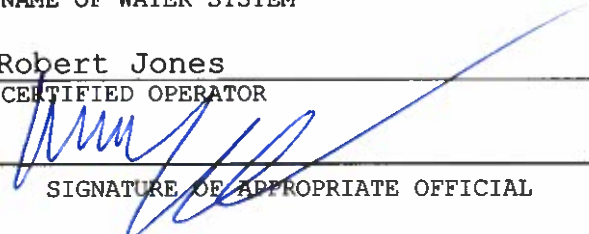


**MONTHLY OPERATION REPORT  
OF  
WATER TREATMENT PLANT**

**For Month of June 2019**

<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
<u></u> SIGNATURE OF APPROPRIATE OFFICIAL		

**TREATMENT RATE AND FILTER DATA**

1. Treatment Rate, Maximum 11.36 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 3775 gal.: Estimated supply 39 days
8. Sodium Hypochlorite on hand at outstations 415 gal: Estimated supply 48 days.
9. Phosphoric Acid on hand 833 gal.: Estimated supply 38 days
9. Sodium Hydroxide on hand 5112 gal.: Estimated supply 37 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**

**June-19**

DATE	Fluoride Applied mg/l	Fluoride Analyses mg/l			Chlorine App. Mg/l		Chlorine Residual mg/l							
		Raw	Tap	Dist	Client App. Mg/l	Chlorine (prior to filtration) mg/L OCT	Post Chlorine mg/L	Sta II	Dort	3MG Well	Tap			
								Free	Free	Free	Free			
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	0.73	0.63		1.06				1.1					1.7	
2	0.64	0.62		1.11				1.0					1.7	
3	0.51	0.78		1.06				1.0					1.7	
4	0.69	0.83		1.15				1.1					1.7	
5	0.32	0.48		1.17				1.1					1.7	
6	0.58	0.58		1.15				1.0					1.6	
7	0.57	0.57		1.11				1.0					1.6	
8	0.55	0.45		1.14				1.0					1.7	
9	0.65	0.67		1.06				1.0					1.7	
10	0.50	0.44		1.23				1.0					1.6	
11	0.70	0.80		1.17				1.0					1.6	
12	0.70	0.69		1.27				1.0					1.6	
13	0.57	0.60		1.19				1.0					1.7	
14	0.64	0.59		1.11				0.9					1.7	
15	0.68	0.69		1.14				1.0					1.8	
16	0.74	0.66		1.09				1.1					1.7	
17	0.72	0.62		1.08				1.0					1.7	
18	0.74	0.68		1.08				1.0					1.7	
19	0.63	0.65		1.07				1.0					1.7	
20	0.59	0.59		1.08				1.0					1.7	
21	0.60	0.59		1.26				0.9					1.7	
22	0.68	0.58		1.14				0.9					1.7	
23	0.65	0.71		1.22				0.9					1.6	
24	0.62	0.64		1.31				0.9					1.7	
25	0.64	0.57		1.27				0.9					1.6	
26	0.87	0.97		1.21				0.9					1.7	
27	0.70	0.68		1.20				0.9					1.6	
28	0.62	0.62		1.20				0.9					1.7	
29	0.61	0.66		1.15				0.8					1.7	
30	0.72	0.68		1.19				0.9					1.7	
31														
AVG				1.15				1.0					1.7	
MAX				1.31				1.1					1.8	
MIN				0.97				0.8					1.6	



Chemical Analyses

WSSN 2310

Jun-19

DATE	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
1	7.30	7.54	104	104	82	82	36	0.00	0.00	27.3	27.3	8.7	8.7	13	13
2	7.43	7.61	102	102	82	82	32	0.01	0.01	28.1	28.1	7.8	7.8	13	13
3	7.41	7.55	104	104	82	82	34	0.01	0.02	28.1	28.1	8.3	8.3	15	15
4	7.34	7.58	100	102	80	82	34	0.04	0.02	26.5	27.3	8.3	8.3	16	15
5	7.38	7.54	100	100	84	84	32	0.00	0.02	27.3	27.3	7.8	7.8	16	16
6	7.29	7.57	100	100	80	80	30	0.03	0.01	28.1	28.1	7.3	7.3	17	17
7	7.26	7.49	102	102	80	80	32	0.02	0.01	28.1	28.1	7.8	7.8	15	15
8	7.30	7.40	106	106	84	84	38	0.01	0.00	27.3	27.3	9.2	9.2	13	13
9	7.40	7.60	104	104	84	84	34	0.04	0.02	28.1	28.1	8.3	8.3	13	13
10	7.30	7.52	104	104	80	80	34	0.05	0.01	28.1	28.1	8.3	8.3	17	17
11	7.36	7.64	102	106	84	86	32	0.02	0.02	28.1	28.1	7.8	8.7	15	16
12	7.12	7.53	102	102	82	82	32	0.01	0.01	28.1	28.1	7.8	7.8	14	14
13	7.30	7.63	104	104	80	80	34	0.02	0.03	28.1	28.1	8.3	8.3	16	16
14	7.29	7.48	104	104	80	80	34	0.01	0.02	28.1	28.1	8.3	8.3	15	15
15	7.30	7.67	102	102	80	80	34	0.02	0.02	27.3	27.3	8.3	8.3	16	16
16	7.39	7.46	100	100	84	84	30	0.02	0.00	28.1	28.1	7.3	7.3	16	16
17	7.44	7.59	102	102	82	82	32	0.01	0.00	28.1	28.1	7.8	7.8	16	16
18	7.34	7.51	100	104	80	82	32	0.02	0.01	27.3	28.1	7.8	8.3	15	15
19	7.37	7.41	104	104	84	84	34	0.03	0.03	28.1	28.1	8.3	8.3	14	14
20	7.37	7.62	102	102	84	84	32	0.03	0.01	28.1	28.1	7.8	7.8	16	16
21	7.36	7.61	106	106	80	80	36	0.02	0.02	28.1	28.1	8.7	8.7	16	16
22	7.29	7.61	104	104	84	84	34	0.02	0.02	28.1	28.1	8.3	8.3	16	16
23	7.27	7.49	106	106	84	84	38	0.06	0.04	27.3	27.3	9.3	9.3	17	17
24	7.41	7.64	104	104	82	82	32	0.01	0.00	28.9	28.9	7.8	7.8	16	16
25	7.28	7.56	102	104	80	80	30	0.02	0.03	28.9	27.3	7.3	8.7	16	17
26	7.36	7.44	106	106	80	80	38	0.01	0.02	27.3	27.3	9.2	9.2	17	17
27	7.23	7.56	104	104	88	88	34	0.02	0.03	28.1	28.1	8.3	8.3	17	17
28	7.43	7.47	104	104	86	86	34	0.01	0.01	28.1	28.1	8.3	8.3	15	15
29	7.29	7.52	106	106	84	84	34	0.04	0.01	28.9	28.9	8.3	8.3	17	17
30	7.46	7.60	104	104	88	88	34	0.00	0.00	28.1	28.1	8.3	8.3	13	13
31															
AVG	7.34	7.55	104	104	83	83	34	0.02	0.02	27.9	27.9	8.3	8.3	15	15
MAX	7.46	7.67	106	106	88	88	38	0.04	0.04	28.9	28.9	9.3	9.3	17.0	17.0
MIN	7.12	7.40	100	100	80	80	30	0.00	0.00	27.3	27.3	7.3	7.3	13.0	13.0



WSSN 2310 Jun-19

DATE	Total Coliform					Standard Plate Count	Conductivity (ms)	Temp deg C	Color			Odor			
	Plant Tap								Raw Tap	Raw Tap	Raw Tap	Raw Tap			
	60	61	Dort 62	3MG Well 63	Sa II 64								Lab Tap 65	66	67
1						2/0	0.23	10.8							
2						2/0	0.23	11.0							
3						2/0	0.23	10.6							
4						2/0	0.23	11.1							
5						2/0	0.23	11.3							
6						2/0	0.22	11.4							
7						2/0	0.22	11.7							
8						2/0	0.23	11.7							
9						2/0	0.23	12.0							
10						2/0	0.22	12.4							
11						2/0	0.22	11.8							
12						2/0	0.23	12.4							
13						2/0	0.23	12.6							
14						2/0	0.23	12.7							
15						2/0	0.23	12.9							
16						2/0	0.23	12.6							
17						2/0	0.23	12.8							
18						2/0	0.23	12.9							
19						2/0	0.23	12.9							
20						2/0	0.23	13.3							
21						2/0	0.23	13.5							
22						2/0	0.24	13.7							
23						2/0	0.24	13.4							
24						2/0	0.24	13.6							
25						2/0	0.23	13.6							
26						2/0	0.24	13.8							
27						2/0	0.24	13.7							
28						2/0	0.24	13.9							
29						2/0	0.24	14.6							
30						2/0	0.24	14.7							
31															
AVG							0.23	12.6							
MAX							0.24	14.7							
MIN							0.22	10.6							



Distribution System Monitoring WSSN 2310

Jun-19

Free Chlorine Residual at Bacteriological Monitoring Stations mg/l

D A T E	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																																	0		
2																																	0		
3	1.47	1.61	1.41	0.97	1.79	1.28																											8		
4							1.43	1.66	1.25	1.50	1.47		0.96																				8		
5														1.49	1.22	1.45	1.44	1.06	0.64														8		
6	1.19	1.58	1.43	1.42	1.50																												8		
7																																	6		
8																																	0		
9																																	0		
10	1.26	1.52	1.44	1.38	1.74	1.21																											8		
11							1.34	1.63	1.10	1.55	1.38	0.76	0.92																				9		
12																																		8	
13	1.28	1.65		1.05	1.51																												7		
14																																		6	
15																																		0	
16																																		0	
17	1.13	1.62	1.40	1.32	1.72	1.40																												8	
18							1.18	1.32	1.46	1.58	1.34	0.60	0.99																					9	
19																																		7	
20	1.18	1.53		1.36	1.70																													7	
21																																		6	
22																																			0
23																																			0
24	1.22	1.53	1.13	1.29	1.59	1.28																													8
25							1.00	1.61	1.45	1.52	1.26	1.26	0.93																					9	
26																																			8
27	1.16	1.55		1.34	1.65																														7
28																																			6
29																																			0
30																																			0
31																																			0
Monthly Cl <sub>2</sub> Avg.																										1.33									
Total Samples																										132									



