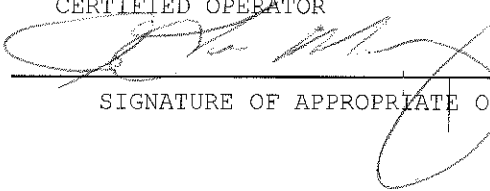


**MONTHLY OPERATION REPORT
OF
WATER TREATMENT PLANT**

For Month of June 2016

<u>Flint Water Plant</u>	<u>2310</u>	<u>Genesee</u>
NAME OF WATER SYSTEM	WSSN	COUNTY
<u>JoLisa McDay</u>		<u>F-1</u>
CERTIFIED OPERATOR		CLASSIFICATION
		
SIGNATURE OF APPROPRIATE OFFICIAL		

TREATMENT RATE AND FILTER DATA

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

CHEMICAL DATA

7. Chlorine on hand ___ lbs.: Estimated supply ___ days
8. Lime (CaO) on hand ___ lbs.: Estimated supply ___ days
9. Alum (Al3+) on hand ___ lbs.: Estimated supply ___ days
10. Cost of All Chemicals per Million Gallons
11. Total Power Cost per Million Gallons

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

Jun-16

D A T E	Fluoride Applied F mg/l	Fluoride Analyses mg/l			Chlorine App. Mg/l			Chlorine Residual mg/l							
					Chlorine App. Mg/l	Chlorine (prior to filtration) mg/L OCI ⁻	Post Chlorine mg/L	Sta II	Dort	3MG Well	Tap				
		Raw	Tap	Dist							Free	Free	Free	Free	
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
1			0.66						0.9						0.8
2			0.65						1.0						1.0
3			0.67						1.0						0.9
4			0.67						0.9						0.8
5			0.69						0.8						0.9
6			0.70						0.9						0.9
7			0.73						0.9						0.9
8			0.80						0.9						0.8
9			0.78						1.0						0.9
10			0.75						0.9						0.8
11			0.91						0.8						0.8
12			0.85						0.7						0.8
13			0.91			0.29			0.9						0.9
14			0.89			0.29			1.0						1.1
15			0.90			0.30			0.9						1.0
16			0.91			0.30			0.8						0.9
17			0.91			0.29			0.9						1.0
18			0.87			0.29			0.8						0.9
19			0.85			0.29			0.9						1.0
20			0.83			0.29			0.7						0.9
21			0.83			0.28			1.0						1.1
22			0.81			0.29			1.0						1.0
23			0.81			0.30			0.9						1.0
24			0.80			0.28			0.9						1.1
25			0.77			0.29			0.9						1.1
26			0.80			0.29			0.8						1.0
27			0.82			0.30			0.8						0.9
28			0.78			0.29			0.9						0.8
29			0.79			0.29			0.9						1.0
30			0.77			0.30			0.9						1.0
AVG			0.80			0.29			0.9						0.9
MAX			0.91			0.30			1.0						1.1
MIN			0.65			0.28			0.7						0.8



Chemical Analyses

WSSN 2310

Jun-16

D A T E	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	
	CSII	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
1	7.49	7.27		100		72		28		0.02		32.1		4.9		12
2	7.47	7.34		100		70		30		0.01		32.1		4.9		11
3	7.33	7.18		98		70		28		0.01		32.9		3.9		11
4	7.46	7.32		100		72		28		0.01		35.3		2.9		11
5	7.49	7.33		100		70		30		0.02		32.9		4.4		12
6	7.46	7.31		100		72		28		0.01		32.9		4.4		11
7	7.41	7.30		100		70		30		0.02		33.7		3.9		12
8	7.40	7.27		100		72		28		0.02		29.7		6.3		12
9	7.45	7.31		104		72		32		0.01		30.5		6.8		12
10	7.37	7.26		102		70		32		0.03		28.9		7.3		11
11	7.41	7.31		100		72		28		0.02		30.5		5.8		11
12	7.41	7.28		100		72		28		0.04		32.1		4.9		14
13	7.54	7.34		106		76		30		0.05		34.5		4.9		14
14	7.38	7.29		104		76		28		0.02		30.5		6.8		14
15	7.38	7.28		106		74		32		0.02		35.3		4.4		14
16	7.42	7.29		106		76		30		0.03		35.3		4.4		14
17	7.39	7.29		104		76		28		0.03		31.3		6.3		14
18	7.45	7.27		104		76		28		0.03		35.3		3.9		13
19	7.43	7.29		104		74		30		0.02		34.5		4.4		14
20	7.40	7.31		102		74		28		0.05		36.1		2.9		12
21	7.39	7.31		102		76		26		0.04		31.3		5.8		12
22	7.43	7.30		102		74		28		0.03		34.5		3.9		13
23	7.47	7.33		102		72		30		0.02		36.1		2.9		13
24	7.48	7.41		98		75		23		0.02		32.9		3.9		12
25	7.46	7.37		104		74		30		0.02		32.9		5.3		12
26	7.53	7.34		102		72		30		0.02		36.1		2.9		13
27	7.52	7.35		104		74		30		0.03		32.9		4.4		13
28	7.44	7.33		102		70		32		0.02		33.7		4.4		12
29	7.43	7.31		102		74		28		0.02		35.3		3.4		13
30	7.45	7.35		100		74		26		0.03		32.9		4.4		13
AVG	7.44	7.31		102		73		29		0.02		33.2		4.7		13
MAX	7.54	7.41		106		76		32		0.05		36.1		7.3		14.0
MIN	7.33	7.18		98		70		23		0.01		28.9		2.9		11.0



WSSN 2310

Jun-16

D A T E	Total Coliform						66	Standard Plate Count		Conductivity (mS)	Temp deg.C	Color		Odor	
	Plant Tap							Raw	Tap			71	72	73	74
			Dort	3MG Well	Sta II	Lab Tap									
	60	61	62	63	64	65									
1					2/0	2/0			0.19	12.5					
2					2/0	2/0			0.18	12.7					
3					2/0	2/0			0.19	12.8					
4					2/0	2/0			0.19	12.7					
5					2/0	2/0			0.19	13.7					
6					2/0	2/0			0.19	13.9					
7					2/0	2/0		< 2	0.20	13.5					
8					2/0	2/0			0.21	13.9					
9					2/0	2/0			0.20	13.3					
10					2/0	2/0			0.20	14.3					
11					2/0	2/0			0.20	13.9					
12					2/0	2/0			0.21	15.9					
13					2/0	2/0			0.22	15.0					
14					2/0	2/0			0.22	15.3					
15					2/0	2/0		< 2	0.22	15.7					
16				2/0	2/0	2/0			0.22	16.5					
17					2/0	2/0			0.22	15.8					
18					2/0	2/0			0.22	16.2					
19				2/0	2/0	2/0			0.22	16.1					
20					2/0	2/0			0.22	18.0					
21					2/0	2/0			0.22	16.6					
22					2/0	2/0		< 2	0.21	16.8					
23					2/0	2/0			0.22	16.6					
24					2/0	2/0			0.21	16.3					
25					2/0	2/0			0.21	16.4					
26					2/0	2/0			0.21	16.1					
27					2/0	2/0			0.21	17.1					
28					2/0	2/0		< 2	0.21	17.9					
29					2/0	2/0			0.21	17.2					
30					2/0	2/0			0.21	16.8					
AVG									0.21	15.3					
MAX									0.22	18.0					
MIN									0.18	12.5					



Distribution System Monitoring WSSN 2310 Jun-16

D A T E	Free Chlorine Residual at Bacteriological Monitoring Stations mg/l										Number of Samples
	1	2	3	4	5	6	7	8	CS	WR	
1	0.81	0.57	0.72	0.89	0.68	0.20	0.73	0.76	0.97	2.68	10
2	0.79	0.77	0.77	0.63	0.49	0.26	0.67	0.81	2.35	0.81	10
3											0
4											0
5											0
6											0
7	0.80	0.34	0.63	0.59	0.56	0.20	0.71	0.81	1.42	0.92	10
8	0.83	0.71	0.81	0.62	0.59	0.21	0.67	0.85	1.09	1.91	10
9	0.84	0.85	0.82	0.72	0.64	0.28	0.73	0.92	1.75	0.92	0
10											0
11											0
12											0
13											0
14	0.94	0.97	0.91	0.81	0.75	0.25	0.86	0.97	2.62	0.99	10
15	1.06	1.00	0.94	0.83	0.81	0.29	0.90	0.88	1.08	1.06	10
16	0.85	0.74	0.75	0.67	0.60	0.28	0.73	0.93	0.98	2.20	10
17											0
18											0
19											0
20											0
21	0.77	0.90	0.94	0.69	0.72	0.20	0.88	1.03	1.14	0.92	10
22	0.98	0.99	0.90	0.69	1.07	0.55	0.86	1.05	0.91	1.48	10
23	0.95	0.92	0.92	0.74	0.89	0.44	0.84	1.00	0.92	1.35	10
24											0
25											0
26											0
27											0
28	0.85	0.79	0.75	0.68	0.52	0.22	0.73	0.89	0.93	0.75	10
29	0.94	0.87	0.86	0.69	0.59	0.24	0.82	0.88	0.87	0.84	10
30	1.01	0.80	0.86	0.64	0.60	0.25	0.83	0.91	0.79	0.84	10
Monthly Cl₂ Avg.				0.840							
Total Samples				140							



Distribution System Monitoring WSSN 2310 Jun-16

DATE	Total Chlorine Residual at Bacteriological Monitoring Stations mg/l										Number of Samples
	1	2	3	4	5	6	7	8	CS	WR	
1	0.92	0.67	0.81	1.04	0.79	0.31	0.85	0.91	1.05	2.90	10
2	0.94	0.89	0.91	0.77	0.70	0.36	0.87	0.99	2.51	1.03	10
3											0
4											0
5											0
6											0
7	0.90	0.44	0.79	0.75	0.66	0.28	0.82	1.01	1.50	1.03	10
8	0.93	0.83	0.89	0.85	0.75	0.29	0.84	0.98	1.26	2.04	10
9	1.03	0.99	0.95	0.88	0.73	0.38	0.85	1.01	1.89	1.05	10
10											0
11											0
12											0
13											0
14	1.07	1.05	1.06	0.92	0.91	0.35	0.97	1.08	2.73	1.09	10
15	1.19	1.10	1.05	0.97	0.89	0.39	1.05	1.12	1.27	1.18	10
16	1.04	0.91	0.92	0.87	0.70	0.39	0.91	1.05	1.15	2.51	10
17											0
18											0
19											0
20											0
21	1.15	0.98	1.03	0.86	0.80	0.28	1.01	1.19	1.46	1.04	10
22	1.16	1.04	0.98	0.81	1.24	0.66	0.96	1.14	1.04	1.57	10
23	1.13	1.00	1.04	0.83	0.98	0.56	1.00	1.21	1.07	1.51	10
24											0
25											0
26											0
27											0
28	0.98	0.96	0.90	0.89	0.68	0.34	0.87	1.07	1.05	0.87	10
29	1.06	1.07	0.99	0.89	0.71	0.33	0.90	1.07	1.06	0.97	10
30	1.13	0.97	1.05	0.86	0.78	0.36	0.99	1.20	0.98	0.94	10
Monthly Cl₂ Avg.				0.981							
Total Samples				140							

