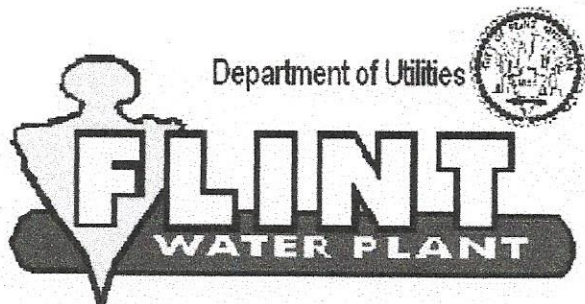


The City of Flint and F&V Operations and Resource Management are submitting the following report(s) to Michigan Department of Environment, Great Lakes and Energy:

Water Quality Monitoring 1st Quarter 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."

F&V Operations Representative: Kirk Teus

Signature: [Signature] Date: 4-1-2020

F&V Operations Representative: Robert Jones

Signature: [Signature] Date: 4/1/2020



1ST QUARTER WATER QUALITY PARAMETER MONITORING

01/01/20 - 03/31/20

SAMPLE POINT IDENTIFICATION				PARAMETERS AND RESULTS												
Distribution System Location #	Sample Point Address	Name & # of Samples Taken		Temperature (°C)	Conductivity (mS)	pH (su)	Total Alkalinity (mg/L CaCO ₃)	Calcium (mg/L Ca ₂)	Hardness (mg/L CaCO ₃)	Turbidity (NTU)	Iron (mg/L)	Chloride (mg/L Cl ⁻)	Phosphate (mg/L PO ₄)	Sulfate (mg/L SO ₄)	Free Chlorine (ppm)	Total Chlorine (ppm)
1	University Market 2501 Flushing Rd	26	MIN	5.6	0.224	7.40	80	20.1	96	0.02	0.00	13	3.24	14	1.18	1.43
			MAX	9.1	0.246	7.89	88	29.9	108	0.23	0.09	16	3.63	22	1.52	1.78
			AVG	7.0	0.233	7.63	84	27.4	102	0.11	0.03	15	3.44	18	1.40	1.60
2	Yen Fu Chinese Gourmet 1621 Saginaw St	13	MIN	5.6	0.220	7.42	84	27.3	100	0.07	0.01	14	3.41	16	1.40	1.76
			MAX	9.2	0.245	7.87	86	30.5	102	0.09	0.04	16	3.60	21	1.72	2.02
			AVG	7.5	0.229	7.69	85	28.6	101	0.08	0.03	15	3.51	19	1.64	1.87
3	Palace Liquor Store 3609 Beecher	13	MIN	5.0	0.200	7.35	84	27.3	100	0.11	0.01	14	3.40	14	1.16	1.73
			MAX	8.1	0.245	7.86	86	28.1	104	0.15	0.03	16	3.57	22	1.63	1.91
			AVG	6.8	0.229	7.61	85	27.6	103	0.13	0.02	15	3.51	18	1.49	1.80
4	Rite-Aid 3521 Corunna	26	MIN	5.1	0.221	7.23	80	25.7	96	0.06	0.00	13	3.38	15	1.32	1.60
			MAX	11.5	0.245	7.89	88	28.9	120	0.16	0.04	16	3.64	23	1.63	1.97
			AVG	7.3	0.231	7.59	83	27.8	102	0.10	0.02	15	3.49	19	1.51	1.76
5	Cedar St Reservoir 1100 Cedar	26	MIN	6.4	0.222	7.31	78	25.7	96	0.04	0.00	13	3.38	8	1.42	1.64
			MAX	9.2	0.253	7.89	86	28.9	112	0.18	0.04	16	3.65	24	1.86	2.05
			AVG	7.8	0.232	7.59	83	27.4	101	0.11	0.02	15	3.51	18	1.68	1.93
6	Dean T. Yeotis Law 611 W. Court St Ste 200	12	MIN	7.2	0.223	7.41	84	26.5	98	0.11	0.02	14	3.42	13	1.41	1.66
			MAX	10.5	0.249	7.88	84	28.9	100	0.14	0.03	15	3.52	19	1.63	1.87
			AVG	8.7	0.231	7.64	84	27.8	99	0.12	0.02	15	3.47	16	1.52	1.79
7	Foss Avenue Church 1159 Foss Ave	11	MIN	5.3	0.226	7.44	86	27.3	100	0.10	0.01	14	3.39	17	0.92	1.12
			MAX	14.2	0.244	7.86	88	28.1	100	0.21	0.10	15	3.45	20	1.69	1.89
			AVG	10.6	0.234	7.67	87	27.8	100	0.17	0.06	14	3.43	18	1.27	1.45
8	North Flint Automotive 6204 N Saginaw St	13	MIN	9.3	0.223	7.32	80	24.8	98	0.01	0.00	13	3.31	13	1.59	1.81
			MAX	13.8	0.244	7.88	88	28.9	102	0.14	0.03	17	3.75	26	1.80	2.01
			AVG	10.7	0.229	7.56	83	27.4	100	0.07	0.01	15	3.54	19	1.67	1.89
9	Rite-Aid 5018 Clio Rd	13	MIN	9.1	0.226	7.33	80	24.8	94	0.05	0.00	13	3.35	16	1.11	1.37
			MAX	11.6	0.299	7.87	84	29.7	104	0.16	0.03	16	3.65	26	1.70	1.87
			AVG	10.3	0.238	7.55	83	27.3	100	0.09	0.01	15	3.48	20	1.37	1.59
10	Auto Zone 4090 Clio Rd	13	MIN	5.2	0.224	7.44	80	27.3	100	0.06	0.00	13	3.38	17	1.48	1.80
			MAX	8.4	0.246	7.89	86	28.1	100	0.07	0.02	16	3.60	19	1.76	1.96
			AVG	6.7	0.232	7.65	83	27.6	100	0.07	0.01	15	3.51	18	1.64	1.89
11	Westside Reservoir 1416 Dupont St	5	MIN	9.8	0.228	7.60	80	25.7	98	0.11	0.04	15	3.24	16	0.95	1.18
			MAX	10.8	0.236	7.87	86	28.9	102	0.58	0.11	16	3.39	21	1.11	1.37
			AVG	10.3	0.232	7.69	83	27.8	100	0.26	0.06	16	3.33	18	1.08	1.27
12	Woodside Church 503 Garland St	13	MIN	4.9	0.226	7.43	82	25.7	100	0.08	0.00	14	3.30	13	1.15	1.37
			MAX	8.5	0.244	7.89	88	28.9	108	0.22	0.04	16	3.50	22	1.36	1.57
			AVG	6.8	0.232	7.67	85	27.6	102	0.13	0.02	15	3.41	18	1.25	1.47
13	Grandma's Recipes 3538 Richfield Rd	11	MIN	8.1	0.227	7.33	82	27.3	1	0.08	0.03	13	3.40	16	1.23	1.38
			MAX	11.7	0.248	7.84	86	34.5	102	0.21	0.04	15	3.61	25	1.70	1.93
			AVG	9.5	0.235	7.58	84	30.0	68	0.12	0.03	14	3.49	20	1.57	1.74
14	Admiral Gas 3802 Davison Rd	12	MIN	6.6	0.226	7.43	80	25.7	1	0.05	0.00	12	3.27	15	1.05	1.28
			MAX	10.5	0.249	7.86	90	28.1	106	0.33	0.04	16	3.56	23	1.71	1.88
			AVG	7.9	0.232	7.59	84	27.4	93	0.11	0.02	15	3.44	18	1.43	1.66
15	Luigi's Restaurant 2131 Davison Rd	11	MIN	6.1	0.225	7.44	82	26.5	100	0.07	0.02	12	3.38	16	1.16	1.60
			MAX	9.6	0.240	7.88	84	28.1	110	0.13	0.02	15	3.56	21	1.60	1.81
			AVG	7.8	0.231	7.64	83	27.3	104	0.09	0.02	14	3.50	18	1.43	1.71
16	Rite-Aid 2838 E. Court St	26	MIN	4.2	0.223	7.38	80	24.8	96	0.04	0.00	13	3.36	15	1.27	1.74
			MAX	8.8	0.245	7.89	88	32.1	110	0.21	0.04	16	3.73	24	1.78	2.00
			AVG	6.1	0.231	7.56	84	28.1	102	0.09	0.02	15	3.54	19	1.63	1.89
17	Liquor Palace 3302 S Dort Hwy	26	MIN	5.2	0.223	7.23	80	23.3	94	0.04	0.00	13	3.35	14	1.30	1.77
			MAX	9.2	0.244	7.88	90	28.9	108	0.90	0.08	16	3.85	25	1.77	2.00
			AVG	6.7	0.231	7.57	84	27.6	101	0.14	0.02	14	3.55	19	1.61	1.89
18	Rite-Aid 3717 Fenton Rd	11	MIN	5.8	0.221	7.31	84	26.5	98	0.06	0.01	14	3.39	16	1.35	1.60
			MAX	10.0	0.246	7.83	84	28.1	102	0.24	0.03	16	3.50	20	1.59	1.85
			AVG	7.8	0.232	7.54	84	27.6	99	0.12	0.02	15	3.46	18	1.48	1.73
19	Neighborhood Engagement Hub 3216 MLK Blvd	21	MIN	6.6	0.222	7.34	80	25.6	96	0.07	0.01	13	3.19	15	1.03	1.22
			MAX	10.9	0.245	7.89	88	29.7	118	0.28	0.09	16	3.64	23	1.45	1.73
			AVG	8.6	0.231	7.65	84	27.8	102	0.12	0.04	15	3.41	19	1.32	1.53
20	Fire House #3 1525 MLK Blvd	13	MIN	6.0	0.222	7.32	82	27.3	98	0.09	0.02	13	3.46	16	1.06	1.25
			MAX	11.3	0.249	7.89	86	28.9	102	0.14	0.08	16	3.49	23	1.62	1.75
			AVG	8.5	0.232	7.62	85	28.1	100	0.11	0.04	15	3.48	19	1.34	1.51
21	Don's Market 510 Leota Ave	10	MIN	6.1	0.222	7.50	82	25.7	100	0.10	0.00	14	3.49	16	1.24	1.61
			MAX	10.0	0.238	7.89	84	28.9	106	0.13	0.02	16	3.62	24	1.55	1.75
			AVG	8.4	0.228	7.74	83	27.3	103	0.11	0.01	15	3.56	20	1.46	1.70
22	Hasselbring Senior Center 1002 W Home St	13	MIN	5.7	0.226	7.43	82	28.1	92	0.07	0.01	13	3.41	17	1.22	1.47
			MAX	11.1	0.247	7.88	88	28.1	102	0.09	0.05	16	3.47	20	1.55	1.86
			AVG	8.3	0.232	7.64	85	28.1	98	0.08	0.03	15	3.44	19	1.42	1.64
23	Sam's Market 4612 Western Rd	10	MIN	5.0	0.218	7.27	72	25.7	94	0.10	0.00	12	3.52	17	1.66	1.83
			MAX	7.8	0.249	7.71	86	28.9	108	0.33	0.02	15	3.87	24	1.85	2.05
			AVG	6.4	0.232	7.55	81	27.3	102	0.21	0.01	14	3.69	20	1.76	1.97
24	Genesee Community Health 3109 Kleinpell St	10	MIN	6.5	0.224	7.41	84	26.5	102	0.08	0.01	13	3.35	16	1.30	1.46
			MAX	10.6	0.250	7.86	86	28.1	110	0.12	0.04	15	3.60	20	1.57	1.83
			AVG	9.1	0.231	7.62	85	27.0	105	0.10	0.03	14	3.50	18	1.46	1.67
25	Fire House #5 3402 Western Rd	13	MIN	5.6	0.225	7.40	82	26.5	100	0.10	0.00	13	3.43	16	1.10	1.56
			MAX	11.8	0.246	7.89	88	28.9	104	0.89	0.05	15	4.25	21	1.69	1.87
			AVG	8.3	0.233											