

CITY OF BALTIMORE  
DEPARTMENT OF PUBLIC WORKS  
ASHBURTON WATER QUALITY LABORATORY  
BUREAU OF WATER AND WASTEWATER, ENVIRONMENTAL SERVICES

**MINERAL ANALYSES FORM**

**2019**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	AVE	MIN	MAX
pH, Units	7.74	7.57	7.63	7.77	7.95	7.64	7.78	7.83	7.50	7.83	7.58	7.60	7.80	7.16	8.00
ALKALINITY, mg/L	38	36	33	33	34	34	37	39	37	43	44	44	48	44	44
VOL.SOLIDS OR L.O.I.*	51.0	48.0	38.0	48.8	50.0	45.8	38.2	42.0	43.4	36.4	36.2	49.0	43.9	36.2	51.0
E <sup>-</sup> TOTAL SOLIDS, mg/L	155.0	149.0	144.4	157.6	166.0	159.2	157.2	160.4	159.4	152.0	150.6	149.2	155.0	144.4	166.0
TURBIDITY, NTU	0.11	0.12	0.13	0.15	0.12	0.11	0.12	0.12	0.16	0.10	0.14	0.14	0.08	0.06	0.16
HARDNESS, mg/L	74.2	72.1	71.6	73.4	72.6	74.2	74.9	77.3	77.3	77.6	73.6	78.8	83.0	80.0	89.0
CALCIUM, mg/L	21.4	19.7	18.5	19.2	19.6	20.0	20.3	20.9	20.6	23.5	22.8	21.2	20.6	18.5	23.5
MAGNESIUM, mg/L	5.35	5.55	5.51	5.47	5.43	5.48	5.26	5.67	5.27	5.88	6.05	5.59	5.54	5.26	6.05
SILICA, mg/L	6.05	5.24	5.90	6.10	5.86	5.86	6.14	6.15	6.56	5.51	5.64	5.76	5.90	5.24	6.56
ALUMINUM, mg/L	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
SODIUM, mg/L	15.3	16.6	18.4	20.4	20.5	20.7	20.9	21.6	19.0	21.0	19.3	18.5	19.4	15.3	21.6
POTASSIUM, mg/L	1.86	2.00	1.72	1.16	1.14	1.15	1.96	2.18	2.03	2.05	1.81	2.05	1.76	1.14	2.18
NITRATES, mg/L	2.12	2.25	2.51	2.82	2.87	2.78	2.68	2.77	2.63	2.34	2.14	1.72	2.47	1.72	2.87
NITRITES, mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SULFATES, mg/L	15.44	15.48	13.76	15.46	15.19	14.35	13.98	13.55	13.75	13.99	13.06	11.89	14.2	11.9	15.48
CHLORIDES, mg/L	34.77	34.18	37.56	41.28	41.03	40.53	40.80	40.78	39.47	39.29	39.44	39.11	39	34	41.28
FLUORIDE, mg/L	0.74	0.56	0.59	0.66	0.65	0.63	0.68	0.69	0.70	0.75	0.70	0.63	0.67	0.56	0.75
IRON, mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01
MANGANESE, mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PHOSPHATE, mg/L	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
CONDUCTIVITY, µS	256.90	247.70	255.80	269.60	270.20	272.10	274.10	278.30	277.70	274.80	273.50	270.70	268	248	278
RAW TEMP., °F	43.7	41.0	42.8	48.4	50.4	49.6	49.2	50.3	55.1	55.7	55.6	49.3	49.3	41.0	55.7

AMMONIA, mg/L	<0.01	<0.01	<0.01	0.006	0.013	<0.01	<0.01	0.022	<0.01	0.009	0.017	<0.01	<0.01	<0.01	<0.01
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E\* - Estimated \* - volatile solids Not Available\*\* - micromhos/crr All results are in mg/L unless noted.

Note\*

\*\*\*- Averaged values from MOR