

**DISINFECTION BY-PRODUCTS RESULTS (2019)**

Water Utility Towers, Reservoirs, and Pump Stations

DISINFECTION BY-PRODUCTS	MAXIMUM	UNITS	#106	#106	#120	#120	#228	#228	#229	#229	#229	#229
			3/11	7/15	3/11	7/15	3/11	7/15	1/16	4/16	7/16	10/15
Bromodichloromethane	4.7	ppb	0.38	1.3	ND	0.30	0.3	0.9	2.6	2.2	4.7	2.8
Bromoform	2.5	ppb	0.79	2.5	ND	ND	<0.21	0.21	0.41	0.36	0.6	0.59
Chloroform	4.6	ppb	ND	0.43	ND	0.33	0.28	0.63	2.5	1.9	4.6	2.2
Dibromochloromethane	3.5	ppb	0.87	2.8	ND	0.25	0.3	0.82	2.0	1.7	3.5	2.4
<b>Total Trihalomethanes (TTHM)</b>	<b>13.4</b>	<b>ppb</b>	<b>2.0</b>	<b>7.0</b>	<b>0.0</b>	<b>0.9</b>	<b>1.0</b>	<b>2.5</b>	<b>7.5</b>	<b>6.2</b>	<b>13.4</b>	<b>8.0</b>
Dibromoacetic acid	0.9	ppb	NS	NS	NS	NS	NS	NS	0.60	0.59	0.65	0.86
Dichloroacetic acid	1.4	ppb	NS	NS	NS	NS	NS	NS	1.4	1.1	1.2	1.0
Monobromoacetic acid	0.0	ppb	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND
Monochloroacetic acid	0.0	ppb	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND
Trichloroacetic acid	0.72	ppb	NS	NS	NS	NS	NS	NS	0.51	0.58	0.72	0.48
<b>Total Haloacetic Acid (HAA5)</b>	<b>2.6</b>	<b>ppb</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>2.5</b>	<b>2.3</b>	<b>2.6</b>	<b>2.3</b>

DISINFECTION BY-PRODUCTS	MAXIMUM	UNITS	Isthmus Engineering & Manufacturing			
			1/16	4/16	7/16	10/15
Bromodichloromethane	1.4	ppb	0.89	0.58	0.77	1.4
Bromoform	0.3	ppb	0.28	ND	ND	ND
Chloroform	1.5	ppb	0.84	0.67	0.57	1.5
Dibromochloromethane	0.9	ppb	0.85	0.35	0.53	0.76
<b>Total Trihalomethanes (TTHM)</b>	<b>3.7</b>	<b>ppb</b>	<b>2.9</b>	<b>1.6</b>	<b>1.9</b>	<b>3.7</b>
Dibromoacetic acid	0.4	ppb	0.23	ND	ND	0.24
Dichloroacetic acid	0.9	ppb	0.62	0.48	0.23	0.84
Monobromoacetic acid	0.0	ppb	ND	ND	ND	ND
Monochloroacetic acid	0.0	ppb	ND	ND	ND	ND
Trichloroacetic acid	0.6	ppb	ND	ND	ND	0.23
<b>Total Haloacetic Acid (HAA5)</b>	<b>1.9</b>	<b>ppb</b>	<b>0.9</b>	<b>0.5</b>	<b>0.2</b>	<b>1.3</b>
Bromochloroacetic acid	0.9	ppb				
Bromodichloroacetic acid	0.6	ppb				
Chlorodibromoacetic acid	0.5	ppb				
Tribromoacetic acid	0.0	ppb				
<b>Total Haloacetic Acid (HAA9)</b>	<b>3.8</b>	<b>ppb</b>				

IEM	#229
2/21	2/21
NS	NS
NS	NS
NS	NS
NS	NS
<b>NS</b>	<b>NS</b>
ND	0.37
ND	0.94
ND	ND
ND	ND
ND	0.56
<b>0.0</b>	<b>1.9</b>
ND	0.91
ND	0.59
ND	0.45
ND	ND
<b>0.0</b>	<b>3.8</b>

ND = not detected  
 NS = not sampled  
 ppb = parts per billion, or micrograms/liter (ug/L)