

Appendix 3 – Sampling Site Datasheets

The information on the water treatment facilities and on the treatment processes was provided by plant personnel at the time of the survey (see Appendix 1 questionnaire). The treatment process for each treatment plant is summarized as a general sequence of operations; there will be some variation in the treatment process throughout the year in response to changes in raw water quality.

Water Treatment Facility Information and Data Sheet

Municipality: Calgary, AB
 Raw Water Source: Glenmore Reservoir (lake)
 Water Treatment Process: screening – chlorine – fluoridation – flocculation (alum) – sedimentation – filtration (multi-media) – filtration (sand) – chlorine

Water Type:		Winter (Mar 23 '93)			Summer (Aug 23 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.5	16.7	9.1	0.5	33.4	41.9
Bromodichloromethane	(µg/L)	<0.1	1.5	<1.4	<0.1	<1.9	2.2
Chlorodibromomethane	(µg/L)	<0.1	0.2	0.3	<0.1	0.4	0.6
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.1	0.3
Total Trihalomethanes	(µg/L)	0.5	18.3	10.8	0.5	35.7	45.0
Monochloroacetic acid	(µg/L)	0.91	1.55	0.65	1.13	2.97	2.26
Dichloroacetic acid	(µg/L)	0.23	16.51	6.03	0.69	26.26	25.14
Trichloroacetic acid	(µg/L)	0.21	59.78	21.69	0.19	55.79	109.17
Monobromoacetic acid	(µg/L)	0.15	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	0.05	0.04	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	4.1	1.6	<0.1	3.1	4.1
Bromochloroacetonitrile	(µg/L)	<0.1	0.3	0.2	<0.1	0.3	0.3
Dibromoacetonitrile	(µg/L)	<0.1	0.2	0.2	<0.1	0.2	0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.5	0.2	<0.1	0.4	0.4
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.4	0.8	<0.1	2.5	2.9
Chloral Hydrate	(µg/L)	<0.1	6.0	3.1	<0.1	4.6	6.3
Chloropicrin	(µg/L)	<0.1	0.4	0.1	<0.1	0.3	0.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	0.007
Total Organic Carbon	(mg/L)	1.9	1.5	0.8	2.4	1.9	2.0
Total Organic Halides	(µg/L)	6	127	49	<5	135	171

Water Treatment Facility Information and Data Sheet

Municipality: Edmonton, AB
 Raw Water Source: North Saskatchewan (river)
 Water Treatment Process: screening – flocculation (alum) – flocculation (lime) – sedimentation – chlorine dioxide – chloramine – fluoridation – filtration (multi-media)

Water Type:		Winter (Mar 22 '93)			Summer (Aug 16 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.5	1.0	1.0	0.3	2.7	2.7
Bromodichloromethane	(µg/L)	<0.1	0.2	0.2	<0.1	0.7	0.8
Chlorodibromomethane	(µg/L)	<0.1	0.3	0.2	<0.1	0.9	0.9
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.9	1.0
Total Trihalomethanes	(µg/L)	0.5	1.4	1.5	0.3	5.1	5.3
Monochloroacetic acid	(µg/L)	1.41	0.35	0.95	0.34	0.87	1.70
Dichloroacetic acid	(µg/L)	0.23	1.25	1.17	0.57	6.68	7.60
Trichloroacetic acid	(µg/L)	0.15	0.50	0.50	0.16	2.07	1.94
Monobromoacetic acid	(µg/L)	<0.01	<0.01	0.08	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.2	0.2	<0.1	0.5	0.5
Bromochloroacetonitrile	(µg/L)	<0.1	0.6	0.3	<0.1	0.5	0.6
Dibromoacetonitrile	(µg/L)	<0.1	0.2	0.2	<0.1	0.4	0.4
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.3	0.3	<0.1	1.2	1.2
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.1	0.1
Chloral Hydrate	(µg/L)	<0.1	0.1	0.2	<0.1	0.4	0.4
Chloropicrin	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.2	0.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002
Total Organic Carbon	(mg/L)	1.0	0.8	0.9	NA	2.0	1.9
Total Organic Halides	(µg/L)	3	8	7	<5	27	20

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Lethbridge, AB
 Raw Water Source: Oldman (river)
 Water Treatment Process: screening – flocculation (alum) – sedimentation – chlorine – filtration (multi-media) – fluoridation – chloramine

Water Type:		Winter (Mar 17 '93)			Summer (Aug 18 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.5	0.6	3.0	0.5	3.5	4.1
Bromodichloromethane	(µg/L)	<0.1	<0.1	0.6	<0.1	0.6	0.6
Chlorodibromomethane	(µg/L)	<0.1	<0.1	0.2	<0.1	0.3	0.4
Bromoform	(µg/L)	<0.1	<0.1	0.1	<0.1	0.3	0.6
Total Trihalomethanes	(µg/L)	0.5	0.6	3.9	0.5	4.7	5.7
Monochloroacetic acid	(µg/L)	1.04	2.04	2.19	0.82	1.19	1.33
Dichloroacetic acid	(µg/L)	0.36	3.46	2.43	0.44	5.27	5.90
Trichloroacetic acid	(µg/L)	0.29	1.90	2.80	0.27	3.54	2.16
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.02	0.02	0.03	<0.01	<0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	<0.1	0.8	<0.1	0.7	1.0
Bromochloroacetonitrile	(µg/L)	<0.1	<0.1	0.4	<0.1	0.4	0.5
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	0.3	<0.1	0.2	0.2
1,1-Dichloro-2-propanone	(µg/L)	<0.1	<0.1	1.4	<0.1	1.3	1.5
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	<0.1	0.3	<0.1	0.4	0.2
Chloral Hydrate	(µg/L)	<0.1	<0.1	0.6	<0.1	0.6	0.5
Chloropicrin	(µg/L)	<0.1	<0.1	0.2	<0.1	0.2	0.5
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	NA	<0.002	0.022
Total Organic Carbon	(mg/L)	2.5	1.9	2.2	NA	2.7	2.5
Total Organic Halides	(µg/L)	<5	15	26	NA	37	41

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Red Deer, AB
 Raw Water Source: Red Deer (river)
 Water Treatment Process: screening – carbon adsorption (as required) – flocculation (alum) – flocculation (lime) – sedimentation – chlorine – pH adjustment – fluoridation – filtration (multi-media) – chloramine

Water Type:		Winter (Mar 22 '93)			Summer (Aug 17 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.6	13.4	16.6	0.3	22.8	27.0
Bromodichloromethane	(µg/L)	<0.1	1.8	1.7	<0.1	1.6	1.4
Chlorodibromomethane	(µg/L)	<0.1	0.7	0.6	<0.1	0.5	0.3
Bromoform	(µg/L)	<0.1	0.6	0.5	<0.1	0.6	0.2
Total Trihalomethanes	(µg/L)	0.6	16.5	19.4	0.3	25.6	28.9
Monochloroacetic acid	(µg/L)	0.51	2.50	2.40	0.65	1.59	1.27
Dichloroacetic acid	(µg/L)	0.16	19.08	16.24	0.51	11.92	10.61
Trichloroacetic acid	(µg/L)	0.18	26.05	26.89	0.23	35.54	31.94
Monobromoacetic acid	(µg/L)	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.02	0.04	0.04	<0.01	<0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	2.6	3.0	<0.1	3.4	3.4
Bromochloroacetonitrile	(µg/L)	<0.1	0.5	0.5	<0.1	0.3	0.4
Dibromoacetonitrile	(µg/L)	<0.1	0.2	0.3	<0.1	0.3	0.4
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.8	0.8	<0.1	0.8	1.3
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.3	1.1	<0.1	2.1	1.7
Chloral Hydrate	(µg/L)	<0.1	2.0	1.9	<0.1	3.4	3.3
Chloropicrin	(µg/L)	<0.1	0.4	0.5	<0.1	0.3	0.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	NA	0.009	<0.002
Total Organic Carbon	(mg/L)	3.1	2.0	2.0	NA	NA	NA
Total Organic Halides	(µg/L)	<5	77	88	NA	108	102

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Chilliwack, BC
 Raw Water Source: Wells and creeks
 Water Treatment Process: screening – chlorine

Water Type:		Winter (Mar 18 '93)			Summer (Aug 11 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.5	4.6	14.7	0.3	11.0	17.8
Bromodichloromethane	(µg/L)	<0.1	0.3	0.9	<0.1	1.4	1.4
Chlorodibromomethane	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.3	0.1
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.5	4.9	15.5	0.3	12.7	19.3
Monochloroacetic acid	(µg/L)	0.25	2.26	1.24	1.33	0.72	2.81
Dichloroacetic acid	(µg/L)	0.17	5.04	6.72	1.79	5.50	18.89
Trichloroacetic acid	(µg/L)	0.10	6.01	10.57	<0.01	18.82	42.99
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	0.01	<0.01	<0.01	0.03	0.03
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.5	0.8	<0.1	0.6	1.0
Bromochloroacetonitrile	(µg/L)	<0.1	0.1	<0.1	<0.1	0.2	0.2
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.9	0.4	<0.1	0.2	0.2
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.6	0.7	<0.1	0.6	0.8
Chloral Hydrate	(µg/L)	<0.1	0.4	1.2	<0.1	1.3	2.0
Chloropicrin	(µg/L)	<0.1	0.2	0.4	<0.1	0.1	0.2
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002
Total Organic Carbon	(mg/L)	1.6	1.7	0.8	0.6	0.4	0.6
Total Organic Halides	(µg/L)	<5	44	44	5	42	62

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Kamloops, BC
 Raw Water Source: South Thompson (river)
 Water Treatment Process: screening – chlorine – fluoridation

Water Type:		Winter (Mar 19 '93)			Summer (Sep 30 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.8	13.1	37.8	0.3	15.5	27.4
Bromodichloromethane	(µg/L)	<0.1	0.3	1.2	<0.1	1.0	1.9
Chlorodibromomethane	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.4	0.4
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.2	1.7
Total Trihalomethanes	(µg/L)	0.8	13.4	39.1	0.3	17.2	31.4
Monochloroacetic acid	(µg/L)	1.36	1.64	1.23	1.20	2.00	1.03
Dichloroacetic acid	(µg/L)	0.20	5.54	1.25	0.52	12.50	13.95
Trichloroacetic acid	(µg/L)	0.21	10.73	21.19	0.08	13.65	26.91
Monobromoacetic acid	(µg/L)	<0.01	0.14	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.2	1.5	<0.1	1.9	2.3
Bromochloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.2	0.4
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.2	0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.3	0.6	<0.1	1.0	0.9
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.5	0.7	<0.1	2.5	3.2
Chloral Hydrate	(µg/L)	<0.1	0.4	<0.1	<0.1	4.0	5.8
Chloropicrin	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.2	0.2
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002
Total Organic Carbon	(mg/L)	1.8	1.4	1.2	<1.1	<1.9	1.9
Total Organic Halides	(µg/L)	<5	52	85	NA	40	73

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Nanaimo, BC
 Raw Water Source: South Fork (reservoir) and Jump (lake)
 Water Treatment Process: screening – chlorine

Water Type:		Winter (Mar 25 '93)			Summer (Aug 12 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	4.5	19.1	0.2	5.8	28.1
Bromodichloromethane	(µg/L)	<0.1	0.5	1.1	<0.1	1.7	5.2
Chlorodibromomethane	(µg/L)	<0.1	0.1	<0.1	<0.1	0.6	0.5
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
Total Trihalomethanes	(µg/L)	0.3	5.1	20.2	0.2	8.4	33.8
Monochloroacetic acid	(µg/L)	0.28	1.53	1.95	0.76	4.23	3.20
Dichloroacetic acid	(µg/L)	0.24	13.58	8.60	1.03	19.45	44.76
Trichloroacetic acid	(µg/L)	0.20	12.97	55.06	0.26	11.60	78.80
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Dibromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	0.01	0.07
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.3	0.7	<0.1	0.8	2.9
Bromochloroacetonitrile	(µg/L)	<0.1	0.1	<0.1	<0.1	0.3	0.4
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.8	0.7	<0.1	1.0	0.8
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.1	2.0	<0.1	1.0	2.6
Chloral Hydrate	(µg/L)	<0.1	0.7	2.5	<0.1	1.2	5.3
Chloropicrin	(µg/L)	<0.1	0.1	0.2	<0.1	0.1	0.2
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	0.006	<0.002
Total Organic Carbon	(mg/L)	1.9	1.9	1.7	NA	1.2	1.1
Total Organic Halides	(µg/L)	<5	39	106	NA	51	124

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Penticton, BC
 Raw Water Source: Okanagan (lake)
 Water Treatment Process: screening – chlorine

Water Type:		Winter (Mar 19 '93)			Summer (Aug 10 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	NA	9.4	21.1	NA	3.6	12.8
Bromodichloromethane	(µg/L)	NA	0.9	2.9	NA	1.1	2.9
Chlorodibromomethane	(µg/L)	NA	<0.1	0.2	NA	0.4	0.3
Bromoform	(µg/L)	NA	<0.1	<0.1	NA	0.3	0.1
Total Trihalomethanes	(µg/L)	NA	10.3	24.2	NA	5.4	16.1
Monochloroacetic acid	(µg/L)	NA	1.33	1.99	NA	1.16	1.27
Dichloroacetic acid	(µg/L)	NA	2.72	6.66	NA	3.73	10.39
Trichloroacetic acid	(µg/L)	NA	4.71	15.27	NA	5.81	15.75
Monobromoacetic acid	(µg/L)	NA	<0.01	<0.01	NA	0.11	<0.01
Dibromoacetic acid	(µg/L)	NA	<0.01	<0.01	NA	0.08	0.03
Trichloroacetonitrile	(µg/L)	NA	<0.1	<0.1	NA	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	NA	0.2	0.5	NA	0.7	1.3
Bromochloroacetonitrile	(µg/L)	NA	<0.1	<0.1	NA	0.4	0.3
Dibromoacetonitrile	(µg/L)	NA	<0.1	<0.1	NA	0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	NA	0.2	0.4	NA	0.7	0.6
1,1,1-Trichloro-2-propanone	(µg/L)	NA	<0.1	<0.1	NA	0.6	1.0
Chloral Hydrate	(µg/L)	NA	0.2	0.6	NA	0.4	1.0
Chloropicrin	(µg/L)	NA	<0.1	<0.1	NA	<0.1	<0.1
Bromide ion	(mg/L)	NA	<0.01	<0.01	NA	<0.002	<0.002
Total Organic Carbon	(mg/L)	NA	2.9	2.8	NA	3.1	3.3
Total Organic Halides	(µg/L)	NA	18	68	NA	41	72

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Vancouver, BC
 Raw Water Source: Seymour (lake)
 Water Treatment Process: screening – chlorine

Water Type:		Winter (Mar 18 '93)			Summer (Aug 11 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.4	4.2	15.4	0.2	3.6	24.7
Bromodichloromethane	(µg/L)	<0.1	0.3	0.5	<0.1	0.5	0.8
Chlorodibromomethane	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
Total Trihalomethanes	(µg/L)	0.4	4.4	15.9	0.2	4.6	25.5
Monochloroacetic acid	(µg/L)	0.78	1.20	2.09	1.53	2.02	1.85
Dichloroacetic acid	(µg/L)	0.25	7.07	20.64	1.15	14.14	18.99
Trichloroacetic acid	(µg/L)	0.15	7.74	43.40	0.16	8.38	21.70
Monobromoacetic acid	(µg/L)	<0.01	0.09	0.10	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.5	0.9	<0.1	0.3	1.4
Bromochloroacetonitrile	(µg/L)	<0.1	0.1	<0.1	<0.1	0.3	<0.1
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.4	1.3	<0.1	1.0	1.2
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.0	2.3	<0.1	1.7	2.4
Chloral Hydrate	(µg/L)	<0.1	0.7	2.3	<0.1	0.8	2.7
Chloropicrin	(µg/L)	<0.1	0.1	0.2	<0.1	0.1	0.2
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	NA	<0.002	<0.002
Total Organic Carbon	(mg/L)	1.3	1.4	1.4	1.4	1.5	1.4
Total Organic Halides	(µg/L)	<5	31	67	NA	59	116

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Victoria, BC
 Raw Water Source: Sooke (lake) and Goldstream (river)
 Water Treatment Process: screening – chloramine

Water Type:		Winter (Mar 25 '93)			Summer (Aug 12 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.4	2.7	3.0	0.4	2.4	3.6
Bromodichloromethane	(µg/L)	<0.1	0.5	0.5	<0.1	0.4	0.6
Chlorodibromomethane	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.1	0.1
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.4	3.3	3.5	0.4	2.9	4.2
Monochloroacetic acid	(µg/L)	1.02	1.37	4.26	0.72	1.46	3.07
Dichloroacetic acid	(µg/L)	0.32	8.32	13.02	0.88	7.75	12.35
Trichloroacetic acid	(µg/L)	0.14	5.17	5.00	0.25	3.33	3.45
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.3	0.4	<0.1	0.4	0.4
Bromochloroacetonitrile	(µg/L)	<0.1	0.2	0.2	<0.1	0.2	0.2
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.0	1.2	<0.1	1.8	1.9
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.6	0.6	<0.1	0.4	0.5
Chloral Hydrate	(µg/L)	<0.1	0.5	0.5	<0.1	0.3	0.3
Chloropicrin	(µg/L)	<0.1	0.2	0.2	<0.1	<0.1	<0.1
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	0.006	0.008
Total Organic Carbon	(mg/L)	2.2	2.1	2.3	NA	2.1	2.1
Total Organic Halides	(µg/L)	6	33	33	6	28	41

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Letellier, MB
 Raw Water Source: Red (river)
 Water Treatment Process: screening – flocculation (alum) – carbon adsorption – flocculation (lime) – sedimentation – filtration (multi-media) – fluoridation – chlorine

Water Type:		Winter (Mar 10 '93)			Summer (Aug 31 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	11.3	12.9	0.4	38.2	44.5
Bromodichloromethane	(µg/L)	<0.1	14.4	16.7	<0.1	20.5	23.6
Chlorodibromomethane	(µg/L)	<0.1	8.4	9.0	<0.1	6.1	6.5
Bromoform	(µg/L)	<0.1	1.4	1.3	<0.1	0.1	0.2
Total Trihalomethanes	(µg/L)	0.3	35.4	39.8	0.4	64.9	74.7
Monochloroacetic acid	(µg/L)	0.85	4.02	3.20	0.78	3.99	2.61
Dichloroacetic acid	(µg/L)	0.18	7.23	7.77	0.73	36.49	36.36
Trichloroacetic acid	(µg/L)	0.19	13.40	15.00	0.14	63.58	68.67
Monobromoacetic acid	(µg/L)	<0.01	7.66	9.22	<0.01	2.30	1.85
Dibromoacetic acid	(µg/L)	0.01	1.30	1.85	0.01	1.26	1.31
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	3.2	3.6	<0.1	7.3	7.9
Bromochloroacetonitrile	(µg/L)	<0.1	2.4	2.4	<0.1	3.7	3.7
Dibromoacetonitrile	(µg/L)	<0.1	1.7	1.5	<0.1	0.8	0.9
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.7	0.8	<0.1	0.7	0.7
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.6	1.8	<0.1	4.9	5.9
Chloral Hydrate	(µg/L)	<0.1	2.2	2.3	<0.1	7.5	10.5
Chloropicrin	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.1	0.2
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	0.061	0.022	0.025
Total Organic Carbon	(mg/L)	9.8	5.7	5.9	NA	4.5	4.6
Total Organic Halides	(µg/L)	11	92	111	NA	210	242

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Portage-La-Prairie, MB
 Raw Water Source: Assiniboine (river)
 Water Treatment Process: screening – potassium permanganate – chlorine dioxide (when required) – ozone – flocculation (lime) – sedimentation – pH adjustment – filtration (sand) – fluoridation – chlorine

Water Type:		Winter (Mar 11 '93)			Summer (Aug 30 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	1.4	2.8	4.3	0.6	27.1	53.5
Bromodichloromethane	(µg/L)	<0.1	1.1	2.8	0.2	19.9	29.8
Chlorodibromomethane	(µg/L)	<0.1	0.8	2.3	0.1	12.4	19.8
Bromoform	(µg/L)	<0.1	0.7	1.9	<0.1	1.7	2.7
Total Trihalomethanes	(µg/L)	1.4	5.5	11.2	0.8	61.2	105.8
Monochloroacetic acid	(µg/L)	0.34	0.37	1.91	0.75	2.59	2.29
Dichloroacetic acid	(µg/L)	0.20	2.71	4.84	0.68	22.57	21.99
Trichloroacetic acid	(µg/L)	0.36	0.71	1.47	0.20	21.58	46.27
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	0.29	1.27
Dibromoacetic acid	(µg/L)	<0.01	0.18	0.54	0.02	1.02	1.90
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.6	0.7	<0.1	4.1	4.9
Bromochloroacetonitrile	(µg/L)	<0.1	1.2	1.6	<0.1	2.9	3.4
Dibromoacetonitrile	(µg/L)	<0.1	0.4	1.0	<0.1	1.2	1.4
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.2	1.2	<0.1	1.3	1.0
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.2	0.3	<0.1	2.6	1.8
Chloral Hydrate	(µg/L)	<0.1	0.2	0.6	<0.1	3.4	7.0
Chloropicrin	(µg/L)	<0.1	0.1	0.2	<0.1	0.6	0.9
Bromide ion	(mg/L)	0.2	0.2	0.2	0.069	0.027	0.031
Total Organic Carbon	(mg/L)	6.6	4.7	4.3	8.5	5.9	5.1
Total Organic Halides	(µg/L)	7	39	65	NA	225	87

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Selkirk, MB
 Raw Water Source: Red (river)
 Water Treatment Process: chlorine – flocculation (lime) – flocculation (polymer) – pH adjustment – chlorine – filtration (sand)

Water Type:		Winter (Mar 9 '93)			Summer (Sep 1 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.4	0.5	0.5	0.3	0.3	0.4
Bromodichloromethane	(µg/L)	<0.1	0.6	0.7	<0.1	0.2	0.1
Chlorodibromomethane	(µg/L)	<0.1	1.4	1.5	<0.1	0.3	0.2
Bromoform	(µg/L)	<0.1	3.1	3.3	<0.1	0.8	0.2
Total Trihalomethanes	(µg/L)	0.4	5.6	5.9	0.3	1.6	0.9
Monochloroacetic acid	(µg/L)	1.02	0.40	0.57	0.73	0.68	0.84
Dichloroacetic acid	(µg/L)	0.20	0.26	0.31	0.59	0.71	0.71
Trichloroacetic acid	(µg/L)	0.05	0.09	0.12	0.05	0.04	0.11
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	0.10	<0.01	0.03
Dibromoacetic acid	(µg/L)	0.01	0.54	0.81	0.02	0.06	0.05
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.1	0.1	<0.1	<0.1	<0.1
Bromochloroacetonitrile	(µg/L)	<0.1	0.6	0.6	<0.1	0.3	0.2
Dibromoacetonitrile	(µg/L)	<0.1	1.1	1.2	<0.1	0.3	0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloral Hydrate	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloropicrin	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromide ion	(mg/L)	0.50	0.40	0.50	0.07	0.32	0.49
Total Organic Carbon	(mg/L)	1.2	0.7	0.7	1.7	1.2	1.3
Total Organic Halides	(µg/L)	7	6	11	NA	8	23

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Whitemouth, MB
 Raw Water Source: Winnipeg (river)
 Water Treatment Process: sedimentation – chlorine

Water Type:		Winter (Mar 10 '93)			Summer (Sep 1 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	2.1	64.0	216.2	0.4	114.1	335.9
Bromodichloromethane	(µg/L)	0.1	3.4	5.0	<0.1	3.6	6.5
Chlorodibromomethane	(µg/L)	<0.1	0.6	<0.1	<0.1	0.1	<0.1
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	2.1	67.9	221.1	0.4	117.8	342.4
Monochloroacetic acid	(µg/L)	3.07	7.54	5.33	1.18	6.51	4.50
Dichloroacetic acid	(µg/L)	5.11	45.35	19.60	0.73	163.34	98.01
Trichloroacetic acid	(µg/L)	13.74	131.67	473.06	0.16	273.16	146.17
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	0.12
Dibromoacetic acid	(µg/L)	0.01	<0.01	<0.01	0.02	0.02	0.02
Trichloroacetonitrile	(µg/L)	<0.1	0.3	0.2	<0.1	0.2	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	6.8	10.4	<0.1	9.0	0.5
Bromochloroacetonitrile	(µg/L)	<0.1	1.5	<0.1	<0.1	0.6	<0.1
Dibromoacetonitrile	(µg/L)	<0.1	0.9	<0.1	<0.1	0.5	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	2.6	2.2	<0.1	2.1	2.1
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	7.6	10.1	<0.1	9.1	4.0
Chloral Hydrate	(µg/L)	<0.1	8.5	9.4	<0.1	11.7	1.7
Chloropicrin	(µg/L)	<0.1	0.6	0.1	<0.1	0.4	<0.1
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002
Total Organic Carbon	(mg/L)	9.3	9.2	8.9	NA	8.1	9.5
Total Organic Halides	(µg/L)	69	396	572	NA	473	609

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Winnipeg, MB
 Water Source: Shoal (lake)
 Water Treatment Process: screening – fluoridation – chlorine – chlorine

Water Type:		Winter (Mar 15 '93)			Summer (Sep 2 '93)		
		System 1	System 2	System 3	System 1	System 2	System 3
Chloroform	(µg/L)	48.1	50.2	61.4	127.5	131.3	143.4
Bromodichloromethane	(µg/L)	4.6	4.9	5.5	6.9	7.2	8.0
Chlorodibromomethane	(µg/L)	0.1	0.3	0.2	0.2	0.4	0.4
Bromoform	(µg/L)	<0.1	0.1	<0.1	<0.1	0.1	<0.1
Total Trihalomethanes	(µg/L)	52.8	55.5	67.1	134.7	139.0	151.7
Monochloroacetic acid	(µg/L)	1.39	1.86	3.04	4.27	1.11	1.79
Dichloroacetic acid	(µg/L)	10.23	12.45	11.92	49.05	11.51	15.32
Trichloroacetic acid	(µg/L)	66.20	72.57	92.39	296.06	186.29	128.55
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	0.21	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	0.04	0.03	0.03
Trichloroacetonitrile	(µg/L)	0.1	0.1	0.2	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	5.4	5.8	7.4	15.0	12.5	12.6
Bromochloroacetonitrile	(µg/L)	0.3	0.6	0.4	0.6	0.7	0.5
Dibromoacetonitrile	(µg/L)	<0.1	0.2	0.2	<0.1	0.2	<0.1
1,1-Dichloro-2-propanone	(µg/L)	2.1	1.8	1.7	0.7	1.7	0.9
1,1,1-Trichloro-2-propanone	(µg/L)	3.6	4.1	4.7	9.3	4.1	5.3
Chloral Hydrate	(µg/L)	2.9	3.8	5.2	28.3	4.9	8.2
Chloropicrin	(µg/L)	0.1	0.1	0.2	0.3	0.3	0.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002
Total Organic Carbon	(mg/L)	7.7	7.5	7.4	NA	7.1	7.6
Total Organic Halides	(µg/L)	233	190	225	NA	276	395

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Fredericton, NB
 Raw Water Source: (well)
 Water Treatment Process: chlorine – pH adjustment – sulphur dioxide – pressure filtration (multi-media)

Water Type:		Winter (Feb 23 '93)			Summer (Sep 20 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	5.7	17.4	0.3	9.6	57.6
Bromodichloromethane	(µg/L)	<0.1	1.4	3.8	<0.1	2.1	5.8
Chlorodibromomethane	(µg/L)	<0.1	0.3	0.6	<0.1	0.4	0.5
Bromoform	(µg/L)	<0.1	0.1	<0.1	<0.1	0.2	<0.1
Total Trihalomethanes	(µg/L)	0.3	7.5	21.8	0.3	12.3	63.9
Monochloroacetic acid	(µg/L)	0.96	1.80	1.92	1.83	1.22	6.51
Dichloroacetic acid	(µg/L)	0.27	4.34	8.55	0.71	7.03	25.88
Trichloroacetic acid	(µg/L)	0.04	3.16	12.93	<0.01	6.40	29.65
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.01	0.04	0.09	<0.01	0.03	0.06
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.8	1.9	<0.1	1.2	2.9
Bromochloroacetonitrile	(µg/L)	<0.1	0.3	0.4	<0.1	0.5	0.7
Dibromoacetonitrile	(µg/L)	<0.1	0.2	0.2	<0.1	0.1	0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.5	0.4	<0.1	0.5	0.3
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.4	1.4	<0.1	0.8	1.6
Chloral Hydrate	(µg/L)	<0.1	0.4	1.4	<0.1	0.9	6.1
Chloropicrin	(µg/L)	<0.1	0.1	0.2	<0.1	0.2	0.5
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	0.003	<0.002
Total Organic Carbon	(mg/L)	1.8	1.7	1.6	NA	<1.8	2.0
Total Organic Halides	(µg/L)	6	30	61	NA	NA	NA

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Moncton, NB
 Raw Water Source: Turtle Creek (reservoir)
 Water Treatment Process: chlorine – fluoridation

Water Type:		Winter (Feb 24 '93)			Summer (Sep 15 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.4	3.3	21.4	0.4	5.7	59.1
Bromodichloromethane	(µg/L)	<0.1	0.7	3.2	<0.1	1.0	5.1
Chlorodibromomethane	(µg/L)	<0.1	0.1	0.2	<0.1	0.1	0.5
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.4	4.1	24.9	0.4	6.8	64.7
Monochloroacetic acid	(µg/L)	0.95	1.77	3.66	0.34	1.55	7.60
Dichloroacetic acid	(µg/L)	0.38	8.13	37.56	0.34	11.70	120.11
Trichloroacetic acid	(µg/L)	0.10	7.67	87.14	0.07	10.51	263.35
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	0.16
Dibromoacetic acid	(µg/L)	0.02	0.03	0.04	<0.01	<0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.7	2.7	<0.1	0.7	6.7
Bromochloroacetonitrile	(µg/L)	<0.1	0.3	0.3	<0.1	0.2	0.5
Dibromoacetonitrile	(µg/L)	<0.1	0.3	0.3	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.7	1.1	<0.1	1.7	1.5
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.7	2.9	<0.1	1.6	7.5
Chloral Hydrate	(µg/L)	<0.1	0.7	3.1	<0.1	1.0	13.3
Chloropicrin	(µg/L)	<0.1	0.2	0.7	<0.1	0.2	0.8
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	0.010	0.010
Total Organic Carbon	(mg/L)	1.1	1.1	1.3	3.1	3.2	2.5
Total Organic Halides	(µg/L)	<5	31	108	12	96	258

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Oromocto, NB
 Raw Water Source: Saint John (river)
 Water Treatment Process: screening – chlorine – flocculation (alum) – sedimentation – filtration (sand) – fluoridation

Water Type:		Winter (Feb 22 '93)			Summer (Sep 20 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.6	31.7	44.6	0.5	116.2	126.0
Bromodichloromethane	(µg/L)	<0.1	2.2	2.4	<0.1	4.4	4.7
Chlorodibromomethane	(µg/L)	<0.1	0.3	<0.1	<0.1	0.3	0.2
Bromoform	(µg/L)	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.6	34.3	46.9	0.5	120.8	130.8
Monochloroacetic acid	(µg/L)	0.31	3.27	2.30	1.06	4.28	1.47
Dichloroacetic acid	(µg/L)	0.24	34.78	28.25	0.52	69.69	9.58
Trichloroacetic acid	(µg/L)	0.97	80.54	66.81	0.23	121.83	59.57
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	0.08	<0.01
Dibromoacetic acid	(µg/L)	0.01	0.03	0.02	<0.01	0.02	0.01
Trichloroacetonitrile	(µg/L)	<0.1	0.1	<0.1	<0.1	0.1	0.1
Dichloroacetonitrile	(µg/L)	<0.1	3.8	4.8	<0.1	6.4	6.6
Bromochloroacetonitrile	(µg/L)	<0.1	0.3	0.2	<0.1	0.3	0.3
Dibromoacetonitrile	(µg/L)	<0.1	0.3	<0.1	<0.1	0.1	0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.3	1.3	<0.1	0.8	0.9
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	3.2	4.5	<0.1	7.3	7.8
Chloral Hydrate	(µg/L)	<0.1	4.4	5.5	<0.1	11.3	11.5
Chloropicrin	(µg/L)	<0.1	0.7	0.7	<0.1	1.0	1.0
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002
Total Organic Carbon	(mg/L)	4.4	2.6	2.5	NA	2.9	2.9
Total Organic Halides	(µg/L)	38	122	156	NA	NA	NA

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Saint John, NB
 Raw Water Source: Latimer (lake)
 Water Treatment Process: screening – chlorine – fluoridation

Water Type:		Winter (Feb 23 '93)			Summer (Sep 16 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.5	5.4	15.6	0.3	6.0	20.1
Bromodichloromethane	(µg/L)	<0.1	0.8	1.8	<0.1	2.0	2.5
Chlorodibromomethane	(µg/L)	<0.1	<0.1	0.1	<0.1	1.7	0.1
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	1.6	<0.1
Total Trihalomethanes	(µg/L)	0.5	6.2	17.5	0.3	11.3	22.7
Monochloroacetic acid	(µg/L)	0.34	2.69	2.88	0.69	1.90	3.15
Dichloroacetic acid	(µg/L)	0.28	14.85	29.81	0.50	15.51	25.80
Trichloroacetic acid	(µg/L)	0.08	11.59	32.86	0.19	11.39	28.02
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.01	0.03	0.02	<0.01	0.02	0.05
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	5.4	1.2	<0.1	0.8	1.3
Bromochloroacetonitrile	(µg/L)	<0.1	0.8	<0.1	<0.1	0.6	0.1
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.6	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	2.1	1.7	<0.1	1.9	1.6
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.3	3.1	<0.1	2.0	3.9
Chloral Hydrate	(µg/L)	<0.1	0.6	1.3	<0.1	0.8	3.6
Chloropicrin	(µg/L)	<0.1	0.2	0.4	<0.1	0.1	0.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	0.005	0.002
Total Organic Carbon	(mg/L)	4.0	4.1	3.9	3.5	3.2	3.1
Total Organic Halides	(µg/L)	9	102	104	15	105	136

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: St. John's, NF
 Raw Water Source: Windsor (lake)
 Water Treatment Process: chlorine – screening – lime

Water Type:		Winter (Feb 15 '93)			Summer (Sep 15 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.6	12.5	7.5	0.6	9.2	13.3
Bromodichloromethane	(µg/L)	<0.1	5.9	3.8	0.2	4.4	5.8
Chlorodibromomethane	(µg/L)	<0.1	1.2	<1.0	<0.1	1.4	1.4
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
Total Trihalomethanes	(µg/L)	0.6	19.7	12.3	0.7	15.3	20.5
Monochloroacetic acid	(µg/L)	1.43	2.52	2.50	0.21	1.02	0.61
Dichloroacetic acid	(µg/L)	1.17	17.95	15.99	1.04	16.14	9.34
Trichloroacetic acid	(µg/L)	0.66	25.06	21.63	0.95	21.96	15.76
Monobromoacetic acid	(µg/L)	<0.01	0.17	0.22	<0.01	0.13	<0.01
Dibromoacetic acid	(µg/L)	0.03	0.27	0.32	0.02	0.27	0.29
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	1.3	0.9	<0.1	1.0	1.4
Bromochloroacetonitrile	(µg/L)	<0.1	0.3	0.5	<0.1	0.4	0.3
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.0	1.0	0.1	<1.0	1.1
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.7	1.7	<0.1	2.5	2.6
Chloral Hydrate	(µg/L)	<0.1	1.8	1.3	<0.1	2.9	2.9
Chloropicrin	(µg/L)	<0.1	0.2	0.1	<0.1	0.1	0.2
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	NA	0.002	0.003
Total Organic Carbon	(mg/L)	1.6	1.7	1.5	1.9	1.4	1.4
Total Organic Halides	(µg/L)	16	170	168	NA	100	112

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: St. John's, NF
 Raw Water Source: Bay Bulls Big Pond (lake)
 Water Treatment Process: filtration (multi-media) – ozone – chloramine

Water Type:		Winter (Feb 15 '93)			Summer (Sep 15 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.4	1.4	2.0	<0.2	2.2	3.7
Bromodichloromethane	(µg/L)	<0.1	0.3	0.4	<0.1	0.3	0.9
Chlorodibromomethane	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.4	1.7	2.4		2.5	4.8
Monochloroacetic acid	(µg/L)	0.97	2.89	2.35	0.25	0.53	0.73
Dichloroacetic acid	(µg/L)	0.68	7.37	4.86	0.39	5.30	2.73
Trichloroacetic acid	(µg/L)	0.13	1.47	1.00	<0.01	1.26	0.73
Monobromoacetic acid	(µg/L)	<0.01	0.10	0.11	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	0.04	0.03	<0.01	<0.01	0.02
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.2	<0.1	<0.1	0.3	<0.1
Bromochloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	2.2	1.1	<0.1	2.4	0.8
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.6	0.5	<0.1	0.5	0.4
Chloral Hydrate	(µg/L)	<0.1	0.4	0.2	<0.1	0.7	0.2
Chloropicrin	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	NA	<0.002	<0.002
Total Organic Carbon	(mg/L)	3.4	3.4	3.1	3.1	2.7	2.3
Total Organic Halides	(µg/L)	25	92	48	NA	23	17

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Dartmouth, NS
 Raw Water Source: Lamont (lake) and Major (lake)
 Water Treatment Process: screening – fluoridation – pH adjustment – chlorine – pgp corrosion inhibitor

Water Type:		Winter (Feb 18 '93)			Summer (Sep 13 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.5	6.8	85.3	0.4	16.2	130.6
Bromodichloromethane	(µg/L)	<0.1	1.1	5.7	<0.1	6.7	9.9
Chlorodibromomethane	(µg/L)	<0.1	0.2	0.2	<0.1	5.0	0.6
Bromoform	(µg/L)	<0.1	0.1	<0.1	<0.1	4.2	<0.1
Total Trihalomethanes	(µg/L)	0.5	8.3	91.2	0.4	32.2	141.0
Monochloroacetic acid	(µg/L)	1.58	4.30	4.45	0.77	0.95	1.46
Dichloroacetic acid	(µg/L)	1.35	21.90	61.91	1.05	16.00	10.78
Trichloroacetic acid	(µg/L)	0.21	29.88	195.61	0.26	24.62	59.97
Monobromoacetic acid	(µg/L)	<0.01	0.12	0.13	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.02	0.04	0.04	<0.01	0.05	0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.7	3.7	<0.1	1.1	3.1
Bromochloroacetonitrile	(µg/L)	<0.1	0.2	<0.1	<0.1	0.9	0.3
Dibromoacetonitrile	(µg/L)	<0.1	0.2	<0.1	<0.1	0.1	0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	3.0	1.8	<0.1	2.6	0.8
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	3.4	9.2	<0.1	4.0	1.0
Chloral Hydrate	(µg/L)	<0.1	1.5	10.8	<0.1	2.3	16.9
Chloropicrin	(µg/L)	<0.1	0.1	0.3	<0.1	0.2	0.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	NA	<0.002	<0.002
Total Organic Carbon	(mg/L)	2.9	2.9	2.6	NA	2.9	2.9
Total Organic Halides	(µg/L)	19	104	230	NA	83	212

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Halifax, NS
 Raw Water Source: Pockwock (lake)
 Water Treatment Process: screening – potassium permanganate – pH adjustment – flocculation (alum) – chlorine – filtration (multi media) – fluoridation – pH adjustment – chlorine

Water Type:		Winter (Feb 26 '93)			Summer (Sep 13 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	7.2	20.7	0.3	33.5	71.3
Bromodichloromethane	(µg/L)	<0.1	2.0	4.0	<0.1	6.1	8.8
Chlorodibromomethane	(µg/L)	<0.1	0.4	0.6	<0.1	1.6	1.0
Bromoform	(µg/L)	<0.1	0.1	<0.1	<0.1	0.3	<0.1
Total Trihalomethanes	(µg/L)	0.3	9.7	25.3	0.3	41.4	81.2
Monochloroacetic acid	(µg/L)	1.14	1.09	1.94	1.13	1.42	1.54
Dichloroacetic acid	(µg/L)	0.56	9.00	15.13	0.46	6.63	3.58
Trichloroacetic acid	(µg/L)	0.09	5.98	14.11	0.13	20.52	25.10
Monobromoacetic acid	(µg/L)	<0.01	<0.01	0.11	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.02	0.06	0.10	<0.01	0.03	0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.7	1.2	<0.1	2.1	1.4
Bromochloroacetonitrile	(µg/L)	<0.1	0.2	0.2	<0.1	0.4	0.3
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.8	0.5	<0.1	1.0	0.6
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.9	3.9	<0.1	5.7	0.4
Chloral Hydrate	(µg/L)	<0.1	1.2	2.8	<0.1	5.5	7.5
Chloropicrin	(µg/L)	<0.1	0.1	0.2	<0.1	0.2	0.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	0.032	<0.002
Total Organic Carbon	(mg/L)	2.3	1.5	1.6	<1.9	1.7	1.7
Total Organic Halides	(µg/L)	7	92	92	9	66	106

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: New Glasgow, NS
 Raw Water Source: Forbes (lake)
 Water Treatment Process: chlorine – screening – aggressiveness control – fluoridation – corrosion control

Water Type:		Winter (Feb 25 '93)			Summer (Sep 14 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.4	18.9	67.8	0.4	43.7	210.7
Bromodichloromethane	(µg/L)	<0.1	3.2	7.3	<0.1	5.0	13.2
Chlorodibromomethane	(µg/L)	<0.1	0.3	0.4	<0.1	1.7	0.6
Bromoform	(µg/L)	<0.1	0.3	0.5	<0.1	1.2	<0.1
Total Trihalomethanes	(µg/L)	0.4	22.8	76.0	0.4	51.6	224.5
Monochloroacetic acid	(µg/L)	1.25	4.52	4.81	1.15	1.57	2.74
Dichloroacetic acid	(µg/L)	0.41	24.93	63.55	0.66	29.53	25.15
Trichloroacetic acid	(µg/L)	0.18	28.62	147.43	0.17	45.53	146.28
Monobromoacetic acid	(µg/L)	<0.01	<0.01	0.08	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.04	0.10	0.11	<0.01	0.04	0.02
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Dichloroacetonitrile	(µg/L)	<0.1	1.8	5.7	<0.1	3.2	5.2
Bromochloroacetonitrile	(µg/L)	<0.1	0.3	0.2	<0.1	0.7	0.4
Dibromoacetonitrile	(µg/L)	<0.1	0.3	<0.1	<0.1	0.2	0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.3	0.9	<0.1	1.6	1.4
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	2.0	5.3	<0.1	3.8	0.7
Chloral Hydrate	(µg/L)	<0.1	2.3	9.6	<0.1	5.5	18.9
Chloropicrin	(µg/L)	<0.1	0.5	1.1	<0.1	0.4	0.9
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	0.006	<0.002	NA
Total Organic Carbon	(mg/L)	2.4	3.1	3.4	NA	3.4	3.5
Total Organic Halides	(µg/L)	<5	96	220	NA	NA	NA

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Truro, NS
 Raw Water Source: Lepper Brook (dam)
 Water Treatment Process: screening – chlorine – flocculation (lime) – flocculation (alum) – sedimentation – filtration (multi-media) – chlorine

Water Type:		Winter (Feb 25 '93)			Summer (Sep 14 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	6.9	34.5	24.3	1.8	110.0	112.2
Bromodichloromethane	(µg/L)	0.3	4.4	3.6	<0.1	8.4	9.8
Chlorodibromomethane	(µg/L)	<0.1	0.4	0.4	<0.1	0.5	0.6
Bromoform	(µg/L)	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	7.2	39.4	28.2	1.8	118.9	122.6
Monochloroacetic acid	(µg/L)	2.58	3.71	2.49	1.68	4.12	3.81
Dichloroacetic acid	(µg/L)	4.07	24.32	17.82	7.04	56.53	36.90
Trichloroacetic acid	(µg/L)	24.96	55.17	43.33	11.61	104.25	89.15
Monobromoacetic acid	(µg/L)	<0.01	<0.01	0.10	<0.01	0.09	<0.01
Dibromoacetic acid	(µg/L)	0.05	0.11	0.12	<0.01	0.06	0.04
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	0.4	2.1	1.9	<0.1	8.5	8.3
Bromochloroacetonitrile	(µg/L)	<0.1	0.2	0.1	<0.1	0.4	0.4
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	0.4	1.1	1.1	<0.1	1.8	1.8
1,1,1-Trichloro-2-propanone	(µg/L)	0.7	2.9	2.5	<0.1	3.5	3.2
Chloral Hydrate	(µg/L)	<0.1	2.0	2.3	<0.1	14.7	15.5
Chloropicrin	(µg/L)	<0.1	0.7	0.6	<0.1	1.1	1.0
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	0.012	0.007	0.009
Total Organic Carbon	(mg/L)	7.0	3.3	3.0	7.1	2.90	3.00
Total Organic Halides	(µg/L)	48	107	93	NA	NA	NA

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Barrie, ON
 Raw Water Source: (well)
 Water Treatment Process: flocculation silicate – chlorine

Water Type:		Winter (Mar 11 '93)			Summer (Aug 5 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	0.8	2.2	0.3	0.5	2.3
Bromodichloromethane	(µg/L)	<0.1	0.8	3.5	<0.1	0.7	3.2
Chlorodibromomethane	(µg/L)	<0.1	0.8	4.9	<0.1	1.0	4.2
Bromoform	(µg/L)	<0.1	0.5	2.4	<0.1	1.2	1.9
Total Trihalomethanes	(µg/L)	0.3	3.0	12.9	0.3	3.4	11.7
Monochloroacetic acid	(µg/L)	1.71	0.95	2.02	1.57	0.70	0.98
Dichloroacetic acid	(µg/L)	0.23	0.40	0.94	1.20	1.57	2.10
Trichloroacetic acid	(µg/L)	0.05	0.25	1.11	0.16	1.12	1.33
Monobromoacetic acid	(µg/L)	<0.01	<0.01	2.11	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	0.12	1.34	<0.01	0.03	0.65
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.1	0.4	<0.1	0.1	0.4
Bromochloroacetonitrile	(µg/L)	<0.1	0.3	0.8	<0.1	0.5	0.8
Dibromoacetonitrile	(µg/L)	<0.1	0.6	1.3	<0.1	0.4	0.6
1,1-Dichloro-2-propanone	(µg/L)	<0.1	<0.1	0.1	<0.1	<0.1	0.1
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	<0.1	0.2	<0.1	<0.1	0.2
Chloral Hydrate	(µg/L)	<0.1	<0.1	0.3	<0.1	<0.1	0.2
Chloropicrin	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	NA	<0.002	0.018
Total Organic Carbon	(mg/L)	0.2	0.2	0.2	0.5	0.9	0.8
Total Organic Halides	(µg/L)	<5	6	12	NA	12	22

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Brantford, ON
 Raw Water Source: Grand (river)
 Water Treatment Process: screening – aeration (winter) – chlorine – sedimentation – flocculation (silica) – ammonia – flocculation (alum) – settling – filtration (multi-media) – fluoridation – chlorine

Water Type:		Winter (Feb 1 '93)			Summer (Sep 28 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	30.2	31.3	0.5	63.4	67.7
Bromodichloromethane	(µg/L)	<0.1	8.3	8.6	<0.1	15.2	15.8
Chlorodibromomethane	(µg/L)	<0.1	1.2	1.2	<0.1	1.5	1.7
Bromoform	(µg/L)	<0.1	0.5	1.0	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.3	40.3	42.1	0.5	80.1	85.2
Monochloroacetic acid	(µg/L)	1.04	3.46	3.25	0.27	2.01	1.73
Dichloroacetic acid	(µg/L)	0.43	23.29	22.60	0.25	27.62	23.76
Trichloroacetic acid	(µg/L)	0.82	66.22	57.87	1.36	85.72	67.76
Monobromoacetic acid	(µg/L)	<0.01	0.09	<0.01	<0.01	0.26	0.05
Dibromoacetic acid	(µg/L)	<0.01	0.23	0.15	<0.01	0.07	0.12
Trichloroacetonitrile	(µg/L)	<0.1	0.1	0.2	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	7.3	7.3	<0.1	11.2	10.7
Bromochloroacetonitrile	(µg/L)	<0.1	1.5	1.6	<0.1	1.8	2.0
Dibromoacetonitrile	(µg/L)	<0.1	0.5	0.6	<0.1	0.2	0.2
1,1-Dichloro-2-propanone	(µg/L)	<0.1	<1.5	<1.6	<0.1	<1.8	1.9
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	2.6	2.6	<0.1	6.4	5.3
Chloral Hydrate	(µg/L)	<0.1	3.0	3.2	<0.1	15.1	13.6
Chloropicrin	(µg/L)	<0.1	0.9	0.9	<0.1	0.9	0.9
Bromide ion	(mg/L)	<0.01	<0.01	0.06	NA	NA	NA
Total Organic Carbon	(mg/L)	1.4	1.4	1.5	3.0	4.6	4.2
Total Organic Halides	(µg/L)	12	279	286	NA	283	218

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Guelph, ON
 Raw Water Source: Eramosa (river) and #22 (well)
 Water Treatment Process: chlorine – aeration – flocculation (poly phosphates)

Water Type:		Winter (Feb 1 '93)			Summer (Sep 21 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.2	0.5	0.6	0.3	1.0	1.2
Bromodichloromethane	(µg/L)	<0.1	0.5	0.6	<0.1	1.6	2.0
Chlorodibromomethane	(µg/L)	<0.1	0.6	0.9	<0.1	2.3	2.9
Bromoform	(µg/L)	<0.1	0.4	0.7	<0.1	1.0	1.1
Total Trihalomethanes	(µg/L)	0.2	2.0	2.8	0.3	5.9	7.3
Monochloroacetic acid	(µg/L)	0.23	0.36	0.61	1.31	0.40	0.51
Dichloroacetic acid	(µg/L)	0.18	0.45	0.39	0.63	0.57	0.69
Trichloroacetic acid	(µg/L)	<0.01	0.11	0.10	0.04	0.18	0.20
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.06	0.40	0.30	0.01	0.45	0.43
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.1	0.1	<0.1	0.1	0.2
Bromochloroacetonitrile	(µg/L)	<0.1	0.1	0.1	<0.1	0.4	0.4
Dibromoacetonitrile	(µg/L)	<0.1	0.2	0.3	<0.1	0.3	0.3
1,1-Dichloro-2-propanone	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloral Hydrate	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloropicrin	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	0.006	0.005
Total Organic Carbon	(mg/L)	2.6	3.8	2.4	1.3	1.0	1.1
Total Organic Halides	(µg/L)	22	10	12	53	21	42

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Kingston, ON
 Raw Water Source: Ontario (lake)
 Water Treatment Process: chlorine screening – flocculation (alum) – sedimentation – filtration
 (multi-media) – sulphur dioxide

Water Type:		Winter (Mar 10 '93)			Summer (Sep 27 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	3.8	14.4	0.4	7.1	11.5
Bromodichloromethane	(µg/L)	<0.1	4.2	8.7	<0.1	7.3	9.6
Chlorodibromomethane	(µg/L)	<0.1	2.6	2.5	<0.1	4.4	5.3
Bromoform	(µg/L)	<0.1	0.3	<0.1	<0.1	0.6	0.7
Total Trihalomethanes	(µg/L)	0.3	10.9	25.6	0.4	19.4	27.2
Monochloroacetic acid	(µg/L)	0.17	0.69	2.26	0.26	0.42	1.57
Dichloroacetic acid	(µg/L)	0.15	2.84	8.34	0.21	1.68	1.64
Trichloroacetic acid	(µg/L)	0.09	4.39	20.36	0.11	2.62	5.16
Monobromoacetic acid	(µg/L)	0.02	<0.01	0.06	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.01	0.49	0.49	<0.01	0.26	0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	1.0	2.6	<0.1	1.7	1.9
Bromochloroacetonitrile	(µg/L)	<0.1	0.6	0.7	<0.1	1.2	1.3
Dibromoacetonitrile	(µg/L)	<0.1	0.3	0.2	<0.1	0.4	0.3
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.4	0.5	<0.1	0.2	0.3
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.5	1.7	<0.1	1.0	0.8
Chloral Hydrate	(µg/L)	<0.1	0.6	3.4	<0.1	2.1	3.0
Chloropicrin	(µg/L)	<0.1	<0.1	0.1	<0.1	<0.1	0.1
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	0.004	0.008
Total Organic Carbon	(mg/L)	1.4	1.2	1.6	NA	2.4	2.2
Total Organic Halides	(µg/L)	<5	28	61	NA	63	40

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Grand Bend, ON (feeding London, ON)
 Raw Water Source: Huron (lake)
 Water Treatment Process: chlorine – screening – flocculation (alum) – sedimentation – filtration
 (multi-media) – chlorine – pH adjustment

Water Type:		Winter (Mar 8 '93)			Summer (Sep 28 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	4.0	6.6	4.3	5.0	7.6
Bromodichloromethane	(µg/L)	<0.1	3.7	5.5	3.0	4.3	5.1
Chlorodibromomethane	(µg/L)	<0.1	1.8	2.5	1.6	2.5	2.7
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	0.4
Total Trihalomethanes	(µg/L)	0.3	9.5	14.5	8.9	11.8	15.8
Monochloroacetic acid	(µg/L)	1.33	3.08	2.20	1.22	0.91	2.01
Dichloroacetic acid	(µg/L)	0.21	3.19	3.85	1.67	3.08	7.88
Trichloroacetic acid	(µg/L)	0.07	3.51	5.89	1.43	2.80	4.50
Monobromoacetic acid	(µg/L)	<0.01	1.87	2.08	<0.01	0.12	0.41
Dibromoacetic acid	(µg/L)	<0.01	0.35	0.42	0.09	0.20	0.35
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.9	1.3	1.3	1.4	1.2
Bromochloroacetonitrile	(µg/L)	<0.1	0.6	0.8	0.4	0.7	0.6
Dibromoacetonitrile	(µg/L)	<0.1	0.3	0.3	<0.1	0.4	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.3	0.3	0.5	0.4	0.3
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.4	0.8	0.8	1.1	1.1
Chloral Hydrate	(µg/L)	<0.1	1.1	1.9	2.6	2.7	3.2
Chloropicrin	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	NA	NA	NA
Total Organic Carbon	(mg/L)	1.7	1.2	1.2	NA	1.4	1.2
Total Organic Halides	(µg/L)	<5	23	23	NA	13	66

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Mississauga, ON
 Raw Water Source: Lakeview Plant, Ontario (lake)
 Water Treatment Process: chlorine – screening – flocculation (alum) – sedimentation – filtration
 (multi-media) – chloramine – fluoridation

Water Type:		Winter (Feb 3 '93)			Summer (Aug 4 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	3.6	4.7	0.4	5.1	5.5
Bromodichloromethane	(µg/L)	<0.1	4.2	5.2	<0.1	5.1	5.4
Chlorodibromomethane	(µg/L)	<0.1	2.7	3.1	<0.1	3.1	3.2
Bromoform	(µg/L)	<0.1	0.8	0.7	<0.1	0.5	0.5
Total Trihalomethanes	(µg/L)	0.3	11.4	13.7	0.4	13.8	14.6
Monochloroacetic acid	(µg/L)	0.71	1.34	1.47	3.20	2.55	1.63
Dichloroacetic acid	(µg/L)	0.35	3.29	3.23	1.90	7.05	4.15
Trichloroacetic acid	(µg/L)	0.17	3.84	3.82	0.43	7.95	3.39
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.02	0.48	0.43	0.01	0.28	0.17
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	1.1	1.3	<0.1	1.5	1.4
Bromochloroacetonitrile	(µg/L)	<0.1	1.1	1.2	<0.1	1.7	1.3
Dibromoacetonitrile	(µg/L)	<0.1	0.7	0.8	<0.1	0.5	0.4
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.3	0.3	<0.1	0.3	0.3
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.4	0.5	<0.1	0.6	0.6
Chloral Hydrate	(µg/L)	<0.1	1.4	0.8	<0.1	3.1	2.5
Chloropicrin	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	NA	0.022	0.025
Total Organic Carbon	(mg/L)	2.3	1.0	1.0	NA	1.9	1.9
Total Organic Halides	(µg/L)	<5	65	74	NA	65	47

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: North Bay, ON
 Raw Water Source: Trout (lake)
 Water Treatment Process: chlorine – screening – fluoridation – pH adjustment

Water Type:		Winter (Mar 15 '93)			Summer (Sep 30 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.4	5.5	7.2	0.5	15.1	14.2
Bromodichloromethane	(µg/L)	<0.1	1.5	1.9	<0.1	2.1	2.1
Chlorodibromomethane	(µg/L)	<0.1	0.7	0.7	<0.1	0.1	0.1
Bromoform	(µg/L)	<0.1	0.6	0.6	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.4	8.3	10.4	0.5	17.3	16.3
Monochloroacetic acid	(µg/L)	0.20	2.31	0.92	0.31	2.34	2.75
Dichloroacetic acid	(µg/L)	0.11	7.77	9.04	0.26	6.48	14.65
Trichloroacetic acid	(µg/L)	0.12	12.80	17.71	0.06	16.27	23.40
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.01	0.02	0.03	<0.01	<0.01	0.02
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.9	1.2	<0.1	1.8	1.9
Bromochloroacetonitrile	(µg/L)	<0.1	0.3	0.3	<0.1	0.1	0.1
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.8	1.0	<0.1	1.2	1.2
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.1	1.3	<0.1	1.9	1.9
Chloral Hydrate	(µg/L)	<0.1	0.5	0.7	<0.1	3.1	2.4
Chloropicrin	(µg/L)	<0.1	0.1	0.2	<0.1	0.3	0.2
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	0.003
Total Organic Carbon	(mg/L)	2.4	2.4	2.3	NA	2.6	2.6
Total Organic Halides	(µg/L)	NA	NA	NA	NA	57	98

NA = Not Analysed

Water Treatment Facility Information and Data Sheet

Municipality: Ottawa, ON
 Raw Water Source: Britannia Plant, Ottawa (river)
 Water Treatment Process: chlorine – flocculation (alum) – sedimentation – filtration (multi-media) – pH adjustment – fluoridation – chloramine

Water Type:		Winter (Feb 25 '93)			Summer (Aug 16 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.6	8.8	10.3	0.4	60.2	60.1
Bromodichloromethane	(µg/L)	<0.1	0.8	0.8	<0.1	3.5	3.4
Chlorodibromomethane	(µg/L)	<0.1	0.1	<0.1	<0.1	0.5	0.4
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.2	0.2
Total Trihalomethanes	(µg/L)	0.6	9.7	11.1	0.4	64.4	64.1
Monochloroacetic acid	(µg/L)	0.63	1.44	2.27	0.49	1.95	1.48
Dichloroacetic acid	(µg/L)	0.45	14.38	16.26	0.27	11.08	10.93
Trichloroacetic acid	(µg/L)	1.48	8.65	11.76	1.86	13.82	14.22
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	0.04	<0.01	<0.01	<0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.6	0.7	<0.1	1.8	1.5
Bromochloroacetonitrile	(µg/L)	<0.1	0.2	0.2	<0.1	0.5	0.7
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.3	0.2
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.4	1.6	<0.1	1.9	1.7
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.1	0.8	<0.1	1.9	1.5
Chloral Hydrate	(µg/L)	<0.1	0.7	0.7	<0.1	4.1	3.7
Chloropicrin	(µg/L)	<0.1	0.2	0.3	<0.1	0.3	0.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	0.002	0.002
Total Organic Carbon	(mg/L)	5.6	2.3	2.2	NA	3.0	3.0
Total Organic Halides	(µg/L)	12	62	57	16	207	112

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Ottawa, ON
 Raw Water Source: Lemieux Island Plant, Ottawa (river)
 Water Treatment Process: chlorine – flocculation (alum) – sedimentation – filtration (multi-media) – pH adjustment – fluoridation – chloramine

Water Type:		Winter (Feb 25 '93)			Summer (Aug 16 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	9.6	9.8	0.4	67.8	67.5
Bromodichloromethane	(µg/L)	<0.1	0.8	0.8	<0.1	3.8	3.8
Chlorodibromomethane	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.6	0.7
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.4	0.4
Total Trihalomethanes	(µg/L)	0.3	10.5	10.7	0.4	72.5	72.4
Monochloroacetic acid	(µg/L)	0.24	1.81	1.41	0.78	2.22	1.48
Dichloroacetic acid	(µg/L)	0.49	14.49	13.88	0.55	16.98	15.25
Trichloroacetic acid	(µg/L)	1.46	10.53	8.93	4.24	85.88	71.53
Monobromoacetic acid	(µg/L)	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	<0.01	0.05	<0.01	<0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.6	0.7	<0.1	2.2	1.4
Bromochloroacetonitrile	(µg/L)	<0.1	0.1	0.2	<0.1	0.7	0.7
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.2	0.2
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.5	1.5	<0.1	2.4	2.1
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.4	1.2	<0.1	0.4	<0.1
Chloral Hydrate	(µg/L)	<0.1	0.9	0.8	<0.1	5.1	5.0
Chloropicrin	(µg/L)	<0.1	0.2	0.2	<0.1	0.3	0.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	NA	0.003	<0.002
Total Organic Carbon	(mg/L)	4.2	3.2	2.7	NA	3.3	3.2
Total Organic Halides	(µg/L)	15	50	44	NA	196	199

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Peterborough, ON
 Raw Water Source: Otonabee (river)
 Water Treatment Process: screening – chlorine – flocculation (alum) – sedimentation – filtration
 (multi-media) – chlorine – fluoridation – pH adjustment

Water Type:		Winter (Mar 9 '93)			Summer (Sep 23 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	31.8	50.2	0.4	66.0	99.6
Bromodichloromethane	(µg/L)	<0.1	3.1	3.6	<0.1	5.0	6.3
Chlorodibromomethane	(µg/L)	<0.1	0.8	0.2	<0.1	0.3	0.2
Bromoform	(µg/L)	<0.1	0.6	<0.1	<0.1	0.1	<0.1
Total Trihalomethanes	(µg/L)	0.3	36.3	54.1	0.4	71.4	106.2
Monochloroacetic acid	(µg/L)	1.37	4.10	3.39	0.48	2.64	1.44
Dichloroacetic acid	(µg/L)	0.17	24.55	26.63	0.37	29.70	9.04
Trichloroacetic acid	(µg/L)	0.10	88.94	103.23	0.08	73.58	171.04
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	0.01	0.01	<0.01	<0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.2	0.1
Dichloroacetonitrile	(µg/L)	<0.1	5.4	7.6	<0.1	6.5	7.6
Bromochloroacetonitrile	(µg/L)	<0.1	0.8	0.5	<0.1	0.8	0.5
Dibromoacetonitrile	(µg/L)	<0.1	0.6	0.3	<0.1	0.2	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.6	2.4	<0.1	1.5	0.9
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	4.3	6.1	<0.1	6.7	5.5
Chloral Hydrate	(µg/L)	<0.1	5.4	9.4	<0.1	11.6	14.2
Chloropicrin	(µg/L)	<0.1	0.5	0.5	<0.1	0.2	0.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	NA	<0.002	<0.002
Total Organic Carbon	(mg/L)	4.7	2.7	2.7	5.5	3.5	4.2
Total Organic Halides	(µg/L)	<5	173	141	NA	207	241

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: St. Catharines, ON
 Raw Water Source: Erie (lake)
 Water Treatment Process: chlorine – screening – carbon adsorption – flocculation (alum) – sedimentation – filtration (multi-media) – chlorine

Water Type:		Winter (Mar 8 '93)			Summer (Sep 22 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.4	3.7	4.1	0.3	5.6	4.7
Bromodichloromethane	(µg/L)	<0.1	3.9	4.4	<0.1	5.3	4.7
Chlorodibromomethane	(µg/L)	<0.1	2.2	2.5	<0.1	2.7	2.5
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.4	0.3
Total Trihalomethanes	(µg/L)	0.4	9.7	11.0	0.3	14.0	12.2
Monochloroacetic acid	(µg/L)	0.88	1.55	0.94	0.48	0.93	0.54
Dichloroacetic acid	(µg/L)	0.19	2.32	2.54	0.52	0.97	1.95
Trichloroacetic acid	(µg/L)	0.30	2.49	3.35	0.22	2.12	12.30
Monobromoacetic acid	(µg/L)	<0.01	1.22	1.03	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	0.42	0.57	<0.01	0.07	0.09
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	1.1	1.2	<0.1	0.8	0.9
Bromochloroacetonitrile	(µg/L)	<0.1	0.7	0.7	<0.1	0.6	0.7
Dibromoacetonitrile	(µg/L)	<0.1	0.3	0.4	<0.1	0.2	0.2
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.4	0.3	<0.1	0.2	0.3
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.6	0.6	<0.1	0.8	0.8
Chloral Hydrate	(µg/L)	<0.1	1.0	1.1	<0.1	1.6	1.5
Chloropicrin	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	0.020	0.004	0.005
Total Organic Carbon	(mg/L)	1.9	1.1	1.3	NA	1.4	1.5
Total Organic Halides	(µg/L)	7	22	53	7	52	55

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Sudbury, ON
 Raw Water Source: Wanapitei (river)
 Water Treatment Process: chlorine dioxide – flocculation (alum) – sedimentation – filtration (multi-media) – fluoridation – chlorine – pH adjustment

Water Type:		Winter (Mar 15 '93)			Summer (Sep 30 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	12.7	16.3	0.4	14.1	22.8
Bromodichloromethane	(µg/L)	<0.1	0.8	0.8	<0.1	1.3	1.8
Chlorodibromomethane	(µg/L)	<0.1	0.3	<0.1	<0.1	0.1	0.1
Bromoform	(µg/L)	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.3	13.9	17.1	0.4	15.5	24.7
Monochloroacetic acid	(µg/L)	0.97	3.53	4.61	0.63	2.49	2.28
Dichloroacetic acid	(µg/L)	0.15	22.51	32.28	0.24	9.39	14.25
Trichloroacetic acid	(µg/L)	0.11	18.84	54.38	0.06	10.48	17.14
Monobromoacetic acid	(µg/L)	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	0.02	0.01	<0.01	<0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.8	1.9	<0.1	2.4	2.6
Bromochloroacetonitrile	(µg/L)	<0.1	0.2	0.1	<0.1	0.2	0.1
Dibromoacetonitrile	(µg/L)	<0.1	0.3	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.6	1.8	<0.1	1.9	1.9
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.5	2.7	<0.1	3.8	4.6
Chloral Hydrate	(µg/L)	<0.1	1.4	3.0	<0.1	4.0	4.8
Chloropicrin	(µg/L)	<0.1	0.2	0.3	<0.1	0.3	0.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	0.003
Total Organic Carbon	(mg/L)	3.5	1.6	1.5	NA	2.2	1.7
Total Organic Halides	(µg/L)	<5	70	100	n/d	69	102

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Toronto, ON
 Raw Water Source: R.L. Clark Plant, Ontario (lake)
 Water Treatment Process: chlorine – screening – flocculation (alum) – sedimentation – filtration
 (multi-media) – fluoridation – chloramine

Water Type:		Winter (Feb 3 '93)			Summer (Aug 4 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.4	2.7	3.1	0.6	4.3	4.6
Bromodichloromethane	(µg/L)	<0.1	3.4	3.9	<0.1	4.6	4.6
Chlorodibromomethane	(µg/L)	<0.1	2.6	2.9	<0.1	3.1	3.0
Bromoform	(µg/L)	<0.1	0.8	0.8	<0.1	0.5	0.5
Total Trihalomethanes	(µg/L)	0.4	9.5	10.7	0.6	12.5	12.6
Monochloroacetic acid	(µg/L)	0.99	1.36	1.24	1.08	1.91	1.22
Dichloroacetic acid	(µg/L)	0.37	3.19	3.81	1.19	9.78	6.28
Trichloroacetic acid	(µg/L)	0.38	3.19	3.79	0.25	2.86	4.71
Monobromoacetic acid	(µg/L)	<0.01	0.04	0.12	<0.01	0.26	0.25
Dibromoacetic acid	(µg/L)	0.17	0.61	0.85	0.02	0.62	0.44
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.9	0.9	<0.1	1.2	1.3
Bromochloroacetonitrile	(µg/L)	<0.1	0.8	0.9	<0.1	1.1	1.0
Dibromoacetonitrile	(µg/L)	<0.1	0.6	0.6	<0.1	0.3	0.4
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.3	0.3	<0.1	0.4	0.4
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.4	0.4	<0.1	0.5	0.6
Chloral Hydrate	(µg/L)	<0.1	0.7	0.5	<0.1	1.6	1.5
Chloropicrin	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromide ion	(mg/L)	<0.01	0.08	0.06	NA	0.019	0.022
Total Organic Carbon	(mg/L)	0.9	1.2	1.8	1.8	1.7	1.8
Total Organic Halides	(µg/L)	7	60	63	NA	47	51

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Drummondville, QC
 Raw Water Source: St. Francois (river)
 Water Treatment Process: flocculation (alum) – sedimentation – potassium permanganate – chlorine – filtration (multi-media) – chlorine

Water Type:		Winter (Feb 25 '93)			Summer (Sep 16 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	1.4	20.8	33.1	0.4	74.6	91.1
Bromodichloromethane	(µg/L)	<0.1	1.7	2.7	<0.1	3.5	4.0
Chlorodibromomethane	(µg/L)	<0.1	0.2	0.1	<0.1	0.2	0.2
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.1	0.1
Total Trihalomethanes	(µg/L)	1.4	22.7	35.9	0.4	78.5	95.4
Monochloroacetic acid	(µg/L)	1.10	2.27	2.27	0.47	4.01	3.22
Dichloroacetic acid	(µg/L)	0.39	17.70	16.95	0.48	46.64	41.75
Trichloroacetic acid	(µg/L)	5.04	49.95	70.37	3.40	80.35	112.66
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.02	0.03	0.02	<0.01	0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.1	0.1
Dichloroacetonitrile	(µg/L)	<0.1	4.3	5.7	<0.1	8.1	9.5
Bromochloroacetonitrile	(µg/L)	<0.1	0.3	0.3	<0.1	0.6	0.7
Dibromoacetonitrile	(µg/L)	<0.1	0.3	<0.1	<0.1	0.1	0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.3	1.0	<0.1	1.2	1.0
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	2.4	3.5	<0.1	5.8	7.0
Chloral Hydrate	(µg/L)	<0.1	3.2	4.7	<0.1	12.3	14.5
Chloropicrin	(µg/L)	<0.1	0.5	0.6	<0.1	1.1	1.2
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002
Total Organic Carbon	(mg/L)	3.8	2.4	1.5	NA	3.4	3.4
Total Organic Halides	(µg/L)	47	267	237	18	211	335

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Gatineau, QC
 Raw Water Source: Ottawa (river)
 Water Treatment Process: screening – flocculation (alum) – pH adjustment – sedimentation – chlorine – filtration (multi-media) – chlorine

Water Type:		Winter (Mar 16 '93)			Summer (Sep 27 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.6	12.0	17.2	0.4	51.8	91.4
Bromodichloromethane	(µg/L)	<0.1	1.3	1.7	<0.1	3.4	4.3
Chlorodibromomethane	(µg/L)	<0.1	0.3	0.1	<0.1	0.2	0.1
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.6	13.5	19.0	0.4	55.4	95.8
Monochloroacetic acid	(µg/L)	1.52	2.01	1.43	0.50	6.63	1.82
Dichloroacetic acid	(µg/L)	0.35	12.77	13.17	0.37	37.08	10.79
Trichloroacetic acid	(µg/L)	0.53	18.53	24.65	0.91	30.14	36.62
Monobromoacetic acid	(µg/L)	<0.01	0.35	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	1.4	2.2	<0.1	3.0	1.5
Bromochloroacetonitrile	(µg/L)	<0.1	0.2	0.1	<0.1	0.3	0.1
Dibromoacetonitrile	(µg/L)	<0.1	0.2	0.2	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.8	0.8	<0.1	0.6	0.6
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.5	2.2	<0.1	3.5	0.1
Chloral Hydrate	(µg/L)	<0.1	1.7	2.3	<0.1	5.3	7.9
Chloropicrin	(µg/L)	<0.1	0.3	0.3	<0.1	0.4	0.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002
Total Organic Carbon	(mg/L)	4.9	1.4	2.2	5.6	4.0	3.5
Total Organic Halides	(µg/L)	13	104	123	NA	289	238

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Granby, QC
 Raw Water Source: Yamaska (river)
 Water Treatment Process: chlorine dioxide – screening – flocculation (alum) – sedimentation – carbon adsorption – chlorine – filtration (sand) – pH adjustment – chlorine dioxide

Water Type:		Winter (Mar 3 '93)			Summer (Sep 13 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.2	20.1	26.0	0.3	42.7	54.1
Bromodichloromethane	(µg/L)	<0.1	3.0	3.6	<0.1	5.9	6.9
Chlorodibromomethane	(µg/L)	<0.1	0.3	0.3	<0.1	0.4	0.5
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.2	23.4	29.9	0.3	49.0	61.5
Monochloroacetic acid	(µg/L)	0.50	2.89	2.18	12.06	9.54	9.72
Dichloroacetic acid	(µg/L)	0.19	18.92	18.92	0.50	19.24	7.97
Trichloroacetic acid	(µg/L)	0.11	38.93	46.59	0.19	0.85	45.68
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	0.12	0.32	<0.01
Dibromoacetic acid	(µg/L)	0.01	0.05	0.04	0.01	0.03	0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	3.1	3.8	<0.1	4.9	5.3
Bromochloroacetonitrile	(µg/L)	<0.1	0.3	0.3	<0.1	0.6	0.5
Dibromoacetonitrile	(µg/L)	<0.1	0.2	0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.1	0.9	<0.1	0.6	0.6
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	2.9	3.5	<0.1	4.8	4.7
Chloral Hydrate	(µg/L)	<0.1	4.2	5.9	<0.1	9.4	11.9
Chloropicrin	(µg/L)	<0.1	0.8	0.9	<0.1	0.6	0.7
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002
Total Organic Carbon	(mg/L)	5.5	2.8	2.5	6.8	3.5	3.7
Total Organic Halides	(µg/L)	35	72	87	8	172	181

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Laval, QC
 Raw Water Source: Des Prairies (river)
 Water Treatment Process: screening – chlorine – flocculation (alum) – flocculation (silicate) – sedimentation – filtration (multi-media) – ozone – chlorine – pH adjustment

Water Type:		Winter (Feb 15 '93)			Summer (Sep 15 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.5	11.1	13.5	0.4	69.3	100.8
Bromodichloromethane	(µg/L)	<0.1	1.2	1.3	<0.1	5.2	6.6
Chlorodibromomethane	(µg/L)	<0.1	0.1	0.1	<0.1	0.3	0.4
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.5	12.3	14.9	0.4	74.9	107.8
Monochloroacetic acid	(µg/L)	0.67	2.29	1.72	0.79	4.82	1.54
Dichloroacetic acid	(µg/L)	0.42	15.02	9.35	0.85	47.58	10.69
Trichloroacetic acid	(µg/L)	0.85	12.52	12.82	2.88	30.95	13.30
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.02	0.02	0.02	0.01	0.03	0.02
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	1.3	1.2	<0.1	3.1	1.7
Bromochloroacetonitrile	(µg/L)	<0.1	0.1	0.1	<0.1	0.3	0.4
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	2.3	1.8	<0.1	1.5	0.9
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	3.1	3.1	<0.1	8.1	1.5
Chloral Hydrate	(µg/L)	<0.1	2.9	3.3	<0.1	14.5	5.0
Chloropicrin	(µg/L)	<0.1	0.3	0.4	<0.1	1.7	2.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	0.010	0.003
Total Organic Carbon	(mg/L)	3.7	1.7	1.7	5.1	2.8	2.0
Total Organic Halides	(µg/L)	<5	112	80	NA	194	210

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Lévis, QC
 Raw Water Source: St. Lawrence (river)
 Water Treatment Process: screening – chlorine – flocculation (alum) – sedimentation – filtration (multi-media) – chlorine

Water Type:		Winter (Feb 25 '93)			Summer (Sep 9 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.7	8.1	16.6	0.5	20.7	40.3
Bromodichloromethane	(µg/L)	<0.1	4.3	6.7	<0.1	8.1	14.0
Chlorodibromomethane	(µg/L)	<0.1	1.4	1.5	<0.1	1.8	2.8
Bromoform	(µg/L)	<0.1	0.7	<0.1	<0.1	0.1	<0.1
Total Trihalomethanes	(µg/L)	0.7	14.5	24.8	0.5	30.7	57.1
Monochloroacetic acid	(µg/L)	0.21	2.06	1.52	0.59	1.24	1.74
Dichloroacetic acid	(µg/L)	0.21	8.02	14.02	0.80	10.19	3.96
Trichloroacetic acid	(µg/L)	1.09	13.88	34.76	0.45	11.91	19.75
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	0.05	0.06
Dibromoacetic acid	(µg/L)	0.02	0.13	0.23	0.01	0.10	0.02
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	1.7	3.6	<0.1	2.7	4.1
Bromochloroacetonitrile	(µg/L)	<0.1	0.6	0.7	<0.1	0.9	1.0
Dibromoacetonitrile	(µg/L)	<0.1	0.5	0.2	<0.1	0.1	0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.8	0.9	<0.1	0.9	0.6
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.5	2.8	<0.1	2.3	3.1
Chloral Hydrate	(µg/L)	<0.1	1.9	3.9	<0.1	3.0	6.1
Chloropicrin	(µg/L)	<0.1	0.2	0.2	<0.1	0.3	0.4
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	NA	0.004	0.008
Total Organic Carbon	(mg/L)	2.4	1.6	1.1	NA	2.10	1.90
Total Organic Halides	(µg/L)	15	196	209	NA	96	103

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Pierrefonds, QC
 Raw Water Source: Des Prairies (river)
 Water Treatment Process: flocculation (alum) – sedimentation – filtration (multi-media) – ozone – chloramine

Water Type:		Winter (Feb 16 '93)			Summer (Sep 15 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.6	9.2	13.0	0.4	56.4	90.2
Bromodichloromethane	(µg/L)	<0.1	1.6	2.1	<0.1	5.6	7.0
Chlorodibromomethane	(µg/L)	<0.1	0.2	0.2	<0.1	0.4	0.5
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.6	11.0	15.4	0.4	62.4	97.8
Monochloroacetic acid	(µg/L)	1.31	1.04	0.67	0.94	4.38	4.95
Dichloroacetic acid	(µg/L)	9.81	12.50	0.42	0.38	24.93	12.06
Trichloroacetic acid	(µg/L)	9.13	16.93	0.85	2.24	45.61	52.46
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.04	0.04	0.02	<0.01	0.02	0.02
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	1.3	1.6	<0.1	3.1	2.3
Bromochloroacetonitrile	(µg/L)	<0.1	0.2	0.2	<0.1	0.8	0.4
Dibromoacetonitrile	(µg/L)	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	2.1	2.1	<0.1	1.0	0.8
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	2.3	3.3	<0.1	5.2	1.2
Chloral Hydrate	(µg/L)	<0.1	2.8	5.8	<0.1	12.6	20.1
Chloropicrin	(µg/L)	<0.1	0.2	0.3	<0.1	1.5	1.9
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002
Total Organic Carbon	(mg/L)	4.1	1.7	1.7	5.0	2.3	2.4
Total Organic Halides	(µg/L)	<5	26	35	NA	156	192

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Québec, QC
 Raw Water Source: St. Charles (river)
 Water Treatment Process: screening – chlorine – flocculation (alum) – sedimentation – filtration (multi-media) – ozone – chlorine – fluoridation – phosphate

Water Type:		Winter (Feb 24 '93)			Summer (Sep 8 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	4.1	5.2	0.3	54.7	87.2
Bromodichloromethane	(µg/L)	<0.1	1.2	1.8	<0.1	2.4	3.6
Chlorodibromomethane	(µg/L)	<0.1	0.2	0.5	<0.1	0.2	0.1
Bromoform	(µg/L)	<0.1	0.1	<0.1	<0.1	0.1	<0.1
Total Trihalomethanes	(µg/L)	0.3	5.7	7.5	0.3	57.4	90.9
Monochloroacetic acid	(µg/L)	0.51	1.33	1.21	0.65	1.91	4.15
Dichloroacetic acid	(µg/L)	0.20	6.43	7.58	0.41	28.97	42.60
Trichloroacetic acid	(µg/L)	0.08	6.31	7.93	0.15	66.06	77.30
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	<0.01	0.05	0.09	0.01	0.01	0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.5	0.7	<0.1	4.1	5.0
Bromochloroacetonitrile	(µg/L)	<0.1	0.3	0.2	<0.1	0.4	0.4
Dibromoacetonitrile	(µg/L)	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.0	1.2	<0.1	2.9	2.3
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.9	1.3	<0.1	9.2	10.4
Chloral Hydrate	(µg/L)	<0.1	0.5	1.2	<0.1	11.7	18.6
Chloropicrin	(µg/L)	<0.1	0.1	0.1	<0.1	0.7	1.0
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	NA	<0.002	<0.002
Total Organic Carbon	(mg/L)	1.1	0.9	0.7	NA	2.0	2.0
Total Organic Halides	(µg/L)	61	90	85	NA	177	229

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Repentigny, QC
 Raw Water Source: L'Assomption (river)
 Water Treatment Process: screening – ozone – carbon adsorption – flocculation (alum) – flocculation (polymers) – sedimentation – filtration (multi-media) – filtration (sand) – ozone – lime – chlorine dioxide – sodium silicate

Water Type:		Winter (Feb 22 '93)			Summer (Sep 15 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.9	2.9	4.4	0.5	23.7	23.7
Bromodichloromethane	(µg/L)	<0.1	2.7	4.1	<0.1	7.2	7.4
Chlorodibromomethane	(µg/L)	<0.1	1.9	2.4	<0.1	2.0	2.0
Bromoform	(µg/L)	<0.1	<0.1	0.2	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.9	7.4	11.0	0.5	32.9	33.1
Monochloroacetic acid	(µg/L)	0.62	0.66	0.68	1.22	3.29	0.94
Dichloroacetic acid	(µg/L)	0.18	2.43	2.22	0.56	11.12	0.95
Trichloroacetic acid	(µg/L)	0.45	1.39	2.34	0.48	4.21	4.37
Monobromoacetic acid	(µg/L)	<0.01	0.04	0.09	<0.01	0.32	<0.01
Dibromoacetic acid	(µg/L)	<0.01	0.15	0.09	<0.01	0.31	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.5	0.4	<0.2	0.9	0.2
Bromochloroacetonitrile	(µg/L)	<0.1	0.4	0.2	<0.1	0.5	0.1
Dibromoacetonitrile	(µg/L)	<0.1	0.2	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.1	0.8	<0.1	1.0	0.9
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.2	1.5	<0.1	4.1	1.8
Chloral Hydrate	(µg/L)	<0.1	2.6	2.6	<0.1	10.4	2.1
Chloropicrin	(µg/L)	<0.1	0.1	0.6	<0.1	2.2	1.1
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	0.009	<0.002	<0.002
Total Organic Carbon	(mg/L)	3.9	2.4	2.3	5.3	2.3	1.8
Total Organic Halides	(µg/L)	24	114	56	17	82	66

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: St-Jean-sur-Richelieu, QC
 Raw Water Source: Richelieu (river)
 Water Treatment Process: screening – ozone – flocculation (alum) – sedimentation – filtration (multi-media) – chlorine

Water Type:		Winter (Feb 23 '93)			Summer (Sep 13 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.4	2.3	4.0	0.3	12.9	21.0
Bromodichloromethane	(µg/L)	<0.1	1.1	1.8	<0.1	3.1	4.0
Chlorodibromomethane	(µg/L)	<0.1	0.5	0.7	<0.1	0.8	1.0
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	0.4	4.0	6.5	0.3	16.8	26.0
Monochloroacetic acid	(µg/L)	0.46	0.27	0.78	0.76	0.80	1.39
Dichloroacetic acid	(µg/L)	0.13	1.63	2.71	0.77	7.73	7.54
Trichloroacetic acid	(µg/L)	0.07	0.99	2.01	0.10	2.75	3.42
Monobromoacetic acid	(µg/L)	<0.01	<0.01	0.09	<0.01	0.10	0.16
Dibromoacetic acid	(µg/L)	0.02	0.09	0.12	<0.01	0.14	0.09
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.9	1.2	<0.1	1.6	1.6
Bromochloroacetonitrile	(µg/L)	<0.1	0.4	0.4	<0.1	0.8	0.6
Dibromoacetonitrile	(µg/L)	<0.1	0.2	<0.1	<0.1	<0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.9	0.8	<0.1	0.5	0.4
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.8	1.3	<0.1	1.1	0.6
Chloral Hydrate	(µg/L)	<0.1	1.0	1.9	<0.1	3.6	5.6
Chloropicrin	(µg/L)	<0.1	0.2	0.3	<0.1	1.6	1.8
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002
Total Organic Carbon	(mg/L)	3.1	0.3	1.7	NA	2.8	2.9
Total Organic Halides	(µg/L)	6	15	20	7	52	66

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Trois-Rivières, QC
 Raw Water Source: St-Maurice (river)
 Water Treatment Process: screening – flocculation (alum) – sedimentation – chlorine dioxide – filtration (multi-media) – fluoridation – chlorine dioxide – lime – polyphosphates

Water Type:		Winter (Feb 24 '93)			Summer (Sep 16 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	3.7	19.6	19.9	0.8	34.5	38.7
Bromodichloromethane	(µg/L)	<0.1	0.9	0.9	<0.1	1.4	1.5
Chlorodibromomethane	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.1	0.1
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Trihalomethanes	(µg/L)	3.7	20.5	20.9	0.8	35.9	40.3
Monochloroacetic acid	(µg/L)	0.53	3.26	1.19	0.45	1.27	2.20
Dichloroacetic acid	(µg/L)	0.35	27.50	16.91	0.29	13.09	7.27
Trichloroacetic acid	(µg/L)	3.84	45.51	33.04	1.09	24.30	24.48
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.02	0.02	<0.01	<0.01	<0.01	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	1.7	1.8	<0.1	2.4	2.5
Bromochloroacetonitrile	(µg/L)	<0.1	0.1	0.1	<0.1	0.3	0.3
Dibromoacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.2	1.4	<0.1	0.4	0.6
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	2.8	3.1	<0.1	2.0	1.8
Chloral Hydrate	(µg/L)	<0.1	2.4	3.0	<0.1	4.7	5.6
Chloropicrin	(µg/L)	<0.1	0.3	0.3	<0.1	0.5	0.5
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.005	<0.002	<0.002
Total Organic Carbon	(mg/L)	5.6	3.1	1.8	NA	2.7	2.7
Total Organic Halides	(µg/L)	28	210	248	11	137	181

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Montreal, QC (Verdun)
 Raw Water Source: St. Lawrence (river)
 Water Treatment Process: filtration (sand) – chlorine

Water Type:		Winter (Feb 15 '93)			Summer (Sep 2 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	3.7	6.0	0.5	3.6	9.2
Bromodichloromethane	(µg/L)	<0.1	3.9	5.4	<0.1	3.6	8.3
Chlorodibromomethane	(µg/L)	<0.1	2.3	2.2	<0.1	2.4	4.6
Bromoform	(µg/L)	<0.1	0.1	<0.1	<0.1	0.4	0.6
Total Trihalomethanes	(µg/L)	0.3	10.1	13.6	0.5	9.9	22.6
Monochloroacetic acid	(µg/L)	0.47	0.67	0.18	0.64	0.60	0.59
Dichloroacetic acid	(µg/L)	3.36	5.70	0.22	0.40	1.74	2.55
Trichloroacetic acid	(µg/L)	3.73	10.05	0.79	0.32	1.44	2.81
Monobromoacetic acid	(µg/L)	0.04	0.11	<0.01	<0.01	0.05	0.08
Dibromoacetic acid	(µg/L)	0.33	0.29	<0.01	<0.01	0.36	0.43
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.9	1.2	<0.1	0.7	1.5
Bromochloroacetonitrile	(µg/L)	<0.1	0.7	0.6	<0.1	0.9	1.2
Dibromoacetonitrile	(µg/L)	<0.1	0.3	0.3	<0.1	0.2	0.4
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.4	0.4	<0.1	0.3	0.2
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.5	0.8	<0.1	0.4	0.8
Chloral Hydrate	(µg/L)	<0.1	0.3	0.5	<0.1	0.4	1.8
Chloropicrin	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	0.023	0.011	0.013
Total Organic Carbon	(mg/L)	1.9	1.9	1.9	2.2	1.3	1.4
Total Organic Halides	(µg/L)	<5	24	44	NA	28	54

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Moose Jaw, SK
 Raw Water Source: Buffalo Pound (lake)
 Water Treatment Process: screening – chlorine – aeration (when required) – flocculation (alum) – sedimentation – filtration (multi-media) – carbon adsorption (summer) – chlorine – fluoridation

Water Type:		Winter (Mar 18 '93)			Summer (Aug 23 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.4	14.3	22.9	0.5	9.9	13.6
Bromodichloromethane	(µg/L)	<0.1	9.4	12.8	<0.1	1.3	4.3
Chlorodibromomethane	(µg/L)	<0.1	3.0	3.8	<0.1	0.4	2.9
Bromoform	(µg/L)	<0.1	<0.1	0.1	<0.1	0.1	0.7
Total Trihalomethanes	(µg/L)	0.4	26.7	39.6	0.5	11.7	21.5
Monochloroacetic acid	(µg/L)	2.61	0.52	0.46	0.74	0.65	0.69
Dichloroacetic acid	(µg/L)	0.19	10.39	11.75	0.48	0.55	1.28
Trichloroacetic acid	(µg/L)	0.47	27.28	45.12	0.48	0.47	1.75
Monobromoacetic acid	(µg/L)	<0.01	<0.01	0.03	<0.01	0.12	0.35
Dibromoacetic acid	(µg/L)	0.01	0.19	0.34	<0.01	0.05	0.34
Trichloroacetonitrile	(µg/L)	<0.1	0.2	0.2	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	4.3	5.6	<0.1	<0.1	0.6
Bromochloroacetonitrile	(µg/L)	<0.1	1.4	1.5	<0.1	0.3	0.7
Dibromoacetonitrile	(µg/L)	<0.1	0.4	0.4	<0.1	<0.1	0.4
1,1-Dichloro-2-propanone	(µg/L)	<0.1	1.3	1.2	<0.1	<0.1	<0.1
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	1.6	2.6	<0.1	<0.1	0.4
Chloral Hydrate	(µg/L)	<0.1	5.1	8.4	<0.1	0.2	1.5
Chloropicrin	(µg/L)	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	0.017	<0.002	0.007
Total Organic Carbon	(mg/L)	3.6	3.0	3.1	5.4	3.8	0.8
Total Organic Halides	(µg/L)	9	91	111	<5	40	32

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Prince Albert, SK
 Raw Water Source: North Saskatchewan (river)
 Water Treatment Process: screening – sedimentation – flocculation (alum) – pH adjustment – chlorine – filtration (multi-media) – fluoridation – chlorine

Water Type:		Winter (Mar 12 '93)			Summer (Aug 26 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.3	4.1	10.8	0.4	9.9	0.3
Bromodichloromethane	(µg/L)	<0.1	1.5	3.4	<0.1	2.6	<0.1
Chlorodibromomethane	(µg/L)	<0.1	0.5	0.8	<0.1	0.6	<0.1
Bromoform	(µg/L)	<0.1	0.3	<0.1	<0.1	0.1	<0.1
Total Trihalomethanes	(µg/L)	0.3	6.3	15.0	0.4	13.2	0.3
Monochloroacetic acid	(µg/L)	0.27	1.53	1.24	0.39	1.00	0.26
Dichloroacetic acid	(µg/L)	0.21	2.90	5.78	0.59	9.04	0.28
Trichloroacetic acid	(µg/L)	0.63	3.84	16.95	0.04	7.41	0.08
Monobromoacetic acid	(µg/L)	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
Dibromoacetic acid	(µg/L)	0.02	0.03	0.10	0.01	0.08	<0.01
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	0.9	2.0	<0.1	1.3	<0.1
Bromochloroacetonitrile	(µg/L)	<0.1	0.5	0.6	<0.1	0.4	<0.1
Dibromoacetonitrile	(µg/L)	<0.1	0.3	0.2	<0.1	0.1	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.7	0.5	<0.1	0.8	<0.1
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	0.7	1.8	<0.1	1.0	<0.1
Chloral Hydrate	(µg/L)	<0.1	1.9	3.9	<0.1	2.2	<0.1
Chloropicrin	(µg/L)	<0.1	0.1	0.2	<0.1	<0.1	<0.1
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	0.002	0.005
Total Organic Carbon	(mg/L)	1.3	1.0	0.7	NA	1.3	<0.1
Total Organic Halides	(µg/L)	<5	36	46	NA	55	<5

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Saskatoon, SK
 Raw Water Source: South Saskatchewan (river)
 Water Treatment Process: screening – potassium permanganate – flocculation (alum) – flocculation (lime) – chlorine – fluoridation – sedimentation – filtration (multi-media) – filtration (sand) – chloramine

Water Type:		Winter (Mar 11 '93)			Summer (Aug 26 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.4	11.5	13.1	0.5	21.3	25.3
Bromodichloromethane	(µg/L)	<0.1	5.1	5.6	<0.1	7.2	7.1
Chlorodibromomethane	(µg/L)	<0.1	1.3	1.4	<0.1	1.6	1.6
Bromoform	(µg/L)	<0.1	<0.1	<0.1	<0.1	0.5	0.8
Total Trihalomethanes	(µg/L)	0.4	17.9	20.1	0.5	30.6	34.8
Monochloroacetic acid	(µg/L)	0.19	2.09	0.84	0.45	0.65	0.34
Dichloroacetic acid	(µg/L)	0.13	7.06	6.87	0.88	20.55	17.60
Trichloroacetic acid	(µg/L)	0.21	10.50	10.63	0.17	10.62	12.71
Monobromoacetic acid	(µg/L)	<0.01	0.03	0.04	0.08	0.06	0.37
Dibromoacetic acid	(µg/L)	0.02	0.25	0.25	0.05	0.20	0.18
Trichloroacetonitrile	(µg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	2.0	2.0	<0.1	3.2	3.7
Bromochloroacetonitrile	(µg/L)	<0.1	0.7	0.8	<0.1	1.2	1.2
Dibromoacetonitrile	(µg/L)	<0.1	0.2	0.2	<0.1	0.3	0.4
1,1-Dichloro-2-propanone	(µg/L)	<0.1	0.9	1.1	<0.1	1.4	1.0
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	2.0	2.0	<0.1	3.9	2.2
Chloral Hydrate	(µg/L)	<0.1	3.2	2.7	<0.1	5.7	5.2
Chloropicrin	(µg/L)	<0.1	0.1	0.1	<0.1	0.2	0.3
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002
Total Organic Carbon	(mg/L)	2.4	2.0	1.9	NA	1.4	1.2
Total Organic Halides	(µg/L)	9	37	39	NA	93	91

NA = Not Analyzed

Water Treatment Facility Information and Data Sheet

Municipality: Swift Current, SK
 Raw Water Source: Duncairn (dam)
 Water Treatment Process: screening – carbon adsorption – flocculation (alum) – flocculation (polymer) – sedimentation – chlorine – filtration (multi-media) – chlorine – fluoridation

Water Type:		Winter (Mar 18 '93)			Summer (Aug 24 '93)		
		Raw	Treated	System	Raw	Treated	System
Chloroform	(µg/L)	0.5	29.4	71.3	0.5	42.6	95.4
Bromodichloromethane	(µg/L)	<0.1	8.1	11.7	<0.1	7.1	13.5
Chlorodibromomethane	(µg/L)	<0.1	1.4	1.2	<0.1	2.0	1.1
Bromoform	(µg/L)	<0.1	0.3	<0.1	<0.1	0.1	<0.1
Total Trihalomethanes	(µg/L)	0.5	39.3	84.2	0.5	51.8	110.0
Monochloroacetic acid	(µg/L)	0.52	4.59	1.58	0.40	2.57	0.39
Dichloroacetic acid	(µg/L)	0.28	30.36	7.51	0.49	37.17	1.29
Trichloroacetic acid	(µg/L)	0.39	139.81	228.27	0.54	107.80	4.44
Monobromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	<0.01	0.19	0.04
Dibromoacetic acid	(µg/L)	<0.01	<0.01	<0.01	0.01	0.05	0.01
Trichloroacetonitrile	(µg/L)	<0.1	0.4	0.5	<0.1	0.1	<0.1
Dichloroacetonitrile	(µg/L)	<0.1	12.6	16.3	<0.1	7.7	2.3
Bromochloroacetonitrile	(µg/L)	<0.1	0.7	0.6	<0.1	1.3	0.1
Dibromoacetonitrile	(µg/L)	<0.1	0.8	<0.1	<0.1	0.4	<0.1
1,1-Dichloro-2-propanone	(µg/L)	<0.1	3.7	3.3	<0.1	2.5	0.8
1,1,1-Trichloro-2-propanone	(µg/L)	<0.1	5.4	7.3	<0.1	4.4	3.2
Chloral Hydrate	(µg/L)	<0.1	13.8	22.5	<0.1	11.3	3.6
Chloropicrin	(µg/L)	<0.1	1.2	1.6	<0.1	2.5	0.2
Bromide ion	(mg/L)	<0.01	<0.01	<0.01	0.009	0.004	0.010
Total Organic Carbon	(mg/L)	8.0	5.1	5.1	NA	2.8	3.6
Total Organic Halides	(µg/L)	14	240	435	NA	177	271

NA = Not Analyzed