



Western Basin Nearshore 1978-1979,
Water Quality Findings Summary

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INTRODUCTION

The incredible amounts of data generated during the Nearshore Study presented a challenge to the data analyst. A trade-off was necessary between the type of analysis that would be most useful to scientists, and the reduction of data to one number that could be best utilized by politicians and administrators. Cruise summaries were determined to be the most valuable reduced data form and are presented in this section for the major limnological parameters (Tables 1-8) and the metals (Tables 9-16). Each table lists the mean cruise concentration, number of samples, standard error of the mean, and the maximum and minimum concentration as well as the station(s) where it occurs.

For the individual desiring more detail it is hoped that the following sections will be useful. The raw data is available in the USEPA's STORET computer system. The agency code is 310SU and the data is entered under its jurisdictional state codes (i.e. Michigan = 26 and Ohio = 39).

TABLES

TABLE 1

WESTERN BASIN LAKE ERIE NEARSHORE CRUISE MEANS, RANGES AND STANDARD ERROR
CRUISE 1, 1978

PARAMETER	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	N	STANDARD ERROR	UNITS
Temperature	9.0	19.5	012	3.5	024	219	0.2	°C
Dissolved oxygen	11.0	13.9	1*	5.8	M3	217	0.1	mg/l
DO% saturation	94.8	127.3	M18	53.1	M3	202	0.7	%
Conductivity at 25°	359	676	03	213	M6	213	7	μmhos/cm
pH	7.77	9.10	041	7.12	M15	234	0.02	pH
Turbidity	38.3	122.0	029	3.1	M3	231	2.0	ntu's
Alkalinity-total	99.1	155.5	M16	79.7	M9	67	2.2	mg/l as CaCO ₃
Extinction depth	1.1	4.5	M3	0.1	03	124	0.07	m
Secchi	0.5	1.6	M3	0.1	2*	149	0.02	m
Total phosphorus	185.1	1030.4	02	34.0	M6	229	8.7	ppb
SRP	36.2	91.9	020	0.5	M6	234	1.9	ppb
NO ₂ + NO ₃	2347.9	9650	028	300	M5	234	122.5	ppb
NH ₃ ⁺	180.9	503.0	025	4.2	M2	222	6.6	ppb
TKN, filtered	594	1201	016	140	M6	232	14.5	ppb
Silica	3107.2	7820	011	150	3*	234	122.7	ppb
Chloride	20.1	136.0	022	3.2	M19	233	0.7	ppm
Sulfate	36.5	125.0	033	7.2	M8	232	1.3	ppm
Fluoride	0.276	0.378	012	0.184	M9	75	0.006	ppm
Color	3.68	11	029	0	034	93	0.19	CU Pt (4)*
Suspended Solids	44.81	164.50	029	5.24	M5	91	3.88	mg/l
Volatile Solids	7.50	22.77	029	2.32	M5	91	3.49	mg/l
Particulate O.C.	1918.5	5464.3	M27	409.1	M9	91	115.2	ppb
Dissolved O.C.	2119.0	7915.0	01	519.0	M13	76	174.6	ppb
Total O.C.	4014.0	12633.8	01	1125.8	M6	74	272.3	ppb
Chlorophyll <u>a</u>	12.95	133.46	M2	0.34	040	231	1.11	μg/l
Chlorophyll <u>a</u> corrected	10.30	129.31	M2	-1.70	024	231	1.04	μg/l

*Notes

1. Stations M11, 033
2. Stations 014, 029, 030
3. Stations M2, 041
4. Chloroplatinate Units

TABLE 2

WESTERN BASIN LAKE ERIE NEARSHORE CRUISE MEANS, RANGES AND STANDARD ERROR
CRUISE 2, 1978

PARAMETER	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	N	STANDARD ERROR	UNITS
Temperature	22.9	31.0	1*	15.2	2*	348	0.1	°C
Dissolved oxygen	7.9	14.5	M25	2.1	02	249	0.1	mg/l
DO% saturation	90.1	185.2	M25	25.1	02	249	1.4	%
Conductivity at 25°	371	644	M11	230	013	174	7	µmhos/cm
pH	8.40	9.29	029	7.24	M1	345	0.02	pH
Turbidity	15.7	120.0	04	2.0	050	348	0.86	ntu's
Alkalinity-total	81.5	119.9	01	70.1	013	28	2.6	mg/l as CaCO ₃
Extinction depth	1.9	7.3	050	0.2	02	214	0.09	m
Secchi	0.8	2.9	047	0.2	3*	224	0.03	m
Total phosphorus	129.9	774.8	M27	28.8	047	339	5.7	ppb
SRP	12.7	111.7	M16	<0.5	035	347	0.8	ppb
NO ₂ + NO ₃	565.0	11250	M27	6	033	349	58.0	ppb
NH ₃ ⁺	89.4	1231.0	01	<2.0	4*	347	7.4	ppb
TKN, filtered	378	2046	02	106	07	341	11.8	ppb
Silica	1463.7	7760	M16	120	M21	346	59.4	ppb
Chloride	22.3	65.4	01	12.0	M5	302	0.5	ppm
Sulfate	38.3	283.2	030	18.6	M5	332	1.5	ppm
Fluoride	0.267	0.478	02	0.093	019	77	0.011	ppm
Color	1.79	6	5*	0	6*	235	0.07	CU Pt
Suspended Solids	23.57	76.12	M17	2.20	047	72	2.15	mg/l
Volatile Solids	7.00	20.76	029	1.55	024	71	1.68	mg/l
Particulate O.C.	2853.9	19813.7	M1	446.2	027	82	306.6	ppm
Dissolved O.C.	3464.5	8967.0	09	1144.0	M20	77	156.3	ppm
Total O.C.	6417.6	24128.7	M1	2870.9	039	76	400.4	ppm
Chlorophyll <u>a</u>	30.33	200.93	030	2.23	050	345	1.58	µg/l
Chlorophyll <u>a</u> corrected	26.99	209.06	030	0.30	019	345	1.61	µg/l

*Notes

1. Stations M16, 08
2. Stations 027, 028
3. Stations M2, M27, 02, 04, 029, 030
4. Stations M9, M10, M12, M21, 013, 014, 029, 031, 032, 033, 034, 037, 043, 047, 050
5. Stations 029, 030
6. Stations 011, 031

TABLE 3

WESTERN BASIN LAKE ERIE NEARSHORE CRUISE MEANS, RANGES AND STANDARD ERROR
CRUISE 3, 1978

PARAMETER	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	N	STANDARD ERROR	UNITS
Temperature	23.9	30.9	M16	19.9	047	355	0.1	°C
Dissolved oxygen	7.7	13.8	M4	0.3	047	320	0.1	mg/l
DO% saturation	90.4	163.5	M25	3.2	02	320	1.1	%
Conductivity at 25°	283	561	029	196	M9	345	3	µmhos/cm
pH	8.81	9.71	04	7.62	047	357	0.02	pH
Turbidity	10.3	140.0	044	3.0	1*	357	0.6	ntu's
Alkalinity-total	73.2	100.3	031	37.3	03	356	0.4	mg/l as CaCO ₃
Extinction depth	2.3	8.8	050	0.5	2*	227	0.1	m
Secchi	0.9	2.6	050	0.1	014	228	0.03	m
Total phosphorus	104.5	502.0	M27	14.4	040	342	4.0	ppb
SRP	7.1	69.1	050	<0.5	3*	357	0.6	ppb
NO ₂ + NO ₃	107.3	1607	02	<5	4*	355	11.3	ppb
NH ₃ ⁺	50.1	643.9	02	<2.0	5*	355	5.3	ppb
TKN, filtered	288	1287	M15	121	028	354	7.7	ppb
Silica	643.5	9650	029	80	043	357	63.0	ppb
Chloride	23.7	44.5	02	10.6	M6	117	0.7	ppm
Sulfate	35.1	348.4	030	16.8	M8	356	2.0	ppm
Fluoride	0.260	0.457	031	0.175	6*	77	0.007	ppm
Color	3.48	198	046	1	7*	120	1.64	CU Pt
Suspended Solids	15.87	94.28	021	2.72	046	75	1.77	mg/l
Volatile Solids	5.73	15.15	029	2.08	046	75	1.48	mg/l
Particulate O.C.	2241.5	10406.8	031	453.7	047	75	214.7	ppm
Dissolved O.C.	3123.6	6262.0	030	211.7	049	74	135.9	ppm
Total O.C.	5035.4	11716.3	M27	307.3	013	72	252.9	ppm
Chlorophyll <u>a</u>	32.43	127.17	M27	4.47	M6	357	1.36	µg/l
Chlorophyll <u>a</u> corrected	29.75	136.00	M26	2.11	M5	356	1.34	µg/l

*Notes

1. Stations M6, 019, 025, 047, 050
2. Stations M23, M27, 014, 029, 030
3. Stations 041, 045, 046, 047, 048, 050
4. Stations M10, M11, M18, M19, M20, M22, 016, 019, 020, 021, 024, 029, 030, 031, 032, 033, 034, 035, 037
5. Stations M10, M11, M13, M20, M21, 06, 07, 013, 017, 018, 019, 020, 021, 022, 023, 024, 025, 028, 029, 030, 031, 032, 033, 034, 035, 036, 037, 047, 050
6. Stations 016, 017
7. Stations M1, M3, M4, M5, M6, M9, M12, M13, M14, M15, M18, M19, M20, M21, M24, M25, 011, 013, 024, 028, 034, 036, 037, 038, 039, 040, 041, 042, 043, 044, 045, 046, 047, 048, 049, 050

TABLE 4

WESTERN BASIN LAKE ERIE NEARSHORE CRUISE MEANS, RANGES AND STANDARD ERROR
CRUISE 4, 1978

PARAMETER	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	N	STANDARD ERROR	UNITS
Temperature	14.1	27.5	M16	8.9	030	357	0.1	°C
Dissolved oxygen	9.7	12.5	042	6.1	M17	353	0.04	mg/l
DO% saturation	92.0	118.8	042	56.9	M17	353	0.3	%
Conductivity at 25°	285	657	029	196	M6	353	3	µmhos/cm
pH	8.47	9.50	M12	7.92	M1	350	0.01	pH
Turbidity	21.4	77.0	M11	3.9	036	356	0.7	ntu's
Alkalinity-total	92.8	127.9	1*	76.8	048	357	0.3	mg/l as CaCO ₃
Extinction depth	1.4	5.0	020	0.2	M11	221	0.05	m
Secchi	0.6	1.3	2*	0.2	3*	229	0.02	m
Total phosphorus	103.7	502.3	010	12.4	036	339	3.3	ppb
SRP	6.8	79.5	02	<0.5	4*	300	0.4	ppb
NO ₂ + NO ₃	117.8	1750	02	<5	5*	357	12.3	ppb
NH ₃ ⁺	24.2	331.0	M5	<2.0	6*	298	2.63	ppb
TKN, filtered	244	896	M20	72.0	M18	230	7.61	ppb
Silica	337.8	5260	029	<30	034 045	357	37.2	ppb
Chloride	19.0	40.0	M27	8.4	M6	356	0.3	ppm
Sulfate	34.3	219.3	030	17.4	07	347	1.4	ppm
Fluoride	0.200	1.117	M2	0.085	015	76	0.015	ppm
Color	1.69	5	044	1	7*	114	0.08	CU Pt
Suspended Solids	26.49	111.53	09	5.40	019	81	2.30	mg/l
Volatile Solids	5.81	14.24	M27	2.28	019	81	2.03	mg/l
Particulate O.C.	2477.5	9191.8	031	686.3	M6	77	202.4	ppm
Dissolved O.C.	3039.5	10284.0	09	1407.0	036	77	163.8	ppm
Total O.C.	5450.4	15037.2	029	2291.4	028	75	305.8	ppm
Chlorophyll <u>a</u>	31.06	100.57	029	2.31	M1	354	0.86	µg/l
Chlorophyll <u>a</u> corrected	27.62	94.29	029	-3.06	M22	354	0.81	µg/l

*Notes

1. Stations 029, 030
2. Stations 028, 036
3. Stations M11, M17, 09, 010, 029, 030, 031
4. Stations M4, M5, M7, M8, M9, M10, M11, M13, M14, M23
5. Stations M4, M7, M10, M11, M13, M18, M19, M21, M22, M24, M26, 011, 012, 014, 017
6. Stations M19, M22, M23, M24, M25, M26, 04, 05, 011, 018, 019, 020, 022, 023, 024, 025, 027, 028
7. Stations M1, M2, M3, M4, M5, M6, M8, M9, M12, M13, M14, M15, M16, M19, M20, M21, M22, M26, 07, 08, 011, 012, 013, 014, 016, 017, 018, 019, 020, 022, 023, 024, 026, 027, 028, 035, 036, 039, 048, 050

TABLE 5

WESTERN BASIN LAKE ERIE NEARSHORE CRUISE MEANS, RANGES AND STANDARD ERROR
CRUISE 1, 1979

PARAMETER	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	N	STANDARD ERROR	UNITS
Temperature	5.2	15.5	M16	2.0	015	338	0.1	°C
Dissolved oxygen	11.8	13.6	1*	4.0	M3	325	0.06	mg/l
DO% saturation	95.2	114.0	030	66.3	044	324	0.4	%
Conductivity at 25°	497	1209	M27	165	M3	334	11	µmhos/cm
pH	8.10	8.58	010	7.53	048	339	0.01	pH
Turbidity	86.8	1900.0	044	4.3	M21	339	10.2	ntu's
Alkalinity-total	90.9	175.8	M16	31.2	048	336	1.3	mg/l as CaCO ₃
Extinction depth	1.2	6.2	M21	0.0	044	331	0.06	m
Secchi	0.3	0.9	M3	0.0	2*	121	0.01	m
Total phosphorus	119.2	434.4	04	15.0	047	332	3.9	ppb
SRP	18.5	85.8	02	<0.5	040	311	1.2	ppb
NO ₂ + NO ₃	3265.7	12100	03	314	M21	334	173.5	ppb
NH ₃ ⁺	269.0	985.7	M1	14.4	036	331	10.5	ppb
TKN	749	2694	022	44	039	337		ppb
Silica	2378.2	9500	044	340	024	324	104.9	ppb
Chloride	24.5	53.2	05	16.6	046	25	1.7	ppm
Sulfate	40.7	96.6	035	21.3	046	26	4.0	ppm
Fluoride	NA	NA	NA	NA	NA	NA	NA	ppm
Color	NA	NA	NA	NA	NA	NA	NA	ppm
Suspended Solids	91.14	767.40	048	5.39	M21	79	12.79	C1 Pt mg/l
Volatile Solids	16.09	80.80	048	1.30	M21	78	10.67	mg/l
Particulate O.C.	3436.9	11977.5	048	336.2	044	78	241.6	ppm
Dissolved O.C.	3750.8	8197.0	029	1111.0	M8	62	202.3	ppm
Total O.C.	NA	NA	NA	NA	NA	NA	NA	ppm
Chlorophyll <u>a</u>	16.47	44.58	M23	1.04	M9	335	0.53	µg/l
Chlorophyll <u>a</u> corrected	12.59	42.95	09	-1.25	044	335	0.48	µg/l

*Notes

1. Stations M19, 030, 032
2. Stations 029, 034, 044, 048

TABLE 6

WESTERN BASIN LAKE ERIE NEARSHORE CRUISE MEANS, RANGES AND STANDARD ERROR
CRUISE 2, 1979

PARAMETER	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	N	STANDARD ERROR	UNITS
Temperature	24.1	31.0	M16	16.5	M17	356	0.1	°C
Dissolved oxygen	7.6	13.9	M23	0.0	1*	331	0.1	mg/l
DO% saturation	91.2	168.5	M23	0	2*	324	1.6	%
Conductivity at 25°	314	647	02	210	M26	350	4	µmhos/cm
pH	8.73	9.98	031	7.46	039	358	0.02	pH
Turbidity	14.4	165.0	M1	0.8	3*	350	0.8	ntu's
Alkalinity-total	98.1	157.5	02	63.5	09	358	0.6	mg/l as CaCO ₃
Extinction depth	2.9	14.0	M17	0.2	M1	225	0.18	m
Secchi	1.1	5.5	4*	0.1	5*	224	0.07	m
Total phosphorus	68.9	385.8	029	8.6	040	325	3.0	ppb
SRP	4.4	59.3	02	<0.5	M18	352	0.4	ppb
NO ₂ + NO ₃	922.7	7660	02	5	033	350	62.0	ppb
NH ₃ ⁺	35.2	937.9	02	<2.0	6*	347	4.0	ppb
TKN, unfiltered	5629	9998	040	52	M5	343	140.8	ppb
Silica	890.1	5550	029	70	M26	295	54.6	ppb
Chloride	17.9	23.0	035	13.9	024	31	0.5	ppm
Sulfate	29.5	68.1	035	20.4	024	31	1.9	ppm
Fluoride	NA	NA	NA	NA	NA	NA	NA	ppm
Color	NA	NA	NA	NA	NA	NA	NA	C1 Pt
Suspended Solids	41.89	212.93	M1	1.37	036	77	8.98	mg/l
Volatile Solids	9.59	32.70	030	1.15	050	77	8.47	mg/l
Particulate O.C.	3176.4	9699.0	029	406.0	050	75	280.6	ppm
Dissolved O.C.	2535.8	3752.0	M12	895.0	05	18	193.3	ppm
Total O.C.	NA	NA	NA	NA	NA	NA	NA	ppm
Chlorophyll <u>a</u>	34.46	211.40	031	1.24	M6	356	1.89	µg/l
Chlorophyll <u>a</u> corrected	31.77	210.73	031	0.55	046	356	1.84	µg/l

*Notes

1. Stations 047, 050
2. Stations 047, 050
3. Stations 046, 050
4. Stations 049, 050
5. Stations M1, 021
6. Stations M16, M22, M25, 036

TABLE 7

WESTERN BASIN LAKE ERIE NEARSHORE CRUISE MEANS, RANGES AND STANDARD ERROR
CRUISE 3, 1979

PARAMETER	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	N	STANDARD ERROR	UNITS
Temperature	20.1	29.7	M16	13.9	M3	359	0.1	°C
Dissolved oxygen	9.0	16.8	M27	4.7	02	352	0.1	mg/l
DO% saturation	97.0	175.1	M27	51.2	02	343	0.9	%
Conductivity at 25°	314	685	030	213	M6	331	5	µmhos/cm
pH	8.78	9.33	031	7.88	02	359	0.01	pH
Turbidity	19.3	83.0	029	4.4	028	358	0.7	ntu's
Alkalinity-total	96.3	154.7	02	80.2	07	359	0.6	mg/l as CaCO ₃
Extinction depth	1.4	3.5	047	0.2	031	229	0.04	m
Secchi	0.5	1.0	1*	0.1	2*	230	0.02	m
Total phosphorus	89.8	340.1	02	35.5	028	355	2.2	ppb
SRP	5.7	130.3	02	<0.5	3*	351	0.8	ppb
NO ₂ + NO ₃	205.9	2707	02	5	4*	351	23.2	ppb
NH ₃ ⁺	23.6	974.5	02	<2.0	5*	352	4.9	ppb
TKN, unfiltered	1376	8938	028	198	M22	351	71.4	ppb
Silica	604.6	8030	02	60	048	326	59.6	ppb
Chloride	16.5	22.6	05	11.8	M1	25	0.7	ppm
Sulfate	40.4	285.5	M14	22.1	024	25	10.3	ppm
Fluoride	NA	NA	NA	NA	NA	NA	NA	ppm
Color	NA	NA	NA	NA	NA	NA	NA	Ct Pt
Suspended Solids	29.95	118.35	M3	5.62	045	76	2.63	mg/l
Volatile Solids	14.05	24.90	M17	3.20	046	76	2.15	mg/l
Particulate O.C.	3608.9	7318.0	031	979.0	050	74	201.1	ppm
Dissolved O.C.	3073.0	8899.0	031	575.0	M14	57	207.8	ppm
Total O.C.	NA	NA	NA	NA	NA	NA	NA	ppm
Chlorophyll <u>a</u>	42.59	175.26	029	1.95	M6	357	1.32	µg/l
Chlorophyll <u>a</u> corrected	40.51	167.48	029	1.33	M5	357	1.29	µg/l

*Notes

1. Stations M5, M6, M9, 028, 036, 041, 046, 047, 050
2. Stations M10, M27, 01, 08, 015, 022, 023, 026, 027, 029
3. Stations M6, M8, M11, M12, M13, M14, 041, 048
4. Stations M5, 016, 023, 026
5. Stations M8, M19, M22, 01, 03, 04, 012, 016, 027, 036

TABLE 8

WESTERN BASIN LAKE ERIE NEARSHORE CRUISE MEANS, RANGES AND STANDARD ERROR
CRUISE 4, 1979

PARAMETER	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	N	STANDARD ERROR	UNITS
Temperature	13.0	27.4	M16	8.3	M27	382	0.1	°C
Dissolved oxygen	10.2	13.8	M27	6.5	02	382	0.05	mg/l
DO% saturation	94.6	117.4	M27	60.4	02	355	0.4	%
Conductivity at 25°	296	658	033	153	M1	355	4	µmhos/cm
pH	8.46	9.63	021	7.82	02	366	0.02	pH
Turbidity	16.7	95.0	031	3.1	050	360	0.8	ntu's
Alkalinity-total	96.2	140.3	032	79.3	M6	382	0.6	mg/l as CaCO ₃
Extinction depth	2.0	8.3	046	0.2	1*	231	0.09	m
Secchi	0.7	1.5	2*	0.1	3*	237	0.02	m
Total phosphorus	73.5	976.5	034	16.7	M6	341	3.6	ppb
SRP	5.5	34.0	044	<0.5	M18	260	0.3	ppb
NO ₂ + NO ₃	200.1	1671	08	5	026	354	14.4	ppb
NH ₃ ⁺	40.5	634.5	02	<2.0	4*	352	3.9	ppb
TKN, unfiltered	941	6754	047	143	M7	345	37.1	ppb
Silica	640.4	3280	044	<30	010	354	29.9	ppb
Chloride	14.9	22.2	035	7.9	M14	30	0.6	ppm
Sulfate	29.3	76.8	035	17.8	M14	30	2.2	ppm
Fluoride	NA	NA	NA	NA	NA	NA	NA	ppm
Color	NA	NA	NA	NA	NA	NA	NA	CU Pt
Suspended Solids	20.50	91.00	029	5.74	036	84	1.90	mg/l
Volatile Solids	5.81	20.50	029	1.33	M8	84	1.51	mg/l
Particulate O.C.	2669.3	7391.0	014	112.0	M8	74	211.7	ppm
Dissolved O.C.	2497.1	5994.0	01	86.0	07	37	215.0	ppm
Total O.C.	NA	NA	NA	NA	NA	NA	NA	ppm
Chlorophyll <u>a</u>	28.55	117.68	032	0.64	M6	360	1.08	µg/l
Chlorophyll <u>a</u> corrected	27.15	97.73	029	0.49	M6	360	1.02	µg/l

*Notes

1. Stations 029, 031
2. Stations M15, 049, 050
3. Stations 029, 031, 032
4. Stations M10, M26, 09, 025, 031, 033, 036, 039, 045

Table 9

Western Basin Lake Erie Nearshore Metals Cruise Means,
Ranges and Standard Error, Cruise 1, 1978

METAL	PARAMETER FORM	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	n	STANDARD ERROR	UNITS
Al	Total	835.49	4127.400	019	7.400	M14,049	72	97.81	µg/l
Ag		0.00	ND		ND		0	0.00	µg/l
As		0.00	ND		ND		0	0.00	µg/l
Cd		0.02	0.740	012	0.080	014	4	0.01	µg/l
Cr		1.27	7.116	M3,M4,M6	1.616	M15	24	0.25	µg/l
Cu		2.98	46.762	M16	1.862	M15	25	0.88	µg/l
Fe		1218.41	3876.590	019	206.590	M9	77	102.02	µg/l
Hg		0.00	ND		ND		0	0.00	µg/l
Mn		42.54	259.108	M16	7.108	M9	76	4.19	µg/l
Ni		22.62	216.460	030	5.460	M5,021,028	48	3.85	µg/l
Pb		0.91	7.181	M10,M23,020	0.581	M27	23	0.20	µg/l
Se		0.95	9.600	030	2.500	040	17	0.22	µg/l
V		0.00	ND		ND		0	0.00	µg/l
Zn		16.84	160.370	014	0.000	Note 1	77	3.77	µg/l
Al	Dissolved	67.78	312.980	047	2.980	M7,M12,M16 M23,07	60	8.18	µg/l
Ag		0.00	ND		ND		0	0.00	µg/l
As		ND	ND	ND	ND	ND	ND	ND	µg/l
Cd		0.24	3.773	037	0.373	024	10	0.09	µg/l
Cr		0.38	11.705	042	1.805	M17	6	0.19	µg/l
Cu			ND		ND		0		µg/l
Fe		44.40	334.554	043	0.754	Note 2	77	8.01	µg/l
Hg		ND	ND	ND	ND		ND	ND	µg/l
Mn		1.71	16.075	044	0.175	M16,03,04 015,017,042	43	0.39	µg/l
Ni		0.53	27.218	031	13.218	032	2	0.39	µg/l
Pb		4.21	92.000	09,032	0.500	016	59	1.52	µg/l
Se		ND	ND	ND	ND	ND	ND	ND	µg/l
V		0.00	ND		ND		0	0.00	µg/l
Zn		5.72	180.000	025	2.600	Note 3	29	2.81	µg/l

¹M1,M3,M4,M5,M24,01,02,03,04,06,07,08,09,010,011,012,013,014,015,016,017,018,019,021,022,023,024,026,028,029,031,033,034,035,036,037,038,039,040,041,042,043,044,045,047,048,049,050

²M1,M3,M5,M6,M9,M13,M15,M21,M23,M24,M26,M27,06,012,034,049

³M6,M8,M9,M10,M11,M12,M13,M14,M15,M16,M17,M18,M20,M21,M22,M23,M25,M26,M27,020,027,030,046

Table 10

Western Basin Lake Erie Nearshore Metals Cruise Means
Ranges and Standard Error, Cruise 2, 1978

METAL	PARAMETER FORM	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	n	STANDARD ERROR	UNITS	
Al	Total	770.87	7527.400	030	47.400	049	63	124.54	µg/l	
Ag		ND	ND	ND	ND	ND	0		µg/l	
As		ND	ND	ND	ND	ND	0		µg/l	
Cd		0.06	1.740	M5	0.110	M1	7	0.03	µg/l	
Cr		6.58	51.116	M16	1.816	023	21	1.56	µg/l	
Cu		42.05	343.762	M9	1.562	M20,032	54	7.16	µg/l	
Fe		830.73	8676.590	030	6.590	040	74	133.25	µg/l	
Hg		ND	ND	ND	ND	ND	0		µg/l	
Mn		30.97	209.108	030	3.908	036	67	3.70	µg/l	
Ni		12.99	86.460	021	5.460	M7,06,040	37	2.24	µg/l	
Pb		0.15	3.981	M6	0.581	M21	6	0.07	µg/l	
Se		0.03	2.500	050	2.500	050	1	0.03	µg/l	
V		0.47	36.000	031	36.000	031	1	0.47	µg/l	
Zn		47.89	190.370	021	0.000	Note 1	76	5.12	µg/l	
Al		Dissolved	7.10	142.980	06	2.980	040	12	2.75	µg/l
Ag			ND	ND	ND	ND	ND	0		µg/l
As			ND	ND	ND	ND	ND	ND	ND	
Cd	0.49		9.773	018	0.173	037	23	0.16	µg/l	
Cr	10.82		139.705	06	1.405	M25	25	3.34	µg/l	
Cu	ND		ND	ND	ND	ND	0		µg/l	
Fe	10.35		184.554	018	0.754	Note 2	76	2.67	µg/l	
Hg	ND		ND	ND	ND	ND	ND	ND		
Mn	2.59		18.075	018	0.175	M11,M15,04	64	0.42	µg/l	
Ni	2.33		107.218	06	8.218	M24	5	1.48	µg/l	
Pb	27.06		1700.000	031	0.530	030	72	22.32	µg/l	
Se	ND		ND	ND	ND	ND	ND	ND		
V	ND		ND	ND	ND	ND	0		µg/l	
Zn	534.08		25000.000	018	5.600	046	62	329.72	µg/l	

¹M3,M4,M5,M6,M7,M9,M10,M11,M13,M14,M15,M17,M18,,19

²M1,M2,M8,M9,M10,M11,M12,M13,M14,M15,M16,M17,M18,M19,M20,M21,M22,M23,M25,M26,04,05,012,013,027,029,030,031,032,036,039,044,045,046,047,048,049,050

Table 11

Western Basin Lake Erie Nearshore Metals Cruise Means, Ranges and Standard Error, Cruise 3, 1978

METAL	PARAMETER FORM	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	n	STANDARD ERROR	UNITS
Al	Total	605.49	2727.400	030	ND	07	72	79.04	µg/l
Ag			ND		ND		0		µg/l
As			ND		ND		0	0.07	µg/l
Cd		0.22	3.840	M14	0.230	M22	16	3.44	µg/l
Cr		19.85	114.116	012	2.716	M2	33	30.80	µg/l
Cu		46.99	2193.762	M17	1.662	050	26	71.85	µg/l
Fe		687.95	2676.590	021	37.590	050	76		µg/l
Hg			ND		ND		0		µg/l
Mn		35.23	139.108	023	1.908	M6	77	3.22	µg/l
Ni		13.71	136.460	M14	6.460	M1	32	2.80	µg/l
Pb		4.29	60.181	M4	0.781	M12,050	22	1.25	µg/l
Se		0.35	7.800	M1	2.700	010	7	0.14	µg/l
V			ND		ND		0		µg/l
Zn		63.97	300.370	M20	0.000	Note 1	77	10.29	µg/l
Al	Dissolved	20.07	272.980	044	1.980	M17	29	5.26	µg/l
Ag			ND		ND		0		µg/l
As		ND	ND		ND		ND	ND	µg/l
Cd		0.48	6.473	09	0.173	M3,M13,05	23	0.14	µg/l
Cr		9.67	189.705	034	1.305	040,047	27	3.72	µg/l
Cu		76.93	2394.554	012	0.754	M12,08	0		µg/l
Hg		ND	ND		ND		77	31.93	µg/l
Mn		11.03	179.075	012	0.175	Note 2	ND	ND	µg/l
Ni		9.31	207.218	012	5.018	M19	73	3.11	µg/l
Pb		80.24	3700.000	09	0.520	M5	18	3.90	µg/l
Se		ND	ND		ND	M10	71	49.45	µg/l
V			ND		ND		ND	ND	µg/l
Zn		205.73	3100.000	021	4.000	049	0	58.21	µg/l

¹M5,M6,M7,03,05,06,07,09,010,012,013,015,016,018,019,020,022,024,025,026,027,028,029,030,031,032,033,034,035,036,037,044,045,046

²M18,01,02,05,06,016,017,019,020,043

Table 12

Western Basin Lake Erie Nearshore Metals Cruise Means,
Ranges and Standard Error, Cruise 4, 1978

METAL	PARAMETER FORM	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	n	STANDARD ERROR	UNITS
Al	Total	1261.04	4527.400	031	157.400	M20	77	117.64	µg/l
Ag			ND		ND		0		µg/l
As			ND		ND		0		µg/l
Cd		3.53	17.340	M2,03	0.100	M17	49	0.58	µg/l
Cr		16.36	77.116	021	1.716	M27	42	2.54	µg/l
Cu		6.28	76.762	M12	1.562	M27	28	1.61	µg/l
Fe		1399.66	7276.590	09	206.590	020	75	167.08	µg/l
Hg			ND		ND		0		µg/l
Mn		46.41	189.108	M11	6.908	020	77	4.10	µg/l
Ni		5.58	80.460	M12	7.46	M1	20	1.62	µg/l
Pb		0.28	10.181	025	1.781	01	4	0.16	µg/l
Se		1.02	12.000	023,034	2.500	M17	15	0.29	µg/l
V		0.43	33.000	023	33.000	023	1	0.43	µg/l
Zn		14.79	120.370	M1	0.000	Note 1	77	2.65	µg/l
Al	Dissolved	11.59	302.98	014	4.980	M5	10	5.72	µg/l
Ag			ND		ND		0		µg/l
As		ND	ND	ND	ND	ND	ND	ND	µg/l
Cd		0.07	2.173	016	0.173	031	7	0.03	µg/l
Cr		3.17	18.705	04	1.905	M7	21	0.68	µg/l
Cu			ND		ND		0		µg/l
Fe		4.03	42.554	04	0.754	Note 2	77	0.78	µg/l
Hg		ND	ND	ND	ND	ND	ND	ND	µg/l
Mn		0.91	7.975	M1	0.175	020	34	0.20	µg/l
Ni		9.69	417.218	047	5.218	01	14	5.55	µg/l
Pb		9.40	570.000	04	0.510	M10	37	7.41	µg/l
Se		ND	ND	ND	ND	ND	ND	ND	µg/l
V		2.85	219.783	015	219.783	015	1	2.85	µg/l
Zn		133.91	2200.000	04	13.000	017	46	44.55	µg/o

¹M17,M19,M20,M21,M22,M23,M24,03,05,06,07,08,011,013,015,016,020,021,022,025,026,029,030,033,034,035,038,042,046,047

²M2,M6,M10,M13,M14,M15,M16,M18,M19,M20,M21,M22,M23,M24,M25,06,023,024,032,036,037,038,040,041,042,043,044,046,047,048,049,050

Table 13

Western Basin Lake Erie Nearshore Metals Cruise Means,
Ranges and Standard Error, Cruise 1, 1979

METAL	PARAMETER FORM	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	n	STANDARD ERROR	UNITS		
Al Ag As Cd Cr Cu Fe Hg Mn Ni Pb Se V Zn	Total	1861.66	9327.400	014	2.400	07	72	209.83	µg/l		
			ND		ND		0		µg/l		
			ND		ND		0		µg/l		
		0.55	3.990	012	0.090	M23,02,04 026	45	0.10	µg/l		
		2.14	18.616	042	1.616	M26	29	0.41	µg/l		
		5.80	27.262	M12	1.762	M8,024,031 043	52	0.73	µg/l		
		2764.19	14976.590	014	161.590	M21	75	298.70	µg/l		
		0.09	5.984	M24	0.139	M41	5	0.08	µg/l		
		50.18	114.108	M26	11.608	M8,M21	74	3.21	µg/l		
		8.37	86.460	M16	5.460	M6,02,019	30	1.59	µg/l		
		1.07	10.181	029	0.681	Note 1	25	0.25	µg/l		
			ND		ND		0		µg/l		
		0.79	30.500	014,021	30.500	014,021	2	0.56	µg/l		
		64.39	380.370	M5	0.000	Note 2		7.43	µg/l		
		Al Ag As Cd Cr Cu Fe Hg Mn Ni Pb Se V Zn	Dissolved	36.55	162.980	M10	2.980	Note 3	49	5.32	µg/l
				ND	ND	ND	ND	ND	ND	ND	
				ND	ND	ND	ND	ND	ND	ND	
				0.10	3.473	020	0.173	010,021	8	0.52	µg/l
				0.17	5.505	M12	1.305	M16	3	0.10	
2.71	12.000			M12	1.500	M6	47	0.31	µg/l		
0.74	11.554			012	0.854	015	11	0.26	µg/l		
ND	ND			ND	ND	ND	ND	ND			
0.15	4.375			042	0.875	010	5	0.08	µg/l		
6.25	59.218			M6	5.118	05	30	1.25	µg/l		
0.87	3.100			038	0.800	Note 4	74	0.04	µg/l		
ND	ND			ND	ND	ND	ND	ND			
	ND				ND		0		µg/l		
19.25	100.000			M3	4.000	M20,M22,M25 013,022	69	2.19	µg/l		

¹M7,M16,M23,M26,06,09,032

²M10,M14,M27,035,036,038

³M1,M12,M18,M24,M36,M44,012,023,026

⁴M1,M3,M4,M5,M6,M7,M8,M9,M10,M12,M13,M14,M15,M16,M17,M18,M19,M20,M21,M22,M23,M24,M25,M26,M27,01,02,03,04,06,07,08,09,011,015,017,019,020,021,022,023,024,025,026,027,028,029,030,031,032,033,034,035,036,037,039,040,041,042,044,045,046,047,049,050

Table 14

Western Basin Lake Erie Nearshore Metals Cruise Means,
Ranges and Standard Error, Cruise 2, 1979

METAL	PARAMETER FORM	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	n	STANDARD ERROR	UNITS	
Al	Total	1198.05	4412.660	M16	122.660	045	76	106.64	µg/l	
Ag		4.04	43.133	06	0.043	037	37	1.08	µg/l	
As			ND		ND		0		µg/l	
Cd		2.10	21.271	020	0.171	M16,M18,03,047	53	0.43	µg/l	
Cr		22.68	44.004	M27	3.004	M42	76	1.16	µg/l	
Cu		68.60	188.590	05	9.590	018,033	76	5.30	µg/l	
Fe		765.28	4031.360	M1	14.360	046	76	85.42	µg/l	
Hg			ND		ND		0		µg/l	
Mn		33.94	125.062	M1,M27	6.062	050	76	2.80	µg/l	
Ni		18.78	123.190	M8	6.190	M31	32	3.25	µg/l	
Pb		1.22	12.962	05	0.862	011	24	0.29	µg/l	
Se		8.43	71.000	012	4.000	Note 1	74	1.38	µg/l	
V			ND		ND		0		µg/l	
Zn		21.15	81.740	M8,011,012 016,035	0.000	Note 2	76	2.82	µg/l	
Al		Dissolved	40.00	317.050	011	7.050	01,042	36	7.87	µg/l
Ag			ND	ND	ND	ND	ND	ND	ND	
As			ND	ND	ND	ND	ND	ND	ND	
Cd	0.16		4.187	046	0.117	038	13	0.06	µg/l	
Cr	0.05		2.117	022	1.617	029	2	0.03	µg/l	
Cu	4.34		27.028	039	1.728	045	59	0.53	µg/l	
Fe	4.87		42.331	022	1.131	030,048	42	0.91	µg/l	
Hg	ND		ND	ND	ND	ND	ND	ND		
Mn	6.74		168.918	M12	0.218	029,039,041	62	2.29	µg/l	
Ni	1.02		19.161	035	5.861	01	8	0.39	µg/l	
Pb	0.75		3.117	026	0.517	Note 3	76	0.07	µg/l	
Se	ND		ND	ND	ND	ND	ND	ND		
V			ND		ND		0		µg/l	
Zn	4.27		20.000	02	4.000	Note 4	52	0.45	µg/l	

¹M1,M3,M4,M5,M6,M7,M8,M10,M12,M13,M14,M15,M16,M17,M19,M20,M21,M22,M24,M25,M26,M27,01,02,03,04,05,06,07,09,010,011,014,016,017,018,020,023,024,025,026,027,029,031,032,033,034,035,036,037,038,043,049,050

²M5,M6,M11,M14,M15,M18,M19,M23,08,018,019,020,022,028,030,031,032,033,040,041,044,047,049,050

³M1,M3,M4,M5,M6,M7,M8,M9,M10,M11,M12,M13,M14,M15,M16,M17,M18,M19,M20,M21,M22,M23,M26,M27,01,02,03,04,05,06,07,08,09,010,011,012,013,014,016,017,018,019,020,021,022,023,024,025,034,036,037,040,041,042,044,045,046,047,048,049,050

⁴M12,M16,M17,M25,M26,04,05,06,011,012,021,023,024,034,035,036,037,038,039,042,048

Table 15

Western Basin Lake Erie Nearshore Metals Cruise Means, Ranges and Standard Error, Cruise 3, 1979

METAL	PARAMETER FORM	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	n	STANDARD ERROR	UNITS
Al	Total	742.39	2612.660	08	192.660	M19	75	56.92	µg/l
Ag		21.03	199.133	08	ND	M18,021	41	3.81	µg/l
As		11.20	118.271	037	0.171	M20	0	1.94	µg/l
Cd		46.87	426.004	023	3.804	07	70	8.44	µg/l
Cr		36.17	228.590	032	2.590	M1	74	4.42	µg/l
Cu		855.23	5231.360	032	241.360	028	75	90.37	µg/l
Fe		0.05	0.540	044	0.100	024,047	18	0.01	µg/l
Hg		45.14	185.062	032	7.062	07	75	4.14	µg/l
Mn		46.32	333.190	M5	5.190	M24,037	38	8.75	µg/l
Ni		3.77	71.962	M22, M23	0.562	04	31	1.37	µg/l
Pb		32.77	190.000	M4	4.000	Note 1	74	5.11	µg/l
Se		296.55	4631.740	021	ND	018,020	0	67.09	µg/l
V		100.76	1397.050	029	7.050	M13,031,046	35	31.11	µg/l
Zn		ND	ND	ND	ND	049	ND	ND	µg/l
Al	Dissoived	ND	ND	ND	ND	ND	ND	ND	µg/l
Ag		0.03	1.087	04	0.307	023	3	0.02	µg/l
As		0.02	1.317	09	1.317	09	1	0.02	µg/l
Cd		3.40	62.028	M3	1.528	027	49	0.87	µg/l
Cr		16.02	317.331	038	0.831	020	69	4.57	µg/l
Cu		ND	ND	ND	ND	ND	ND	ND	µg/l
Fe		1.74	19.918	029	0.218	M23,028	50	0.36	µg/l
Hg		0.99	17.161	023	5.061	08	9	0.35	µg/l
Mn		0.70	3.017	04	0.517	Note 2	75	0.06	µg/l
Ni		ND	ND	ND	ND	ND	ND	ND	µg/l
Pb		19.26	50.000	049	8.000	028	0	0.92	µg/l
Se		ND	ND	ND	ND	ND	0	ND	µg/l
V		ND	ND	ND	ND	ND	0	ND	µg/l
Zn		ND	ND	ND	ND	ND	73	0.92	µg/l

1. M1, M5, M14, M16, M17, M18, M19, M20, M23, M26, 011, 014

2. M4, M5, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M25, M26, M27, M28, M29, M30, M31, M32, M33, M34, M36, M37, M38, M39, M40, M41, M42, M43, M44, M45, M46, M47, M48, M49, M50, M51, M52, M53, M54, M55, M56, M57, M58, M59, M60, M61, M62, M63, M64, M65, M66, M67, M68, M69, M70, M71, M72, M73, M74, M75, M76, M77, M78, M79, M80, M81, M82, M83, M84, M85, M86, M87, M88, M89, M90, M91, M92, M93, M94, M95, M96, M97, M98, M99, M100, M101, M102, M103, M104, M105, M106, M107, M108, M109, M110, M111, M112, M113, M114, M115, M116, M117, M118, M119, M120, M121, M122, M123, M124, M125, M126, M127, M128, M129, M130, M131, M132, M133, M134, M135, M136, M137, M138, M139, M140, M141, M142, M143, M144, M145, M146, M147, M148, M149, M150, M151, M152, M153, M154, M155, M156, M157, M158, M159, M160, M161, M162, M163, M164, M165, M166, M167, M168, M169, M170, M171, M172, M173, M174, M175, M176, M177, M178, M179, M180, M181, M182, M183, M184, M185, M186, M187, M188, M189, 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M356, M357, M358, M359, M360, M361, M362, M363, M364, M365, M366, M367, M368, M369, M370, M371, M372, M373, M374, M375, M376, M377, M378, M379, M380, M381, M382, M383, M384, M385, M386, M387, M388, M389, M390, M391, M392, M393, M394, M395, M396, M397, M398, M399, M400, M401, M402, M403, M404, M405, M406, M407, M408, M409, M410, M411, M412, M413, M414, M415, M416, M417, M418, M419, M420, M421, M422, M423, M424, M425, M426, M427, M428, M429, M430, M431, M432, M433, M434, M435, M436, M437, M438, M439, M440, M441, M442, M443, M444, M445, M446, M447, M448, M449, M450, M451, M452, M453, M454, M455, M456, M457, M458, M459, M460, M461, M462, M463, M464, M465, M466, M467, M468, M469, M470, M471, M472, M473, M474, M475, M476, M477, M478, M479, M480, M481, M482, M483, M484, M485, M486, M487, M488, M489, M490, M491, M492, M493, M494, M495, M496, M497, M498, M499, M500, M501, M502, M503, M504, M505, M506, M507, M508, M509, M510, M511, M512, M513, M514, M515, M516, M517, M518, M519, M520, M521, 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M688, M689, M690, M691, M692, M693, M694, M695, M696, M697, M698, M699, M700, M701, M702, M703, M704, M705, M706, M707, M708, M709, M710, M711, M712, M713, M714, M715, M716, M717, M718, M719, M720, M721, M722, M723, M724, M725, M726, M727, M728, M729, M730, M731, M732, M733, M734, M735, M736, M737, M738, M739, M740, M741, M742, M743, M744, M745, M746, M747, M748, M749, M750, M751, M752, M753, M754, M755, M756, M757, M758, M759, M760, M761, M762, M763, M764, M765, M766, M767, M768, M769, M770, M771, M772, M773, M774, M775, M776, M777, M778, M779, M780, M781, M782, M783, M784, M785, M786, M787, M788, M789, M790, M791, M792, M793, M794, M795, M796, M797, M798, M799, M800, M801, M802, M803, M804, M805, M806, M807, M808, M809, M810, M811, M812, M813, M814, M815, M816, M817, M818, M819, M820, M821, M822, M823, M824, M825, M826, M827, M828, M829, M830, M831, M832, M833, M834, M835, M836, M837, M838, M839, M840, M841, M842, M843, M844, M845, M846, M847, M848, M849, M850, M851, M852, M853, 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Table 16

Western Basin Lake Erie Nearshore Metals Cruise Means, Ranges and Standard Error, Cruise 4, 1979

METAL	PARAMETER FORM	MEAN	MAXIMUM CONCENTRATION	MAXIMUM LOCATION	MINIMUM CONCENTRATION	MINIMUM LOCATION	n	STANDARD ERROR	UNITS
Al	Total	916.74	5612.660	029	112.660	M21	76	105.28	µg/l
Ag		11.87	119.133	M5	0.073	031	54	2.32	µg/l
As		6.75	118.271	M1	ND	031	0		µg/l
Cd		20.68	48.004	02	0.171	M10	65	1.70	µg/l
Cr		37.85	188.590	029	2.804	M19,041	75	1.17	µg/l
Cu		698.47	3531.360	029	4.590	018	76	3.67	µg/l
Fe		0.05	0.680	028	121.360	02	76	71.10	µg/l
Hg		20.94	125.062	029	0.100	M8	16	0.01	µg/l
Mn		71.07	383.190	029	0.862	M10	76	2.55	µg/l
Ni		0.86	12.962	022	6.190	M10	64	9.69	µg/l
Pb		12.40	81.000	036	0.562	06,043	14	0.29	µg/l
Se		141.07	ND	050	4.000	Note 1	75	0.49	µg/l
V		0.50	17.050	032	0.000	M12,M21,M22	0		µg/l
Zn		ND	ND	032	7.050	M9,011,022	76	13.96	µg/l
Al	Dissolved	ND	ND	ND	ND	ND	4	0.27	µg/l
Ag		ND	ND	01	ND	ND	ND	ND	µg/l
As		0.12	4.587	015	ND	ND	ND	ND	µg/l
Cd		0.02	1.417	M8	0.087	M21	7	0.08	µg/l
Cr		1.49	23.028	02	1.417	015	1	0.02	µg/l
Cu		10.51	96.331	ND	1.528	030	32	0.35	µg/l
Fe		1.94	30.918	013	1.131	032	67	1.74	µg/l
Hg		0.34	11.161	010	ND	ND	ND	ND	µg/l
Mn		0.54	1.417	05	0.218	M23,M24,09	33	0.60	µg/l
Ni		ND	ND	ND	5.161	030	3	0.20	µg/l
Pb		17.66	50.000	M13	0.517	M5	76	0.02	µg/l
Se					ND	Note 2	0	ND	µg/l
V					ND	ND	73	1.00	µg/l
Zn					7.900	011	0		µg/l

¹M1,M3,M4,M5,M6,M7,M14,M15,M16,M17,M18,M19,M20,M22,M23,M24,M25,M26,M27,01,02,06,07,08,09,010,011,012,013,014,015,016,017,018,019,020,021,022,023,024,025,026,031,034,038,047,049,050

²M1,M3,M4,M5,M6,M7,M8,M9,M10,M11,M12,M13,M14,M15,M16,M17,M18,M19,M20,M21,M22,M23,M24,M25,M26,M27,01,02,03,04,06,07,08,09,010,011,012,013,014,015,016,017,018,020,021,022,023,024,025,026,027,028,029,030,032,033,034,035,036,037,038,039,040,041,042,044,045,046,047,048,049,050

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