



CERTIFICATE OF ANALYSIS

Date: May 26, 2005
ALS File No. V7867
Report On: 40692 Water Analysis
Report To: **Gartner Lee Ltd.**
2251 2nd Ave
Whitehorse, YT
Y1A 5W1
Attention: **Mr. Martin Guilbeault**
Received: May 6, 2005

ALS ENVIRONMENTAL

per:

Brent C. Mack, B.Sc. - Client Services Coordinator
Natasha Markovic-Mirovic, B.Sc. - Project Chemist

File No. V7867

REMARKS



Please note that the detection limits for certain Anions & Metals have been increased for some of the samples reported in the following data tables due to sample matrix interferences.

File No. V7867

RESULTS OF ANALYSIS - Water



Sample ID	P03- 01-01	P03- 01-02	P03- 01-03	P03- 01-04	P03- 01-05
Sample Date	05-05-03	05-05-03	05-05-03	05-05-03	05-05-03
Sample Time	10:50	10:55	11:05	11:10	11:30
ALS ID	1	2	3	4	5

Physical Tests

Conductivity	(uS/cm)	402	367	348	567	724
Hardness	CaCO3	212	190	177	328	441
pH		8.10	8.14	7.88	7.27	7.33

Dissolved Anions

Alkalinity-Total		CaCO3	221	151	128	57.9	72.8
Bromide	Br		-	-	-	-	-
Sulphate	SO4		11.0	49.2	65.8	246	327

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water

Sample ID	P03- 01-01	P03- 01-02	P03- 01-03	P03- 01-04	P03- 01-05
Sample Date	05-05-03	05-05-03	05-05-03	05-05-03	05-05-03
Sample Time	10:50	10:55	11:05	11:10	11:30
ALS ID	1	2	3	4	5

Dissolved Metals

Aluminum	D-Al	<0.010	<0.010	<0.010	<0.020	<0.020
Antimony	D-Sb	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010
Arsenic	D-As	0.0018	0.0027	0.0022	<0.0020	<0.0020
Barium	D-Ba	0.111	0.110	0.099	0.059	0.085
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000050	<0.000050	<0.000050	0.00029	0.00040
Calcium	D-Ca	62.3	58.0	54.4	102	135
Chromium	D-Cr	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010
Cobalt	D-Co	<0.00050	0.00323	0.00062	<0.0010	0.0018
Copper	D-Cu	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Iron	D-Fe	4.23	0.282	0.535	0.300	0.444
Lead	D-Pb	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Lithium	D-Li	<0.050	<0.050	<0.050	<0.050	<0.050
Magnesium	D-Mg	13.8	11.0	9.99	18.2	25.1
Manganese	D-Mn	0.195	1.09	0.162	0.075	0.458
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	0.0046	0.0046	<0.0010	<0.0020	<0.0020
Nickel	D-Ni	<0.0050	<0.0050	<0.0050	0.013	0.015
Selenium	D-Se	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Silver	D-Ag	<0.000050	<0.000050	<0.000050	<0.00010	<0.00010
Sodium	D-Na	7.8	3.6	3.1	5.5	6.6
Thallium	D-Tl	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	<0.00020	0.00216	0.00354	<0.00040	<0.00040
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.0065	0.0052	0.0079	0.0271	0.0306

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water



Sample ID	P03- 01-06	P03- 01-07	P03- 01-09	P03- 04-01	P03- 04-02
Sample Date	05-05-03	05-05-03	05-05-03	05-05-03	05-05-03
Sample Time	11:35	15:00	11:45	14:10	14:30
ALS ID	6	7	8	9	10

Physical Tests

Conductivity	(uS/cm)	963	11800	31200	1860	1380
Hardness	CaCO3	237	1150	3540	924	725
pH		6.23	4.47	3.07	7.92	7.22

Dissolved Anions

Alkalinity-Total		CaCO3	50.1	<1.0	<1.0	261	111
Bromide	Br		-	-	-	-	-
Sulphate	SO4		530	13600	54400	950	745

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water

Sample ID	P03- 01-06	P03- 01-07	P03- 01-09	P03- 04-01	P03- 04-02
Sample Date	05-05-03	05-05-03	05-05-03	05-05-03	05-05-03
Sample Time	11:35	15:00	11:45	14:10	14:30
ALS ID	6	7	8	9	10

Dissolved Metals

Aluminum	D-Al	<0.050	<1.0	<10	<0.050	<0.10
Antimony	D-Sb	<0.0025	<0.050	<0.50	<0.0025	<0.0050
Arsenic	D-As	0.0092	<0.10	<1.0	<0.0050	<0.010
Barium	D-Ba	0.104	<0.20	<1.0	<0.020	<0.020
Beryllium	D-Be	<0.0050	<0.050	<0.25	<0.0050	<0.0050
Boron	D-B	<0.10	<1.0	<5.0	<0.10	<0.10
Cadmium	D-Cd	<0.00025	<0.0050	<0.050	<0.00025	0.00060
Calcium	D-Ca	56.7	142	421	294	209
Chromium	D-Cr	<0.0025	<0.050	<0.50	<0.0025	<0.0050
Cobalt	D-Co	0.0558	<0.050	<0.50	<0.0025	0.0808
Copper	D-Cu	<0.0050	<0.10	<1.0	<0.0050	<0.010
Iron	D-Fe	148	3550	23700	5.00	0.205
Lead	D-Pb	<0.0050	<0.10	5.9	<0.0050	<0.010
Lithium	D-Li	<0.050	<0.50	<2.5	<0.050	<0.050
Magnesium	D-Mg	23.2	194	604	46.2	49.6
Manganese	D-Mn	6.21	24.9	148	1.43	26.4
Mercury	D-Hg	<0.00020	<0.00020	0.00022	<0.00020	<0.00020
Molybdenum	D-Mo	<0.0050	<0.10	<1.0	<0.0050	<0.010
Nickel	D-Ni	0.053	<0.50	<5.0	<0.025	0.120
Selenium	D-Se	<0.0050	<0.10	<1.0	<0.0050	<0.010
Silver	D-Ag	<0.00025	<0.0050	<0.050	<0.00025	<0.00050
Sodium	D-Na	45.3	408	310	94.4	36.1
Thallium	D-Tl	<0.0010	<0.020	<0.20	<0.0010	<0.0020
Titanium	D-Ti	<0.050	<0.50	<2.5	<0.050	<0.050
Uranium	D-U	<0.0010	<0.020	<0.20	0.0067	<0.0020
Vanadium	D-V	0.060	<0.30	<1.5	<0.030	0.047
Zinc	D-Zn	5.13	279	2450	0.0491	0.0459

Remarks regarding the analyses appear at the beginning of this report.

File No. V7867
RESULTS OF ANALYSIS - Water



Sample ID	P03- 04-03	P03- 04-04	P03- 04-02D	P03- 04-05	P03- 04-06
Sample Date	05-05-03	05-05-03	05-05-03	05-05-03	05-05-03
Sample Time	15:10	15:15	14:35	15:30	15:45
ALS ID	11	12	13	14	15

Physical Tests

Conductivity	(uS/cm)	1350	1080	1370	1420	7470
Hardness	CaCO3	647	393	681	709	1360
pH		6.97	8.06	7.23	7.11	4.01

Dissolved Anions

Alkalinity-Total		CaCO3	88.0	208	107	141	57.9
Bromide	Br		-	-	-	-	-
Sulphate	SO4		729	409	693	710	8060

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water

Sample ID	P03- 04-03	P03- 04-04	P03- 04-02D	P03- 04-05	P03- 04-06
Sample Date	05-05-03	05-05-03	05-05-03	05-05-03	05-05-03
Sample Time	15:10	15:15	14:35	15:30	15:45
ALS ID	11	12	13	14	15

Dissolved Metals

Aluminum	D-Al	<0.10	<0.020	<0.10	<0.10	<1.0
Antimony	D-Sb	<0.0050	<0.0010	<0.0050	<0.0050	<0.050
Arsenic	D-As	<0.010	0.0049	<0.010	<0.010	<0.10
Barium	D-Ba	<0.020	0.051	<0.020	0.060	<0.20
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<1.0
Cadmium	D-Cd	0.00064	<0.00010	0.00065	<0.00050	<0.0050
Calcium	D-Ca	185	127	195	208	398
Chromium	D-Cr	<0.0050	<0.0010	<0.0050	<0.0050	<0.050
Cobalt	D-Co	0.0667	0.0025	0.0843	0.0273	<0.050
Copper	D-Cu	<0.010	<0.0020	<0.010	<0.010	<0.10
Iron	D-Fe	0.411	3.53	0.206	24.7	3770
Lead	D-Pb	<0.010	<0.0020	<0.010	<0.010	<0.10
Lithium	D-Li	<0.050	<0.050	<0.050	<0.050	<0.50
Magnesium	D-Mg	45.2	18.3	46.9	45.9	89.9
Manganese	D-Mn	24.7	2.84	25.2	29.6	25.1
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.010	0.0025	<0.010	<0.010	<0.10
Nickel	D-Ni	0.104	<0.010	0.127	<0.050	<0.50
Selenium	D-Se	<0.010	<0.0020	<0.010	<0.010	<0.10
Silver	D-Ag	<0.00050	<0.00010	<0.00050	<0.00050	<0.0050
Sodium	D-Na	32.9	86.9	32.0	29.6	44
Thallium	D-Tl	<0.0020	<0.00040	<0.0020	<0.0020	<0.020
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050	<0.50
Uranium	D-U	<0.0020	0.00228	<0.0020	<0.0020	<0.020
Vanadium	D-V	0.068	<0.030	0.057	0.059	<0.30
Zinc	D-Zn	0.0460	0.0059	0.0424	0.0742	5.08

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water



Sample ID	P03- 04-07	P03- 04-08	P03- 04-09	P03- 06-01	P03- 06-02
Sample Date	05-05-03	05-05-03	05-05-03	05-05-03	05-05-03
Sample Time	15:58	16:06	16:30	17:38	17:50
ALS ID	16	17	18	19	20

Physical Tests

	(uS/cm)					
Conductivity	(uS/cm)	5410	8230	6800	1600	1650
Hardness	CaCO3	1550	1190	-	866	919
pH		5.06	3.35	3.56	7.64	7.65

Dissolved Anions

		CaCO3				
Alkalinity-Total		69.0	<1.0	<1.0	184	185
Bromide	Br	-	-	-	-	-
Sulphate	SO4	4960	8350	<10	775	810

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water

Sample ID	P03- 04-07	P03- 04-08	P03- 06-01	P03- 06-02
Sample Date	05-05-03	05-05-03	05-05-03	05-05-03
Sample Time	15:58	16:06	17:38	17:50
ALS ID	16	17	19	20

Dissolved Metals

Aluminum	D-Al	<0.50	<1.0	<0.10	<0.10
Antimony	D-Sb	<0.025	<0.050	<0.0050	<0.0050
Arsenic	D-As	<0.050	<0.10	<0.010	<0.010
Barium	D-Ba	<0.20	<0.20	<0.20	0.097
Beryllium	D-Be	<0.050	<0.050	<0.050	<0.0050
Boron	D-B	<1.0	<1.0	<1.0	<0.10
Cadmium	D-Cd	<0.0025	<0.0050	<0.00050	<0.00050
Calcium	D-Ca	442	389	238	254
Chromium	D-Cr	<0.025	<0.050	<0.0050	<0.0050
Cobalt	D-Co	0.036	<0.050	0.0227	0.0222
Copper	D-Cu	<0.050	<0.10	<0.010	<0.010
Iron	D-Fe	1960	3830	0.51	0.583
Lead	D-Pb	<0.050	<0.10	<0.010	<0.010
Lithium	D-Li	<0.50	<0.50	<0.50	<0.050
Magnesium	D-Mg	107	53.9	66.3	69.0
Manganese	D-Mn	14.3	21.0	18.8	17.7
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.050	<0.10	<0.010	<0.010
Nickel	D-Ni	<0.25	<0.50	<0.050	<0.050
Selenium	D-Se	<0.050	<0.10	<0.010	<0.010
Silver	D-Ag	<0.0025	<0.0050	<0.00050	<0.00050
Sodium	D-Na	85	<20	33	36.3
Thallium	D-Tl	<0.010	<0.020	<0.0020	<0.0020
Titanium	D-Ti	<0.50	<0.50	<0.50	<0.050
Uranium	D-U	<0.010	<0.020	0.0150	0.0148
Vanadium	D-V	<0.30	<0.30	<0.30	0.048
Zinc	D-Zn	1.80	2.76	0.176	0.239

Remarks regarding the analyses appear at the beginning of this report.

File No. V7867

RESULTS OF ANALYSIS - Water



Sample ID	P03- 06-03	P03- 06-04	P03- 06-05	P03- 05-01	P03- 05-02
Sample Date	05-05-03	05-05-03	05-05-03	05-05-04	05-05-04
Sample Time	17:56	18:04	18:15	10:30	10:45
ALS ID	21	22	23	24	25

Physical Tests

Conductivity	(uS/cm)	1390	1310	3730	1450	979
Hardness	CaCO3	730	594	2110	808	516
pH		7.33	6.36	5.10	7.87	7.66

Dissolved Anions

Alkalinity-Total		CaCO3	153	45.3	<1.0	182	136
Bromide	Br		-	-	-	<0.050	<0.050
Sulphate	SO4		643	685	1560	713	437

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water

Sample ID	P03- 06-03	P03- 06-04	P03- 06-05	P03- 05-01	P03- 05-02
Sample Date	05-05-03	05-05-03	05-05-03	05-05-04	05-05-04
Sample Time	17:56	18:04	18:15	10:30	10:45
ALS ID	21	22	23	24	25

Dissolved Metals

Aluminum	D-Al	<0.10	<0.050	<1.0	<0.050	<0.050
Antimony	D-Sb	<0.0050	<0.0025	<0.050	<0.0025	<0.0025
Arsenic	D-As	<0.010	<0.0050	<0.10	<0.0050	0.0054
Barium	D-Ba	0.032	0.075	<0.020	0.035	0.125
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.00050	<0.00025	<0.0050	<0.00025	<0.00025
Calcium	D-Ca	200	167	159	248	156
Chromium	D-Cr	<0.0050	<0.0025	<0.050	<0.0025	<0.0025
Cobalt	D-Co	0.133	0.0279	0.078	<0.0025	0.0086
Copper	D-Cu	<0.010	<0.0050	<0.10	<0.0050	<0.0050
Iron	D-Fe	22.0	153	353	5.75	6.15
Lead	D-Pb	<0.010	<0.0050	<0.10	<0.0050	<0.0050
Lithium	D-Li	<0.050	<0.050	0.092	<0.050	<0.050
Magnesium	D-Mg	56.2	43.2	415	46.0	30.7
Manganese	D-Mn	18.2	14.5	82.2	0.692	11.0
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.010	<0.0050	<0.10	<0.0050	<0.0050
Nickel	D-Ni	0.204	0.048	0.54	<0.025	<0.025
Selenium	D-Se	<0.010	<0.0050	<0.10	<0.0050	<0.0050
Silver	D-Ag	<0.00050	<0.00025	<0.0050	<0.00025	<0.00025
Sodium	D-Na	32.4	22.6	43.0	27.8	11.4
Thallium	D-Tl	<0.0020	<0.0010	<0.020	<0.0010	<0.0010
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	0.0070	0.0276	<0.020	<0.0010	0.0044
Vanadium	D-V	0.040	0.085	0.303	<0.030	0.044
Zinc	D-Zn	0.348	6.66	242	0.0225	0.0079

Remarks regarding the analyses appear at the beginning of this report.

File No. V7867
RESULTS OF ANALYSIS - Water



Sample ID	P03- 05-03	P03- 05-04	P03- 05-05	P03- 05-06	P03- 05-07
Sample Date	05-05-04	05-05-04	05-05-04	05-05-04	05-05-04
Sample Time	10:50	11:00	11:15	11:36	11:47
ALS ID	26	27	28	29	30

Physical Tests

Conductivity	(uS/cm)	875	881	1560	2700	7140
Hardness	CaCO3	469	466	690	1030	2380
pH		7.77	7.80	6.25	7.49	4.00

Dissolved Anions

Alkalinity-Total		CaCO3	140	141	48.3	108	46.9
Bromide	Br		<0.050	<0.050	<0.50	<0.50	<5.0
Sulphate	SO4		360	365	993	1560	4060

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water

Sample ID	P03- 05-03	P03- 05-04	P03- 05-05	P03- 05-06	P03- 05-07
Sample Date	05-05-04	05-05-04	05-05-04	05-05-04	05-05-04
Sample Time	10:50	11:00	11:15	11:36	11:47
ALS ID	26	27	28	29	30

Dissolved Metals

Aluminum	D-Al	<0.050	<0.050	<0.050	0.617	<0.50
Antimony	D-Sb	<0.0025	<0.0025	<0.0025	0.0050	<0.025
Arsenic	D-As	<0.0050	<0.0050	0.0092	0.0086	<0.050
Barium	D-Ba	0.166	0.177	0.031	0.123	<0.20
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<1.0
Cadmium	D-Cd	<0.00025	<0.00025	<0.00025	0.00117	<0.0025
Calcium	D-Ca	143	143	172	164	285
Chromium	D-Cr	<0.0025	<0.0025	<0.0025	0.0039	<0.025
Cobalt	D-Co	0.0041	0.0049	0.0080	<0.0025	<0.025
Copper	D-Cu	<0.0050	<0.0050	<0.0050	0.0298	<0.050
Iron	D-Fe	0.896	0.094	191	23.1	2160
Lead	D-Pb	<0.0050	<0.0050	<0.0050	1.94	<0.050
Lithium	D-Li	<0.050	<0.050	<0.050	<0.050	<0.50
Magnesium	D-Mg	26.9	26.7	63.2	150	405
Manganese	D-Mn	10.5	11.4	17.3	0.328	31.5
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
Nickel	D-Ni	<0.025	<0.025	<0.025	<0.025	<0.25
Selenium	D-Se	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
Silver	D-Ag	<0.00025	<0.00025	<0.00025	<0.00025	<0.0025
Sodium	D-Na	11.7	11.8	46.0	296	271
Thallium	D-Tl	<0.0010	<0.0010	<0.0010	<0.0010	<0.010
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050	<0.50
Uranium	D-U	0.0041	0.0051	0.0013	<0.0010	<0.010
Vanadium	D-V	0.039	<0.030	0.100	<0.030	<0.30
Zinc	D-Zn	0.0073	0.0076	0.0081	0.725	<0.050

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water



Sample ID	P03- 05-08	P03- 05-05S	P03- 09-01	P03- 09-02	P03- 09-03
Sample Date	05-05-04	05-05-04	05-05-04	05-05-04	05-05-04
Sample Time	12:00	11:20	13:55	14:00	14:08
ALS ID	31	32	33	34	35

Physical Tests

Conductivity	(uS/cm)	6170	1570	1280	1250	995
Hardness	CaCO3	1990	747	698	689	571
pH		4.14	6.18	7.92	7.91	8.01

Dissolved Anions

Alkalinity-Total		CaCO3	43.9	58.2	344	333	250
Bromide	Br		<5.0	<0.50	-	-	-
Sulphate	SO4		4470	916	385	378	309

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water

Sample ID	P03- 05-08	P03- 05-05S	P03- 09-01	P03- 09-02	P03- 09-03
Sample Date	05-05-04	05-05-04	05-05-04	05-05-04	05-05-04
Sample Time	12:00	11:20	13:55	14:00	14:08
ALS ID	31	32	33	34	35

Dissolved Metals

Aluminum	D-Al	<0.50	<0.050	<0.050	<0.020	<0.020
Antimony	D-Sb	<0.025	<0.0025	<0.0025	<0.0010	<0.0010
Arsenic	D-As	<0.050	0.0101	<0.0050	<0.0020	<0.0020
Barium	D-Ba	<0.20	0.034	0.041	0.042	0.045
Beryllium	D-Be	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<1.0	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.0025	<0.00025	<0.00025	<0.00010	<0.00010
Calcium	D-Ca	263	187	185	182	171
Chromium	D-Cr	<0.025	<0.0025	<0.0025	<0.0010	<0.0010
Cobalt	D-Co	<0.025	0.0088	<0.0025	<0.0010	0.0049
Copper	D-Cu	<0.050	<0.0050	<0.0050	<0.0020	<0.0020
Iron	D-Fe	1540	210	7.17	7.20	0.090
Lead	D-Pb	0.077	<0.0050	<0.0050	<0.0020	<0.0020
Lithium	D-Li	<0.50	<0.050	<0.050	<0.050	<0.050
Magnesium	D-Mg	324	68.1	57.2	57.1	34.6
Manganese	D-Mn	22.4	19.0	0.419	0.417	6.61
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.050	<0.0050	<0.0050	<0.0020	<0.0020
Nickel	D-Ni	<0.25	<0.025	<0.025	<0.010	<0.010
Selenium	D-Se	<0.050	<0.0050	<0.0050	<0.0020	<0.0020
Silver	D-Ag	<0.0025	<0.00025	<0.00025	<0.00010	<0.00010
Sodium	D-Na	282	47.3	48.7	48.0	31.2
Thallium	D-Tl	<0.010	<0.0010	<0.0010	<0.00040	<0.00040
Titanium	D-Ti	<0.50	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	<0.010	0.0014	0.0015	0.00153	0.00601
Vanadium	D-V	<0.30	0.115	<0.030	<0.030	<0.030
Zinc	D-Zn	0.136	<0.0050	<0.0050	0.0055	0.0058

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water



Sample ID	P03- 09-04	P03- 09-05	P03- 09-06	P03- 09-07	P03- 09-08
Sample Date	05-05-04	05-05-04	05-05-04	05-05-04	05-05-04
Sample Time	14:11	14:17	14:22	14:28	14:31
ALS ID	36	37	38	39	40

Physical Tests

Conductivity	(uS/cm)	1010	989	1120	1180	1180
Hardness	CaCO3	570	553	612	686	663
pH		8.01	8.02	7.99	7.96	8.04

Dissolved Anions

Alkalinity-Total		CaCO3	253	250	269	264	267
Bromide	Br		-	-	-	-	-
Sulphate	SO4		319	311	372	415	412

Remarks regarding the analyses appear at the beginning of this report.

File No. V7867
RESULTS OF ANALYSIS - Water



Sample ID	P03- 09-04	P03- 09-05	P03- 09-06	P03- 09-07	P03- 09-08
Sample Date	05-05-04	05-05-04	05-05-04	05-05-04	05-05-04
Sample Time	14:11	14:17	14:22	14:28	14:31
ALS ID	36	37	38	39	40

Dissolved Metals

Aluminum	D-Al	<0.020	<0.020	<0.050	<0.050	<0.050
Antimony	D-Sb	<0.0010	<0.0010	<0.0025	<0.0025	<0.0025
Arsenic	D-As	<0.0020	<0.0020	<0.0050	<0.0050	<0.0050
Barium	D-Ba	0.042	0.042	0.063	0.066	0.072
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.00016	<0.00010	<0.00025	<0.00025	<0.00025
Calcium	D-Ca	172	168	184	210	203
Chromium	D-Cr	<0.0010	<0.0010	<0.0025	<0.0025	<0.0025
Cobalt	D-Co	0.0034	0.0044	<0.0025	<0.0025	0.0027
Copper	D-Cu	<0.0020	<0.0020	<0.0050	<0.0050	<0.0050
Iron	D-Fe	0.034	0.037	0.100	0.066	0.943
Lead	D-Pb	<0.0020	<0.0020	<0.0050	<0.0050	<0.0050
Lithium	D-Li	<0.050	<0.050	<0.050	<0.050	<0.050
Magnesium	D-Mg	34.3	32.7	37.1	39.6	37.7
Manganese	D-Mn	6.14	6.17	5.92	7.32	7.33
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.0020	<0.0020	<0.0050	<0.0050	<0.0050
Nickel	D-Ni	<0.010	<0.010	<0.025	<0.025	<0.025
Selenium	D-Se	<0.0020	<0.0020	<0.0050	<0.0050	<0.0050
Silver	D-Ag	<0.00010	<0.00010	<0.00025	<0.00025	<0.00025
Sodium	D-Na	30.3	27.7	33.6	34.8	34.3
Thallium	D-Tl	<0.00040	<0.00040	<0.0010	<0.0010	<0.0010
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	0.00583	0.00610	0.0050	0.0060	0.0059
Vanadium	D-V	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.0071	0.0060	<0.0050	0.0065	0.0055

Remarks regarding the analyses appear at the beginning of this report.

File No. V7867
RESULTS OF ANALYSIS - Water



Sample ID	P03- 09-09	X17B	X17BR	X24C	X16A
Sample Date	05-05-04	05-05-04	05-05-04	05-05-04	05-05-04
Sample Time	14:36	09:52	09:52	15:10	13:26
ALS ID	41	42	43	44	45

Physical Tests

Conductivity	(uS/cm)	1170	1100	1120	2420	315
Hardness	CaCO3	684	577	564	1600	181
pH		8.01	7.93	7.96	7.68	8.19

Dissolved Anions

Alkalinity-Total		CaCO3	267	428	427	338	155
Bromide	Br		-	-	-	-	-
Sulphate	SO4		417	215	245	1410	24.8

Remarks regarding the analyses appear at the beginning of this report.

File No. V7867
RESULTS OF ANALYSIS - Water



Sample ID	P03- 09-09	X17B	X17BR	X24C	X16A
Sample Date	05-05-04	05-05-04	05-05-04	05-05-04	05-05-04
Sample Time	14:36	09:52	09:52	15:10	13:26
ALS ID	41	42	43	44	45

Dissolved Metals

Aluminum	D-Al	<0.050	<0.020	<0.020	<0.20	<0.010
Antimony	D-Sb	<0.0025	<0.0010	<0.0010	<0.010	<0.00050
Arsenic	D-As	<0.0050	<0.0020	<0.0020	<0.020	<0.0010
Barium	D-Ba	0.079	0.241	0.233	0.020	0.091
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.00025	<0.00010	<0.00010	<0.0010	<0.000050
Calcium	D-Ca	210	161	157	468	50.8
Chromium	D-Cr	<0.0025	<0.0010	<0.0010	<0.010	<0.00050
Cobalt	D-Co	0.0027	<0.0010	<0.0010	0.062	<0.00050
Copper	D-Cu	<0.0050	<0.0020	<0.0020	<0.020	<0.0010
Iron	D-Fe	0.107	3.48	3.43	0.165	<0.030
Lead	D-Pb	<0.0050	<0.0020	<0.0020	<0.020	<0.0010
Lithium	D-Li	<0.050	<0.050	<0.050	<0.050	<0.050
Magnesium	D-Mg	38.4	42.6	41.9	104	13.2
Manganese	D-Mn	7.05	0.567	0.558	39.0	<0.010
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.0050	<0.0020	<0.0020	<0.020	0.0025
Nickel	D-Ni	<0.025	<0.010	<0.010	0.11	<0.0050
Selenium	D-Se	<0.0050	<0.0020	<0.0020	<0.020	<0.0010
Silver	D-Ag	<0.00025	<0.00010	<0.00010	<0.0010	<0.000050
Sodium	D-Na	35.9	37.4	36.0	39.9	<2.0
Thallium	D-Tl	<0.0010	<0.00040	<0.00040	<0.0040	<0.00020
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	0.0060	0.00176	0.00169	0.0069	0.00179
Vanadium	D-V	<0.030	<0.030	<0.030	0.104	<0.030
Zinc	D-Zn	0.0051	0.0102	0.0109	0.0187	0.0077

Remarks regarding the analyses appear at the beginning of this report.

File No. V7867
RESULTS OF ANALYSIS - Water



Sample ID	X16B	X16BR	X18B	X24D	P01-01B
Sample Date	05-05-04	05-05-04	05-05-04	05-05-04	05-05-04
Sample Time	13:26	13:26	12:00	15:11	10:58
ALS ID	46	47	48	49	50

Physical Tests

Conductivity	(uS/cm)	391	389	1360	2500	1080
Hardness	CaCO3	236	238	831	1760	651
pH		8.29	8.32	8.05	7.71	8.10

Dissolved Anions

Alkalinity-Total		CaCO3	210	202	251	354	249
Bromide	Br		-	-	-	-	-
Sulphate	SO4		27.5	27.0	566	1450	399

Remarks regarding the analyses appear at the beginning of this report.

File No. V7867
RESULTS OF ANALYSIS - Water



Sample ID	X16B	X16BR	X18B	X24D	P01-01B
Sample Date	05-05-04	05-05-04	05-05-04	05-05-04	05-05-04
Sample Time	13:26	13:26	12:00	15:11	10:58
ALS ID	46	47	48	49	50

Dissolved Metals

Aluminum	D-Al	<0.010	<0.010	<0.050	<0.10	<0.020
Antimony	D-Sb	<0.00050	<0.00050	<0.0025	<0.0050	<0.0010
Arsenic	D-As	<0.0010	<0.0010	<0.0050	<0.010	0.0038
Barium	D-Ba	0.144	0.145	0.156	0.025	0.081
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000050	<0.000050	0.00039	0.00257	<0.00010
Calcium	D-Ca	64.7	65.5	238	522	196
Chromium	D-Cr	<0.00050	<0.00050	<0.0025	<0.0050	<0.0010
Cobalt	D-Co	<0.00050	<0.00050	<0.0025	0.0325	<0.0010
Copper	D-Cu	<0.0010	<0.0010	<0.0050	<0.010	<0.0020
Iron	D-Fe	<0.030	<0.030	0.115	0.034	0.756
Lead	D-Pb	<0.0010	<0.0010	<0.0050	<0.010	<0.0020
Lithium	D-Li	<0.050	<0.050	<0.050	<0.050	<0.050
Magnesium	D-Mg	18.1	18.1	57.4	110	39.2
Manganese	D-Mn	<0.010	<0.010	3.02	35.7	0.118
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	0.0018	0.0019	<0.0050	<0.010	<0.0020
Nickel	D-Ni	<0.0050	<0.0050	<0.025	0.157	<0.010
Selenium	D-Se	0.0020	0.0020	<0.0050	<0.010	<0.0020
Silver	D-Ag	<0.000050	<0.000050	<0.00025	<0.00050	<0.00010
Sodium	D-Na	<2.0	<2.0	24.2	50.6	26.8
Thallium	D-Tl	<0.00020	<0.00020	<0.0010	<0.0020	<0.00040
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	0.00211	0.00207	0.0105	0.0050	0.00588
Vanadium	D-V	<0.030	<0.030	<0.030	0.071	<0.030
Zinc	D-Zn	0.0051	<0.0050	0.0080	0.0517	0.0065

Remarks regarding the analyses appear at the beginning of this report.

File No. V7867
RESULTS OF ANALYSIS - Water



Sample ID	P01-03	V36	V35	V37	V34
Sample Date	05-05-04	05-05-03	05-05-03	05-05-03	05-05-03
Sample Time	10:58	14:05	10:08	15:00	09:41
ALS ID	51	52	53	54	55

Physical Tests

Conductivity	(uS/cm)	2340	1580	1410	829	796
Hardness	CaCO3	1760	1140	1040	495	528
pH		7.69	8.13	8.15	8.40	8.31

Dissolved Anions

Alkalinity-Total		CaCO3	315	440	383	420	436
Bromide	Br		-	-	-	-	-
Sulphate	SO4		1360	509	495	77.9	42.5

Remarks regarding the analyses appear at the beginning of this report.

File No. V7867
RESULTS OF ANALYSIS - Water



Sample ID	P01-03	V36	V35	V37	V34
Sample Date	05-05-04	05-05-03	05-05-03	05-05-03	05-05-03
Sample Time	10:58	14:05	10:08	15:00	09:41
ALS ID	51	52	53	54	55

Dissolved Metals

Aluminum	D-Al	<0.10	0.103	<0.050	0.065	<0.010
Antimony	D-Sb	<0.0050	<0.0025	<0.0025	<0.00050	<0.00050
Arsenic	D-As	<0.010	0.0818	<0.0050	0.0022	0.0014
Barium	D-Ba	<0.020	0.024	0.023	0.180	0.116
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.00113	<0.00025	<0.00025	<0.000050	<0.000050
Calcium	D-Ca	516	225	227	66.3	74.9
Chromium	D-Cr	<0.0050	<0.0025	<0.0025	<0.00050	<0.00050
Cobalt	D-Co	0.0587	<0.0025	<0.0025	<0.00050	<0.00050
Copper	D-Cu	<0.010	<0.0050	<0.0050	<0.0010	<0.0010
Iron	D-Fe	0.270	0.820	0.046	1.15	0.551
Lead	D-Pb	<0.010	0.0081	<0.0050	<0.0010	<0.0010
Lithium	D-Li	<0.050	<0.050	<0.050	<0.050	<0.050
Magnesium	D-Mg	113	141	115	79.9	82.7
Manganese	D-Mn	39.1	0.197	<0.010	0.101	0.104
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.010	<0.0050	<0.0050	0.0234	0.0051
Nickel	D-Ni	0.091	<0.025	<0.025	<0.0050	<0.0050
Selenium	D-Se	<0.010	<0.0050	<0.0050	<0.0010	<0.0010
Silver	D-Ag	<0.00050	<0.00025	<0.00025	<0.000050	<0.000050
Sodium	D-Na	47.7	8.4	6.6	24.4	5.7
Thallium	D-Tl	<0.0020	<0.0010	<0.0010	<0.00020	<0.00020
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	0.0072	0.0313	0.0424	0.00043	0.00568
Vanadium	D-V	0.099	<0.030	<0.030	<0.030	<0.030
Zinc	D-Zn	0.0188	0.0168	0.0104	0.0066	0.0086

Remarks regarding the analyses appear at the beginning of this report.

File No. V7867
RESULTS OF ANALYSIS - Water



Sample ID	P96- 8A	P96- 8B	P96- 9A	P96- 9AR	P96- 52A
Sample Date	05-05-03	05-05-03	05-05-03	05-05-03	05-05-03
Sample Time	16:35	16:35	15:37	15:37	10:57
ALS ID	56	57	58	59	60

Physical Tests

Conductivity	(uS/cm)	197	5540	2210	2210	1320
Hardness	CaCO3	94.4	3770	1480	1480	791
pH		6.76	7.01	7.85	7.89	8.07

Dissolved Anions

Alkalinity-Total		CaCO3	12.4	214	412	421	469
Bromide	Br		-	-	-	-	-
Sulphate	SO4		71.2	4520	994	987	338

Remarks regarding the analyses appear at the beginning of this report.

RESULTS OF ANALYSIS - Water

Sample ID	P96- 8A	P96- 8B	P96- 9A	P96- 9AR	P96- 52A
Sample Date	05-05-03	05-05-03	05-05-03	05-05-03	05-05-03
Sample Time	16:35	16:35	15:37	15:37	10:57
ALS ID	56	57	58	59	60

Dissolved Metals

Aluminum	D-Al	0.029	<0.50	<0.050	<0.050	<0.050
Antimony	D-Sb	0.00110	<0.025	<0.0025	<0.0025	<0.0025
Arsenic	D-As	<0.0010	<0.050	<0.0050	<0.0050	0.0206
Barium	D-Ba	0.042	<0.10	0.063	0.061	0.028
Beryllium	D-Be	<0.0050	<0.025	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.50	<0.10	<0.10	<0.10
Cadmium	D-Cd	0.000901	0.0410	0.00077	0.00076	<0.0025
Calcium	D-Ca	25.6	424	297	300	173
Chromium	D-Cr	<0.00050	<0.025	<0.0025	<0.0025	<0.0025
Cobalt	D-Co	<0.00050	0.395	0.0036	0.0036	<0.0025
Copper	D-Cu	0.0044	<0.050	<0.0050	<0.0050	<0.0050
Iron	D-Fe	0.064	0.22	0.071	0.096	1.70
Lead	D-Pb	<0.0010	<0.050	<0.0050	<0.0050	<0.0050
Lithium	D-Li	<0.050	<0.25	<0.050	<0.050	<0.050
Magnesium	D-Mg	7.39	659	180	177	87.5
Manganese	D-Mn	0.014	49.0	0.885	0.880	0.127
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.0010	<0.050	<0.0050	<0.0050	<0.0050
Nickel	D-Ni	0.0108	0.69	<0.025	<0.025	<0.025
Selenium	D-Se	<0.0010	<0.050	<0.0050	<0.0050	<0.0050
Silver	D-Ag	<0.000050	<0.0025	<0.00025	<0.00025	<0.00025
Sodium	D-Na	<2.0	53	12.2	12.0	7.8
Thallium	D-Tl	<0.00020	<0.010	<0.0010	<0.0010	<0.0010
Titanium	D-Ti	<0.050	<0.25	<0.050	<0.050	<0.050
Uranium	D-U	<0.00020	<0.010	0.0232	0.0226	0.0216
Vanadium	D-V	<0.030	0.17	<0.030	0.043	<0.030
Zinc	D-Zn	1.67	173	0.0192	0.0242	0.0088

Remarks regarding the analyses appear at the beginning of this report.

Appendix 1 - QUALITY CONTROL - Replicates



Water		P03- 04-05	P03- 04-05	P03- 06-02	P03- 06-02
		05-05-03 15:30	QC # 440106	05-05-03 17:50	QC # 440107

Physical Tests

Conductivity	(uS/cm)	1420	1420	1650	1660
Hardness	CaCO3	709	723	919	946
pH		7.11	7.11	7.65	7.66

Dissolved Anions

Alkalinity-Total		CaCO3	141	150	185	173
Sulphate	SO4		710	703	810	812

Remarks regarding the analyses appear at the beginning of this report.

Appendix 1 - QUALITY CONTROL - Replicates



Water	P03- 04-05	P03- 04-05	P03- 06-02	P03- 06-02
	05-05-03 15:30	QC # 440106	05-05-03 17:50	QC # 440107

Dissolved Metals

Aluminum	D-Al	<0.10	<0.10	<0.10	<0.10
Antimony	D-Sb	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	D-As	<0.010	<0.010	<0.010	<0.010
Barium	D-Ba	0.060	0.059	0.097	0.095
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.00050	<0.00050	<0.00050	<0.00050
Calcium	D-Ca	208	215	254	261
Chromium	D-Cr	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt	D-Co	0.0273	0.0279	0.0222	0.0212
Copper	D-Cu	<0.010	<0.010	<0.010	<0.010
Iron	D-Fe	24.7	24.3	0.583	0.570
Lead	D-Pb	<0.010	<0.010	<0.010	<0.010
Lithium	D-Li	<0.050	<0.050	<0.050	<0.050
Magnesium	D-Mg	45.9	45.1	69.0	71.3
Manganese	D-Mn	29.6	28.9	17.7	17.2
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.010	<0.010	<0.010	<0.010
Nickel	D-Ni	<0.050	<0.050	<0.050	<0.050
Selenium	D-Se	<0.010	<0.010	<0.010	<0.010
Silver	D-Ag	<0.00050	<0.00050	<0.00050	<0.00050
Sodium	D-Na	29.6	29.0	36.3	35.7
Thallium	D-Tl	<0.0020	<0.0020	<0.0020	<0.0020
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	<0.0020	<0.0020	0.0148	0.0145
Vanadium	D-V	0.059	0.069	0.048	0.050
Zinc	D-Zn	0.0742	0.0767	0.239	0.248

Remarks regarding the analyses appear at the beginning of this report.

Appendix 1 - QUALITY CONTROL - Replicates



Water		P03- 06-05	P03- 06-05	X16A	X16A
		05-05-03 18:15	QC # 440108	05-05-04 13:26	QC # 440109

Physical Tests

Conductivity	(uS/cm)		3730	3720	315	315
Hardness	CaCO3		2110	2000	181	184
pH			5.10	4.88	8.19	8.21

Dissolved Anions

Alkalinity-Total		CaCO3	<1.0	<1.0	155	156
Sulphate	SO4		1560	1530	24.8	24.7

Remarks regarding the analyses appear at the beginning of this report.

Appendix 1 - QUALITY CONTROL - Replicates



Water		P03- 06-05	P03- 06-05	X16A	X16A
		05-05-03 18:15	QC # 440108	05-05-04 13:26	QC # 440109
Dissolved Metals					
Aluminum	D-Al	<1.0	<1.0	<0.010	<0.010
Antimony	D-Sb	<0.050	<0.050	<0.00050	<0.00050
Arsenic	D-As	<0.10	<0.10	<0.0010	<0.0010
Barium	D-Ba	<0.020	<0.020	0.091	0.093
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.0050	<0.0050	<0.000050	<0.000050
Calcium	D-Ca	159	154	50.8	51.6
Chromium	D-Cr	<0.050	<0.050	<0.00050	<0.00050
Cobalt	D-Co	0.078	0.084	<0.00050	<0.00050
Copper	D-Cu	<0.10	<0.10	<0.0010	<0.0010
Iron	D-Fe	353	350	<0.030	<0.030
Lead	D-Pb	<0.10	<0.10	<0.0010	<0.0010
Lithium	D-Li	0.092	0.091	<0.050	<0.050
Magnesium	D-Mg	415	393	13.2	13.4
Manganese	D-Mn	82.2	81.2	<0.010	<0.010
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	<0.10	<0.10	0.0025	0.0025
Nickel	D-Ni	0.54	0.57	<0.0050	<0.0050
Selenium	D-Se	<0.10	<0.10	<0.0010	0.0010
Silver	D-Ag	<0.0050	<0.0050	<0.000050	<0.000050
Sodium	D-Na	43.0	40.4	<2.0	<2.0
Thallium	D-Tl	<0.020	<0.020	<0.00020	<0.00020
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	<0.020	<0.020	0.00179	0.00181
Vanadium	D-V	0.303	0.325	<0.030	<0.030
Zinc	D-Zn	242	238	0.0077	0.0075

Remarks regarding the analyses appear at the beginning of this report.

Appendix 1 - QUALITY CONTROL - Replicates



Water	X16B	X16B	P96- 9A	P96- 9A
	05-05-04 13:26	QC # 440110	05-05-03 15:37	QC # 440111

Physical Tests

Conductivity	(uS/cm)	391	391	2210	2210
Hardness	CaCO3	236	238	1480	1560
pH		8.29	8.30	7.85	7.90

Dissolved Anions

Alkalinity-Total		CaCO3	210	202	412	411
Sulphate	SO4		27.5	27.5	994	971

Remarks regarding the analyses appear at the beginning of this report.

Appendix 1 - QUALITY CONTROL - Replicates



Water		X16B	X16B	P96- 9A	P96- 9A
		05-05-04 13:26	QC # 440110	05-05-03 15:37	QC # 440111
Dissolved Metals					
Aluminum	D-Al	<0.010	<0.010	<0.050	<0.050
Antimony	D-Sb	<0.00050	<0.00050	<0.0025	<0.0025
Arsenic	D-As	<0.0010	<0.0010	<0.0050	<0.0050
Barium	D-Ba	0.144	0.145	0.063	0.063
Beryllium	D-Be	<0.0050	<0.0050	<0.0050	<0.0050
Boron	D-B	<0.10	<0.10	<0.10	<0.10
Cadmium	D-Cd	<0.000050	<0.000050	0.00077	0.00073
Calcium	D-Ca	64.7	65.3	297	313
Chromium	D-Cr	<0.00050	<0.00050	<0.0025	<0.0025
Cobalt	D-Co	<0.00050	<0.00050	0.0036	0.0036
Copper	D-Cu	<0.0010	<0.0010	<0.0050	<0.0050
Iron	D-Fe	<0.030	<0.030	0.071	0.068
Lead	D-Pb	<0.0010	<0.0010	<0.0050	<0.0050
Lithium	D-Li	<0.050	<0.050	<0.050	<0.050
Magnesium	D-Mg	18.1	18.2	180	190
Manganese	D-Mn	<0.010	<0.010	0.885	0.888
Mercury	D-Hg	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	D-Mo	0.0018	0.0018	<0.0050	<0.0050
Nickel	D-Ni	<0.0050	<0.0050	<0.025	<0.025
Selenium	D-Se	0.0020	0.0020	<0.0050	<0.0050
Silver	D-Ag	<0.000050	<0.000050	<0.00025	<0.00025
Sodium	D-Na	<2.0	<2.0	12.2	12.3
Thallium	D-Tl	<0.00020	<0.00020	<0.0010	<0.0010
Titanium	D-Ti	<0.050	<0.050	<0.050	<0.050
Uranium	D-U	0.00211	0.00212	0.0232	0.0231
Vanadium	D-V	<0.030	<0.030	<0.030	0.042
Zinc	D-Zn	0.0051	<0.0050	0.0192	0.0187

Remarks regarding the analyses appear at the beginning of this report.

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

pH in Water

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Colourimetry

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver

Sulphate in Water

This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver



Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample: 6 months

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

Recommended Holding Time:

Sample: 28 days

Reference: EPA

Laboratory Location: ALS Environmental, Vancouver

Alkalinity in Water by Titration

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

Recommended Holding Time:

Sample: 14 days

Reference: APHA

Laboratory Location: ALS Environmental, Vancouver



Dissolved Anions in Water by Ion Chromatography

This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions are determined by filtering the sample through a 0.45 micron membrane filter and injecting the filtrate onto a Dionex IonPac AG17 anion exchange column with a hydroxide eluent stream. Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.

Recommended Holding Time:

Sample: 28 days (bromide, chloride, fluoride, sulphate)

Sample: 2 days (nitrate, nitrite)

Reference: APHA and EPA

Laboratory Location: ALS Environmental, Vancouver

Results contained within this certificate relate only to the samples as submitted.

This Certificate Of Analysis shall only be reproduced in full, except with the written approval of ALS Environmental.

End of Report