

SUMMARY REPORT FOR:

PELLY RIVER AQUATIC ECOSYSTEM

MONITORING PLAN, MAY 2012

For

Yukon

Energy Mines and Resources

Erik Pit

Assessment and Abandoned Mines

Submitted by

Laberge
ENVIRONMENTAL SERVICES

July 2012

1.0 BACKGROUND

In late April of 2012, a request was made of Laberge Environmental Services (LES) to provide a proposal to Assessment and Abandoned Mines (AAM) to conduct the Pelly River Aquatics Water Monitoring Program at the Faro Mine Complex (FMC) for the month of May.

The provided lists indicate that 22 sites are to be sampled in May 2012 for a suite of analytical and in-situ parameters. Specifically the parameters are as follows:

In-situ

- pH
- conductivity
- temperature

Analytical

- alkalinity
- chloride
- ammonia
- nitrate
- dissolved and total organic carbon
- conductivity
- pH
- sulphate
- total suspended solids
- total dissolved solids
- turbidity
- hardness
- low level total and dissolved metals (30 element suite)

LES signed a contract on May 1st, 2012 to complete the receiving water monitoring program for May.

2.0 STUDY AREA

The study area encompasses reference sites, impacted sites, and receiving water sites and has generally been divided into three main areas: the Vangorda watershed, the Faro mine site and Rose and Anvil watersheds, and the Pelly River. The table below lists the sites, including

PELLY RIVER ECOSYSTEM MONITORING, MAY 2012

descriptions, that are to be sampled in May 2012. The sites are listed by area from upstream to downstream in all of the tables of this report, to aid in interpretation of the data.

TABLE 1 LIST OF SITES AND DESCRIPTIONS		
Vangorda Watershed	VR	West Fork of Vangorda upstream of Haul Road.
	V17A	AEX Cr upstream of Haul Road
	VW3	West Fork of Vangorda downstream of AEX Creek
	VW1	West Fork of Vangorda downstream of landslide but u/s of VW2
	VW2	Tributary to West Vangorda Cr which drains Grum west lobe, upstream of Mine Access Road
	V20A	Dixon Cr upstream of mine workings, tributary to Vangorda Cr.
	VGMAIN	Vangorda Cr downstream of mine but upstream of West Vangorda Creek.
	V8	Vangorda Cr downstream all inputs but u/s Pelly River.
Faro Sites and Rose & Anvil Watersheds	USFR	South Fork Rose Creek upstream Haul Road
	GCULV	South Fork Rose Creek downstream Haul Road and u/s Mine Access Road
	K8	Reservoir Creek upstream Mine Access Road
	R1	Rose Creek upstream pumphouse pond and tailings system
	FC	Faro Cr upstream diversion
	W10	Upper Guardhouse Creek upstream NW Dump
	NWID	Northwest interceptor ditch upstream of diversion point
	X14	Rose Creek downstream of all mining inputs
	R4	Rose Creek upstream confluence with Anvil Creek
	R6	Anvil Creek upstream confluence with Rose Creek
	R5	Anvil Cr downstream of Rose Cr after full mixing.
A1	Anvil Creek near confluence with Pelly River	
Pelly	P1	Pelly River upstream Vangorda Cr
	P4	Pelly River downstream Anvil Creek

The only site where samples were not collected in May was R5, Anvil Creek downstream of the confluence with Rose Creek. Due to high water levels all potential gravel bars in this area were flooded. No suitable landing location was available within a reasonable distance downstream of the confluence. Sampling further downstream would be unrepresentative of the water quality of R5 due to the input from other tributaries.

3.0 METHODS

Surface water quality sampling followed AAM's water sampling protocols, a copy of which was provided to LES. Maxxam Analytics Ltd supplied LES with the necessary sample kits prior to the field trip of May 28th to 31st, 2012. Each sample bottle was rinsed three times with the sample waters and then filled and preserved as specified by the laboratory's protocols. Samples that required filtering (dissolved organic carbon and dissolved metals), were filtered in the field prior to preservation. Samples were kept cool then shipped as soon as possible to the Maxxam laboratory in Burnaby, BC.

In-situ measurements of water temperature, conductivity and pH were taken at each site. Photographs were also taken to document the current conditions at each location.

As measures of quality assurance and quality control (QA/QC), two blind duplicates were collected during the survey. In addition, one field blank was submitted as well as the travel blank provided in the sampling kit by the lab. The lab also ran their own QA/QC and their report is included with their analytical report (see Appendix C).

Six of the sampling sites are remote and can be accessed by helicopter only. AAM provided Trans North with a separate contract to conduct the aerial portion of the program.

4.0 RESULTS

Water levels were high throughout the study area and were nearing freshet, consequently several of the flows were quite turbid. Many creeks had bank to bank flow.

4.1 Photographs

Photographs of each site can be found in Appendix A.

4.2 In-Situ Results

The in-situ data is presented in Table 2, Appendix B. The table also includes a comment section where the locations of the collection of the duplicate samples are indicated and any observations are recorded.

4.3 Analytical Data

Anions, Nutrients and Physical Data

Table 3 in Appendix B, presents the compiled anion, nutrient and physical attributes of the samples collected in the study area.

Total and Dissolved Metals

The dissolved metals data is presented in Table 4, and the total metals data is included in Table 5, both in Appendix B.

5.0 DISCUSSION AND RECOMMENDATIONS

It is beyond our scope of work to provide any discussion or interpretation of the results for the May 2012 water quality collected under this monitoring program. This letter report includes all the specified deliverables in the provided scope of work.

However, it is recommended that the helicopter landing areas on Rose and Anvil Creeks are brushed out prior to the next sampling trip. With the advent of summer, the growth of the willow bushes at these sites may prevent the safe setting down of the helicopter. This is a safety and maintenance issue and if the sites R4, R5 and R6 are to remain in a long term monitoring program, the landing sites should be maintained on a regular basis. The last time these sites were brushed out was in July 2004, under the care and maintenance contract of Deloitte and Touche.

Respectively submitted,

A handwritten signature in black ink, appearing to read 'Bonnie Burns', is positioned above the printed name.

Bonnie Burns
Laberge Environmental Services

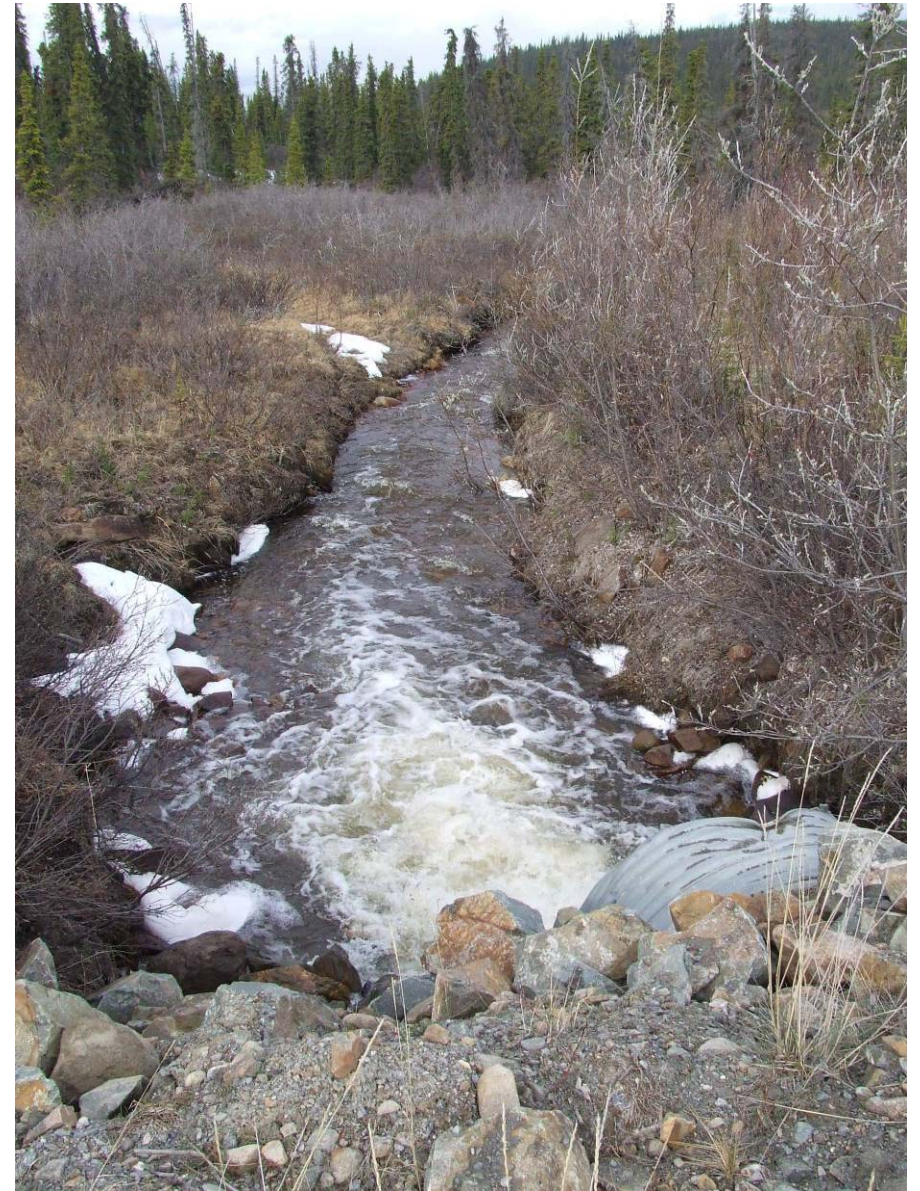
APPENDIX A
PHOTOGRAPHS, MAY 2012



VR, looking downstream to haul road, May 30, 2012.



V17A, looking upstream from haul road, May 30/12.



VW3, looking downstream from culvert on Grum access road, May 30, 2012.



VW1, looking upstream from sample site, May 29, 2012.



V20A flows across a trail with pooling on both sides, May 29/12.



VW2, looking upstream from sample site, May 29, 2012.



VGMAIN, looking downstream, May 29, 2012.



V8 looking upstream, May 29, 2012.



GCULV, looking upstream from mine access road, May 29/12.



USFR, looking upstream from haul road, May 30, 2012.



K8, looking upstream from mine access road, May 28, 2012.



R1 looking upstream, May 28, 2012.



W10, looking upstream, May 30, 2012.



FC, looking downstream, May 30, 2012.



NWID, looking downstream, May 30, 2012.



X14 at the staff gauge, May 28, 2012.



R6 looking at confluence with Rose Creek, May 29, 2012.



R4, looking downstream to confluence with Anvil Cr.



A1 looking upstream, May 29, 2012.



A1 Sample Site

Confluence of Anvil Creek and Pelly River. Note how much clearer Anvil Creek is than the Pelly River. May 29, 2012.



R4 Sample Site

Due to high water and lack of large enough exposed gravel bars for safe landing of the helicopter, R4 was sampled at the far end of the island on May 29, 2012.

APPENDIX B
WATER QUALITY TABLES

TABLE 2 INSITU DATA FOR THE PELLY RIVER AQUATIC MONITORING PROGRAM AT AND NEAR THE FMC, MAY 2012

Site #	Site Description	Date Sampled 2012	Time Sampled	NAD 27 Zone 8V		Air Temp °C	Water Temp °C	pH	Conductivity uS/cm	Comments
				Easting	Northing					
VR	West Fork of Vangorda u/s of Haul Road.	May 30	13:35	590801	6906722	13.8	1.7	7.14	45.4	Quite clear water, sunny and breezy.
V17A	AEX Cr u/s of Haul Road	May 30	13:00	591380	6906066	13.8	3.3	7.21	159	Water fairly clear, sunny and breezy.
VW3	West Fork of Vangorda d/s of AEX Creek	May 29	8:50	590508	6906424	7	7.0	7.92	162	To ensure mixing of all inputs, sampled d/s of culvert. Overcast and calm.
VW1	West Fork of Vangorda d/s of landslide but u/s of VW2	May 29	9:20	587050	6904547	4	1.5	8.20	219	Water turbid - gray, overcast, calm.
VW2	Tributary to West Vangorda Cr which drains Grum west lobe	May 29	9:55	587407	6903555	8	1.6	8.60	477	Water very clear.
V20A	Dixon Cr u/s of mine workings, trib to Vangorda Cr.	May 30	11:40	595269	6902053	9.2	3.6	7.23	274	Walked in due to muddy conditions, clear water, pooled upstream road and d/s flows through willows.
VGMAIN	Vangorda Cr d/s mine but u/s West Vangorda Creek.	May 29	10:30	585794	6901321	8.5	2.9	8.50	244	Slightly turbid, light brown.
V8	Vangorda Cr d/s all inputs but u/s Pelly River.	May 29	16:30	584951	6900458	17.6	5.6	8.30	264	Did field blank here.
USFR	South Fork Rose Creek u/s Haul Road	May 30	14:05	590363	6907200	21.8	4.1	6.95	433	High water, light brown but quite clear. Collected duplicate here, DUP-1.
GCULV	South Fork Rose Creek d/s Haul Road and u/s Mine Access Road	May 29	8:20	589930	6907206	7	0.7	7.90	46	High velocity, slightly turbid, light brown. Overcast, calm.
K8	Reservoir Creek u/s Mine Access Road	May 28	17:40	586530	6910570	17	3.0	8.73	86.7	Water is clear. Sunny and calm.
R1	Rose Creek u/s pumphouse pond and tailings system	May 28	16:45	583733	6912159	17	3.1	8.47	71.5	Quite clear water, light brown. Sunny and clear.
FC	Faro Cr u/s diversion	May 30	10:35	585473	6916553	12	1.4	7.09	27.2	Quite clear.
W10	Upper Guardhouse Creek u/s NW Dump	May 30	9:45	583400	6915392	10.1	0.4	7.79	52.9	Quite clear.
NWID	Northwest interceptor ditch u/s of diversion point	May 30	9:00	582508	6914540	13.8	3.1	6.87	2970	Slightly turbid.
X14	Rose Creek d/s of all mining inputs	May 28	15:45	579299	6914803	17	3.6	161.00	8.5	Water is fairly clear, light brown coloured. Sunny and calm. Landing site needs brushing
R4	Rose Creek u/s confluence with Anvil Creek	May 29	13:40	567655	6921163	7.8	3.7	8.34	165	High water, quite clear.
R6	Anvil Creek u/s confluence with Rose Creek	May 29	13:25	568197	6921432	7.7	3.1	8.52	140	High water, clear. Landing site needs brushing.
R5	Anvil Cr d/s of Rose Cr after full mixing.	May 29		567432	6922324					Due to high water, no place to land.
A1	Anvil Creek near confluence with Pelly River	May 29	14:30	545855	6924017	18	5.3	8.40	145	Clear water, duplicate collected here, DUP-2.
P1	Pelly River u/s Vangorda Cr	May 29	12:30	585384	6898429	10	8.7	8.50	196	High water, turbid, breezy, sun coming out.
P4	Pelly River d/s Anvil Creek	May 29	15:10	543435	6925496	17.4	8.2	8.40	192	Most of gravel bar completed submerged, sampled from farthest d/s area.

TABLE 3 ANIONS, NUTRIENTS AND PHYSICAL PROPERTIES FOR THE PELLY RIVER AQUATIC MONITORING PROGRAM, FMC, MAY 2012

		Misc. Inorganics							Anions		Nutrients				Physical Properties				
	Sampling Date	Dissolved Organic Carbon (C)	Alkalinity (Total as CaCO ₃)	Total Organic Carbon (C)	Alkalinity (PP as CaCO ₃)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Hydroxide (OH)	Dissolved Sulphate (SO ₄)	Dissolved Chloride (Cl)	Ammonia (N)	Nitrate plus Nitrite (N)	Nitrate (N)	Nitrite (N)	Conductivity	pH	Total Suspended Solids	Total Dissolved Solids	Turbidity
UNITS		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	uS/cm	pH Units	mg/L	mg/L	NTU
VR	5/30/2012	9.47	16.9	9.98	<0.50	20.6	<0.50	<0.50	0.50	0.71	0.011	0.0389	0.0314	0.0075	44.1	7.39	4.7	40	1.21
V17A	5/30/2012	9.30	32.9	11.5	<0.50	40.1	<0.50	<0.50	39.2	0.56	0.022	0.200	0.200	<0.0020	158	7.49	9.0	126	3.57
VW3	5/29/2012	10.6	47.4	10.7	<0.50	57.9	<0.50	<0.50	33.7	0.58	0.040	0.156 (1)	0.156	<0.0020 (1)	161	7.76	18.4	120	4.03
VW1	5/29/2012	10.2	79.4	10.6	<0.50	96.9	<0.50	<0.50	29.2	2.5	0.015	0.128 (1)	0.107	0.0211 (1)	218	8.08	166	136	60.1
VW2	5/29/2012	5.38	183	6.97	2.90	216	3.48	<0.50	73.1	0.60	0.040	0.241 (1)	0.241	<0.0020 (1)	468	8.38	2.0	288	0.56
V20A	5/30/2012	5.16	141	5.47	<0.50	172	<0.50	<0.50	6.93	0.61	0.023	<0.0020	<0.0020	<0.0020	279	8.13	<1.0	156	0.33
VG MAIN	5/29/2012	8.37	79.0	8.86	<0.50	96.3	<0.50	<0.50	43.5	<0.50	0.028	0.119 (1)	0.119	<0.0020 (1)	242	8.06	8.9	160	4.76
V8	5/29/2012	8.45	88.6	10.2	<0.50	108	<0.50	<0.50	43.9	1.0	0.022	0.122 (1)	0.114	0.0078 (1)	259	8.14	96.1	182	32.8
USFR	5/30/2012	5.93	14.5	6.73	<0.50	17.7	<0.50	<0.50	2.50	0.61	0.012	0.0206	0.0183	0.0023	41.9	7.36	5.4	24	2.25
GCULV	5/29/2012	7.15	16.0	7.20	<0.50	19.5	<0.50	<0.50	1.99	0.93	0.012	0.0213 (1)	0.0213	<0.0020 (1)	46.2	7.44	6.0	30	2.32
K8	5/28/2012	8.42	33.4	8.29	<0.50	40.8	<0.50	<0.50	8.64	0.61	0.025	0.0108 (2)	0.0108	<0.0020 (2)	84.7	7.60	<1.0 (3)	62	0.63 (2)
R1	5/28/2012	12.0	32.6	11.8	<0.50	39.8	<0.50	<0.50	<0.50	0.73	0.067	0.0138 (2)	0.0138	<0.0020 (2)	71.9	7.66	3.9 (3)	70	2.80 (2)
FC	5/30/2012	8.53	7.00	10.8	<0.50	8.54	<0.50	<0.50	<0.50	0.70	0.0095	0.0048	0.0048	<0.0020	23.5	7.05	10.9	32	4.54
W10	5/30/2012	8.92	22.4	9.61	<0.50	27.3	<0.50	<0.50	<0.50	0.62	0.013	0.0196	0.0120	0.0076	52.4	7.55	12.9	42	1.43
NW1D	5/30/2012	4.89	136	5.69	<0.50	166	<0.50	<0.50	1800	1.5	0.036	1.14	1.14	<0.0020	2920	7.43	28.2	2900	48.7
X14	5/28/2012	8.71	47.9	9.10	<0.50	58.5	<0.50	<0.50	29.2	0.80	0.039	0.0309 (2)	0.0309	<0.0020 (2)	163	7.87	7.6 (3)	120	2.78 (2)
R4	5/29/2012	7.95	51.1	8.89	<0.50	62.3	<0.50	<0.50	28.2	0.70	0.023	0.0418 (1)	0.0418	<0.0020 (1)	169	7.83	9.1	122	3.97
R6	5/29/2012	8.59	61.7	10.2	<0.50	75.3	<0.50	<0.50	8.74	0.65	0.018	0.0518 (1)	0.0518	<0.0020 (1)	141	7.96	8.4	98	3.40
A1	5/29/2012	12.2	54.0	10.4	<0.50	65.8	<0.50	<0.50	17.9	0.63	0.049	0.0483 (1)	0.0457	0.0026 (1)	144	7.89	27.4	110	13.9
P1	5/29/2012	8.63	64.0	9.42	<0.50	78.1	<0.50	<0.50	32.8	0.79	0.018	0.0352 (1)	0.0246	0.0106 (1)	194	7.88	116	126	74.3
P4	5/29/2012	8.40	64.7	9.14	<0.50	78.9	<0.50	<0.50	30.1	0.98	0.022	0.0334 (1)	0.0234	0.0100 (1)	191	7.97	226	132	87.7
DUP-1	5/30/2012	5.33	14.1	5.82	<0.50	17.2	<0.50	<0.50	1.02	0.88	0.019	0.0162	0.0162	<0.0020	42.5	7.39	4.1	26	1.69
DUP-2	5/29/2012	9.35	53.7	9.24	<0.50	65.6	<0.50	<0.50	18.9	0.89	0.037	0.0479 (1)	0.0457	0.0022 (1)	143	7.89	33.3	96	11.5
TRAVEL BLANK		1.09	0.59	0.95	<0.50	0.72	<0.50	<0.50	<0.50	<0.50	0.023	<0.0020	<0.0020	<0.0020	1.1	5.67	<1.0	<10	<0.10
FIELD BLANK		<0.50	0.63	<0.50	<0.50	0.77	<0.50	<0.50	<0.50	<0.50	0.0081	<0.0020	<0.0020	<0.0020	<1.0	5.50	<1.0	<10	<0.10

(1) Sample analysed past recommended hold time.

(2) Sample arrived to laboratory past recommended hold time.

APPENDIX C

ANALYTICAL REPORT, MAY 2012

Your P.O. #: B12-090-DL
 Your Project #: FARO Surface water
 Your C.O.C. #: 28016201, 28016202, 28016203

Attention: Bonnie Burns
 LABERGE ENVIRONMENTAL SERVICES
 WHITEHORSE
 405 Ogilvie Street
 PO Box 21072
 Whitehorse, YT
 CANADA Y1A 6P7

Report Date: 2012/06/08

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B245483
Received: 2012/06/01, 08:35

Sample Matrix: Water
 # Samples Received: 25

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	25	2012/06/02	2012/06/02	BBY6SOP-00026	SM2320B
Chloride by Automated Colourimetry	25	N/A	2012/06/04	BBY6SOP-00011	SM-4500-Cl-
Carbon (DOC)	2	N/A	2012/06/06	BBY6SOP-00003	SM-5310C
Carbon (DOC)	7	N/A	2012/06/07	BBY6SOP-00003	SM-5310C
Carbon (DOC)	16	N/A	2012/06/08	BBY6SOP-00003	SM-5310C
Conductance - water	25	N/A	2012/06/02	BBY6SOP-00026	SM-2510B
Hardness Total (calculated as CaCO3)	6	N/A	2012/06/05	BBY WI-00033	Calculated Parameter
Hardness Total (calculated as CaCO3)	1	N/A	2012/06/06	BBY WI-00033	Calculated Parameter
Hardness Total (calculated as CaCO3)	18	N/A	2012/06/07	BBY WI-00033	Calculated Parameter
Hardness (calculated as CaCO3)	24	N/A	2012/06/06	BBY WI-00033	Calculated Parameter
Hardness (calculated as CaCO3)	1	N/A	2012/06/07	BBY WI-00033	Calculated Parameter
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	24	N/A	2012/06/06	BBY7SOP-00002	EPA 6020A
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	1	N/A	2012/06/07	BBY7SOP-00002	EPA 6020A
Elements by ICPMS Low Level (dissolved)	13	N/A	2012/06/05	BBY7SOP-00002	EPA 6020A
Elements by ICPMS Low Level (dissolved)	11	N/A	2012/06/06	BBY7SOP-00002	EPA 6020A
Elements by ICPMS Low Level (dissolved)	1	N/A	2012/06/07	BBY7SOP-00002	EPA 6020A
Na, K, Ca, Mg, S by CRC ICPMS (total)	6	N/A	2012/06/05	BBY7SOP-00002	EPA 6020A
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	N/A	2012/06/06	BBY7SOP-00002	EPA 6020A
Na, K, Ca, Mg, S by CRC ICPMS (total)	18	N/A	2012/06/07	BBY7SOP-00002	EPA 6020A
Elements by ICPMS Low Level (total)	6	N/A	2012/06/05	BBY7SOP-00002	EPA 6020A
Elements by ICPMS Low Level (total)	19	N/A	2012/06/06	BBY7SOP-00002	EPA 6020A
Ammonia-N	24	N/A	2012/06/04	BBY6SOP-00009	SM-4500NH3G
Ammonia-N	1	N/A	2012/06/05	BBY6SOP-00009	SM-4500NH3G
Nitrate+Nitrite (N) (low level)	24	N/A	2012/06/02	BBY6SOP-00010	EPA 353.2
Nitrate+Nitrite (N) (low level)	1	N/A	2012/06/05	BBY6SOP-00010	EPA 353.2
Nitrite (N) (low level)	24	N/A	2012/06/02	BBY6SOP-00010	EPA 353.2
Nitrite (N) (low level)	1	N/A	2012/06/05	BBY6SOP-00010	EPA 353.2
Nitrogen - Nitrate (as N)	24	N/A	2012/06/05		
Nitrogen - Nitrate (as N)	1	N/A	2012/06/06		
Filter and HNO3 Preserve for Metals	25	N/A	2012/06/01	BBY6WI-00001	EPA 200.2
pH Water	25	N/A	2012/06/02	BBY6SOP-00026	SM-4500H+B
Sulphate by Automated Colourimetry	22	N/A	2012/06/04	BBY6SOP-00017	SM4500-SO42
Sulphate by Automated Colourimetry	3	N/A	2012/06/05	BBY6SOP-00017	SM4500-SO42
Total Dissolved Solids (Filt. Residue)	25	2012/06/04	2012/06/04	BBY6SOP-00033	SM 2540C
Carbon (Total Organic)	1	N/A	2012/06/06	BBY6SOP-00003	SM-5310C
Carbon (Total Organic)	4	N/A	2012/06/07	BBY6SOP-00003	SM-5310C
Carbon (Total Organic)	20	N/A	2012/06/08	BBY6SOP-00003	SM-5310C
Total Suspended Solids-LowLevel	25	2012/06/04	2012/06/04	BBY6SOP-00034	SM-2540 D
Turbidity	25	N/A	2012/06/01	BBY6SOP-00027	SM - 2130B

Your P.O. #: B12-090-DL
Your Project #: FARO Surface water
Your C.O.C. #: 28016201, 28016202, 28016203

Attention: Bonnie Burns
LABERGE ENVIRONMENTAL SERVICES
WHITEHORSE
405 Ogilvie Street
PO Box 21072
Whitehorse, YT
CANADA Y1A 6P7

Report Date: 2012/06/08

CERTIFICATE OF ANALYSIS

-2-

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TABITHA RUDKIN, Burnaby Project Manager
Email: TRudkin@maxxam.ca
Phone# (604) 638-2639

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		DO2761		DO2762		DO2763		
Sampling Date		2012/05/29 16:30		2012/05/30 13:00		2012/05/30 11:40		
COC Number		28016201		28016201		28016201		
	UNITS	V8	QC Batch	V17A	QC Batch	V20A	RDL	QC Batch

Calculated Parameters								
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.114	5887241	0.200	5887241	<0.0020	0.0020	5887241
Misc. Inorganics								
Dissolved Organic Carbon (C)	mg/L	8.45	5905453	9.30	5905453	5.16	0.50	5900196
Alkalinity (Total as CaCO3)	mg/L	88.6	5889214	32.9	5889214	141	0.50	5889214
Total Organic Carbon (C)	mg/L	10.2	5905503	11.5	5905503	5.47	0.50	5900211
Alkalinity (PP as CaCO3)	mg/L	<0.50	5889214	<0.50	5889214	<0.50	0.50	5889214
Bicarbonate (HCO3)	mg/L	108	5889214	40.1	5889214	172	0.50	5889214
Carbonate (CO3)	mg/L	<0.50	5889214	<0.50	5889214	<0.50	0.50	5889214
Hydroxide (OH)	mg/L	<0.50	5889214	<0.50	5889214	<0.50	0.50	5889214
Anions								
Dissolved Sulphate (SO4)	mg/L	43.9	5893151	39.2	5897155	6.93	0.50	5893151
Dissolved Chloride (Cl)	mg/L	1.0	5893147	0.56	5893147	0.61	0.50	5893147
Nutrients								
Ammonia (N)	mg/L	0.022	5893132	0.022	5893132	0.023	0.0050	5893132
Nitrate plus Nitrite (N)	mg/L	0.122 (f)	5889365	0.200	5889365	<0.0020	0.0020	5889365
Nitrite (N)	mg/L	0.0078 (f)	5889366	<0.0020	5889366	<0.0020	0.0020	5889366
Physical Properties								
Conductivity	uS/cm	259	5889219	158	5889219	279	1.0	5889219
pH	pH Units	8.14	5889220	7.49	5889220	8.13		5889220
Physical Properties								
Total Suspended Solids	mg/L	96.1	5888356	9.0	5888356	<1.0	1.0	5888356
Total Dissolved Solids	mg/L	182	5890966	126	5890966	156	10	5890966
Turbidity	NTU	32.8	5886027	3.57	5886027	0.33	0.10	5886027

RDL = Reportable Detection Limit

(1) Sample analysed past recommended hold time.

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		DO2764	DO2765	DO2766		
Sampling Date		2012/05/30 13:35	2012/05/29 10:30	2012/05/29 09:20		
COC Number		28016201	28016201	28016201		
	UNITS	VR	VG MAIN	VW1	RDL	QC Batch

Calculated Parameters						
Filter and HNO3 Preservation	N/A	FIELD	FIELD	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.0314	0.119	0.107	0.0020	5887241
Misc. Inorganics						
Dissolved Organic Carbon (C)	mg/L	9.47	8.37	10.2	0.50	5905453
Alkalinity (Total as CaCO3)	mg/L	16.9	79.0	79.4	0.50	5889214
Total Organic Carbon (C)	mg/L	9.98	8.86	10.6	0.50	5905503
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	<0.50	0.50	5889214
Bicarbonate (HCO3)	mg/L	20.6	96.3	96.9	0.50	5889214
Carbonate (CO3)	mg/L	<0.50	<0.50	<0.50	0.50	5889214
Hydroxide (OH)	mg/L	<0.50	<0.50	<0.50	0.50	5889214
Anions						
Dissolved Sulphate (SO4)	mg/L	0.50	43.5	29.2	0.50	5893151
Dissolved Chloride (Cl)	mg/L	0.71	<0.50	2.5	0.50	5893147
Nutrients						
Ammonia (N)	mg/L	0.011	0.028	0.015	0.0050	5893132
Nitrate plus Nitrite (N)	mg/L	0.0389	0.119 (1)	0.128 (1)	0.0020	5889365
Nitrite (N)	mg/L	0.0075	<0.0020 (1)	0.0211 (1)	0.0020	5889366
Physical Properties						
Conductivity	uS/cm	44.1	242	218	1.0	5889219
pH	pH Units	7.39	8.06	8.08		5889220
Physical Properties						
Total Suspended Solids	mg/L	4.7	8.9	166	1.0	5888356
Total Dissolved Solids	mg/L	40	160	136	10	5890966
Turbidity	NTU	1.21	4.76	60.1	0.10	5886027

RDL = Reportable Detection Limit
 (1) Sample analysed past recommended hold time.

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		DO2767		DO2768		DO2769		
Sampling Date		2012/05/29 09:55		2012/05/29 08:50				
COC Number		28016201		28016201		28016201		
	UNITS	VW2	QC Batch	VW3	QC Batch	FIELD BLANK	RDL	QC Batch

Calculated Parameters								
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.241	5887241	0.156	5887241	<0.0020	0.0020	5887241
Misc. Inorganics								
Dissolved Organic Carbon (C)	mg/L	5.38	5905453	10.6	5902155	<0.50	0.50	5906145
Alkalinity (Total as CaCO3)	mg/L	183	5889214	47.4	5889214	0.63	0.50	5889214
Total Organic Carbon (C)	mg/L	6.97	5902221	10.7	5905503	<0.50	0.50	5906228
Alkalinity (PP as CaCO3)	mg/L	2.90	5889214	<0.50	5889214	<0.50	0.50	5889214
Bicarbonate (HCO3)	mg/L	216	5889214	57.9	5889214	0.77	0.50	5889214
Carbonate (CO3)	mg/L	3.48	5889214	<0.50	5889214	<0.50	0.50	5889214
Hydroxide (OH)	mg/L	<0.50	5889214	<0.50	5889214	<0.50	0.50	5889214
Anions								
Dissolved Sulphate (SO4)	mg/L	73.1	5893151	33.7	5893151	<0.50	0.50	5893151
Dissolved Chloride (Cl)	mg/L	0.60	5893147	0.58	5893147	<0.50	0.50	5893147
Nutrients								
Ammonia (N)	mg/L	0.040	5893132	0.040	5893132	0.0081	0.0050	5893132
Nitrate plus Nitrite (N)	mg/L	0.241 (1)	5889365	0.156 (1)	5889365	<0.0020	0.0020	5889365
Nitrite (N)	mg/L	<0.0020 (1)	5889366	<0.0020 (1)	5889366	<0.0020	0.0020	5889366
Physical Properties								
Conductivity	uS/cm	468	5889219	161	5889219	<1.0	1.0	5889219
pH	pH Units	8.38	5889220	7.76	5889220	5.50		5889220
Physical Properties								
Total Suspended Solids	mg/L	2.0	5888356	18.4	5888356	<1.0	1.0	5888356
Total Dissolved Solids	mg/L	288	5890966	120	5890966	<10	10	5890966
Turbidity	NTU	0.56	5886027	4.03	5886027	<0.10	0.10	5886027

RDL = Reportable Detection Limit
 (1) Sample analysed past recommended hold time.

Maxxam Job #: B245483
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 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		DO2789		DO2790		DO2791		
Sampling Date		2012/05/30 10:35		2012/05/28 16:45		2012/05/28 15:45		
COC Number		28016202		28016202		28016202		
	UNITS	FC	QC Batch	R1	QC Batch	X14	RDL	QC Batch

Calculated Parameters								
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.0048	5887241	0.0138	5887241	0.0309	0.0020	5887241
Misc. Inorganics								
Dissolved Organic Carbon (C)	mg/L	8.53	5900196	12.0	5905453	8.71	0.50	5902155
Alkalinity (Total as CaCO3)	mg/L	7.00	5889214	32.6	5889214	47.9	0.50	5889214
Total Organic Carbon (C)	mg/L	10.8	5905503	11.8	5902221	9.10	0.50	5905503
Alkalinity (PP as CaCO3)	mg/L	<0.50	5889214	<0.50	5889214	<0.50	0.50	5889214
Bicarbonate (HCO3)	mg/L	8.54	5889214	39.8	5889214	58.5	0.50	5889214
Carbonate (CO3)	mg/L	<0.50	5889214	<0.50	5889214	<0.50	0.50	5889214
Hydroxide (OH)	mg/L	<0.50	5889214	<0.50	5889214	<0.50	0.50	5889214
Anions								
Dissolved Sulphate (SO4)	mg/L	<0.50	5893151	<0.50	5893151	29.2	0.50	5893151
Dissolved Chloride (Cl)	mg/L	0.70	5893147	0.73	5893147	0.80	0.50	5893147
Nutrients								
Ammonia (N)	mg/L	0.0095	5893132	0.067	5893132	0.039	0.0050	5893132
Nitrate plus Nitrite (N)	mg/L	0.0048	5889365	0.0138 (1)	5889365	0.0309 (1)	0.0020	5889365
Nitrite (N)	mg/L	<0.0020	5889366	<0.0020 (1)	5889366	<0.0020 (1)	0.0020	5889366
Physical Properties								
Conductivity	uS/cm	23.5	5889219	71.9	5889219	163	1.0	5889219
pH	pH Units	7.05	5889220	7.66	5889220	7.87		5889220
Physical Properties								
Total Suspended Solids	mg/L	10.9	5888356	3.9 (2)	5888356	7.6 (2)	1.0	5888356
Total Dissolved Solids	mg/L	32	5890966	70	5890966	120	10	5890966
Turbidity	NTU	4.54	5886027	2.80 (1)	5886027	2.78 (1)	0.10	5886027

RDL = Reportable Detection Limit

- (1) Sample arrived to laboratory past recommended hold time.
 (2) Sample was analyzed after holding time expired.

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		DO2792		DO2793		DO2794		
Sampling Date		2012/05/29 13:40		2012/05/29 13:25		2012/05/29 14:30		
COC Number		28016202		28016202		28016202		
	UNITS	R4	QC Batch	R6	QC Batch	A1	RDL	QC Batch

Calculated Parameters								
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.0418	5887241	0.0518	5887241	0.0457	0.0020	5887241
Misc. Inorganics								
Dissolved Organic Carbon (C)	mg/L	7.95	5905453	8.59	5905453	12.2	0.50	5905453
Alkalinity (Total as CaCO3)	mg/L	51.1	5889214	61.7	5889214	54.0	0.50	5889214
Total Organic Carbon (C)	mg/L	8.89	5905503	10.2	5905503	10.4	0.50	5905503
Alkalinity (PP as CaCO3)	mg/L	<0.50	5889214	<0.50	5889214	<0.50	0.50	5889214
Bicarbonate (HCO3)	mg/L	62.3	5889214	75.3	5889214	65.8	0.50	5889214
Carbonate (CO3)	mg/L	<0.50	5889214	<0.50	5889214	<0.50	0.50	5889214
Hydroxide (OH)	mg/L	<0.50	5889214	<0.50	5889214	<0.50	0.50	5889214
Anions								
Dissolved Sulphate (SO4)	mg/L	28.2	5893151	8.74	5897155	17.9	0.50	5893151
Dissolved Chloride (Cl)	mg/L	0.70	5893147	0.65	5893147	0.63	0.50	5893147
Nutrients								
Ammonia (N)	mg/L	0.023	5893132	0.018	5893132	0.049	0.0050	5893132
Nitrate plus Nitrite (N)	mg/L	0.0418 (1)	5889365	0.0518 (1)	5889365	0.0483 (1)	0.0020	5889365
Nitrite (N)	mg/L	<0.0020 (1)	5889366	<0.0020 (1)	5889366	0.0026 (1)	0.0020	5889366
Physical Properties								
Conductivity	uS/cm	169	5889219	141	5889219	144	1.0	5889219
pH	pH Units	7.83	5889220	7.96	5889220	7.89		5889220
Physical Properties								
Total Suspended Solids	mg/L	9.1	5888356	8.4	5888356	27.4	1.0	5888356
Total Dissolved Solids	mg/L	122	5890966	98	5890966	110	10	5890966
Turbidity	NTU	3.97	5886027	3.40	5886027	13.9	0.10	5886027

RDL = Reportable Detection Limit

(1) Sample analysed past recommended hold time.

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		DO2795	DO2796		DO2797		
Sampling Date		2012/05/29 12:30	2012/05/29 15:10		2012/05/30 14:05		
COC Number		28016202	28016202		28016202		
	UNITS	P1	P4	QC Batch	USFR	RDL	QC Batch

Calculated Parameters							
Filter and HNO3 Preservation	N/A	FIELD	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.0246	0.0234	5887241	0.0183	0.0020	5887241
Misc. Inorganics							
Dissolved Organic Carbon (C)	mg/L	8.63	8.40	5905453	5.93	0.50	5903530
Alkalinity (Total as CaCO3)	mg/L	64.0	64.7	5889214	14.5	0.50	5889214
Total Organic Carbon (C)	mg/L	9.42	9.14	5905503	6.73	0.50	5905503
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	5889214	<0.50	0.50	5889214
Bicarbonate (HCO3)	mg/L	78.1	78.9	5889214	17.7	0.50	5889214
Carbonate (CO3)	mg/L	<0.50	<0.50	5889214	<0.50	0.50	5889214
Hydroxide (OH)	mg/L	<0.50	<0.50	5889214	<0.50	0.50	5889214
Anions							
Dissolved Sulphate (SO4)	mg/L	32.8	30.1	5893151	2.50	0.50	5893151
Dissolved Chloride (Cl)	mg/L	0.79	0.98	5893147	0.61	0.50	5893147
Nutrients							
Ammonia (N)	mg/L	0.018	0.022	5893132	0.012	0.0050	5893132
Nitrate plus Nitrite (N)	mg/L	0.0352 (1)	0.0334 (1)	5889365	0.0206	0.0020	5889365
Nitrite (N)	mg/L	0.0106 (1)	0.0100 (1)	5889366	0.0023	0.0020	5889366
Physical Properties							
Conductivity	uS/cm	194	191	5889219	41.9	1.0	5889219
pH	pH Units	7.88	7.97	5889220	7.36		5889220
Physical Properties							
Total Suspended Solids	mg/L	116	226	5888356	5.4	1.0	5888356
Total Dissolved Solids	mg/L	126	132	5890966	24	10	5890966
Turbidity	NTU	74.3	87.7	5886027	2.25	0.10	5886027

RDL = Reportable Detection Limit
 (1) Sample analysed past recommended hold time.

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		DO2798		DO2806		
Sampling Date		2012/05/29 08:20		2012/05/30 09:45		
COC Number		28016202		28016203		
	UNITS	GCULV	QC Batch	W10	RDL	QC Batch

Calculated Parameters						
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.0213	5887241	0.0120	0.0020	5887241
Misc. Inorganics						
Dissolved Organic Carbon (C)	mg/L	7.15	5905453	8.92	0.50	5903530
Alkalinity (Total as CaCO3)	mg/L	16.0	5889214	22.4	0.50	5889214
Total Organic Carbon (C)	mg/L	7.20	5905503	9.61	0.50	5905503
Alkalinity (PP as CaCO3)	mg/L	<0.50	5889214	<0.50	0.50	5889214
Bicarbonate (HCO3)	mg/L	19.5	5889214	27.3	0.50	5889214
Carbonate (CO3)	mg/L	<0.50	5889214	<0.50	0.50	5889214
Hydroxide (OH)	mg/L	<0.50	5889214	<0.50	0.50	5889214
Anions						
Dissolved Sulphate (SO4)	mg/L	1.99	5893151	<0.50	0.50	5893151
Dissolved Chloride (Cl)	mg/L	0.93	5893147	0.62	0.50	5893147
Nutrients						
Ammonia (N)	mg/L	0.012	5893132	0.013	0.0050	5893132
Nitrate plus Nitrite (N)	mg/L	0.0213 (1)	5889365	0.0196	0.0020	5889365
Nitrite (N)	mg/L	<0.0020 (1)	5889366	0.0076	0.0020	5889366
Physical Properties						
Conductivity	uS/cm	46.2	5889219	52.4	1.0	5889219
pH	pH Units	7.44	5889220	7.55		5889220
Physical Properties						
Total Suspended Solids	mg/L	6.0	5888356	12.9	1.0	5888356
Total Dissolved Solids	mg/L	30	5890966	42	10	5890966
Turbidity	NTU	2.32	5886027	1.43	0.10	5886027

RDL = Reportable Detection Limit
 (1) Sample analysed past recommended hold time.

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		DO2807			DO2808		DO2809		
Sampling Date		2012/05/30 09:00			2012/05/28 17:40		2012/05/30		
COC Number		28016203			28016203		28016203		
	UNITS	NW1D	RDL	QC Batch	K8	QC Batch	DUP-1	RDL	QC Batch

Calculated Parameters									
Filter and HNO3 Preservation	N/A	FIELD	N/A	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	1.14	0.0020	5887241	0.0108	5887241	0.0162	0.0020	5887241
Misc. Inorganics									
Dissolved Organic Carbon (C)	mg/L	4.89	0.50	5903530	8.42	5905453	5.33	0.50	5906145
Alkalinity (Total as CaCO3)	mg/L	136	0.50	5889214	33.4	5889214	14.1	0.50	5889214
Total Organic Carbon (C)	mg/L	5.69	0.50	5903563	8.29	5903563	5.82	0.50	5906228
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	5889214	<0.50	5889214	<0.50	0.50	5889214
Bicarbonate (HCO3)	mg/L	166	0.50	5889214	40.8	5889214	17.2	0.50	5889214
Carbonate (CO3)	mg/L	<0.50	0.50	5889214	<0.50	5889214	<0.50	0.50	5889214
Hydroxide (OH)	mg/L	<0.50	0.50	5889214	<0.50	5889214	<0.50	0.50	5889214
Anions									
Dissolved Sulphate (SO4)	mg/L	1800	5.0	5893151	8.64	5897155	1.02	0.50	5893151
Dissolved Chloride (Cl)	mg/L	1.5	0.50	5893147	0.61	5893147	0.88	0.50	5893147
Nutrients									
Ammonia (N)	mg/L	0.036	0.0050	5893132	0.025	5893132	0.019	0.0050	5893132
Nitrate plus Nitrite (N)	mg/L	1.14	0.0020	5889365	0.0108 (1)	5896013	0.0162	0.0020	5889365
Nitrite (N)	mg/L	<0.0020	0.0020	5889366	<0.0020 (1)	5896015	<0.0020	0.0020	5889366
Physical Properties									
Conductivity	uS/cm	2920	1.0	5889219	84.7	5889219	42.5	1.0	5889219
pH	pH Units	7.43		5889220	7.60	5889220	7.39		5889220
Physical Properties									
Total Suspended Solids	mg/L	28.2	1.0	5888356	<1.0 (2)	5888356	4.1	1.0	5888356
Total Dissolved Solids	mg/L	2900	10	5890966	62	5890966	26	10	5890966
Turbidity	NTU	48.7	0.10	5886027	0.63 (1)	5886027	1.69	0.10	5886027

RDL = Reportable Detection Limit

(1) Sample arrived to laboratory past recommended hold time.

(2) Sample was analyzed after holding time expired.

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		DO2810		DO2811		
Sampling Date		2012/05/29				
COC Number		28016203		28016203		
	UNITS	DUP-2	QC Batch	TRAVEL BLANK	RDL	QC Batch

Calculated Parameters						
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	LAB	N/A	5885236
Nitrate (N)	mg/L	0.0457	5887241	<0.0020	0.0020	5887241
Misc. Inorganics						
Dissolved Organic Carbon (C)	mg/L	9.35	5903530	1.09	0.50	5903530
Alkalinity (Total as CaCO3)	mg/L	53.7	5889214	0.59	0.50	5889214
Total Organic Carbon (C)	mg/L	9.24	5905503	0.95	0.50	5905503
Alkalinity (PP as CaCO3)	mg/L	<0.50	5889214	<0.50	0.50	5889214
Bicarbonate (HCO3)	mg/L	65.6	5889214	0.72	0.50	5889214
Carbonate (CO3)	mg/L	<0.50	5889214	<0.50	0.50	5889214
Hydroxide (OH)	mg/L	<0.50	5889214	<0.50	0.50	5889214
Anions						
Dissolved Sulphate (SO4)	mg/L	18.9	5893151	<0.50	0.50	5893151
Dissolved Chloride (Cl)	mg/L	0.89	5893147	<0.50	0.50	5893147
Nutrients						
Ammonia (N)	mg/L	0.037	5893132	0.023	0.0050	5897479
Nitrate plus Nitrite (N)	mg/L	0.0479 (1)	5889365	<0.0020	0.0020	5889365
Nitrite (N)	mg/L	0.0022 (1)	5889366	<0.0020	0.0020	5889366
Physical Properties						
Conductivity	uS/cm	143	5889219	1.1	1.0	5889219
pH	pH Units	7.89	5889220	5.67		5889220
Physical Properties						
Total Suspended Solids	mg/L	33.3	5888356	<1.0	1.0	5888356
Total Dissolved Solids	mg/L	96	5890966	<10	10	5890966
Turbidity	NTU	11.5	5886027	<0.10	0.10	5886027

RDL = Reportable Detection Limit
 (1) Sample analysed past recommended hold time.

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2761	DO2762		DO2763		
Sampling Date		2012/05/29 16:30	2012/05/30 13:00		2012/05/30 11:40		
COC Number		28016201	28016201		28016201		
	UNITS	V8	V17A	QC Batch	V20A	RDL	QC Batch

Misc. Inorganics							
Dissolved Hardness (CaCO3)	mg/L	132	76.8	5887424	152	0.50	5887424
Dissolved Metals by ICPMS							
Dissolved Aluminum (Al)	ug/L	18.4	78.9	5892110	4.18	0.20	5892110
Dissolved Antimony (Sb)	ug/L	0.135	0.070	5892110	0.036	0.020	5892110
Dissolved Arsenic (As)	ug/L	0.470	1.10	5892110	0.441	0.020	5892110
Dissolved Barium (Ba)	ug/L	37.0	19.7	5892110	73.4	0.020	5892110
Dissolved Beryllium (Be)	ug/L	<0.010	0.026	5892110	<0.010	0.010	5892110
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	5892110	<0.0050	0.0050	5892110
Dissolved Boron (B)	ug/L	<50	<50	5892110	<50	50	5892110
Dissolved Cadmium (Cd)	ug/L	0.0581	0.252	5892110	<0.0050	0.0050	5892110
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	5892110	<0.10	0.10	5892110
Dissolved Cobalt (Co)	ug/L	0.0696	0.415	5892110	0.0135	0.0050	5892110
Dissolved Copper (Cu)	ug/L	1.89	1.14	5892110	0.401	0.050	5892110
Dissolved Iron (Fe)	ug/L	63.8	174	5892110	18.3	1.0	5892110
Dissolved Lead (Pb)	ug/L	0.135	0.323	5892110	0.0689 (1)	0.0050	5900548
Dissolved Lithium (Li)	ug/L	1.37	0.57	5892110	1.97	0.50	5892110
Dissolved Manganese (Mn)	ug/L	11.4	49.5	5892110	4.79	0.050	5892110
Dissolved Molybdenum (Mo)	ug/L	0.531	0.083	5892110	0.219	0.050	5892110
Dissolved Nickel (Ni)	ug/L	1.29	1.94	5892110	0.294	0.020	5892110
Dissolved Selenium (Se)	ug/L	0.480	0.087	5892110	0.300	0.040	5892110
Dissolved Silicon (Si)	ug/L	4010	4000	5892110	4100	100	5892110
Dissolved Silver (Ag)	ug/L	<0.0050	0.0061	5892110	<0.0050	0.0050	5892110
Dissolved Strontium (Sr)	ug/L	131	76.5	5892110	189	0.050	5892110
Dissolved Thallium (Tl)	ug/L	0.0081	0.0112	5892110	<0.0020	0.0020	5892110
Dissolved Tin (Sn)	ug/L	0.34	0.34	5892110	0.23	0.20	5892110
Dissolved Titanium (Ti)	ug/L	<0.50	0.77	5892110	<0.50	0.50	5892110
Dissolved Uranium (U)	ug/L	1.84	0.915	5892110	0.561	0.0020	5892110
Dissolved Vanadium (V)	ug/L	<0.20	0.21	5892110	<0.20	0.20	5892110
Dissolved Zinc (Zn)	ug/L	24.7	532	5892110	1.61 (1)	0.10	5900548
Dissolved Zirconium (Zr)	ug/L	0.11	0.18	5892110	<0.10	0.10	5892110
Dissolved Calcium (Ca)	mg/L	33.6	20.5	5887240	41.6	0.050	5887240

RDL = Reportable Detection Limit
 (1) Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2761	DO2762		DO2763		
Sampling Date		2012/05/29 16:30	2012/05/30 13:00		2012/05/30 11:40		
COC Number		28016201	28016201		28016201		
	UNITS	V8	V17A	QC Batch	V20A	RDL	QC Batch

Dissolved Magnesium (Mg)	mg/L	11.6	6.22	5887240	11.8	0.050	5887240
Dissolved Potassium (K)	mg/L	0.917	0.716	5887240	0.713	0.050	5887240
Dissolved Sodium (Na)	mg/L	1.61	1.05	5887240	1.30	0.050	5887240
Dissolved Sulphur (S)	mg/L	16	14	5887240	<10	10	5887240

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2764		DO2765		DO2766		
Sampling Date		2012/05/30 13:35		2012/05/29 10:30		2012/05/29 09:20		
COC Number		28016201		28016201		28016201		
	UNITS	VR	QC Batch	VG MAIN	QC Batch	VW1	RDL	QC Batch

Misc. Inorganics								
Dissolved Hardness (CaCO ₃)	mg/L	20.5	5887424	124	5887424	109	0.50	5887424
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	65.2	5892110	23.0	5892110	34.9	0.20	5892110
Dissolved Antimony (Sb)	ug/L	0.040	5892110	0.090	5892110	0.098	0.020	5892110
Dissolved Arsenic (As)	ug/L	0.345	5892110	0.445	5892110	0.708	0.020	5892110
Dissolved Barium (Ba)	ug/L	20.0	5892110	32.2	5892110	41.6	0.020	5892110
Dissolved Beryllium (Be)	ug/L	0.048	5892110	0.018	5892110	0.015	0.010	5892110
Dissolved Bismuth (Bi)	ug/L	<0.0050	5892110	<0.0050	5892110	<0.0050	0.0050	5892110
Dissolved Boron (B)	ug/L	<50	5892110	<50	5892110	<50	50	5892110
Dissolved Cadmium (Cd)	ug/L	0.0348	5892110	0.0464	5892110	0.0719	0.0050	5892110
Dissolved Chromium (Cr)	ug/L	0.10	5892110	0.10	5892110	0.13	0.10	5892110
Dissolved Cobalt (Co)	ug/L	0.0329	5892110	0.0479	5892110	0.0943	0.0050	5892110
Dissolved Copper (Cu)	ug/L	1.13	5892110	2.15	5892110	1.77	0.050	5892110
Dissolved Iron (Fe)	ug/L	49.1	5892110	76.2	5892110	107	1.0	5892110
Dissolved Lead (Pb)	ug/L	0.187	5892110	0.515	5892110	0.198	0.0050	5892110
Dissolved Lithium (Li)	ug/L	<0.50	5892110	1.46	5892110	1.61	0.50	5892110
Dissolved Manganese (Mn)	ug/L	2.65	5892110	5.29	5892110	21.1	0.050	5892110
Dissolved Molybdenum (Mo)	ug/L	0.068	5892110	0.479	5892110	0.255 (1)	0.050	5900548
Dissolved Nickel (Ni)	ug/L	0.372	5892110	1.30	5892110	1.15	0.020	5892110
Dissolved Selenium (Se)	ug/L	0.050	5892110	0.338	5892110	0.226	0.040	5892110
Dissolved Silicon (Si)	ug/L	3760	5892110	4020	5892110	3650	100	5892110
Dissolved Silver (Ag)	ug/L	<0.0050	5892110	<0.0050	5892110	<0.0050	0.0050	5892110
Dissolved Strontium (Sr)	ug/L	31.7	5892110	117	5892110	129	0.050	5892110
Dissolved Thallium (Tl)	ug/L	0.0065	5892110	0.0108	5892110	0.0028	0.0020	5892110
Dissolved Tin (Sn)	ug/L	<0.20	5892110	0.27	5892110	<0.20	0.20	5892110
Dissolved Titanium (Ti)	ug/L	1.28	5892110	<0.50	5892110	0.68	0.50	5892110
Dissolved Uranium (U)	ug/L	0.537	5892110	1.92	5892110	1.06	0.0020	5892110
Dissolved Vanadium (V)	ug/L	<0.20	5892110	<0.20	5892110	0.22	0.20	5892110
Dissolved Zinc (Zn)	ug/L	3.17	5900548	14.3	5892110	123	0.10	5892110
Dissolved Zirconium (Zr)	ug/L	0.16	5892110	<0.10	5892110	<0.10	0.10	5892110
Dissolved Calcium (Ca)	mg/L	6.44	5887240	31.8	5887240	29.1	0.050	5887240

RDL = Reportable Detection Limit
 (1) Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2764		DO2765		DO2766		
Sampling Date		2012/05/30 13:35		2012/05/29 10:30		2012/05/29 09:20		
COC Number		28016201		28016201		28016201		
	UNITS	VR	QC Batch	VG MAIN	QC Batch	VW1	RDL	QC Batch

Dissolved Magnesium (Mg)	mg/L	1.08	5887240	10.8	5887240	8.88	0.050	5887240
Dissolved Potassium (K)	mg/L	0.572	5887240	0.884	5887240	0.834	0.050	5887240
Dissolved Sodium (Na)	mg/L	1.08	5887240	1.56	5887240	1.54	0.050	5887240
Dissolved Sulphur (S)	mg/L	<10	5887240	15	5887240	10	10	5887240

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2767		DO2768		DO2769		
Sampling Date		2012/05/29 09:55		2012/05/29 08:50				
COC Number		28016201		28016201		28016201		
	UNITS	VW2	QC Batch	VW3	QC Batch	FIELD BLANK	RDL	QC Batch

Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	250	5887424	72.0	5887424	<0.50	0.50	5887424
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	5.45	5892110	53.5	5892110	1.34	0.20	5892110
Dissolved Antimony (Sb)	ug/L	0.187	5892110	0.069	5892110	<0.020	0.020	5892110
Dissolved Arsenic (As)	ug/L	0.507	5892110	0.575	5892110	0.032	0.020	5892110
Dissolved Barium (Ba)	ug/L	77.0	5892110	27.1	5892110	0.125 (1)	0.020	5900548
Dissolved Beryllium (Be)	ug/L	<0.010	5892110	0.032	5892110	<0.010	0.010	5892110
Dissolved Bismuth (Bi)	ug/L	<0.0050	5892110	<0.0050	5892110	<0.0050	0.0050	5892110
Dissolved Boron (B)	ug/L	<50	5892110	<50	5892110	<50	50	5892110
Dissolved Cadmium (Cd)	ug/L	0.0478	5892110	0.308	5892110	<0.0050	0.0050	5892110
Dissolved Chromium (Cr)	ug/L	<0.10	5892110	0.10	5892110	<0.10	0.10	5892110
Dissolved Cobalt (Co)	ug/L	0.0238	5892110	0.280	5892110	<0.0050	0.0050	5892110
Dissolved Copper (Cu)	ug/L	9.40	5903722	2.13	5892110	0.538 (1)	0.050	5900548
Dissolved Iron (Fe)	ug/L	11.1	5892110	93.9	5892110	1.4	1.0	5892110
Dissolved Lead (Pb)	ug/L	0.436	5903722	0.383	5892110	0.0269 (1)	0.0050	5900548
Dissolved Lithium (Li)	ug/L	2.50	5892110	0.68	5892110	<0.50	0.50	5892110
Dissolved Manganese (Mn)	ug/L	0.305	5892110	27.7	5892110	<0.050	0.050	5892110
Dissolved Molybdenum (Mo)	ug/L	1.30	5892110	0.100	5892110	<0.050	0.050	5892110
Dissolved Nickel (Ni)	ug/L	0.870	5892110	1.47	5892110	0.030	0.020	5892110
Dissolved Selenium (Se)	ug/L	1.22	5892110	0.108	5892110	<0.040	0.040	5892110
Dissolved Silicon (Si)	ug/L	3510	5892110	3050	5892110	<100	100	5892110
Dissolved Silver (Ag)	ug/L	<0.0050	5892110	0.0066	5892110	<0.0050	0.0050	5892110
Dissolved Strontium (Sr)	ug/L	242	5892110	86.5	5892110	<0.050	0.050	5892110
Dissolved Thallium (Tl)	ug/L	<0.0020	5892110	0.0068	5892110	<0.0020	0.0020	5892110
Dissolved Tin (Sn)	ug/L	1.07	5903722	0.23	5892110	<0.20	0.20	5892110
Dissolved Titanium (Ti)	ug/L	<0.50	5892110	0.70	5892110	<0.50	0.50	5892110
Dissolved Uranium (U)	ug/L	2.89	5892110	0.980	5892110	<0.0020	0.0020	5892110
Dissolved Vanadium (V)	ug/L	0.47	5892110	<0.20	5892110	<0.20	0.20	5892110
Dissolved Zinc (Zn)	ug/L	9.98	5903722	408	5892110	0.72 (1)	0.10	5900548
Dissolved Zirconium (Zr)	ug/L	<0.10	5892110	0.16	5892110	<0.10	0.10	5892110

RDL = Reportable Detection Limit

(1) Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2767		DO2768		DO2769		
Sampling Date		2012/05/29 09:55		2012/05/29 08:50				
COC Number		28016201		28016201		28016201		
	UNITS	VW2	QC Batch	VW3	QC Batch	FIELD BLANK	RDL	QC Batch

Dissolved Calcium (Ca)	mg/L	60.3	5887240	19.5	5887240	<0.050	0.050	5887240
Dissolved Magnesium (Mg)	mg/L	24.2	5887240	5.69	5887240	<0.050	0.050	5887240
Dissolved Potassium (K)	mg/L	1.01	5887240	0.675	5887240	<0.050	0.050	5887240
Dissolved Sodium (Na)	mg/L	1.77	5887240	0.931	5887240	<0.050	0.050	5887240
Dissolved Sulphur (S)	mg/L	26	5887240	<10	5887240	<10	10	5887240

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2789		DO2790		DO2791		
Sampling Date		2012/05/30 10:35		2012/05/28 16:45		2012/05/28 15:45		
COC Number		28016202		28016202		28016202		
	UNITS	FC	QC Batch	R1	QC Batch	X14	RDL	QC Batch

Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	10.8	5887424	35.7	5887424	80.5	0.50	5887424
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	128	5892110	59.5	5892110	38.5	0.20	5892110
Dissolved Antimony (Sb)	ug/L	0.027	5892110	0.075	5892110	0.061	0.020	5892110
Dissolved Arsenic (As)	ug/L	0.249	5892110	0.452	5892110	0.430	0.020	5892110
Dissolved Barium (Ba)	ug/L	14.9	5892110	25.2	5892110	28.2	0.020	5892110
Dissolved Beryllium (Be)	ug/L	0.021	5892110	0.021	5892110	0.012	0.010	5892110
Dissolved Bismuth (Bi)	ug/L	<0.0050	5892110	<0.0050	5892110	<0.0050	0.0050	5892110
Dissolved Boron (B)	ug/L	<50	5892110	<50	5892110	<50	50	5892110
Dissolved Cadmium (Cd)	ug/L	0.0505	5892110	0.0095	5892110	0.0314	0.0050	5892110
Dissolved Chromium (Cr)	ug/L	0.13	5892110	0.12	5892110	0.11	0.10	5892110
Dissolved Cobalt (Co)	ug/L	0.0837	5892110	0.0529	5892110	0.248	0.0050	5892110
Dissolved Copper (Cu)	ug/L	2.23	5892110	3.09	5903722	1.41	0.050	5892110
Dissolved Iron (Fe)	ug/L	119	5892110	175	5892110	186	1.0	5892110
Dissolved Lead (Pb)	ug/L	7.41	5892110	0.846	5892110	0.407	0.0050	5892110
Dissolved Lithium (Li)	ug/L	0.59	5892110	0.90	5892110	1.51	0.50	5892110
Dissolved Manganese (Mn)	ug/L	5.64	5892110	5.73	5892110	202	0.050	5892110
Dissolved Molybdenum (Mo)	ug/L	<0.050	5892110	0.229	5892110	0.259	0.050	5892110
Dissolved Nickel (Ni)	ug/L	0.616	5892110	0.726	5892110	1.09	0.020	5892110
Dissolved Selenium (Se)	ug/L	<0.040	5892110	0.151	5892110	0.149	0.040	5892110
Dissolved Silicon (Si)	ug/L	4510	5892110	3180	5892110	3300	100	5892110
Dissolved Silver (Ag)	ug/L	0.0137	5892110	<0.0050	5892110	<0.0050	0.0050	5892110
Dissolved Strontium (Sr)	ug/L	18.2	5892110	48.2	5892110	87.1	0.050	5892110
Dissolved Thallium (Tl)	ug/L	0.0079	5892110	0.0043	5892110	0.0073	0.0020	5892110
Dissolved Tin (Sn)	ug/L	<0.20	5892110	0.23	5892110	<0.20	0.20	5892110
Dissolved Titanium (Ti)	ug/L	1.06	5892110	0.81	5892110	<0.50	0.50	5892110
Dissolved Uranium (U)	ug/L	0.183	5892110	0.327	5892110	0.538	0.0020	5892110
Dissolved Vanadium (V)	ug/L	<0.20	5892110	0.28	5892110	<0.20	0.20	5892110
Dissolved Zinc (Zn)	ug/L	17.4	5892110	9.44	5903722	13.0 (1)	0.10	5892110
Dissolved Zirconium (Zr)	ug/L	0.17	5892110	0.11	5892110	0.12	0.10	5892110
Dissolved Calcium (Ca)	mg/L	3.37	5887240	10.9	5887240	24.4	0.050	5887240

RDL = Reportable Detection Limit

(1) Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2789		DO2790		DO2791		
Sampling Date		2012/05/30 10:35		2012/05/28 16:45		2012/05/28 15:45		
COC Number		28016202		28016202		28016202		
	UNITS	FC	QC Batch	R1	QC Batch	X14	RDL	QC Batch

Dissolved Magnesium (Mg)	mg/L	0.588	5887240	2.04	5887240	4.79	0.050	5887240
Dissolved Potassium (K)	mg/L	0.614	5887240	0.944	5887240	1.11	0.050	5887240
Dissolved Sodium (Na)	mg/L	1.02	5887240	0.977	5887240	1.43	0.050	5887240
Dissolved Sulphur (S)	mg/L	<10	5887240	<10	5887240	<10	10	5887240

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2792		DO2793		DO2794		
Sampling Date		2012/05/29 13:40		2012/05/29 13:25		2012/05/29 14:30		
COC Number		28016202		28016202		28016202		
	UNITS	R4	QC Batch	R6	QC Batch	A1	RDL	QC Batch

Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	82.4	5887424	70.8	5887424	69.7	0.50	5887424
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	37.4	5892110	42.9	5893491	45.9	0.20	5893491
Dissolved Antimony (Sb)	ug/L	0.101	5892110	0.094	5893491	0.074	0.020	5893491
Dissolved Arsenic (As)	ug/L	0.380	5892110	0.452	5893491	0.531	0.020	5893491
Dissolved Barium (Ba)	ug/L	31.4	5892110	37.1	5893491	31.7	0.020	5893491
Dissolved Beryllium (Be)	ug/L	0.016	5892110	0.015	5893491	0.019	0.010	5893491
Dissolved Bismuth (Bi)	ug/L	<0.0050	5892110	<0.0050	5893491	<0.0050	0.0050	5893491
Dissolved Boron (B)	ug/L	<50	5892110	<50	5893491	<50	50	5893491
Dissolved Cadmium (Cd)	ug/L	0.0255	5892110	0.0283 (1)	5893491	0.0246	0.0050	5893491
Dissolved Chromium (Cr)	ug/L	0.13	5892110	<0.10	5893491	0.19	0.10	5893491
Dissolved Cobalt (Co)	ug/L	0.143	5892110	0.0428	5893491	0.0784	0.0050	5893491
Dissolved Copper (Cu)	ug/L	1.65	5892110	1.41	5893491	1.79	0.050	5893491
Dissolved Iron (Fe)	ug/L	150	5892110	127	5893491	130	1.0	5893491
Dissolved Lead (Pb)	ug/L	0.403	5892110	0.0604	5893491	0.160	0.0050	5893491
Dissolved Lithium (Li)	ug/L	1.45	5892110	0.92	5893491	1.76	0.50	5893491
Dissolved Manganese (Mn)	ug/L	113	5892110	7.21	5893491	41.6	0.050	5893491
Dissolved Molybdenum (Mo)	ug/L	0.277	5892110	0.559	5893491	0.615	0.050	5903722
Dissolved Nickel (Ni)	ug/L	1.42	5892110	0.835	5893491	1.42	0.020	5893491
Dissolved Selenium (Se)	ug/L	0.220	5892110	0.375	5893491	0.249	0.040	5893491
Dissolved Silicon (Si)	ug/L	3540	5892110	3000	5893491	3500	100	5893491
Dissolved Silver (Ag)	ug/L	<0.0050	5892110	0.0053	5893491	<0.0050	0.0050	5893491
Dissolved Strontium (Sr)	ug/L	86.2	5892110	57.1	5893491	72.2	0.050	5893491
Dissolved Thallium (Tl)	ug/L	0.0053	5892110	0.0025	5893491	0.0058	0.0020	5893491
Dissolved Tin (Sn)	ug/L	<0.20	5892110	<0.20	5893491	3.93	0.20	5903722
Dissolved Titanium (Ti)	ug/L	0.68	5892110	0.60	5893491	0.95	0.50	5893491
Dissolved Uranium (U)	ug/L	0.545	5892110	0.616	5893491	0.671	0.0020	5893491
Dissolved Vanadium (V)	ug/L	0.27	5892110	<0.20	5893491	<0.20	0.20	5893491
Dissolved Zinc (Zn)	ug/L	13.3	5892110	3.50	5903722	3.52	0.10	5893491
Dissolved Zirconium (Zr)	ug/L	0.11	5892110	<0.10	5893491	0.15	0.10	5893491
Dissolved Calcium (Ca)	mg/L	25.1	5887240	19.7	5887240	20.8	0.050	5887240

RDL = Reportable Detection Limit
 (1) Duplicate RPD above control limit - (10% of analytes failure allowed).

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2792		DO2793		DO2794		
Sampling Date		2012/05/29 13:40		2012/05/29 13:25		2012/05/29 14:30		
COC Number		28016202		28016202		28016202		
	UNITS	R4	QC Batch	R6	QC Batch	A1	RDL	QC Batch

Dissolved Magnesium (Mg)	mg/L	4.81	5887240	5.22	5887240	4.35	0.050	5887240
Dissolved Potassium (K)	mg/L	1.02	5887240	1.28	5887240	1.09	0.050	5887240
Dissolved Sodium (Na)	mg/L	1.42	5887240	0.883	5887240	1.15	0.050	5887240
Dissolved Sulphur (S)	mg/L	<10	5887240	<10	5887240	<10	10	5887240

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2795	DO2796		DO2797		
Sampling Date		2012/05/29 12:30	2012/05/29 15:10		2012/05/30 14:05		
COC Number		28016202	28016202		28016202		
	UNITS	P1	P4	QC Batch	USFR	RDL	QC Batch

Misc. Inorganics							
Dissolved Hardness (CaCO3)	mg/L	96.0	88.5	5887424	18.4	0.50	5887424
Dissolved Metals by ICPMS							
Dissolved Aluminum (Al)	ug/L	32.2	34.8	5893491	36.2	0.20	5893491
Dissolved Antimony (Sb)	ug/L	0.181	0.178	5893491	0.033	0.020	5893491
Dissolved Arsenic (As)	ug/L	0.530	0.576	5893491	0.219	0.020	5893491
Dissolved Barium (Ba)	ug/L	45.9	43.7	5893491	19.5	0.020	5893491
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	5893491	0.013	0.010	5893491
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	5893491	<0.0050	0.0050	5893491
Dissolved Boron (B)	ug/L	<50	<50	5893491	<50	50	5893491
Dissolved Cadmium (Cd)	ug/L	0.148	0.114	5893491	0.0115	0.0050	5893491
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	5893491	<0.10	0.10	5893491
Dissolved Cobalt (Co)	ug/L	0.0834	0.0747	5893491	0.0568	0.0050	5893491
Dissolved Copper (Cu)	ug/L	2.13	2.24	5893491	0.962	0.050	5893491
Dissolved Iron (Fe)	ug/L	114	110	5893491	169	1.0	5893491
Dissolved Lead (Pb)	ug/L	0.0620	0.0823	5893491	0.0651	0.0050	5893491
Dissolved Lithium (Li)	ug/L	1.62	1.92	5893491	1.18	0.50	5893491
Dissolved Manganese (Mn)	ug/L	15.3	13.3	5893491	19.1	0.050	5893491
Dissolved Molybdenum (Mo)	ug/L	0.763	0.739	5903722	0.158	0.050	5893491
Dissolved Nickel (Ni)	ug/L	4.92	3.86	5893491	0.315	0.020	5893491
Dissolved Selenium (Se)	ug/L	0.820	0.844	5893491	<0.040	0.040	5893491
Dissolved Silicon (Si)	ug/L	2870	2800	5893491	3690	100	5893491
Dissolved Silver (Ag)	ug/L	0.0050	0.0074	5893491	<0.0050	0.0050	5893491
Dissolved Strontium (Sr)	ug/L	110	110	5893491	37.0	0.050	5893491
Dissolved Thallium (Tl)	ug/L	0.0043	0.0031	5893491	0.0021	0.0020	5893491
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	5893491	<0.20	0.20	5893491
Dissolved Titanium (Ti)	ug/L	<0.50	1.02	5893491	0.71	0.50	5893491
Dissolved Uranium (U)	ug/L	0.721	0.716	5893491	0.465	0.0020	5893491
Dissolved Vanadium (V)	ug/L	0.33	0.23	5893491	<0.20	0.20	5893491
Dissolved Zinc (Zn)	ug/L	8.71	7.22	5893491	0.85	0.10	5893491
Dissolved Zirconium (Zr)	ug/L	0.11	0.10	5893491	<0.10	0.10	5893491
Dissolved Calcium (Ca)	mg/L	24.9	23.2	5887240	6.02	0.050	5887240
Dissolved Magnesium (Mg)	mg/L	8.21	7.42	5887240	0.809	0.050	5887240

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2795	DO2796		DO2797		
Sampling Date		2012/05/29 12:30	2012/05/29 15:10		2012/05/30 14:05		
COC Number		28016202	28016202		28016202		
	UNITS	P1	P4	QC Batch	USFR	RDL	QC Batch

Dissolved Potassium (K)	mg/L	0.742	0.765	5887240	0.741	0.050	5887240
Dissolved Sodium (Na)	mg/L	0.997	1.02	5887240	1.04	0.050	5887240
Dissolved Sulphur (S)	mg/L	11	<10	5887240	<10	10	5887240

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2798		DO2806			DO2807		
Sampling Date		2012/05/29 08:20		2012/05/30 09:45			2012/05/30 09:00		
COC Number		28016202		28016203			28016203		
	UNITS	GCULV	QC Batch	W10	RDL	QC Batch	NW1D	RDL	QC Batch

Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	19.3	5887424	23.6	0.50	5887424	1730	0.50	5887424
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	40.4	5893491	56.6	0.20	5893491	11.6	1.0	5893491
Dissolved Antimony (Sb)	ug/L	0.023	5893491	0.039	0.020	5893491	0.21	0.10	5893491
Dissolved Arsenic (As)	ug/L	0.276	5893491	0.302	0.020	5893491	0.47	0.10	5893491
Dissolved Barium (Ba)	ug/L	21.2	5893491	9.11	0.020	5893491	27.3	0.10	5893491
Dissolved Beryllium (Be)	ug/L	0.012	5893491	<0.010	0.010	5893491	0.110	0.050	5893491
Dissolved Bismuth (Bi)	ug/L	<0.0050	5893491	<0.0050	0.0050	5893491	<0.025	0.025	5893491
Dissolved Boron (B)	ug/L	<50	5893491	<50	50	5893491	<250	250	5893491
Dissolved Cadmium (Cd)	ug/L	0.0133	5893491	0.0315	0.0050	5893491	56.5	0.025	5893491
Dissolved Chromium (Cr)	ug/L	<0.10	5893491	0.12	0.10	5893491	<0.50	0.50	5893491
Dissolved Cobalt (Co)	ug/L	0.0525	5893491	0.0308	0.0050	5893491	41.8	0.025	5893491
Dissolved Copper (Cu)	ug/L	0.422	5893491	1.93	0.050	5893491	23.9	0.25	5893491
Dissolved Iron (Fe)	ug/L	180	5893491	53.0	1.0	5893491	2950	5.0	5893491
Dissolved Lead (Pb)	ug/L	0.0791	5893491	0.429	0.0050	5893491	1.94	0.025	5893491
Dissolved Lithium (Li)	ug/L	0.53	5893491	0.84	0.50	5893491	33.4	2.5	5893491
Dissolved Manganese (Mn)	ug/L	16.9	5893491	0.635	0.050	5893491	3980	0.25	5893491
Dissolved Molybdenum (Mo)	ug/L	0.166	5893491	0.186	0.050	5893491	0.95	0.25	5893491
Dissolved Nickel (Ni)	ug/L	0.314	5893491	0.523	0.020	5893491	134	0.10	5893491
Dissolved Selenium (Se)	ug/L	<0.040	5893491	<0.040	0.040	5893491	2.25	0.40	5903722
Dissolved Silicon (Si)	ug/L	3300	5893491	4850	100	5893491	6020	500	5893491
Dissolved Silver (Ag)	ug/L	<0.0050	5893491	0.0061	0.0050	5893491	0.028	0.025	5893491
Dissolved Strontium (Sr)	ug/L	39.5	5893491	28.1	0.050	5893491	1780	0.25	5893491
Dissolved Thallium (Tl)	ug/L	0.0036	5893491	0.0027	0.0020	5893491	0.433	0.010	5893491
Dissolved Tin (Sn)	ug/L	<0.20	5893491	<0.20	0.20	5893491	<1.0	1.0	5893491
Dissolved Titanium (Ti)	ug/L	<0.50	5893491	0.77	0.50	5893491	<2.5	2.5	5893491
Dissolved Uranium (U)	ug/L	0.562	5893491	0.138	0.0020	5893491	4.09	0.010	5893491
Dissolved Vanadium (V)	ug/L	<0.20	5893491	<0.20	0.20	5893491	<1.0	1.0	5893491
Dissolved Zinc (Zn)	ug/L	8.31	5903722	6.98	0.10	5893491	68700	0.50	5893491
Dissolved Zirconium (Zr)	ug/L	<0.10	5893491	0.19	0.10	5893491	<0.50	0.50	5893491
Dissolved Calcium (Ca)	mg/L	6.32	5887240	7.70	0.050	5887240	345	0.25	5887240
Dissolved Magnesium (Mg)	mg/L	0.867	5887240	1.05	0.050	5887240	212	0.25	5887240

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2798		DO2806			DO2807		
Sampling Date		2012/05/29 08:20		2012/05/30 09:45			2012/05/30 09:00		
COC Number		28016202		28016203			28016203		
	UNITS	GCULV	QC Batch	W10	RDL	QC Batch	NW1D	RDL	QC Batch

Dissolved Potassium (K)	mg/L	0.745	5887240	0.687	0.050	5887240	5.53	0.25	5887240
Dissolved Sodium (Na)	mg/L	1.03	5887240	1.08	0.050	5887240	17.9	0.25	5887240
Dissolved Sulphur (S)	mg/L	<10	5887240	<10	10	5887240	595	50	5887240

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2808		DO2809		DO2810		
Sampling Date		2012/05/28 17:40		2012/05/30		2012/05/29		
COC Number		28016203		28016203		28016203		
	UNITS	K8	QC Batch	DUP-1	QC Batch	DUP-2	RDL	QC Batch
Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	39.0	5887424	16.9	5887424	70.8	0.50	5887424
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	33.8	5893491	36.9	5893491	41.1	0.20	5893491
Dissolved Antimony (Sb)	ug/L	0.026	5893491	0.032	5893491	0.074	0.020	5893491
Dissolved Arsenic (As)	ug/L	0.228	5893491	0.242	5893491	0.551	0.020	5893491
Dissolved Barium (Ba)	ug/L	22.8	5893491	19.5	5893491	30.7	0.020	5893491
Dissolved Beryllium (Be)	ug/L	<0.010	5893491	0.030	5893491	0.054	0.010	5893491
Dissolved Bismuth (Bi)	ug/L	<0.0050	5893491	<0.0050	5893491	<0.0050	0.0050	5893491
Dissolved Boron (B)	ug/L	<50	5893491	<50	5893491	<50	50	5893491
Dissolved Cadmium (Cd)	ug/L	0.0242	5893491	0.0100	5893491	0.0335	0.0050	5893491
Dissolved Chromium (Cr)	ug/L	<0.10	5893491	<0.10	5893491	0.14	0.10	5893491
Dissolved Cobalt (Co)	ug/L	0.0333	5893491	0.0493	5893491	0.0859	0.0050	5893491
Dissolved Copper (Cu)	ug/L	0.986	5893491	0.634	5893491	1.79	0.050	5893491
Dissolved Iron (Fe)	ug/L	73.2	5893491	150	5893491	128	1.0	5893491
Dissolved Lead (Pb)	ug/L	0.306	5893491	0.0624	5893491	0.133	0.0050	5893491
Dissolved Lithium (Li)	ug/L	1.80	5893491	0.63	5893491	1.61	0.50	5893491
Dissolved Manganese (Mn)	ug/L	0.977	5893491	19.8	5893491	39.5	0.050	5893491
Dissolved Molybdenum (Mo)	ug/L	0.078	5893491	0.139	5893491	0.377	0.050	5893491
Dissolved Nickel (Ni)	ug/L	0.511	5893491	0.338	5893491	1.56	0.020	5893491
Dissolved Selenium (Se)	ug/L	0.048	5893491	0.082	5893491	0.274	0.040	5893491
Dissolved Silicon (Si)	ug/L	3280	5903722	3310	5893491	3570	100	5893491
Dissolved Silver (Ag)	ug/L	0.0050	5893491	<0.0050	5893491	<0.0050	0.0050	5893491
Dissolved Strontium (Sr)	ug/L	78.9	5893491	37.4	5893491	70.1	0.050	5893491
Dissolved Thallium (Tl)	ug/L	0.0044	5893491	0.0039	5893491	0.0021	0.0020	5893491
Dissolved Tin (Sn)	ug/L	<0.20	5893491	<0.20	5893491	<0.20	0.20	5893491
Dissolved Titanium (Ti)	ug/L	<0.50	5893491	0.72	5893491	0.70	0.50	5893491
Dissolved Uranium (U)	ug/L	1.02	5893491	0.445	5893491	0.632	0.0020	5893491
Dissolved Vanadium (V)	ug/L	<0.20	5893491	<0.20	5893491	<0.20	0.20	5893491
Dissolved Zinc (Zn)	ug/L	8.19	5903722	3.03	5903722	4.53	0.10	5893491
Dissolved Zirconium (Zr)	ug/L	0.10	5893491	<0.10	5893491	0.15	0.10	5893491
Dissolved Calcium (Ca)	mg/L	12.9	5887240	5.43	5887240	21.3	0.050	5887240
Dissolved Magnesium (Mg)	mg/L	1.67	5887240	0.811	5887240	4.25	0.050	5887240
RDL = Reportable Detection Limit								

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2808		DO2809		DO2810		
Sampling Date		2012/05/28 17:40		2012/05/30		2012/05/29		
COC Number		28016203		28016203		28016203		
	UNITS	K8	QC Batch	DUP-1	QC Batch	DUP-2	RDL	QC Batch

Dissolved Potassium (K)	mg/L	1.29	5887240	0.767	5887240	1.11	0.050	5887240
Dissolved Sodium (Na)	mg/L	1.22	5887240	1.07	5887240	1.13	0.050	5887240
Dissolved Sulphur (S)	mg/L	<10	5887240	<10	5887240	<10	10	5887240

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2811		
Sampling Date				
COC Number		28016203		
	UNITS	TRAVEL BLANK	RDL	QC Batch

Misc. Inorganics				
Dissolved Hardness (CaCO3)	mg/L	<0.50	0.50	5887424
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	0.73	0.20	5893491
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	5893491
Dissolved Arsenic (As)	ug/L	0.027	0.020	5893491
Dissolved Barium (Ba)	ug/L	<0.020	0.020	5900548
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	5893491
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	5893491
Dissolved Boron (B)	ug/L	<50	50	5893491
Dissolved Cadmium (Cd)	ug/L	0.0063	0.0050	5893491
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	5893491
Dissolved Cobalt (Co)	ug/L	<0.0050	0.0050	5893491
Dissolved Copper (Cu)	ug/L	<0.050	0.050	5893491
Dissolved Iron (Fe)	ug/L	<1.0	1.0	5893491
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	5893491
Dissolved Lithium (Li)	ug/L	<0.50	0.50	5893491
Dissolved Manganese (Mn)	ug/L	<0.050	0.050	5893491
Dissolved Molybdenum (Mo)	ug/L	<0.050	0.050	5893491
Dissolved Nickel (Ni)	ug/L	0.033	0.020	5893491
Dissolved Selenium (Se)	ug/L	<0.040	0.040	5893491
Dissolved Silicon (Si)	ug/L	<100	100	5893491
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	5893491
Dissolved Strontium (Sr)	ug/L	0.055	0.050	5893491
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	5893491
Dissolved Tin (Sn)	ug/L	<0.20	0.20	5893491
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	5893491
Dissolved Uranium (U)	ug/L	<0.0020	0.0020	5893491
Dissolved Vanadium (V)	ug/L	<0.20	0.20	5893491
Dissolved Zinc (Zn)	ug/L	0.45	0.10	5893491
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	5893491
Dissolved Calcium (Ca)	mg/L	<0.050	0.050	5887240
Dissolved Magnesium (Mg)	mg/L	<0.050	0.050	5887240
RDL = Reportable Detection Limit				

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		DO2811		
Sampling Date				
COC Number		28016203		
	UNITS	TRAVEL BLANK	RDL	QC Batch

Dissolved Potassium (K)	mg/L	<0.050	0.050	5887240
Dissolved Sodium (Na)	mg/L	<0.050	0.050	5887240
Dissolved Sulphur (S)	mg/L	<10	10	5887240
RDL = Reportable Detection Limit				

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		DO2761	DO2762	DO2763	DO2764		
Sampling Date		2012/05/29 16:30	2012/05/30 13:00	2012/05/30 11:40	2012/05/30 13:35		
COC Number		28016201	28016201	28016201	28016201		
	UNITS	V8	V17A	V20A	VR	RDL	QC Batch

Calculated Parameters							
Total Hardness (CaCO3)	mg/L	124	68.1	141	19.2	0.50	5886231
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	514	176	4.74	123	0.20	5891231
Total Antimony (Sb)	ug/L	0.145	0.075	0.042	0.032	0.020	5891231
Total Arsenic (As)	ug/L	1.33	1.68	0.439	0.436	0.020	5891231
Total Barium (Ba)	ug/L	57.8	21.7	72.3	21.4	0.020	5891231
Total Beryllium (Be)	ug/L	0.040	0.051	<0.010	0.054	0.010	5891231
Total Bismuth (Bi)	ug/L	0.0123	<0.0050	<0.0050	0.0055	0.0050	5891231
Total Boron (B)	ug/L	<50	<50	<50	<50	50	5891231
Total Cadmium (Cd)	ug/L	0.134	0.302	<0.0050	0.0345	0.0050	5891231
Total Chromium (Cr)	ug/L	1.11	0.19	<0.10	0.12	0.10	5891231
Total Cobalt (Co)	ug/L	0.860	0.533	0.0240	0.0833	0.0050	5891231
Total Copper (Cu)	ug/L	3.98	1.63	0.389	1.96	0.050	5891231
Total Iron (Fe)	ug/L	870	306	21.3	117	1.0	5891231
Total Lead (Pb)	ug/L	3.01	1.23	0.0251	0.584	0.0050	5891231
Total Lithium (Li)	ug/L	2.67	1.18	2.26	<0.50	0.50	5891231
Total Manganese (Mn)	ug/L	64.8	50.9	5.88	6.09	0.050	5891231
Total Molybdenum (Mo)	ug/L	0.512	0.082	0.187	0.064	0.050	5891231
Total Nickel (Ni)	ug/L	3.42	2.16	0.365	0.455	0.020	5891231
Total Selenium (Se)	ug/L	0.492	0.079	0.324	0.049	0.040	5891231
Total Silicon (Si)	ug/L	4040	3470	3710	3510	100	5891231
Total Silver (Ag)	ug/L	0.0207	0.0100	<0.0050	0.0131	0.0050	5891231
Total Strontium (Sr)	ug/L	132	75.2	195	33.2	0.050	5891231
Total Thallium (Tl)	ug/L	0.0201	0.0144	<0.0020	0.0067	0.0020	5891231
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	5891231
Total Titanium (Ti)	ug/L	14.5	4.11	<0.50	2.81	0.50	5891231
Total Uranium (U)	ug/L	2.11	1.08	0.621	0.727	0.0020	5891231
Total Vanadium (V)	ug/L	1.52	0.32	<0.20	0.29	0.20	5891231
Total Zinc (Zn)	ug/L	46.4	559	0.50	2.43	0.10	5891231
Total Zirconium (Zr)	ug/L	0.36	0.22	<0.10	0.22	0.10	5891231
Total Calcium (Ca)	mg/L	30.4	17.3	37.6	5.90	0.050	5887425
Total Magnesium (Mg)	mg/L	11.8	6.06	11.5	1.08	0.050	5887425

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		DO2761	DO2762	DO2763	DO2764		
Sampling Date		2012/05/29 16:30	2012/05/30 13:00	2012/05/30 11:40	2012/05/30 13:35		
COC Number		28016201	28016201	28016201	28016201		
	UNITS	V8	V17A	V20A	VR	RDL	QC Batch

Total Potassium (K)	mg/L	0.973	0.648	0.691	0.575	0.050	5887425
Total Sodium (Na)	mg/L	1.60	1.02	1.29	1.07	0.050	5887425
Total Sulphur (S)	mg/L	14	13	<10	<10	10	5887425

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		DO2765	DO2766		DO2767	DO2768		
Sampling Date		2012/05/29 10:30	2012/05/29 09:20		2012/05/29 09:55	2012/05/29 08:50		
COC Number		28016201	28016201		28016201	28016201		
	UNITS	VG MAIN	VW1	QC Batch	VW2	VW3	RDL	QC Batch

Calculated Parameters								
Total Hardness (CaCO3)	mg/L	114	112	5886231	262	73.4	0.50	5886231
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	132	930	5891231	24.7	185	0.20	5894043
Total Antimony (Sb)	ug/L	0.128	0.127	5891231	0.186	0.070	0.020	5894043
Total Arsenic (As)	ug/L	0.648	1.84	5891231	0.546	1.47	0.020	5894043
Total Barium (Ba)	ug/L	35.3	85.4	5891231	83.3	32.1	0.020	5894043
Total Beryllium (Be)	ug/L	0.010	0.077	5891231	<0.010	0.040	0.010	5894043
Total Bismuth (Bi)	ug/L	<0.0050	0.0204	5891231	<0.0050	0.0052	0.0050	5894043
Total Boron (B)	ug/L	<50	<50	5891231	<50	<50	50	5894043
Total Cadmium (Cd)	ug/L	0.0817	0.245	5891231	0.0710	0.387	0.0050	5894043
Total Chromium (Cr)	ug/L	0.28	1.73	5891231	<0.10	0.27	0.10	5894043
Total Cobalt (Co)	ug/L	0.253	1.41	5891231	0.0470	0.521	0.0050	5894043
Total Copper (Cu)	ug/L	3.39	4.93	5891231	1.08	2.09	0.050	5894043
Total Iron (Fe)	ug/L	264	1650	5891231	46.4	338	1.0	5894043
Total Lead (Pb)	ug/L	1.71	4.30	5891231	0.0957	2.18	0.0050	5894043
Total Lithium (Li)	ug/L	1.73	3.55	5891231	2.62	1.22	0.50	5894043
Total Manganese (Mn)	ug/L	26.5	98.1	5891231	1.22	39.4	0.050	5894043
Total Molybdenum (Mo)	ug/L	0.469	0.191	5891231	1.29	0.108	0.050	5894043
Total Nickel (Ni)	ug/L	1.60	4.37	5891231	1.02	1.80	0.020	5894043
Total Selenium (Se)	ug/L	0.371	0.230	5891231	1.19	0.117	0.040	5894043
Total Silicon (Si)	ug/L	3870	4630	5891231	3860	3240	100	5894043
Total Silver (Ag)	ug/L	0.0084	0.0435	5891231	<0.0050	0.0139	0.0050	5894043
Total Strontium (Sr)	ug/L	115	137	5891231	247	91.1	0.050	5894043
Total Thallium (Tl)	ug/L	0.0158	0.0222	5891231	<0.0020	0.0119	0.0020	5894043
Total Tin (Sn)	ug/L	<0.20	<0.20	5891231	<0.20	<0.20	0.20	5894043
Total Titanium (Ti)	ug/L	4.07	30.0	5891231	1.01	4.72	0.50	5894043
Total Uranium (U)	ug/L	2.09	1.40	5891231	3.02	1.06	0.0020	5894043
Total Vanadium (V)	ug/L	0.45	2.47	5891231	0.22	0.23	0.20	5894043
Total Zinc (Zn)	ug/L	19.8	167	5891231	2.68	455	0.10	5894043
Total Zirconium (Zr)	ug/L	0.16	0.62	5891231	<0.10	0.19	0.10	5894043
Total Calcium (Ca)	mg/L	28.2	29.7	5887425	64.3	19.4	0.050	5887425
Total Magnesium (Mg)	mg/L	10.5	9.10	5887425	24.6	6.06	0.050	5887425

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		DO2765	DO2766		DO2767	DO2768		
Sampling Date		2012/05/29 10:30	2012/05/29 09:20		2012/05/29 09:55	2012/05/29 08:50		
COC Number		28016201	28016201		28016201	28016201		
	UNITS	VG MAIN	VW1	QC Batch	VW2	VW3	RDL	QC Batch

Total Potassium (K)	mg/L	0.893	1.02	5887425	1.05	0.740	0.050	5887425
Total Sodium (Na)	mg/L	1.54	1.55	5887425	1.74	0.961	0.050	5887425
Total Sulphur (S)	mg/L	17	<10	5887425	26	11	10	5887425

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		DO2769	DO2789	DO2790	DO2791	DO2792		
Sampling Date			2012/05/30 10:35	2012/05/28 16:45	2012/05/28 15:45	2012/05/29 13:40		
COC Number		28016201	28016202	28016202	28016202	28016202		
	UNITS	FIELD BLANK	FC	R1	X14	R4	RDL	QC Batch

Calculated Parameters								
Total Hardness (CaCO3)	mg/L	<0.50	9.91	34.4	72.3	76.5	0.50	5886231
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	0.48	283	124	117	127	0.20	5894043
Total Antimony (Sb)	ug/L	<0.020	0.046	0.072	0.064	0.084	0.020	5894043
Total Arsenic (As)	ug/L	<0.020	0.360	0.712	0.638	0.570	0.020	5894043
Total Barium (Ba)	ug/L	<0.020	28.3	28.2	33.1	41.8	0.020	5894043
Total Beryllium (Be)	ug/L	<0.010	0.055	0.027	0.017	0.020	0.010	5894043
Total Bismuth (Bi)	ug/L	<0.0050	0.0083	<0.0050	<0.0050	<0.0050	0.0050	5894043
Total Boron (B)	ug/L	<50	<50	<50	<50	<50	50	5894043
Total Cadmium (Cd)	ug/L	<0.0050	0.0706	0.0403	0.0424	0.0439	0.0050	5894043
Total Chromium (Cr)	ug/L	<0.10	0.33	0.18	0.21	0.23	0.10	5894043
Total Cobalt (Co)	ug/L	<0.0050	0.157	0.111	0.363	0.606	0.0050	5894043
Total Copper (Cu)	ug/L	<0.050	3.11	2.14	1.61	1.97	0.050	5894043
Total Iron (Fe)	ug/L	<1.0	310	331	426	399	1.0	5894043
Total Lead (Pb)	ug/L	0.0090	17.0	1.98	1.38	1.61	0.0050	5894043
Total Lithium (Li)	ug/L	<0.50	1.29	1.54	1.91	1.90	0.50	5894043
Total Manganese (Mn)	ug/L	<0.050	9.25	18.6	220	361	0.050	5894043
Total Molybdenum (Mo)	ug/L	<0.050	<0.050	0.220	0.245	0.292	0.050	5894043
Total Nickel (Ni)	ug/L	<0.020	0.860	0.889	1.37	1.86	0.020	5894043
Total Selenium (Se)	ug/L	<0.040	<0.040	0.144	0.135	0.222	0.040	5894043
Total Silicon (Si)	ug/L	<100	4330	3360	3140	3470	100	5894043
Total Silver (Ag)	ug/L	<0.0050	0.0352	0.0136	0.0085	0.0122	0.0050	5894043
Total Strontium (Sr)	ug/L	<0.050	19.1	48.5	88.8	88.4	0.050	5894043
Total Thallium (Tl)	ug/L	<0.0020	0.0108	0.0054	0.0111	0.0118	0.0020	5894043
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	5894043
Total Titanium (Ti)	ug/L	<0.50	7.53	3.30	4.21	4.67	0.50	5894043
Total Uranium (U)	ug/L	<0.0020	0.242	0.337	0.569	0.609	0.0020	5894043
Total Vanadium (V)	ug/L	<0.20	0.94	<0.20	<0.20	<0.20	0.20	5894043
Total Zinc (Zn)	ug/L	<0.10	14.8	7.56	10.1	11.8	0.10	5894043
Total Zirconium (Zr)	ug/L	<0.10	0.22	0.18	0.14	0.17	0.10	5894043
Total Calcium (Ca)	mg/L	<0.050	2.95	10.7	21.6	23.2	0.050	5887425

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		DO2769	DO2789	DO2790	DO2791	DO2792		
Sampling Date			2012/05/30 10:35	2012/05/28 16:45	2012/05/28 15:45	2012/05/29 13:40		
COC Number		28016201	28016202	28016202	28016202	28016202		
	UNITS	FIELD BLANK	FC	R1	X14	R4	RDL	QC Batch

Total Magnesium (Mg)	mg/L	<0.050	0.615	1.84	4.45	4.51	0.050	5887425
Total Potassium (K)	mg/L	<0.050	0.660	0.899	1.11	1.01	0.050	5887425
Total Sodium (Na)	mg/L	<0.050	1.01	0.845	1.34	1.32	0.050	5887425
Total Sulphur (S)	mg/L	<10	<10	<10	<10	<10	10	5887425

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		DO2793	DO2794	DO2795	DO2796		
Sampling Date		2012/05/29 13:25	2012/05/29 14:30	2012/05/29 12:30	2012/05/29 15:10		
COC Number		28016202	28016202	28016202	28016202		
	UNITS	R6	A1	P1	P4	RDL	QC Batch

Calculated Parameters							
Total Hardness (CaCO3)	mg/L	66.7	68.3	98.5	107	0.50	5886231
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	114	346	614	865	0.20	5894043
Total Antimony (Sb)	ug/L	0.105	0.120	0.299	0.322	0.020	5894043
Total Arsenic (As)	ug/L	0.570	1.00	2.13	2.84	0.020	5894043
Total Barium (Ba)	ug/L	41.9	53.3	147	205	0.020	5894043
Total Beryllium (Be)	ug/L	0.015	0.034	0.072	0.097	0.010	5894043
Total Bismuth (Bi)	ug/L	<0.0050	0.0111	0.0108	0.0151	0.0050	5894043
Total Boron (B)	ug/L	<50	<50	<50	<50	50	5894043
Total Cadmium (Cd)	ug/L	0.0615	0.0803	0.885	1.03	0.0050	5894043
Total Chromium (Cr)	ug/L	0.29	0.79	0.94	1.55	0.10	5894043
Total Cobalt (Co)	ug/L	0.145	0.583	1.54	2.15	0.0050	5894043
Total Copper (Cu)	ug/L	1.75	2.57	6.00	8.10	0.050	5894043
Total Iron (Fe)	ug/L	369	680	1820	2970	1.0	5894043
Total Lead (Pb)	ug/L	0.189	1.45	1.85	3.35	0.0050	5894043
Total Lithium (Li)	ug/L	0.99	2.00	2.56	2.90	0.50	5894043
Total Manganese (Mn)	ug/L	33.7	217	166	246	0.050	5894043
Total Molybdenum (Mo)	ug/L	0.572	0.431	0.675	0.627	0.050	5894043
Total Nickel (Ni)	ug/L	1.03	2.73	11.4	13.4	0.020	5894043
Total Selenium (Se)	ug/L	0.342	0.260	0.810	0.759	0.040	5894043
Total Silicon (Si)	ug/L	2960	3810	3520	4110	100	5894043
Total Silver (Ag)	ug/L	0.0104	0.0180	0.0638	0.0937	0.0050	5894043
Total Strontium (Sr)	ug/L	57.1	72.9	117	121	0.050	5894043
Total Thallium (Tl)	ug/L	0.0044	0.0152	0.0228	0.0327	0.0020	5894043
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	5894043
Total Titanium (Ti)	ug/L	4.16	14.8	11.2	15.3	0.50	5894043
Total Uranium (U)	ug/L	0.647	0.684	0.973	1.06	0.0020	5894043
Total Vanadium (V)	ug/L	0.30	0.93	2.94	4.27	0.20	5894043
Total Zinc (Zn)	ug/L	2.08	8.60	67.9	79.8	0.10	5894043
Total Zirconium (Zr)	ug/L	0.14	0.22	0.39	1.31	0.10	5894043
Total Calcium (Ca)	mg/L	18.5	20.4	25.9	28.9	0.050	5887425
Total Magnesium (Mg)	mg/L	4.99	4.24	8.18	8.37	0.050	5887425

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		DO2793	DO2794	DO2795	DO2796		
Sampling Date		2012/05/29 13:25	2012/05/29 14:30	2012/05/29 12:30	2012/05/29 15:10		
COC Number		28016202	28016202	28016202	28016202		
	UNITS	R6	A1	P1	P4	RDL	QC Batch

Total Potassium (K)	mg/L	1.24	1.17	0.835	0.925	0.050	5887425
Total Sodium (Na)	mg/L	0.806	1.14	0.978	1.00	0.050	5887425
Total Sulphur (S)	mg/L	<10	<10	11	11	10	5887425

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		DO2797	DO2798	DO2806		DO2807		
Sampling Date		2012/05/30 14:05	2012/05/29 08:20	2012/05/30 09:45		2012/05/30 09:00		
COC Number		28016202	28016202	28016203		28016203		
	UNITS	USFR	GCULV	W10	RDL	NW1D	RDL	QC Batch

Calculated Parameters								
Total Hardness (CaCO3)	mg/L	16.8	19.3	24.4	0.50	1930	0.50	5886231
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	81.6	99.3	113	0.20	1190	2.0	5894043
Total Antimony (Sb)	ug/L	0.029	0.029	0.034	0.020	0.33	0.20	5894043
Total Arsenic (As)	ug/L	0.383	0.404	0.278	0.020	2.68	0.20	5894043
Total Barium (Ba)	ug/L	23.5	25.8	11.1	0.020	38.1	0.20	5894043
Total Beryllium (Be)	ug/L	0.020	0.019	0.028	0.010	0.14	0.10	5894043
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	<0.050	0.050	5894043
Total Boron (B)	ug/L	<50	<50	<50	50	<500	500	5894043
Total Cadmium (Cd)	ug/L	0.0235	0.0210	0.0495	0.0050	64.0	0.050	5894043
Total Chromium (Cr)	ug/L	<0.10	0.10	0.19	0.10	<1.0	1.0	5894043
Total Cobalt (Co)	ug/L	0.0766	0.0939	0.0697	0.0050	49.3	0.050	5894043
Total Copper (Cu)	ug/L	0.997	0.594	2.81	0.050	99.5	0.50	5894043
Total Iron (Fe)	ug/L	295	390	119	1.0	7860	10	5894043
Total Lead (Pb)	ug/L	0.215	0.202	0.803	0.0050	90.0	0.050	5894043
Total Lithium (Li)	ug/L	0.54	0.74	0.91	0.50	33.3	5.0	5894043
Total Manganese (Mn)	ug/L	35.3	43.7	2.51	0.050	4510	0.50	5894043
Total Molybdenum (Mo)	ug/L	0.155	0.150	0.097	0.050	0.76	0.50	5894043
Total Nickel (Ni)	ug/L	0.402	0.394	0.655	0.020	146	0.20	5894043
Total Selenium (Se)	ug/L	<0.040	<0.040	0.069	0.040	1.85	0.40	5894043
Total Silicon (Si)	ug/L	3100	3330	4870	100	7050	1000	5894043
Total Silver (Ag)	ug/L	0.0061	0.0051	0.0235	0.0050	0.090	0.050	5894043
Total Strontium (Sr)	ug/L	36.5	39.7	28.0	0.050	1890	0.50	5894043
Total Thallium (Tl)	ug/L	0.0050	0.0054	0.0062	0.0020	0.503	0.020	5894043
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	<2.0	2.0	5894043
Total Titanium (Ti)	ug/L	3.50	4.42	2.44	0.50	8.1	5.0	5894043
Total Uranium (U)	ug/L	0.510	0.647	0.162	0.0020	4.84	0.020	5894043
Total Vanadium (V)	ug/L	0.24	<0.20	<0.20	0.20	<2.0	2.0	5894043
Total Zinc (Zn)	ug/L	1.74	1.84	6.46	0.10	76500	1.0	5894043
Total Zirconium (Zr)	ug/L	0.13	0.13	0.22	0.10	<1.0	1.0	5894043
Total Calcium (Ca)	mg/L	5.24	6.13	7.96	0.050	381	0.50	5887425
Total Magnesium (Mg)	mg/L	0.894	0.976	1.10	0.050	239	0.50	5887425

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		DO2797	DO2798	DO2806		DO2807		
Sampling Date		2012/05/30 14:05	2012/05/29 08:20	2012/05/30 09:45		2012/05/30 09:00		
COC Number		28016202	28016202	28016203		28016203		
	UNITS	USFR	GCULV	W10	RDL	NW1D	RDL	QC Batch

Total Potassium (K)	mg/L	0.840	0.837	0.714	0.050	6.76	0.50	5887425
Total Sodium (Na)	mg/L	1.12	1.11	1.05	0.050	20.1	0.50	5887425
Total Sulphur (S)	mg/L	<10	<10	<10	10	702	100	5887425

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

 LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		DO2808	DO2809	DO2810	DO2811		
Sampling Date		2012/05/28 17:40	2012/05/30	2012/05/29			
COC Number		28016203	28016203	28016203	28016203		
	UNITS	K8	DUP-1	DUP-2	TRAVEL BLANK	RDL	QC Batch

Calculated Parameters							
Total Hardness (CaCO3)	mg/L	33.4	17.0	70.6	<0.50	0.50	5886231
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	50.0	77.2	349	1.07	0.20	5894043
Total Antimony (Sb)	ug/L	0.029	0.029	0.127	<0.020	0.020	5894043
Total Arsenic (As)	ug/L	0.303	0.337	1.13	<0.020	0.020	5894043
Total Barium (Ba)	ug/L	24.5	23.2	54.3	0.040	0.020	5894043
Total Beryllium (Be)	ug/L	0.020	0.019	0.034	<0.010	0.010	5894043
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0074	<0.0050	0.0050	5894043
Total Boron (B)	ug/L	<50	<50	<50	<50	50	5894043
Total Cadmium (Cd)	ug/L	0.0262	0.0182	0.0886	<0.0050	0.0050	5894043
Total Chromium (Cr)	ug/L	<0.10	<0.10	0.80	<0.10	0.10	5894043
Total Cobalt (Co)	ug/L	0.0358	0.0847	0.606	<0.0050	0.0050	5894043
Total Copper (Cu)	ug/L	1.71	0.620	2.67	0.567	0.050	5894043
Total Iron (Fe)	ug/L	86.0	283	734	2.3	1.0	5894043
Total Lead (Pb)	ug/L	0.486	0.201	1.78	0.0317	0.0050	5894043
Total Lithium (Li)	ug/L	1.57	0.62	2.17	<0.50	0.50	5894043
Total Manganese (Mn)	ug/L	1.99	34.4	223	<0.050	0.050	5894043
Total Molybdenum (Mo)	ug/L	0.059	0.157	0.422	<0.050	0.050	5894043
Total Nickel (Ni)	ug/L	0.549	0.403	2.91	<0.020	0.020	5894043
Total Selenium (Se)	ug/L	0.059	<0.040	0.266	<0.040	0.040	5894043
Total Silicon (Si)	ug/L	2960	3300	3930	<100	100	5894043
Total Silver (Ag)	ug/L	0.0079	<0.0050	0.0210	<0.0050	0.0050	5894043
Total Strontium (Sr)	ug/L	76.5	37.0	74.0	<0.050	0.050	5894043
Total Thallium (Tl)	ug/L	0.0046	0.0051	0.0128	<0.0020	0.0020	5894043
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.25	0.20	5894043
Total Titanium (Ti)	ug/L	0.85	3.08	20.0	<0.50	0.50	5894043
Total Uranium (U)	ug/L	0.954	0.508	0.686	<0.0020	0.0020	5894043
Total Vanadium (V)	ug/L	<0.20	0.25	0.88	<0.20	0.20	5894043
Total Zinc (Zn)	ug/L	2.82	1.31	8.72	1.52	0.10	5894043
Total Zirconium (Zr)	ug/L	0.12	0.12	0.24	<0.10	0.10	5894043
Total Calcium (Ca)	mg/L	10.7	5.44	21.0	<0.050	0.050	5887425

RDL = Reportable Detection Limit

Maxxam Job #: B245483
 Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
 Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		DO2808	DO2809	DO2810	DO2811		
Sampling Date		2012/05/28 17:40	2012/05/30	2012/05/29			
COC Number		28016203	28016203	28016203	28016203		
	UNITS	K8	DUP-1	DUP-2	TRAVEL BLANK	RDL	QC Batch

Total Magnesium (Mg)	mg/L	1.62	0.842	4.38	<0.050	0.050	5887425
Total Potassium (K)	mg/L	1.27	0.810	1.21	<0.050	0.050	5887425
Total Sodium (Na)	mg/L	1.13	1.08	1.15	<0.050	0.050	5887425
Total Sulphur (S)	mg/L	<10	<10	<10	<10	10	5887425

RDL = Reportable Detection Limit

Maxxam Job #: B245483
Report Date: 2012/06/08

LABERGE ENVIRONMENTAL SERVICES
Client Project #: FARO Surface water

Your P.O. #: B12-090-DL

Sample DO2807-01: The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Sample DO2808-01: The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Sample DO2809-01: The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Sample DO2810-01: The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Sample DO2811-01: The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Sample DO2763, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2764, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2766, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2767, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2769, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2790, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2793, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2794, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2795, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2796, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2798, Elements by ICPMS Low Level (dissolved): Test repeated.

LOW LEVEL DISSOLVED METALS IN WATER (WATER) Comments

Sample DO2807-04 Elements by ICPMS Low Level (dissolved): RDL raised due to sample matrix interference.

Sample DO2807, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2808, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2809, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2811, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample DO2807-04 Elements by ICPMS Low Level (dissolved): RDL raised due to sample matrix interference.

LOW LEVEL TOTAL METALS IN WATER (WATER) Comments

Sample DO2807-03 Elements by ICPMS Low Level (total): RDL raised due to sample matrix interference.

Results relate only to the items tested.

LABERGE ENVIRONMENTAL SERVICES
 Attention: Bonnie Burns
 Client Project #: FARO Surface water
 P.O. #: B12-090-DL
 Site Location:

Quality Assurance Report

Maxxam Job Number: VB245483

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
5886027 NS6	Spiked Blank	Turbidity	2012/06/01		101	%	80 - 120
	Method Blank	Turbidity	2012/06/01	<0.10		NTU	
	RPD [DO2761-01]	Turbidity	2012/06/01	8.5		%	20
	RPD [DO2809-01]	Turbidity	2012/06/01	1.8		%	20
5888356 PC4	Spiked Blank	Total Suspended Solids	2012/06/04		103	%	80 - 120
	Method Blank	Total Suspended Solids	2012/06/04	<1.0		mg/L	
5889214 MM3	Matrix Spike	Alkalinity (Total as CaCO3)	2012/06/02		NC	%	80 - 120
	Spiked Blank	Alkalinity (Total as CaCO3)	2012/06/02		96	%	80 - 120
	Method Blank	Alkalinity (Total as CaCO3)	2012/06/02	<0.50		mg/L	
		Alkalinity (PP as CaCO3)	2012/06/02	<0.50		mg/L	
		Bicarbonate (HCO3)	2012/06/02	<0.50		mg/L	
		Carbonate (CO3)	2012/06/02	<0.50		mg/L	
		Hydroxide (OH)	2012/06/02	<0.50		mg/L	
	RPD	Alkalinity (Total as CaCO3)	2012/06/02	1.7		%	20
		Alkalinity (PP as CaCO3)	2012/06/02	NC		%	20
		Bicarbonate (HCO3)	2012/06/02	1.8		%	20
		Carbonate (CO3)	2012/06/02	NC		%	20
		Hydroxide (OH)	2012/06/02	NC		%	20
5889219 MM3	Spiked Blank	Conductivity	2012/06/02		100	%	80 - 120
	Method Blank	Conductivity	2012/06/02	<1.0		uS/cm	
	RPD	Conductivity	2012/06/02	0.2		%	20
5889365 CB9	Matrix Spike	Nitrate plus Nitrite (N)	2012/06/02		97	%	80 - 120
	[DO2791-02]	Nitrate plus Nitrite (N)	2012/06/02		104	%	80 - 120
	Spiked Blank	Nitrate plus Nitrite (N)	2012/06/02			mg/L	
	Method Blank	Nitrate plus Nitrite (N)	2012/06/02	<0.0020		mg/L	
	RPD [DO2794-02]	Nitrate plus Nitrite (N)	2012/06/02	3.7 (1)		%	25
5889366 CB9	Matrix Spike	Nitrite (N)	2012/06/02		91	%	80 - 120
	[DO2791-02]	Nitrite (N)	2012/06/02		103	%	80 - 120
	Spiked Blank	Nitrite (N)	2012/06/02			mg/L	
	Method Blank	Nitrite (N)	2012/06/02	<0.0020		mg/L	
	RPD [DO2794-02]	Nitrite (N)	2012/06/02	NC (1)		%	25
5890966 PC4	Matrix Spike	Total Dissolved Solids	2012/06/04		NC	%	80 - 120
	Spiked Blank	Total Dissolved Solids	2012/06/04		92	%	80 - 120
	Method Blank	Total Dissolved Solids	2012/06/04	<10		mg/L	
	RPD	Total Dissolved Solids	2012/06/04	NC		%	20
5891231 AA1	Matrix Spike	Total Aluminum (Al)	2012/06/05		99	%	80 - 120
		Total Antimony (Sb)	2012/06/05		102	%	80 - 120
		Total Arsenic (As)	2012/06/05		100	%	80 - 120
		Total Barium (Ba)	2012/06/05		94	%	80 - 120
		Total Beryllium (Be)	2012/06/05		109	%	80 - 120
		Total Bismuth (Bi)	2012/06/05		101	%	80 - 120
		Total Cadmium (Cd)	2012/06/05		102	%	80 - 120
		Total Chromium (Cr)	2012/06/05		98	%	80 - 120
		Total Cobalt (Co)	2012/06/05		96	%	80 - 120
		Total Copper (Cu)	2012/06/05		99	%	80 - 120
		Total Iron (Fe)	2012/06/05		105	%	80 - 120
		Total Lead (Pb)	2012/06/05		97	%	80 - 120
		Total Lithium (Li)	2012/06/05		98	%	80 - 120
		Total Manganese (Mn)	2012/06/05		99	%	80 - 120
		Total Molybdenum (Mo)	2012/06/05		103	%	80 - 120
		Total Nickel (Ni)	2012/06/05		101	%	80 - 120
		Total Selenium (Se)	2012/06/05		110	%	80 - 120
		Total Silver (Ag)	2012/06/05		103	%	80 - 120
		Total Strontium (Sr)	2012/06/05		97	%	80 - 120
		Total Thallium (Tl)	2012/06/05		84	%	80 - 120

LABERGE ENVIRONMENTAL SERVICES
 Attention: Bonnie Burns
 Client Project #: FARO Surface water
 P.O. #: B12-090-DL
 Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: VB245483

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits	
5891231 AA1	Matrix Spike	Total Tin (Sn)	2012/06/05		104	%	80 - 120	
		Total Titanium (Ti)	2012/06/05		95	%	80 - 120	
		Total Uranium (U)	2012/06/05		100	%	80 - 120	
	Spiked Blank	Total Vanadium (V)	2012/06/05		96	%	80 - 120	
		Total Zinc (Zn)	2012/06/05		102	%	80 - 120	
		Total Aluminum (Al)	2012/06/05		98	%	80 - 120	
		Total Antimony (Sb)	2012/06/05		103	%	80 - 120	
		Total Arsenic (As)	2012/06/05		96	%	80 - 120	
		Total Barium (Ba)	2012/06/05		96	%	80 - 120	
		Total Beryllium (Be)	2012/06/05		102	%	80 - 120	
		Total Bismuth (Bi)	2012/06/05		99	%	80 - 120	
		Total Cadmium (Cd)	2012/06/05		98	%	80 - 120	
		Total Chromium (Cr)	2012/06/05		97	%	80 - 120	
		Total Cobalt (Co)	2012/06/05		98	%	80 - 120	
		Total Copper (Cu)	2012/06/05		100	%	80 - 120	
		Total Iron (Fe)	2012/06/05		104	%	80 - 120	
		Total Lead (Pb)	2012/06/05		97	%	80 - 120	
		Total Lithium (Li)	2012/06/05		97	%	80 - 120	
		Total Manganese (Mn)	2012/06/05		96	%	80 - 120	
		Total Molybdenum (Mo)	2012/06/05		100	%	80 - 120	
		Total Nickel (Ni)	2012/06/05		102	%	80 - 120	
		Total Selenium (Se)	2012/06/05		98	%	80 - 120	
		Total Silver (Ag)	2012/06/05		98	%	80 - 120	
		Total Strontium (Sr)	2012/06/05		98	%	80 - 120	
		Total Thallium (Tl)	2012/06/05		97	%	80 - 120	
		Total Tin (Sn)	2012/06/05		100	%	80 - 120	
		Total Titanium (Ti)	2012/06/05		97	%	80 - 120	
		Total Uranium (U)	2012/06/05		100	%	80 - 120	
		Total Vanadium (V)	2012/06/05		96	%	80 - 120	
		Total Zinc (Zn)	2012/06/05		102	%	80 - 120	
	Method Blank	Total Aluminum (Al)	2012/06/05	<0.20			ug/L	
		Total Antimony (Sb)	2012/06/05	<0.020			ug/L	
		Total Arsenic (As)	2012/06/05	<0.020			ug/L	
Total Barium (Ba)		2012/06/05	<0.020			ug/L		
Total Beryllium (Be)		2012/06/05	<0.010			ug/L		
Total Bismuth (Bi)		2012/06/05	<0.0050			ug/L		
Total Boron (B)		2012/06/05	<50			ug/L		
Total Cadmium (Cd)		2012/06/05	<0.0050			ug/L		
Total Chromium (Cr)		2012/06/05	<0.10			ug/L		
Total Cobalt (Co)		2012/06/05	<0.0050			ug/L		
Total Copper (Cu)		2012/06/05	<0.050			ug/L		
Total Iron (Fe)		2012/06/05	<1.0			ug/L		
Total Lead (Pb)		2012/06/05	<0.0050			ug/L		
Total Lithium (Li)		2012/06/05	<0.50			ug/L		
Total Manganese (Mn)		2012/06/05	<0.050			ug/L		
Total Molybdenum (Mo)		2012/06/05	<0.050			ug/L		
Total Nickel (Ni)		2012/06/05	<0.020			ug/L		
Total Selenium (Se)		2012/06/05	<0.040			ug/L		
Total Silicon (Si)		2012/06/05	<100			ug/L		
Total Silver (Ag)		2012/06/05	<0.0050			ug/L		
Total Strontium (Sr)		2012/06/05	<0.050			ug/L		
Total Thallium (Tl)	2012/06/05	<0.0020			ug/L			
Total Tin (Sn)	2012/06/05	<0.20			ug/L			
Total Titanium (Ti)	2012/06/05	<0.50			ug/L			
Total Uranium (U)	2012/06/05	<0.0020			ug/L			

LABERGE ENVIRONMENTAL SERVICES
 Attention: Bonnie Burns
 Client Project #: FARO Surface water
 P.O. #: B12-090-DL
 Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: VB245483

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
5891231 AA1	Method Blank	Total Vanadium (V)	2012/06/05	<0.20		ug/L	
		Total Zinc (Zn)	2012/06/05	<0.10		ug/L	
		Total Zirconium (Zr)	2012/06/05	<0.10		ug/L	
	RPD	Total Aluminum (Al)	2012/06/05	NC		%	20
		Total Antimony (Sb)	2012/06/05	NC		%	20
		Total Arsenic (As)	2012/06/05	NC		%	20
		Total Barium (Ba)	2012/06/05	NC		%	20
		Total Beryllium (Be)	2012/06/05	NC		%	20
		Total Bismuth (Bi)	2012/06/05	NC		%	20
		Total Boron (B)	2012/06/05	NC		%	20
		Total Cadmium (Cd)	2012/06/05	NC		%	20
		Total Chromium (Cr)	2012/06/05	NC		%	20
		Total Cobalt (Co)	2012/06/05	NC		%	20
		Total Copper (Cu)	2012/06/05	NC		%	20
		Total Iron (Fe)	2012/06/05	NC		%	20
		Total Lead (Pb)	2012/06/05	NC		%	20
		Total Lithium (Li)	2012/06/05	NC		%	20
		Total Manganese (Mn)	2012/06/05	NC		%	20
		Total Molybdenum (Mo)	2012/06/05	NC		%	20
		Total Nickel (Ni)	2012/06/05	NC		%	20
		Total Selenium (Se)	2012/06/05	NC		%	20
		Total Silicon (Si)	2012/06/05	NC		%	20
		Total Silver (Ag)	2012/06/05	NC		%	20
		Total Strontium (Sr)	2012/06/05	NC		%	20
		Total Thallium (Tl)	2012/06/05	NC		%	20
		Total Tin (Sn)	2012/06/05	NC		%	20
		Total Titanium (Ti)	2012/06/05	NC		%	20
		Total Uranium (U)	2012/06/05	NC		%	20
		Total Vanadium (V)	2012/06/05	NC		%	20
		Total Zinc (Zn)	2012/06/05	NC		%	20
		Total Zirconium (Zr)	2012/06/05	NC		%	20
5892110 AA1	Matrix Spike	Dissolved Aluminum (Al)	2012/06/05		92	%	80 - 120
		Dissolved Antimony (Sb)	2012/06/05		95	%	80 - 120
		Dissolved Arsenic (As)	2012/06/05		NC	%	80 - 120
		Dissolved Barium (Ba)	2012/06/05		NC	%	80 - 120
		Dissolved Beryllium (Be)	2012/06/05		92	%	80 - 120
		Dissolved Bismuth (Bi)	2012/06/05		97	%	80 - 120
		Dissolved Cadmium (Cd)	2012/06/05		98	%	80 - 120
		Dissolved Chromium (Cr)	2012/06/05		95	%	80 - 120
		Dissolved Cobalt (Co)	2012/06/05		96	%	80 - 120
		Dissolved Copper (Cu)	2012/06/05		95	%	80 - 120
		Dissolved Iron (Fe)	2012/06/05		108	%	80 - 120
		Dissolved Lead (Pb)	2012/06/05		96	%	80 - 120
		Dissolved Lithium (Li)	2012/06/05		91	%	80 - 120
		Dissolved Manganese (Mn)	2012/06/05		NC	%	80 - 120
		Dissolved Molybdenum (Mo)	2012/06/05		93	%	80 - 120
		Dissolved Nickel (Ni)	2012/06/05		101	%	80 - 120
		Dissolved Selenium (Se)	2012/06/05		104	%	80 - 120
		Dissolved Silver (Ag)	2012/06/05		97	%	80 - 120
		Dissolved Strontium (Sr)	2012/06/05		NC	%	80 - 120
		Dissolved Thallium (Tl)	2012/06/05		99	%	80 - 120
		Dissolved Tin (Sn)	2012/06/05		NC	%	80 - 120
		Dissolved Titanium (Ti)	2012/06/05		105	%	80 - 120
		Dissolved Uranium (U)	2012/06/05		93	%	80 - 120
		Dissolved Vanadium (V)	2012/06/05		96	%	80 - 120

LABERGE ENVIRONMENTAL SERVICES
 Attention: Bonnie Burns
 Client Project #: FARO Surface water
 P.O. #: B12-090-DL
 Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: VB245483

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits	
5892110 AA1	Matrix Spike	Dissolved Zinc (Zn)	2012/06/05		103	%	80 - 120	
	Spiked Blank	Dissolved Aluminum (Al)	2012/06/05		95	%	80 - 120	
		Dissolved Antimony (Sb)	2012/06/05		94	%	80 - 120	
		Dissolved Arsenic (As)	2012/06/05		89	%	80 - 120	
		Dissolved Barium (Ba)	2012/06/05		96	%	80 - 120	
		Dissolved Beryllium (Be)	2012/06/05		91	%	80 - 120	
		Dissolved Bismuth (Bi)	2012/06/05		93	%	80 - 120	
		Dissolved Cadmium (Cd)	2012/06/05		93	%	80 - 120	
		Dissolved Chromium (Cr)	2012/06/05		89	%	80 - 120	
		Dissolved Cobalt (Co)	2012/06/05		91	%	80 - 120	
		Dissolved Copper (Cu)	2012/06/05		89	%	80 - 120	
		Dissolved Iron (Fe)	2012/06/05		107	%	80 - 120	
		Dissolved Lead (Pb)	2012/06/05		94	%	80 - 120	
		Dissolved Lithium (Li)	2012/06/05		93	%	80 - 120	
		Dissolved Manganese (Mn)	2012/06/05		92	%	80 - 120	
		Dissolved Molybdenum (Mo)	2012/06/05		92	%	80 - 120	
		Dissolved Nickel (Ni)	2012/06/05		92	%	80 - 120	
		Dissolved Selenium (Se)	2012/06/05		112	%	80 - 120	
		Dissolved Silver (Ag)	2012/06/05		96	%	80 - 120	
		Dissolved Strontium (Sr)	2012/06/05		96	%	80 - 120	
		Dissolved Thallium (Tl)	2012/06/05		100	%	80 - 120	
		Dissolved Tin (Sn)	2012/06/05		93	%	80 - 120	
		Dissolved Titanium (Ti)	2012/06/05		81	%	80 - 120	
		Dissolved Uranium (U)	2012/06/05		90	%	80 - 120	
		Dissolved Vanadium (V)	2012/06/05		87	%	80 - 120	
		Dissolved Zinc (Zn)	2012/06/05		96	%	80 - 120	
		Method Blank	Dissolved Aluminum (Al)	2012/06/05	<0.20		ug/L	
			Dissolved Antimony (Sb)	2012/06/05	<0.020		ug/L	
			Dissolved Arsenic (As)	2012/06/05	<0.020		ug/L	
			Dissolved Barium (Ba)	2012/06/05	<0.020		ug/L	
			Dissolved Beryllium (Be)	2012/06/05	<0.010		ug/L	
			Dissolved Bismuth (Bi)	2012/06/05	<0.0050		ug/L	
			Dissolved Boron (B)	2012/06/05	<50		ug/L	
	Dissolved Cadmium (Cd)		2012/06/05	<0.0050		ug/L		
	Dissolved Chromium (Cr)		2012/06/05	<0.10		ug/L		
	Dissolved Cobalt (Co)		2012/06/05	<0.0050		ug/L		
	Dissolved Copper (Cu)		2012/06/05	<0.050		ug/L		
	Dissolved Iron (Fe)		2012/06/05	<1.0		ug/L		
	Dissolved Lead (Pb)		2012/06/05	<0.0050		ug/L		
	Dissolved Lithium (Li)		2012/06/05	<0.50		ug/L		
	Dissolved Manganese (Mn)		2012/06/05	<0.050		ug/L		
	Dissolved Molybdenum (Mo)		2012/06/05	<0.050		ug/L		
	Dissolved Nickel (Ni)		2012/06/05	<0.020		ug/L		
	Dissolved Selenium (Se)		2012/06/05	<0.040		ug/L		
	Dissolved Silicon (Si)		2012/06/05	<100		ug/L		
	Dissolved Silver (Ag)		2012/06/05	<0.0050		ug/L		
	Dissolved Strontium (Sr)		2012/06/05	<0.050		ug/L		
	Dissolved Thallium (Tl)		2012/06/05	<0.0020		ug/L		
	Dissolved Tin (Sn)		2012/06/05	<0.20		ug/L		
	Dissolved Titanium (Ti)		2012/06/05	<0.50		ug/L		
	Dissolved Uranium (U)		2012/06/05	<0.0020		ug/L		
	Dissolved Vanadium (V)		2012/06/05	<0.20		ug/L		
	Dissolved Zinc (Zn)		2012/06/05	<0.10		ug/L		
	Dissolved Zirconium (Zr)	2012/06/05	<0.10		ug/L			
	RPD	Dissolved Aluminum (Al)	2012/06/05	12.4		%	20	

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
5892110 AA1	RPD	Dissolved Antimony (Sb)	2012/06/05	NC		%	20
		Dissolved Arsenic (As)	2012/06/05	1.8		%	20
		Dissolved Barium (Ba)	2012/06/05	3.4		%	20
		Dissolved Beryllium (Be)	2012/06/05	NC		%	20
		Dissolved Bismuth (Bi)	2012/06/05	NC		%	20
		Dissolved Boron (B)	2012/06/05	NC		%	20
		Dissolved Cadmium (Cd)	2012/06/05	NC		%	20
		Dissolved Chromium (Cr)	2012/06/05	NC		%	20
		Dissolved Cobalt (Co)	2012/06/05	1.6		%	20
		Dissolved Copper (Cu)	2012/06/05	12.2		%	20
		Dissolved Iron (Fe)	2012/06/05	NC		%	20
		Dissolved Lead (Pb)	2012/06/05	NC		%	20
		Dissolved Lithium (Li)	2012/06/05	NC		%	20
		Dissolved Manganese (Mn)	2012/06/05	1.1		%	20
		Dissolved Molybdenum (Mo)	2012/06/05	NC		%	20
		Dissolved Nickel (Ni)	2012/06/05	2.6		%	20
		Dissolved Selenium (Se)	2012/06/05	NC		%	20
		Dissolved Silicon (Si)	2012/06/05	1.5		%	20
		Dissolved Silver (Ag)	2012/06/05	NC		%	20
		Dissolved Strontium (Sr)	2012/06/05	1.1		%	20
		Dissolved Thallium (Tl)	2012/06/05	5.1		%	20
		Dissolved Tin (Sn)	2012/06/05	0.6		%	20
		Dissolved Titanium (Ti)	2012/06/05	NC		%	20
		Dissolved Uranium (U)	2012/06/05	NC		%	20
		Dissolved Vanadium (V)	2012/06/05	NC		%	20
		Dissolved Zinc (Zn)	2012/06/05	13.9		%	20
		Dissolved Zirconium (Zr)	2012/06/05	NC		%	20
5893132 BB3	Matrix Spike	Ammonia (N)	2012/06/04		NC	%	80 - 120
	Spiked Blank	Ammonia (N)	2012/06/04		100	%	80 - 120
	Method Blank	Ammonia (N)	2012/06/04	<0.0050		mg/L	
	RPD [DO2766-05]	Ammonia (N)	2012/06/04	NC		%	20
5893147 AD5	Spiked Blank	Dissolved Chloride (Cl)	2012/06/04		102	%	80 - 120
	Method Blank	Dissolved Chloride (Cl)	2012/06/04	<0.50		mg/L	
	RPD [DO2764-02]	Dissolved Chloride (Cl)	2012/06/04	NC		%	20
	RPD [DO2792-02]	Dissolved Chloride (Cl)	2012/06/04	NC		%	20
5893151 AD5	Matrix Spike	Dissolved Sulphate (SO4)	2012/06/04		98	%	80 - 120
	Spiked Blank	Dissolved Sulphate (SO4)	2012/06/04		100	%	80 - 120
	Method Blank	Dissolved Sulphate (SO4)	2012/06/04	<0.50		mg/L	
	RPD [DO2764-02]	Dissolved Sulphate (SO4)	2012/06/04	NC		%	20
	RPD [DO2792-02]	Dissolved Sulphate (SO4)	2012/06/04	0.1		%	20
5893491 AA1	Matrix Spike [DO2793-04]	Dissolved Aluminum (Al)	2012/06/07		97	%	80 - 120
		Dissolved Antimony (Sb)	2012/06/07		109	%	80 - 120
		Dissolved Arsenic (As)	2012/06/07		101	%	80 - 120
		Dissolved Barium (Ba)	2012/06/07		NC	%	80 - 120
		Dissolved Beryllium (Be)	2012/06/07		104	%	80 - 120
		Dissolved Bismuth (Bi)	2012/06/07		103	%	80 - 120
		Dissolved Cadmium (Cd)	2012/06/07		104	%	80 - 120
		Dissolved Chromium (Cr)	2012/06/07		102	%	80 - 120
		Dissolved Cobalt (Co)	2012/06/07		95	%	80 - 120
		Dissolved Copper (Cu)	2012/06/07		94	%	80 - 120
		Dissolved Iron (Fe)	2012/06/07		NC	%	80 - 120
		Dissolved Lead (Pb)	2012/06/07		101	%	80 - 120
		Dissolved Lithium (Li)	2012/06/07		101	%	80 - 120
		Dissolved Manganese (Mn)	2012/06/07		NC	%	80 - 120

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5893491 AA1	Matrix Spike [DO2793-04]	Dissolved Molybdenum (Mo)	2012/06/07		NC	%	80 - 120
		Dissolved Nickel (Ni)	2012/06/07		96	%	80 - 120
		Dissolved Selenium (Se)	2012/06/07		105	%	80 - 120
		Dissolved Silver (Ag)	2012/06/07		103	%	80 - 120
		Dissolved Strontium (Sr)	2012/06/07		NC	%	80 - 120
		Dissolved Thallium (Tl)	2012/06/07		116	%	80 - 120
		Dissolved Tin (Sn)	2012/06/07		113	%	80 - 120
		Dissolved Titanium (Ti)	2012/06/07		112	%	80 - 120
		Dissolved Uranium (U)	2012/06/07		106	%	80 - 120
		Dissolved Vanadium (V)	2012/06/07		98	%	80 - 120
	Spiked Blank	Dissolved Zinc (Zn)	2012/06/07		105	%	80 - 120
		Dissolved Aluminum (Al)	2012/06/06		100	%	80 - 120
		Dissolved Antimony (Sb)	2012/06/06		106	%	80 - 120
		Dissolved Arsenic (As)	2012/06/06		101	%	80 - 120
		Dissolved Barium (Ba)	2012/06/06		101	%	80 - 120
		Dissolved Beryllium (Be)	2012/06/06		97	%	80 - 120
		Dissolved Bismuth (Bi)	2012/06/06		107	%	80 - 120
		Dissolved Cadmium (Cd)	2012/06/06		98	%	80 - 120
		Dissolved Chromium (Cr)	2012/06/06		105	%	80 - 120
		Dissolved Cobalt (Co)	2012/06/06		100	%	80 - 120
		Dissolved Copper (Cu)	2012/06/06		96	%	80 - 120
		Dissolved Iron (Fe)	2012/06/06		100	%	80 - 120
		Dissolved Lead (Pb)	2012/06/06		106	%	80 - 120
		Dissolved Lithium (Li)	2012/06/06		101	%	80 - 120
		Dissolved Manganese (Mn)	2012/06/06		99	%	80 - 120
		Dissolved Molybdenum (Mo)	2012/06/06		95	%	80 - 120
		Dissolved Nickel (Ni)	2012/06/06		102	%	80 - 120
		Dissolved Selenium (Se)	2012/06/06		95	%	80 - 120
		Dissolved Silver (Ag)	2012/06/06		109	%	80 - 120
		Dissolved Strontium (Sr)	2012/06/06		106	%	80 - 120
		Dissolved Thallium (Tl)	2012/06/06		116	%	80 - 120
		Dissolved Tin (Sn)	2012/06/06		108	%	80 - 120
		Dissolved Titanium (Ti)	2012/06/06		105	%	80 - 120
		Dissolved Uranium (U)	2012/06/06		105	%	80 - 120
		Dissolved Vanadium (V)	2012/06/06		101	%	80 - 120
Dissolved Zinc (Zn)	2012/06/06		102	%	80 - 120		
Method Blank	Dissolved Aluminum (Al)	2012/06/06	<0.20			ug/L	
	Dissolved Antimony (Sb)	2012/06/06	<0.020			ug/L	
	Dissolved Arsenic (As)	2012/06/06	<0.020			ug/L	
	Dissolved Barium (Ba)	2012/06/06	<0.020			ug/L	
	Dissolved Beryllium (Be)	2012/06/06	<0.010			ug/L	
	Dissolved Bismuth (Bi)	2012/06/06	<0.0050			ug/L	
	Dissolved Boron (B)	2012/06/06	<50			ug/L	
	Dissolved Cadmium (Cd)	2012/06/06	<0.0050			ug/L	
	Dissolved Chromium (Cr)	2012/06/06	<0.10			ug/L	
	Dissolved Cobalt (Co)	2012/06/06	<0.0050			ug/L	
	Dissolved Copper (Cu)	2012/06/06	<0.050			ug/L	
	Dissolved Iron (Fe)	2012/06/06	<1.0			ug/L	
	Dissolved Lead (Pb)	2012/06/06	<0.0050			ug/L	
	Dissolved Lithium (Li)	2012/06/06	<0.50			ug/L	
	Dissolved Manganese (Mn)	2012/06/06	<0.050			ug/L	
Dissolved Molybdenum (Mo)	2012/06/06	<0.050			ug/L		
Dissolved Nickel (Ni)	2012/06/06	<0.020			ug/L		
Dissolved Selenium (Se)	2012/06/06	<0.040			ug/L		

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5893491 AA1	Method Blank	Dissolved Silicon (Si)	2012/06/06	<100		ug/L	
		Dissolved Silver (Ag)	2012/06/06	<0.0050		ug/L	
		Dissolved Strontium (Sr)	2012/06/06	<0.050		ug/L	
		Dissolved Thallium (Tl)	2012/06/06	<0.0020		ug/L	
		Dissolved Tin (Sn)	2012/06/06	<0.20		ug/L	
		Dissolved Titanium (Ti)	2012/06/06	<0.50		ug/L	
		Dissolved Uranium (U)	2012/06/06	<0.0020		ug/L	
		Dissolved Vanadium (V)	2012/06/06	<0.20		ug/L	
		Dissolved Zinc (Zn)	2012/06/06	<0.10		ug/L	
	RPD [DO2793-04]	Dissolved Zirconium (Zr)	2012/06/06	<0.10		ug/L	
		Dissolved Aluminum (Al)	2012/06/07	2.1		%	20
		Dissolved Antimony (Sb)	2012/06/07	NC		%	20
		Dissolved Arsenic (As)	2012/06/07	16.7		%	20
		Dissolved Barium (Ba)	2012/06/07	1.9		%	20
		Dissolved Beryllium (Be)	2012/06/07	NC		%	20
		Dissolved Bismuth (Bi)	2012/06/07	NC		%	20
		Dissolved Boron (B)	2012/06/07	NC		%	20
		Dissolved Cadmium (Cd)	2012/06/07	25.2 (2)		%	20
		Dissolved Chromium (Cr)	2012/06/07	NC		%	20
		Dissolved Cobalt (Co)	2012/06/07	8.5		%	20
		Dissolved Copper (Cu)	2012/06/07	2.4		%	20
		Dissolved Iron (Fe)	2012/06/07	1.6		%	20
		Dissolved Lead (Pb)	2012/06/07	2.0		%	20
		Dissolved Lithium (Li)	2012/06/07	NC		%	20
		Dissolved Manganese (Mn)	2012/06/07	1.6		%	20
		Dissolved Molybdenum (Mo)	2012/06/07	3.1		%	20
		Dissolved Nickel (Ni)	2012/06/07	0.7		%	20
		Dissolved Selenium (Se)	2012/06/07	12.0		%	20
		Dissolved Silicon (Si)	2012/06/07	3.4		%	20
		Dissolved Silver (Ag)	2012/06/07	NC		%	20
		Dissolved Strontium (Sr)	2012/06/07	0.9		%	20
		Dissolved Thallium (Tl)	2012/06/07	NC		%	20
		Dissolved Tin (Sn)	2012/06/07	NC		%	20
		Dissolved Titanium (Ti)	2012/06/07	NC		%	20
		Dissolved Uranium (U)	2012/06/07	0.9		%	20
		Dissolved Vanadium (V)	2012/06/07	NC		%	20
		Dissolved Zirconium (Zr)	2012/06/07	NC		%	20
5894043 AA1	Matrix Spike [DO2769-03]	Total Aluminum (Al)	2012/06/06		99	%	80 - 120
		Total Antimony (Sb)	2012/06/06		102	%	80 - 120
		Total Arsenic (As)	2012/06/06		100	%	80 - 120
		Total Barium (Ba)	2012/06/06		95	%	80 - 120
		Total Beryllium (Be)	2012/06/06		98	%	80 - 120
		Total Bismuth (Bi)	2012/06/06		104	%	80 - 120
		Total Cadmium (Cd)	2012/06/06		102	%	80 - 120
		Total Chromium (Cr)	2012/06/06		100	%	80 - 120
		Total Cobalt (Co)	2012/06/06		98	%	80 - 120
		Total Copper (Cu)	2012/06/06		98	%	80 - 120
		Total Iron (Fe)	2012/06/06		107	%	80 - 120
		Total Lead (Pb)	2012/06/06		100	%	80 - 120
		Total Lithium (Li)	2012/06/06		101	%	80 - 120
		Total Manganese (Mn)	2012/06/06		102	%	80 - 120
		Total Molybdenum (Mo)	2012/06/06		92	%	80 - 120
		Total Nickel (Ni)	2012/06/06		99	%	80 - 120
		Total Selenium (Se)	2012/06/06		106	%	80 - 120

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5894043 AA1	Matrix Spike [DO2769-03]	Total Silver (Ag)	2012/06/06		102	%	80 - 120	
		Total Strontium (Sr)	2012/06/06		100	%	80 - 120	
		Total Thallium (Tl)	2012/06/06		106	%	80 - 120	
		Total Tin (Sn)	2012/06/06		103	%	80 - 120	
		Total Titanium (Ti)	2012/06/06		96	%	80 - 120	
		Total Uranium (U)	2012/06/06		98	%	80 - 120	
	Spiked Blank		Total Vanadium (V)	2012/06/06		103	%	80 - 120
			Total Zinc (Zn)	2012/06/06		105	%	80 - 120
			Total Aluminum (Al)	2012/06/06		100	%	80 - 120
			Total Antimony (Sb)	2012/06/06		106	%	80 - 120
			Total Arsenic (As)	2012/06/06		98	%	80 - 120
			Total Barium (Ba)	2012/06/06		98	%	80 - 120
			Total Beryllium (Be)	2012/06/06		96	%	80 - 120
			Total Bismuth (Bi)	2012/06/06		102	%	80 - 120
			Total Cadmium (Cd)	2012/06/06		101	%	80 - 120
			Total Chromium (Cr)	2012/06/06		101	%	80 - 120
			Total Cobalt (Co)	2012/06/06		100	%	80 - 120
			Total Copper (Cu)	2012/06/06		99	%	80 - 120
			Total Iron (Fe)	2012/06/06		110	%	80 - 120
			Total Lead (Pb)	2012/06/06		103	%	80 - 120
			Total Lithium (Li)	2012/06/06		101	%	80 - 120
			Total Manganese (Mn)	2012/06/06		104	%	80 - 120
			Total Molybdenum (Mo)	2012/06/06		95	%	80 - 120
			Total Nickel (Ni)	2012/06/06		101	%	80 - 120
			Total Selenium (Se)	2012/06/06		101	%	80 - 120
			Total Silver (Ag)	2012/06/06		104	%	80 - 120
			Total Strontium (Sr)	2012/06/06		101	%	80 - 120
			Total Thallium (Tl)	2012/06/06		111	%	80 - 120
			Total Tin (Sn)	2012/06/06		103	%	80 - 120
			Total Titanium (Ti)	2012/06/06		105	%	80 - 120
			Total Uranium (U)	2012/06/06		101	%	80 - 120
			Total Vanadium (V)	2012/06/06		98	%	80 - 120
			Total Zinc (Zn)	2012/06/06		98	%	80 - 120
Method Blank		Total Aluminum (Al)	2012/06/06	<0.20		ug/L		
		Total Antimony (Sb)	2012/06/06	<0.020		ug/L		
		Total Arsenic (As)	2012/06/06	<0.020		ug/L		
		Total Barium (Ba)	2012/06/06	<0.020		ug/L		
		Total Beryllium (Be)	2012/06/06	<0.010		ug/L		
		Total Bismuth (Bi)	2012/06/06	<0.0050		ug/L		
		Total Boron (B)	2012/06/06	<50		ug/L		
		Total Cadmium (Cd)	2012/06/06	<0.0050		ug/L		
		Total Chromium (Cr)	2012/06/06	<0.10		ug/L		
		Total Cobalt (Co)	2012/06/06	<0.0050		ug/L		
		Total Copper (Cu)	2012/06/06	<0.050		ug/L		
		Total Iron (Fe)	2012/06/06	<1.0		ug/L		
		Total Lead (Pb)	2012/06/06	<0.0050		ug/L		
		Total Lithium (Li)	2012/06/06	<0.50		ug/L		
		Total Manganese (Mn)	2012/06/06	<0.050		ug/L		
		Total Molybdenum (Mo)	2012/06/06	<0.050		ug/L		
		Total Nickel (Ni)	2012/06/06	<0.020		ug/L		
		Total Selenium (Se)	2012/06/06	<0.040		ug/L		
		Total Silicon (Si)	2012/06/06	<100		ug/L		
		Total Silver (Ag)	2012/06/06	<0.0050		ug/L		
		Total Strontium (Sr)	2012/06/06	<0.050		ug/L		

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5894043 AA1	Method Blank	Total Thallium (Tl)	2012/06/06	<0.0020		ug/L		
		Total Tin (Sn)	2012/06/06	<0.20		ug/L		
		Total Titanium (Ti)	2012/06/06	<0.50		ug/L		
		Total Uranium (U)	2012/06/06	<0.0020		ug/L		
		Total Vanadium (V)	2012/06/06	<0.20		ug/L		
		Total Zinc (Zn)	2012/06/06	0.17, RDL=0.10		ug/L		
		Total Zirconium (Zr)	2012/06/06	<0.10		ug/L		
		RPD [DO2769-03]	Total Aluminum (Al)	2012/06/06	NC		%	20
			Total Antimony (Sb)	2012/06/06	NC		%	20
			Total Arsenic (As)	2012/06/06	NC		%	20
			Total Barium (Ba)	2012/06/06	NC		%	20
			Total Beryllium (Be)	2012/06/06	NC		%	20
			Total Bismuth (Bi)	2012/06/06	NC		%	20
			Total Boron (B)	2012/06/06	NC		%	20
			Total Cadmium (Cd)	2012/06/06	NC		%	20
			Total Chromium (Cr)	2012/06/06	NC		%	20
			Total Cobalt (Co)	2012/06/06	NC		%	20
			Total Copper (Cu)	2012/06/06	NC		%	20
			Total Iron (Fe)	2012/06/06	NC		%	20
			Total Lead (Pb)	2012/06/06	NC		%	20
			Total Lithium (Li)	2012/06/06	NC		%	20
			Total Manganese (Mn)	2012/06/06	NC		%	20
			Total Molybdenum (Mo)	2012/06/06	NC		%	20
			Total Nickel (Ni)	2012/06/06	NC		%	20
			Total Selenium (Se)	2012/06/06	NC		%	20
			Total Silicon (Si)	2012/06/06	NC		%	20
			Total Silver (Ag)	2012/06/06	NC		%	20
			Total Strontium (Sr)	2012/06/06	NC		%	20
			Total Thallium (Tl)	2012/06/06	NC		%	20
			Total Tin (Sn)	2012/06/06	NC		%	20
			Total Titanium (Ti)	2012/06/06	NC		%	20
			Total Uranium (U)	2012/06/06	NC		%	20
			Total Vanadium (V)	2012/06/06	NC		%	20
Total Zinc (Zn)	2012/06/06		NC		%	20		
Total Zirconium (Zr)	2012/06/06	NC		%	20			
5896013 DC6	Matrix Spike	Nitrate plus Nitrite (N)	2012/06/05		98	%	80 - 120	
	Spiked Blank	Nitrate plus Nitrite (N)	2012/06/05		104	%	80 - 120	
	Method Blank	Nitrate plus Nitrite (N)	2012/06/05	<0.0020		mg/L		
5896015 DC6	Matrix Spike	Nitrite (N)	2012/06/05		95	%	80 - 120	
	Spiked Blank	Nitrite (N)	2012/06/05		101	%	80 - 120	
	Method Blank	Nitrite (N)	2012/06/05	<0.0020		mg/L		
5897155 AD5	Matrix Spike	Dissolved Sulphate (SO4)	2012/06/05		NC	%	80 - 120	
	Spiked Blank	Dissolved Sulphate (SO4)	2012/06/05		98	%	80 - 120	
	Method Blank	Dissolved Sulphate (SO4)	2012/06/05	<0.50		mg/L		
	RPD	Dissolved Sulphate (SO4)	2012/06/05	0.1		%	20	
5897479 BB3	Matrix Spike	Ammonia (N)	2012/06/05		99	%	80 - 120	
	Spiked Blank	Ammonia (N)	2012/06/05		100	%	80 - 120	
	Method Blank	Ammonia (N)	2012/06/05	<0.0050		mg/L		
	RPD	Ammonia (N)	2012/06/05	2.5 (3)		%	20	
5900196 IC4	Matrix Spike	Dissolved Organic Carbon (C)	2012/06/06		NC	%	80 - 120	
	Spiked Blank	Dissolved Organic Carbon (C)	2012/06/06		111	%	80 - 120	
	Method Blank	Dissolved Organic Carbon (C)	2012/06/06	<0.50		mg/L		
	RPD [DO2789-06]	Dissolved Organic Carbon (C)	2012/06/06	0.8		%	20	
5900211 IC4	Matrix Spike	Total Organic Carbon (C)	2012/06/06		117	%	80 - 120	
	Spiked Blank	Total Organic Carbon (C)	2012/06/06		111	%	80 - 120	

LABERGE ENVIRONMENTAL SERVICES
 Attention: Bonnie Burns
 Client Project #: FARO Surface water
 P.O. #: B12-090-DL
 Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: VB245483

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
5900211 IC4	Method Blank	Total Organic Carbon (C)	2012/06/06	<0.50		mg/L	
	RPD	Total Organic Carbon (C)	2012/06/06	3.2		%	20
5900548 AA1	Matrix Spike [DO2763-04]	Dissolved Barium (Ba)	2012/06/07		NC	%	80 - 120
		Dissolved Copper (Cu)	2012/06/07		99	%	80 - 120
		Dissolved Lead (Pb)	2012/06/07		99	%	80 - 120
		Dissolved Molybdenum (Mo)	2012/06/07		100	%	80 - 120
		Dissolved Zinc (Zn)	2012/06/07		103	%	80 - 120
	Spiked Blank	Dissolved Barium (Ba)	2012/06/07		99	%	80 - 120
		Dissolved Copper (Cu)	2012/06/07		101	%	80 - 120
		Dissolved Lead (Pb)	2012/06/07		101	%	80 - 120
		Dissolved Molybdenum (Mo)	2012/06/07		95	%	80 - 120
		Dissolved Zinc (Zn)	2012/06/07		102	%	80 - 120
	Method Blank	Dissolved Barium (Ba)	2012/06/07	<0.020		ug/L	
		Dissolved Copper (Cu)	2012/06/07	<0.050		ug/L	
		Dissolved Lead (Pb)	2012/06/07	<0.0050		ug/L	
		Dissolved Molybdenum (Mo)	2012/06/07	<0.050		ug/L	
		Dissolved Zinc (Zn)	2012/06/07	<0.10		ug/L	
	RPD [DO2763-04]	Dissolved Lead (Pb)	2012/06/07	10.5		%	20
		Dissolved Zinc (Zn)	2012/06/07	5.3		%	20
5902155 IC4	Matrix Spike	Dissolved Organic Carbon (C)	2012/06/07		NC	%	80 - 120
	Spiked Blank	Dissolved Organic Carbon (C)	2012/06/07		110	%	84 - 120
	Method Blank	Dissolved Organic Carbon (C)	2012/06/07	<0.50		mg/L	
	RPD	Dissolved Organic Carbon (C)	2012/06/07	3.2		%	20
5902221 IC4	Matrix Spike	Total Organic Carbon (C)	2012/06/07		109	%	80 - 120
	Spiked Blank	Total Organic Carbon (C)	2012/06/07		107	%	80 - 120
	Method Blank	Total Organic Carbon (C)	2012/06/07	<0.50		mg/L	
	RPD	Total Organic Carbon (C)	2012/06/07	NC		%	20
5903530 IC4	Matrix Spike	Dissolved Organic Carbon (C)	2012/06/07		NC	%	80 - 120
	Spiked Blank	Dissolved Organic Carbon (C)	2012/06/07		119	%	80 - 120
	Method Blank	Dissolved Organic Carbon (C)	2012/06/07	<0.50		mg/L	
	RPD	Dissolved Organic Carbon (C)	2012/06/07	11.0		%	20
5903563 IC4	Matrix Spike	Total Organic Carbon (C)	2012/06/07		NC	%	80 - 120
	Spiked Blank	Total Organic Carbon (C)	2012/06/07		108	%	80 - 120
	Method Blank	Total Organic Carbon (C)	2012/06/07	<0.50		mg/L	
	RPD	Total Organic Carbon (C)	2012/06/07	NC		%	20
5903722 AA1	Spiked Blank	Dissolved Copper (Cu)	2012/06/08		98	%	80 - 120
		Dissolved Lead (Pb)	2012/06/08		97	%	80 - 120
		Dissolved Molybdenum (Mo)	2012/06/08		97	%	80 - 120
		Dissolved Selenium (Se)	2012/06/08		100	%	80 - 120
		Dissolved Tin (Sn)	2012/06/08		96	%	80 - 120
		Dissolved Zinc (Zn)	2012/06/08		97	%	80 - 120
	Method Blank	Dissolved Copper (Cu)	2012/06/08	<0.050		ug/L	
		Dissolved Lead (Pb)	2012/06/08	<0.0050		ug/L	
		Dissolved Molybdenum (Mo)	2012/06/08	<0.050		ug/L	
		Dissolved Selenium (Se)	2012/06/08	<0.040		ug/L	
		Dissolved Silicon (Si)	2012/06/08	<100		ug/L	
		Dissolved Tin (Sn)	2012/06/08	<0.20		ug/L	
		Dissolved Zinc (Zn)	2012/06/08	<0.10		ug/L	
5905453 IC4	Matrix Spike [DO2794-06]	Dissolved Organic Carbon (C)	2012/06/08		NC	%	80 - 120
	Spiked Blank	Dissolved Organic Carbon (C)	2012/06/08		106	%	80 - 120
	Method Blank	Dissolved Organic Carbon (C)	2012/06/08	<0.50		mg/L	
	RPD [DO2796-06]	Dissolved Organic Carbon (C)	2012/06/08	12.7		%	20
5905503 IC4	Matrix Spike [DO2793-05]	Total Organic Carbon (C)	2012/06/08		NC	%	80 - 120

LABERGE ENVIRONMENTAL SERVICES
 Attention: Bonnie Burns
 Client Project #: FARO Surface water
 P.O. #: B12-090-DL
 Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: VB245483

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
5905503 IC4	Spiked Blank	Total Organic Carbon (C)	2012/06/08		105	%	80 - 120
	Method Blank	Total Organic Carbon (C)	2012/06/08	0.51, RDL=0.50		mg/L	
	RPD [DO2794-05]	Total Organic Carbon (C)	2012/06/08	1.4		%	20
5906145 IC4	Matrix Spike	Dissolved Organic Carbon (C)			TBA	%	80 - 120
	Spiked Blank	Dissolved Organic Carbon (C)	2012/06/08		99	%	80 - 120
	Method Blank	Dissolved Organic Carbon (C)	2012/06/08	<0.50		mg/L	
	RPD [DO2809-06]	Dissolved Organic Carbon (C)	2012/06/08	4.0		%	20
5906228 IC4	Matrix Spike	Total Organic Carbon (C)			TBA	%	80 - 120
	Spiked Blank	Total Organic Carbon (C)	2012/06/08		99	%	80 - 120
	Method Blank	Total Organic Carbon (C)	2012/06/08	<0.50		mg/L	
	RPD [DO2769-05]	Total Organic Carbon (C)	2012/06/08	NC		%	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

(1) Sample analysed past recommended hold time.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(3) Matrix spike exceeds acceptance limits due to matrix interference. Re-analysis yields similar results.

Validation Signature Page

Maxxam Job #: B245483



The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



ROB REINERT, Data Validation Coordinator

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #3673 LABERGE ENVIRONMENTAL SERVICES	Company Name:	Company Name: Bonnie Burns	Quotation #: B20552	MAXXAM JOB #: B245483	BOTTLE ORDER #:		
Contact Name: Bonnie Burns	Contact Name:	Contact Name: Bonnie Burns	P.O. #: B12-090-DL	CHAIN OF CUSTODY #:	PROJECT MANAGER:	YARITNA RUDKIN	
Address: 405 Ogilvie Street PO Box 21072 Whitehorse YT Y1A 6P7	Address:	Address:	Project #: FARO Surface water		TARIFFA RUDKIN		
Phone: (667)668-6838 Fax:	Phone:	Phone:	Project Name:	CK20162-01-01			
Email: bonnieburns@northwestel.net	Email:	Email: bonnieburns@northwestel.net	Site #:				
			Sampled By:				

REGULATORY CRITERIA:		SPECIAL INSTRUCTIONS:		ANALYSIS REQUESTED (Please be specific)										TURNAROUND TIME (TAT) REQUIRED:					
				Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	pH, EC, SO4, CL, Alk, NO2, NO3	TDS, TSS, Turbidity	Ammonia, TOC	Dissolved Organic Carbon (DOC)	Low Level Dissolved Metals in Water	Low Level Total Metals in Water								
Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form																			
SAMPLES MUST BE KEPT COOL (+10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM																			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix														# of BOTTLES	Comments
1 D02761	V8	May 29	16:30	H2O	✓	✓	✓	✓	✓	✓	✓							6	
2 762	V 17A	May 30	13:00	"	✓	✓	✓	✓	✓	✓	✓							6	
3 763	V 20A	May 30	11:40	"	✓	✓	✓	✓	✓	✓	✓							6	
4 764	VR	May 30	13:35	"	✓	✓	✓	✓	✓	✓	✓							6	
5 765	VG MAIN	May 29	10:30	"	✓	✓	✓	✓	✓	✓	✓							6	
6 766	V W1	May 29	9:20	"	✓	✓	✓	✓	✓	✓	✓							6	
7 767	V W2	May 29	9:55	"	✓	✓	✓	✓	✓	✓	✓							6	
8 768	V W3	May 29	8:50	"	✓	✓	✓	✓	✓	✓	✓							6	
9 769	Field Blank			"	✓	✓	✓	✓	✓	✓	✓								
10																			

TURNAROUND TIME (TAT) REQUIRED:

PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS

Regular (Standard) TAT:
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most tests
 Please note: Standard TAT for certain tests such as BOD and Dissolved Metals are + 5 days - contact your Project Manager for details

Job Specific Rush TAT (if applies to entire submission)

Date Required: _____ Time Required: _____

Rush Confirmation Number: _____ (call job for #)



8245483

*RELINQUISHED BY (Signature/Print): <i>Bonnie Burns</i>	Date: (YY/MM/DD): 12/15/31	Time:	RECEIVED BY (Signature/Print): <i>LOUISE LAU</i>	Date: (YY/MM/DD): 2012/06/01	Time: 08:35	# Jars Used and Not Submitted:	Laboratory Use Only	
							Time Sensitive: <input type="checkbox"/>	Temperature (°C) on Receipt: 11.2 / 14.3 / 21
								Custody Seal Intact on Receipt: <input type="checkbox"/> Yes <input type="checkbox"/> No

2113

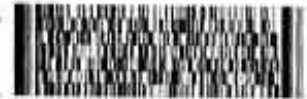
INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):			PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#3673 LABERGE ENVIRONMENTAL SERVICES	Company Name:		Quotation #:	B20552	MAXXAM JOB #:	BOTTLE ORDER #:	
Contact Name:	Bonnie Burns	Contact Name:	Bonnie Burns	P.O. #:	B12-090-DL			
Address:	405 Ogilvie Street PO Box 21072 Whitehorse YT Y1A 6P7	Address:		Project #:	FARO Surface water		280162	
Phone:	(867)668-6838 Fax:	Phone:		Project Name:		CHAIN OF CUSTODY #:	PROJECT MANAGER:	
Email:	bonnieburns@northwestel.net	Email:	bonnieburns@northwestel.net	Site #:			TABITHA RUDKIN	
				Sampled By:		C4280162-02-01		

REGULATORY CRITERIA:	SPECIAL INSTRUCTIONS:	ANALYSIS REQUESTED (Please be specific):						TURNAROUND TIME (TAT) REQUIRED:			
		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	pH, EC, SO4, CL, Alk, NO2, NO3	TDS, TSS, Turbidity	Ammonia, TOC	Dissolved Organic Carbon (DOC)	Low Level Dissolved Metals in Water	Low Level Total Metals in Water	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS	
										Regular (Standard) TAT: (will be applied if Rush TAT is not specified)	<input type="checkbox"/>
										Standard TAT = 5-7 Working days for most tests.	
										Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
										Job Specific Rush TAT (if applies to entire submission)	
										Date Required: _____ Time Required: _____	<input type="checkbox"/>
										Rush Confirmation Number: _____ (not for #)	

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	pH, EC, SO4, CL, Alk, NO2, NO3	TDS, TSS, Turbidity	Ammonia, TOC	Dissolved Organic Carbon (DOC)	Low Level Dissolved Metals in Water	Low Level Total Metals in Water	# of Bottles	Comments
DO2789	FC	May 30	10:35	H2O	✓	✓	✓	✓	✓	✓	✓	✓	6	
790	R1	May 28	16:45	"	✓	✓	✓	✓	✓	✓	✓	✓	6	
791	X14	May 28	15:45	"	✓	✓	✓	✓	✓	✓	✓	✓	6	
792	R4	May 29	13:40	"	✓	✓	✓	✓	✓	✓	✓	✓	6	
793	R6	May 29	13:25	"	✓	✓	✓	✓	✓	✓	✓	✓	6	
794	A1	May 29	14:30	"	✓	✓	✓	✓	✓	✓	✓	✓	6	
795	P1	May 29	12:30	"	✓	✓	✓	✓	✓	✓	✓	✓	6	
796	P4	May 29	15:10	"	✓	✓	✓	✓	✓	✓	✓	✓	6	
797	USFR	May 30	14:05	"	✓	✓	✓	✓	✓	✓	✓	✓	6	
798	GCULV	May 29	08:20	"	✓	✓	✓	✓	✓	✓	✓	✓	6	



B245483

RELINQUISHED BY (Signature/Print):	Date: (YY/MM/DD):	Time:	RECEIVED BY (Signature/Print):	Date: (YY/MM/DD):	Time:	# Jars Used and Not Submitted:	Laboratory Use Only:	
<i>Bonnie Burns</i>	12/5/31		<i>LOUISE CAU</i>	08/10/01	08:35		Time Sensitive: <input type="checkbox"/>	Temperature (°C) on Receipt: 11.02/43.21
							Quality Seal Intact on Case? <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

2,113

INVOICE INFORMATION:		REPORT INFORMATION (if differs from Invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#3673 LABERGE ENVIRONMENTAL SERVICES	Company Name:	Bonnie Burns	Quotation #:	B20552	MAXXAM JOB #:	
Contact Name:	Bonnie Burns	Contact Name:	Bonnie Burns	P.O. #:	B12-090-DL		
Address:	405 Ogilvie Street PO Box 21072 Whitehorse YT Y1A 6P7	Address:		Project #:	FARO Surface water		280152
Phone:	(867) 668-6838 Fax:	Phone:		Project Name:		CHAIN OF CUSTODY #:	PROJECT MANAGER:
Email:	bonnieburns@northwestel.net	Email:	bonnieburns@northwestel.net	Site #:			TABITHA RUDKIN
				Sampled By:		CF280162-03-01	

REGULATORY CRITERIA:	SPECIAL INSTRUCTIONS:	ANALYSIS REQUESTED (Please be specific):	TURNAROUND TIME (TAT) REQUIRED:
		Regular (Standard) TAT: <input type="checkbox"/> (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dissolved Metals are > 7 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) <input type="checkbox"/> Date Required: _____ Time Required: _____ Rush Confirmation Number: _____	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS <input type="checkbox"/>

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	pH, EC, SO4, CL, AIR, NO2, NO3	TDS, TSS, Turbidity	Ammonia, TOC	Dissolved Organic Carbon (DOC)	Low Level Dissolved Metals in Water	Low Level Total Metals in Water	# of Bottles	Comments
DO2806	W10	May 30	09:45	H2O	✓	✓	✓	✓	✓	✓	✓	✓	6	
807	NWID	May 30	09:00	"	✓	✓	✓	✓	✓	✓	✓	✓	6	
808	K8	May 28	17:40	"	✓	✓	✓	✓	✓	✓	✓	✓	6	Note: bottle for Alk etc is only a 120ml due to loss down stream
809	DUP-1	May 30		"	✓	✓	✓	✓	✓	✓	✓	✓	6	
810	DUP-2	May 29		"	✓	✓	✓	✓	✓	✓	✓	✓	6	
811	Travel Blank			"	✓	✓	✓	✓	✓	✓	✓	✓	6	NOTE: We have not used the supplied labels before & since there was no allocation space for parameter/preservative we assumed the small square was for that.



9245493

RELINQUISHED BY (Signature/Print):	Date: (YY/MM/DD)	Time:	RECEIVED BY (Signature/Print):	Date: (YY/MM/DD)	Time:	# Jars Used and Not Submitted	Laboratory Use Only		
<i>Bonnie Burns</i>	12/5/31		<i>LOUISE (A)</i>	2012/06/01	08:35		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: 11.2 / 4.3 / 2.1	Quality Seal Intact on Receipt? <input type="checkbox"/> Yes <input type="checkbox"/> No