

Your Project #: CAM-3
Site: SHEPHERDBAY
Your C.O.C. #: 83437, 83438

Attention: ANDREW PASSALIS

SILA REMEDIATION
4495 BL. WILFRED-HAMEL BUR 100
QUEBEC, PQ
CANADA GIP 2T7

Report Date: 2009/10/29

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A944529

Received: 2009/08/20, 13:02

Sample Matrix: Soil
Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Boron (Hot Water Soluble) Ⓟ	18	2009/08/24	2009/08/24	CAL SOP-00192	EPA SW846/6010B
BTEX/F1 by HS GC/MS (MeOH extract) Ⓟ	18	2009/08/20	2009/08/24	EENVSOP-00005 EENVSOP-00002	EPA 8260C/CCME
Hexavalent Chromium Ⓟ	18	2009/08/21	2009/08/21	EENVSOP-00131	SM 3500-Cr B
CCME Hydrocarbons (F2-F4 in soil) Ⓟ	18	2009/08/20	2009/08/24	EENVSOP-00007 EENVSOP-00006	CCME PHC-CWS
Elements by ICPMS - Soils Ⓟ	18	2009/08/23	2009/08/24	CAL SOP-00191	EPA SW-846-6020A
Moisture Ⓟ	18	N/A	2009/08/20	EENVSOP-00139	Carter SSMA 51.2

Sample Matrix: Water
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
BTEX/F1 in Water by HS GC/MS Ⓟ	8	N/A	2009/08/22	EENVSOP-00004 EENVSOP-00002	EPA 8260C/CCME
BTEX/F1 in Water by HS GC/MS Ⓟ	1	N/A	2009/08/23	EENVSOP-00004 EENVSOP-00002	EPA 8260C/CCME
CCME Hydrocarbons (F2-F4 in water) Ⓟ	8	2009/08/21	2009/08/24	EENVSOP-00009 EENVSOP-00008	EPA3510C/CCME PHCCWS
Mercury (Total) Ⓟ	8	2009/08/24	2009/08/24	EENVSOP-00031	EPA 245.1
Elements by ICPMS - Total Ⓟ	8	2009/08/24	2009/08/26	CAL SOP-00191	EPA SW-846 6020A

(1) This test was performed by Maxxam Edmonton Environmental

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CERTIFICATE OF ANALYSIS

-2-

Encryption Key

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

ALAINA HUNTER, Project Manager
Email: alaina.hunter@maxxamanalytics.com
Phone# (403) 291-3077

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For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Maxxam Job #: A944529
Report Date: 2009/10/29

SILA REMEDIATION
Client Project #: CAM-3
Site Reference: SHEPHERD BAY
Sampler Initials: AP

AT1 BTEX AND F1-F4 IN SOIL (SOIL)

Maxxam ID		Q33791	Q33792	Q33794	Q33795		
Sampling Date		2009/08/13	2009/08/13	2009/08/13	2009/08/13		
COC Number		83437	83437	83437	83437		
	Units	C309-4WA	C309-4WB	C309-5WA	C309-5WB	RDL	QC Batch
Physical Properties							
Moisture	%	4.3	4.4	13	15	0.3	3364806
Ext. Pet. Hydrocarbon							
F2 (C10-C16 Hydrocarbons)	mg/kg	<10	<10	<10	<10	10	3363751
F3 (C16-C34 Hydrocarbons)	mg/kg	11	12	46	25	10	3363751
F4 (C34-C50 Hydrocarbons)	mg/kg	<10	<10	28	15	10	3363751
Reached Baseline at C50	mg/kg	Yes	Yes	Yes	Yes		3363751
Volatiles							
Benzene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	3363745
Toluene	mg/kg	<0.020	<0.020	<0.020	<0.020	0.020	3363745
Ethylbenzene	mg/kg	<0.010	<0.010	<0.010	<0.010	0.010	3363745
Xylenes (Total)	mg/kg	<0.040	<0.040	<0.040	<0.040	0.040	3363745
m & p-Xylene	mg/kg	<0.040	<0.040	<0.040	<0.040	0.040	3363745
o-Xylene	mg/kg	<0.020	<0.020	<0.020	<0.020	0.020	3363745
F1 (C6-C10) - BTEX	mg/kg	<12	<12	<12	<12	12	3363745
(C6-C10)	mg/kg	<12	<12	<12	<12	12	3363745
Surrogate Recovery (%)							
4-BROMOFLUOROBENZENE (sur.)	%	97	100	99	104		3363745
D10-ETHYLBENZENE (sur.)	%	94	92	92	93		3363745
D4-1,2-DICHLOROETHANE (sur.)	%	96	94	95	101		3363745
D8-TOLUENE (sur.)	%	101	104	104	102		3363745
O-TERPHENYL (sur.)	%	107	111	110	106		3363751
RDL = Reportable Detection Limit							

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SILA REMEDIATION
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AT1 BTEX AND F1-F4 IN SOIL (SOIL)

Maxxam ID		Q33796	Q33800	Q33801	Q33802		
Sampling Date		2009/08/13	2009/08/13	2009/08/13	2009/08/13		
COC Number		83437	83437	83437	83437		
	Units	C309-6WA	C309-6WB	C309-7WA	C309-7WB	RDL	QC Batch

Physical Properties							
Moisture	%	37	33	11	11	0.3	3364806
Ext. Pet. Hydrocarbon							
F2 (C10-C16 Hydrocarbons)	mg/kg	<10	<10	<10	<10	10	3363751
F3 (C16-C34 Hydrocarbons)	mg/kg	56	78	<10	19	10	3363751
F4 (C34-C50 Hydrocarbons)	mg/kg	19	30	<10	<10	10	3363751
Reached Baseline at C50	mg/kg	Yes	Yes	Yes	Yes		3363751
Volatiles							
Benzene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	3363745
Toluene	mg/kg	<0.020	<0.020	<0.020	<0.020	0.020	3363745
Ethylbenzene	mg/kg	<0.010	<0.010	<0.010	<0.010	0.010	3363745
Xylenes (Total)	mg/kg	<0.040	<0.040	<0.040	<0.040	0.040	3363745
m & p-Xylene	mg/kg	<0.040	<0.040	<0.040	<0.040	0.040	3363745
o-Xylene	mg/kg	<0.020	<0.020	<0.020	<0.020	0.020	3363745
F1 (C6-C10) - BTEX	mg/kg	<12	<12	<12	<12	12	3363745
(C6-C10)	mg/kg	<12	<12	<12	<12	12	3363745
Surrogate Recovery (%)							
4-BROMOFLUOROBENZENE (sur.)	%	102	104	106	101		3363745
D10-ETHYLBENZENE (sur.)	%	90	90	89	89		3363745
D4-1,2-DICHLOROETHANE (sur.)	%	94	99	100	97		3363745
D8-TOLUENE (sur.)	%	103	104	104	105		3363745
O-TERPHENYL (sur.)	%	97	101	104	109		3363751
RDL = Reportable Detection Limit							

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SILA REMEDIATION
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AT1 BTEX AND F1-F4 IN SOIL (SOIL)

Maxxam ID		Q33804	Q33898	Q33899	Q33900		
Sampling Date		2009/08/13	2009/08/14	2009/08/14	2009/08/14		
COC Number		83437	83438	83438	83438		
	Units	C309-BD1	C309-12WA	C309-12WB	C309-13WA	RDL	QC Batch

Physical Properties							
Moisture	%	33	5.8	4.2	13	0.3	3364806
Ext. Pet. Hydrocarbon							
F2 (C10-C16 Hydrocarbons)	mg/kg	<10	<10	13	<10	10	3363751
F3 (C16-C34 Hydrocarbons)	mg/kg	62	27	23	20	10	3363751
F4 (C34-C50 Hydrocarbons)	mg/kg	<10	<10	<10	<10	10	3363751
Reached Baseline at C50	mg/kg	Yes	Yes	Yes	Yes		3363751
Volatiles							
Benzene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	3363745
Toluene	mg/kg	<0.020	<0.020	<0.020	<0.020	0.020	3363745
Ethylbenzene	mg/kg	<0.010	<0.010	<0.010	<0.010	0.010	3363745
Xylenes (Total)	mg/kg	<0.040	<0.040	<0.040	<0.040	0.040	3363745
m & p-Xylene	mg/kg	<0.040	<0.040	<0.040	<0.040	0.040	3363745
o-Xylene	mg/kg	<0.020	<0.020	<0.020	<0.020	0.020	3363745
F1 (C6-C10) - BTEX	mg/kg	<12	<12	<12	<12	12	3363745
(C6-C10)	mg/kg	<12	<12	<12	<12	12	3363745
Surrogate Recovery (%)							
4-BROMOFLUOROBENZENE (sur.)	%	101	102	103	103		3363745
D10-ETHYLBENZENE (sur.)	%	99	89	93	70		3363745
D4-1,2-DICHLOROETHANE (sur.)	%	97	98	95	116		3363745
D8-TOLUENE (sur.)	%	104	101	108	101		3363745
O-TERPHENYL (sur.)	%	113	108	118	118		3363751
RDL = Reportable Detection Limit							

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SILA REMEDIATION
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Sampler Initials: AP

AT1 BTEX AND F1-F4 IN SOIL (SOIL)

Maxxam ID		Q33901	Q33902	Q33903	Q33904		
Sampling Date		2009/08/14	2009/08/14	2009/08/14	2009/08/14		
COC Number		83438	83438	83438	83438		
	Units	C309-13WB	C309-14WA	C309-14WB	C309-15WA	RDL	QC Batch
Physical Properties							
Moisture	%	11	9.1	11	17	0.3	3364806
Ext. Pet. Hydrocarbon							
F2 (C10-C16 Hydrocarbons)	mg/kg	<10	<10	<10	<10	10	3363751
F3 (C16-C34 Hydrocarbons)	mg/kg	<10	13	10	21	10	3363751
F4 (C34-C50 Hydrocarbons)	mg/kg	<10	<10	<10	<10	10	3363751
Reached Baseline at C50	mg/kg	Yes	Yes	Yes	Yes		3363751
Volatiles							
Benzene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	3363745
Toluene	mg/kg	<0.020	<0.020	<0.020	<0.020	0.020	3363745
Ethylbenzene	mg/kg	<0.010	<0.010	<0.010	<0.010	0.010	3363745
Xylenes (Total)	mg/kg	<0.040	<0.040	<0.040	<0.040	0.040	3363745
m & p-Xylene	mg/kg	<0.040	<0.040	<0.040	<0.040	0.040	3363745
o-Xylene	mg/kg	<0.020	<0.020	<0.020	<0.020	0.020	3363745
F1 (C6-C10) - BTEX	mg/kg	<12	<12	<12	<12	12	3363745
(C6-C10)	mg/kg	<12	<12	<12	<12	12	3363745
Surrogate Recovery (%)							
4-BROMOFLUOROBENZENE (sur.)	%	100	104	95	108		3363745
D10-ETHYLBENZENE (sur.)	%	79	80	84	82		3363745
D4-1,2-DICHLOROETHANE (sur.)	%	101	102	100	99		3363745
D8-TOLUENE (sur.)	%	101	104	103	104		3363745
O-TERPHENYL (sur.)	%	58	112	108	111		3363751
RDL = Reportable Detection Limit							

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AT1 BTEX AND F1-F4 IN SOIL (SOIL)

Maxxam ID		Q33906	Q33907		
Sampling Date		2009/08/14	2009/08/14		
COC Number		83438	83438		
	Units	C309-15WB	C309-BD2	RDL	QC Batch

Physical Properties					
Moisture	%	13	11	0.3	3364806
Ext. Pet. Hydrocarbon					
F2 (C10-C16 Hydrocarbons)	mg/kg	<10	<10	10	3363751
F3 (C16-C34 Hydrocarbons)	mg/kg	12	14	10	3363751
F4 (C34-C50 Hydrocarbons)	mg/kg	<10	<10	10	3363751
Reached Baseline at C50	mg/kg	Yes	Yes		3363751
Volatiles					
Benzene	mg/kg	<0.0050	<0.0050	0.0050	3363745
Toluene	mg/kg	<0.020	<0.020	0.020	3363745
Ethylbenzene	mg/kg	<0.010	<0.010	0.010	3363745
Xylenes (Total)	mg/kg	<0.040	<0.040	0.040	3363745
m & p-Xylene	mg/kg	<0.040	<0.040	0.040	3363745
o-Xylene	mg/kg	<0.020	<0.020	0.020	3363745
F1 (C6-C10) - BTEX	mg/kg	<12	<12	12	3363745
(C6-C10)	mg/kg	<12	<12	12	3363745
Surrogate Recovery (%)					
4-BROMOFLUOROBENZENE (sur.)	%	101	103		3363745
D10-ETHYLBENZENE (sur.)	%	85	82		3363745
D4-1,2-DICHLOROETHANE (sur.)	%	98	101		3363745
D8-TOLUENE (sur.)	%	105	102		3363745
O-TERPHENYL (sur.)	%	113	118		3363751
RDL = Reportable Detection Limit					

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SILA REMEDIATION
Client Project #: CAM-3
Site Reference: SHEPHERD BAY
Sampler Initials: AP

AT1 BTEX AND F1-F4 IN WATER (WATER)

Maxxam ID		Q33869	Q33890	Q33891	Q33945		
Sampling Date		2009/08/14	2009/08/14	2009/08/14	2009/08/14		
COC Number		83437	83437	83437	83438		
	Units	C309-5W	C309-6W	C309-7W	C309-13W	RDL	QC Batch

Extractable Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	mg/L	<0.1	<0.1	<0.1	<0.1	0.1	3365216
F3 (C16-C34 Hydrocarbons)	mg/L	<0.1	<0.1	<0.1	<0.1	0.1	3365216
Reached Baseline at C50	mg/L	Yes	Yes	Yes	Yes		3365216
Volatiles							
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	<100	100	3363777
(C6-C10)	ug/L	<100	<100	<100	<100	100	3363777
Surrogate Recovery (%)							
4-BROMOFLUOROBENZENE (sur.)	%	98	89	98	91		3363777
D4-1,2-DICHLOROETHANE (sur.)	%	97	97	127	95		3363777
D8-TOLUENE (sur.)	%	97	97	89	98		3363777
O-TERPHENYL (sur.)	%	115	116	116	115		3365216
RDL = Reportable Detection Limit							

Maxxam Job #: A944529
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SILA REMEDIATION
Client Project #: CAM-3
Site Reference: SHEPHERD BAY
Sampler Initials: AP

AT1 BTEX AND F1-F4 IN WATER (WATER)

Maxxam ID		Q33946	Q33947	Q33948		
Sampling Date		2009/08/14	2009/08/14	2009/08/14		
COC Number		83438	83438	83438		
	Units	C309-14W	C309-15W	C309-BD1W	RDL	QC Batch

Extractable Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	mg/L	<0.1	<0.1	<0.1	0.1	3365216
F3 (C16-C34 Hydrocarbons)	mg/L	<0.1	<0.1	<0.1	0.1	3365216
Reached Baseline at C50	mg/L	Yes	Yes	Yes		3365216
Volatiles						
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	3363777
(C6-C10)	ug/L	<100	<100	<100	100	3363777
Surrogate Recovery (%)						
4-BROMOFLUOROBENZENE (sur.)	%	90	97	90		3363777
D4-1,2-DICHLOROETHANE (sur.)	%	101	95	97		3363777
D8-TOLUENE (sur.)	%	96	97	98		3363777
O-TERPHENYL (sur.)	%	115	114	114		3365216
RDL = Reportable Detection Limit						

Maxxam Job #: A944529
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SILA REMEDIATION
Client Project #: CAM-3
Site Reference: SHEPHERD BAY
Sampler Initials: AP

AT1 BTEX AND F1-F4 IN WATER (WATER)

Maxxam ID		Q33949		
Sampling Date		2009/08/14		
COC Number		83438		
	Units	C309-FB	RDL	QC Batch

Extractable Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	mg/L	<0.1	0.1	3365216
F3 (C16-C34 Hydrocarbons)	mg/L	<0.1	0.1	3365216
Reached Baseline at C50	mg/L	Yes		3365216
Volatiles				
F1 (C6-C10) - BTEX	ug/L	<100	100	3364681
(C6-C10)	ug/L	<100	100	3364681
Surrogate Recovery (%)				
4-BROMOFLUOROBENZENE (sur.)	%	92		3364681
D4-1,2-DICHLOROETHANE (sur.)	%	108		3364681
D8-TOLUENE (sur.)	%	97		3364681
O-TERPHENYL (sur.)	%	112		3365216
RDL = Reportable Detection Limit				

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SILA REMEDIATION
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AT1 BTEX AND F1 (WATER)

Maxxam ID		Q33892		
Sampling Date		2009/08/14		
COC Number		83437		
	Units	TRAVEL BLANK	RDL	QC Batch

Volatiles				
Benzene	ug/L	<0.4	0.4	3363777
Toluene	ug/L	<0.4	0.4	3363777
Ethylbenzene	ug/L	<0.4	0.4	3363777
o-Xylene	ug/L	<0.4	0.4	3363777
m & p-Xylene	ug/L	<0.8	0.8	3363777
Xylenes (Total)	ug/L	<0.8	0.8	3363777
F1 (C6-C10) - BTEX	ug/L	<100	100	3363777
(C6-C10)	ug/L	<100	100	3363777
Surrogate Recovery (%)				
4-BROMOFLUOROBENZENE (sur.)	%	92		3363777
D4-1,2-DICHLOROETHANE (sur.)	%	96		3363777
D8-TOLUENE (sur.)	%	98		3363777
RDL = Reportable Detection Limit				

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REGULATED METALS (CCME/AT1)

Maxxam ID		Q33791	Q33792	Q33794	Q33795		
Sampling Date		2009/08/13	2009/08/13	2009/08/13	2009/08/13		
COC Number		83437	83437	83437	83437		
	Units	C309-4WA	C309-4WB	C309-5WA	C309-5WB	RDL	QC Batch

Elements							
Soluble (Hot water) Boron (B)	mg/kg	0.2	0.3	0.1	0.1	0.1	3368172
Hex. Chromium (Cr 6+)	mg/kg	<0.15	<0.15	<0.15	<0.15	0.15	3364642
Total Arsenic (As)	mg/kg	3	4	3	3	1	3367151
Total Cadmium (Cd)	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1	3367151
Total Chromium (Cr)	mg/kg	32	37	16	17	1	3367151
Total Cobalt (Co)	mg/kg	2	3	3	4	1	3367151
Total Copper (Cu)	mg/kg	<5	<5	6	6	5	3367151
Total Lead (Pb)	mg/kg	5	4	5	6	1	3367151
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	0.05	3367151
Total Nickel (Ni)	mg/kg	15	17	10	10	1	3367151
Total Zinc (Zn)	mg/kg	<10	<10	<10	<10	10	3367151

RDL = Reportable Detection Limit

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REGULATED METALS (CCME/AT1)

Maxxam ID		Q33796	Q33800	Q33801	Q33802		
Sampling Date		2009/08/13	2009/08/13	2009/08/13	2009/08/13		
COC Number		83437	83437	83437	83437		
	Units	C309-6WA	C309-6WB	C309-7WA	C309-7WB	RDL	QC Batch

Elements							
Soluble (Hot water) Boron (B)	mg/kg	1.2	1.7	0.3	0.3	0.1	3368172
Hex. Chromium (Cr 6+)	mg/kg	<0.15	<0.15	<0.15	<0.15	0.15	3364642
Total Arsenic (As)	mg/kg	2	3	4	4	1	3367151
Total Cadmium (Cd)	mg/kg	0.3	0.3	<0.1	<0.1	0.1	3367151
Total Chromium (Cr)	mg/kg	9	5	13	38	1	3367151
Total Cobalt (Co)	mg/kg	2	2	3	2	1	3367151
Total Copper (Cu)	mg/kg	<5	6	<5	<5	5	3367151
Total Lead (Pb)	mg/kg	4	4	4	3	1	3367151
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	0.05	3367151
Total Nickel (Ni)	mg/kg	5	6	8	18	1	3367151
Total Zinc (Zn)	mg/kg	<10	<10	<10	<10	10	3367151

RDL = Reportable Detection Limit

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REGULATED METALS (CCME/AT1)

Maxxam ID		Q33804	Q33898	Q33899	Q33900		
Sampling Date		2009/08/13	2009/08/14	2009/08/14	2009/08/14		
COC Number		83437	83438	83438	83438		
	Units	C309-BD1	C309-12WA	C309-12WB	C309-13WA	RDL	QC Batch

Elements							
Soluble (Hot water) Boron (B)	mg/kg	2.0	<0.1	<0.1	0.2	0.1	3368172
Hex. Chromium (Cr 6+)	mg/kg	<0.15	<0.15	<0.15	<0.15	0.15	3364642
Total Arsenic (As)	mg/kg	3	<1	<1	<1	1	3367151
Total Cadmium (Cd)	mg/kg	0.2	<0.1	<0.1	<0.1	0.1	3367151
Total Chromium (Cr)	mg/kg	5	2	2	22	1	3367151
Total Cobalt (Co)	mg/kg	2	<1	<1	1	1	3367151
Total Copper (Cu)	mg/kg	<5	<5	<5	<5	5	3367151
Total Lead (Pb)	mg/kg	3	1	<1	2	1	3367151
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	0.05	3367151
Total Nickel (Ni)	mg/kg	5	<1	<1	10	1	3367151
Total Zinc (Zn)	mg/kg	<10	<10	<10	<10	10	3367151

RDL = Reportable Detection Limit

Maxxam Job #: A944529
Report Date: 2009/10/29

SILA REMEDIATION
Client Project #: CAM-3
Site Reference: SHEPHERD BAY
Sampler Initials: AP

REGULATED METALS (CCME/AT1)

Maxxam ID		Q33901	Q33902	Q33903		
Sampling Date		2009/08/14	2009/08/14	2009/08/14		
COC Number		83438	83438	83438		
	Units	C309-13WB	C309-14WA	C309-14WB	RDL	QC Batch

Elements						
Soluble (Hot water) Boron (B)	mg/kg	0.1	0.2	0.1	0.1	3368172
Hex. Chromium (Cr 6+)	mg/kg	<0.15	<0.15	<0.15	0.15	3364642
Total Arsenic (As)	mg/kg	1	3	2	1	3367151
Total Cadmium (Cd)	mg/kg	<0.1	<0.1	<0.1	0.1	3367151
Total Chromium (Cr)	mg/kg	11	38	23	1	3367151
Total Cobalt (Co)	mg/kg	2	4	4	1	3367151
Total Copper (Cu)	mg/kg	<5	6	6	5	3367151
Total Lead (Pb)	mg/kg	3	6	5	1	3367151
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	0.05	3367151
Total Nickel (Ni)	mg/kg	5	18	12	1	3367151
Total Zinc (Zn)	mg/kg	<10	14	17	10	3367151
RDL = Reportable Detection Limit						

Maxxam Job #: A944529
Report Date: 2009/10/29

SILA REMEDIATION
Client Project #: CAM-3
Site Reference: SHEPHERD BAY
Sampler Initials: AP

REGULATED METALS (CCME/AT1)

Maxxam ID		Q33904	Q33906	Q33907		
Sampling Date		2009/08/14	2009/08/14	2009/08/14		
COC Number		83438	83438	83438		
	Units	C309-15WA	C309-15WB	C309-BD2	RDL	QC Batch

Elements						
Soluble (Hot water) Boron (B)	mg/kg	0.2	<0.1	<0.1	0.1	3368172
Hex. Chromium (Cr 6+)	mg/kg	<0.15	<0.15	<0.15	0.15	3364646
Total Arsenic (As)	mg/kg	2	1	2	1	3367151
Total Cadmium (Cd)	mg/kg	<0.1	<0.1	<0.1	0.1	3367151
Total Chromium (Cr)	mg/kg	28	84	19	1	3367151
Total Cobalt (Co)	mg/kg	2	2	3	1	3367151
Total Copper (Cu)	mg/kg	<5	<5	5	5	3367151
Total Lead (Pb)	mg/kg	3	3	5	1	3367151
Total Mercury (Hg)	mg/kg	<0.05	0.05	<0.05	0.05	3367151
Total Nickel (Ni)	mg/kg	13	38	10	1	3367151
Total Zinc (Zn)	mg/kg	<10	<10	13	10	3367151
RDL = Reportable Detection Limit						

Maxxam Job #: A944529
Report Date: 2009/10/29

SILA REMEDIATION
Client Project #: CAM-3
Site Reference: SHEPHERD BAY
Sampler Initials: AP

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		Q33869		Q33890		Q33891		
Sampling Date		2009/08/14		2009/08/14		2009/08/14		
COC Number		83437		83437		83437		
	Units	C309-5W	RDL	C309-6W	RDL	C309-7W	RDL	QC Batch

Elements								
Total Arsenic (As)	mg/L	0.0030	0.0002	0.0057	0.0002	0.0027	0.0002	3371712
Total Cadmium (Cd)	mg/L	0.00016	0.000005	0.00032	0.000005	0.00030	0.000005	3371712
Total Chromium (Cr)	mg/L	0.12	0.001	0.044	0.001	0.081	0.001	3371712
Total Cobalt (Co)	mg/L	0.0052	0.0003	0.011	0.0003	0.0029	0.0003	3371712
Total Copper (Cu)	mg/L	0.019	0.0002	0.031	0.0002	0.019	0.0002	3371712
Total Lead (Pb)	mg/L	0.0035	0.0002	0.012	0.0002	0.0034	0.0002	3371712
Total Nickel (Ni)	mg/L	0.050	0.0005	0.043	0.0005	0.028	0.0005	3371712
Total Zinc (Zn)	mg/L	5.7 (l)	0.03	0.042	0.003	3.0 (l)	0.03	3371712
Low Level Elements								
Total Mercury (Hg)	ug/L	0.011	0.005	0.020	0.005	0.007	0.005	3511904

RDL = Reportable Detection Limit

(1) Detection limits raised due to dilution to bring analyte within the calibrated range.

Maxxam ID		Q33945			Q33946		
Sampling Date		2009/08/14			2009/08/14		
COC Number		83438			83438		
	Units	C309-13W	RDL	QC Batch	C309-14W	RDL	QC Batch

Elements							
Total Arsenic (As)	mg/L	0.0035	0.0002	3371712	0.0045	0.0002	3371712
Total Cadmium (Cd)	mg/L	0.00038	0.000005	3371712	0.00023	0.000005	3371712
Total Chromium (Cr)	mg/L	0.021	0.001	3371712	0.038	0.001	3371712
Total Cobalt (Co)	mg/L	0.0042	0.0003	3371712	0.0046	0.0003	3371712
Total Copper (Cu)	mg/L	0.011	0.0002	3371712	0.049	0.0002	3371712
Total Lead (Pb)	mg/L	0.0061	0.0002	3371712	0.012	0.0002	3371712
Total Nickel (Ni)	mg/L	0.013	0.0005	3371712	0.052	0.0005	3371712
Total Zinc (Zn)	mg/L	0.33	0.003	3371712	1.8 (l)	0.03	3371712
Low Level Elements							
Total Mercury (Hg)	ug/L	<0.005	0.005	3367675	0.015	0.005	3511904

RDL = Reportable Detection Limit

(1) Detection limits raised due to dilution to bring analyte within the calibrated range.

Maxxam Job #: A944529
Report Date: 2009/10/29

SILA REMEDIATION
Client Project #: CAM-3
Site Reference: SHEPHERD BAY
Sampler Initials: AP

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		Q33947		Q33948	Q33949		
Sampling Date		2009/08/14		2009/08/14	2009/08/14		
COC Number		83438		83438	83438		
	Units	C309-15W	QC Batch	C309-BD1W	C309-FB	RDL	QC Batch
Elements							
Total Arsenic (As)	mg/L	0.0073	3371712	0.0030	<0.0002	0.0002	3371712
Total Cadmium (Cd)	mg/L	0.00051	3371712	0.00033	<0.000005	0.000005	3371712
Total Chromium (Cr)	mg/L	0.084	3371712	0.017	<0.001	0.001	3371712
Total Cobalt (Co)	mg/L	0.0082	3371712	0.0034	<0.0003	0.0003	3371712
Total Copper (Cu)	mg/L	0.025	3371712	0.0086	0.0077	0.0002	3371712
Total Lead (Pb)	mg/L	0.011	3371712	0.0047	0.0003	0.0002	3371712
Total Nickel (Ni)	mg/L	0.044	3371712	0.011	<0.0005	0.0005	3371712
Total Zinc (Zn)	mg/L	0.044	3371712	0.27	0.003	0.003	3371712
Low Level Elements							
Total Mercury (Hg)	ug/L	0.013	3511904	<0.005	<0.005	0.005	3367675
RDL = Reportable Detection Limit							

Maxxam Job #: A944529
Report Date: 2009/10/29

SILA REMEDIATION
Client Project #: CAM-3
Site Reference: SHEPHERD BAY
Sampler Initials: AP

General Comments

This report is being reissued due to an error identified by the lab associated with the mercury data for samples Q33869, Q33890, Q33891, Q33946 and Q33947. The original mercury result reported for these samples was biased low by 50%.

Results relate only to the items tested.

SILA REMEDIATION
Attention: ANDREW PASSALIS
Client Project #: CAM-3
P.O. #:
Site Reference: SHEPHERD BAY

Quality Assurance Report
Maxxam Job Number: EA944529

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
3363745 CL9	Matrix Spike	4-BROMOFLUOROBENZENE (sur.)	2009/08/23		103	%	60 - 140
		D10-ETHYLBENZENE (sur.)	2009/08/23		94	%	30 - 130
		D4-1,2-DICHLOROETHANE (sur.)	2009/08/23		93	%	60 - 140
		D8-TOLUENE (sur.)	2009/08/23		102	%	60 - 140
		Benzene	2009/08/23		94	%	60 - 140
		Toluene	2009/08/23		88	%	60 - 140
		Ethylbenzene	2009/08/23		96	%	60 - 140
		m & p-Xylene	2009/08/23		101	%	60 - 140
		o-Xylene	2009/08/23		96	%	60 - 140
		(C6-C10)	2009/08/23		98	%	60 - 140
	Spiked Blank	4-BROMOFLUOROBENZENE (sur.)	2009/08/23		109	%	60 - 140
		D10-ETHYLBENZENE (sur.)	2009/08/23		93	%	30 - 130
		D4-1,2-DICHLOROETHANE (sur.)	2009/08/23		93	%	60 - 140
		D8-TOLUENE (sur.)	2009/08/23		100	%	60 - 140
		Benzene	2009/08/23		95	%	60 - 140
		Toluene	2009/08/23		85	%	60 - 140
		Ethylbenzene	2009/08/23		94	%	60 - 140
		m & p-Xylene	2009/08/23		98	%	60 - 140
		o-Xylene	2009/08/23		101	%	60 - 140
		(C6-C10)	2009/08/23		92	%	80 - 120
	Method Blank	4-BROMOFLUOROBENZENE (sur.)	2009/08/23		102	%	60 - 140
		D10-ETHYLBENZENE (sur.)	2009/08/23		85	%	30 - 130
		D4-1,2-DICHLOROETHANE (sur.)	2009/08/23		91	%	60 - 140
		D8-TOLUENE (sur.)	2009/08/23		106	%	60 - 140
		Benzene	2009/08/23	<0.0050		mg/kg	
		Toluene	2009/08/23	<0.020		mg/kg	
		Ethylbenzene	2009/08/23	<0.010		mg/kg	
		Xylenes (Total)	2009/08/23	<0.040		mg/kg	
		m & p-Xylene	2009/08/23	<0.040		mg/kg	
		o-Xylene	2009/08/23	<0.020		mg/kg	
	RPD [Q33791-01]	F1 (C6-C10) - BTEX	2009/08/23	<12		mg/kg	
		(C6-C10)	2009/08/23	<12		mg/kg	
		Benzene	2009/08/24	NC		%	50
		Toluene	2009/08/24	NC		%	50
		Ethylbenzene	2009/08/24	NC		%	50
		Xylenes (Total)	2009/08/24	NC		%	50
		m & p-Xylene	2009/08/24	NC		%	50
		o-Xylene	2009/08/24	NC		%	50
		F1 (C6-C10) - BTEX	2009/08/24	NC		%	50
		(C6-C10)	2009/08/24	NC		%	50
3363751 LD2	Matrix Spike [Q33792-01]	O-TERPHENYL (sur.)	2009/08/24		98	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2009/08/24		105	%	50 - 130
		F3 (C16-C34 Hydrocarbons)	2009/08/24		107	%	50 - 130
		F4 (C34-C50 Hydrocarbons)	2009/08/24		110	%	50 - 130
	Spiked Blank	O-TERPHENYL (sur.)	2009/08/24		88	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2009/08/24		115	%	80 - 120
		F3 (C16-C34 Hydrocarbons)	2009/08/24		106	%	80 - 120
		F4 (C34-C50 Hydrocarbons)	2009/08/24		107	%	80 - 120
	Method Blank	O-TERPHENYL (sur.)	2009/08/24		97	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2009/08/24	<10		mg/kg	
		F3 (C16-C34 Hydrocarbons)	2009/08/24	<10		mg/kg	
		F4 (C34-C50 Hydrocarbons)	2009/08/24	<10		mg/kg	
	RPD [Q33791-01]	F2 (C10-C16 Hydrocarbons)	2009/08/24	NC		%	50
		F3 (C16-C34 Hydrocarbons)	2009/08/24	NC		%	50

SILA REMEDIATION
Attention: ANDREW PASSALIS
Client Project #: CAM-3
P.O. #:
Site Reference: SHEPHERD BAY

Quality Assurance Report (Continued)

Maxxam Job Number: EA944529

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
3363751 LD2	RPD [Q33791-01]	F4 (C34-C50 Hydrocarbons)	2009/08/24	NC		%	50
3363777 AN1	Matrix Spike	4-BROMOFLUOROBENZENE (sur.)	2009/08/22		98	%	70 - 130
		D4-1,2-DICHLOROETHANE (sur.)	2009/08/22		118	%	70 - 130
		D8-TOLUENE (sur.)	2009/08/22		93	%	70 - 130
		Benzene	2009/08/22		103	%	70 - 130
		Toluene	2009/08/22		86	%	70 - 130
		Ethylbenzene	2009/08/22		90	%	70 - 130
		o-Xylene	2009/08/22		92	%	70 - 130
		m & p-Xylene	2009/08/22		90	%	70 - 130
		(C6-C10)	2009/08/22		72	%	70 - 130
	Spiked Blank	4-BROMOFLUOROBENZENE (sur.)	2009/08/22		97	%	70 - 130
		D4-1,2-DICHLOROETHANE (sur.)	2009/08/22		91	%	70 - 130
		D8-TOLUENE (sur.)	2009/08/22		99	%	70 - 130
		Benzene	2009/08/22		93	%	70 - 130
		Toluene	2009/08/22		85	%	70 - 130
		Ethylbenzene	2009/08/22		94	%	70 - 130
		o-Xylene	2009/08/22		92	%	70 - 130
		m & p-Xylene	2009/08/22		93	%	70 - 130
		(C6-C10)	2009/08/22		102	%	80 - 120
	Method Blank	4-BROMOFLUOROBENZENE (sur.)	2009/08/22		95	%	70 - 130
		D4-1,2-DICHLOROETHANE (sur.)	2009/08/22		93	%	70 - 130
		D8-TOLUENE (sur.)	2009/08/22		98	%	70 - 130
		Benzene	2009/08/22	<0.4		ug/L	
		Toluene	2009/08/22	<0.4		ug/L	
		Ethylbenzene	2009/08/22	<0.4		ug/L	
		o-Xylene	2009/08/22	<0.4		ug/L	
		m & p-Xylene	2009/08/22	<0.8		ug/L	
		Xylenes (Total)	2009/08/22	<0.8		ug/L	
		F1 (C6-C10) - BTEX	2009/08/22	<100		ug/L	
		(C6-C10)	2009/08/22	<100		ug/L	
	RPD	Benzene	2009/08/22	NC		%	40
		Toluene	2009/08/22	NC		%	40
		Ethylbenzene	2009/08/22	NC		%	40
		o-Xylene	2009/08/22	NC		%	40
		m & p-Xylene	2009/08/22	NC		%	40
		Xylenes (Total)	2009/08/22	NC		%	40
		F1 (C6-C10) - BTEX	2009/08/22	NC		%	40
		(C6-C10)	2009/08/22	NC		%	40
3364642 AL2	Matrix Spike	Hex. Chromium (Cr 6+)	2009/08/21		98	%	75 - 125
	Spiked Blank	Hex. Chromium (Cr 6+)	2009/08/21		101	%	80 - 120
	Method Blank	Hex. Chromium (Cr 6+)	2009/08/21	<0.15		mg/kg	
	RPD	Hex. Chromium (Cr 6+)	2009/08/21	NC		%	35
3364646 AL2	Spiked Blank	Hex. Chromium (Cr 6+)	2009/08/21		98	%	80 - 120
	Method Blank	Hex. Chromium (Cr 6+)	2009/08/21	<0.15		mg/kg	
	RPD	Hex. Chromium (Cr 6+)	2009/08/21	NC		%	35
3364681 DR3	Matrix Spike	4-BROMOFLUOROBENZENE (sur.)	2009/08/22		92	%	70 - 130
		D4-1,2-DICHLOROETHANE (sur.)	2009/08/22		109	%	70 - 130
		D8-TOLUENE (sur.)	2009/08/22		97	%	70 - 130
		(C6-C10)	2009/08/22		108	%	70 - 130
	Spiked Blank	4-BROMOFLUOROBENZENE (sur.)	2009/08/24		97	%	70 - 130
		D4-1,2-DICHLOROETHANE (sur.)	2009/08/24		99	%	70 - 130
		D8-TOLUENE (sur.)	2009/08/24		102	%	70 - 130
		(C6-C10)	2009/08/24		104	%	80 - 120
	Method Blank	4-BROMOFLUOROBENZENE (sur.)	2009/08/24		95	%	70 - 130
		D4-1,2-DICHLOROETHANE (sur.)	2009/08/24		114	%	70 - 130

SILA REMEDIATION
Attention: ANDREW PASSALIS
Client Project #: CAM-3
P.O. #:
Site Reference: SHEPHERD BAY

Quality Assurance Report (Continued)

Maxxam Job Number: EA944529

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
3364681 DR3	Method Blank	D8-TOLUENE (sur.)	2009/08/24		98	%	70 - 130
		F1 (C6-C10) - BTEX	2009/08/24	<100		ug/L	
		(C6-C10)	2009/08/24	<100		ug/L	
	RPD	F1 (C6-C10) - BTEX	2009/08/23	NC		%	40
		(C6-C10)	2009/08/23	NC		%	40
3364806 JP6	Method Blank	Moisture	2009/08/20	<0.3		%	
	RPD [Q33791-01]	Moisture	2009/08/20	18.9		%	20
3365216 KO	Spiked Blank	F2 (C10-C16 Hydrocarbons)	2009/08/24		110	%	80 - 120
		F3 (C16-C34 Hydrocarbons)	2009/08/24		104	%	80 - 120
		O-TERPHENYL (sur.)	2009/08/24		114	%	70 - 130
	Method Blank	F2 (C10-C16 Hydrocarbons)	2009/08/24	<0.1		mg/L	
		F3 (C16-C34 Hydrocarbons)	2009/08/24	<0.1		mg/L	
		O-TERPHENYL (sur.)	2009/08/24		116	%	70 - 130
3367151 EO1	Calibration Check	Total Arsenic (As)	2009/08/24		88	%	80 - 120
		Total Cadmium (Cd)	2009/08/24		94	%	80 - 120
		Total Chromium (Cr)	2009/08/24		91	%	80 - 120
		Total Cobalt (Co)	2009/08/24		89	%	80 - 120
		Total Copper (Cu)	2009/08/24		92	%	80 - 120
		Total Lead (Pb)	2009/08/24		93	%	80 - 120
		Total Mercury (Hg)	2009/08/24		103	%	80 - 120
		Total Nickel (Ni)	2009/08/24		90	%	80 - 120
		Total Zinc (Zn)	2009/08/24		116	%	80 - 120
	Matrix Spike [Q33795-01]	Total Arsenic (As)	2009/08/24		81	%	75 - 125
		Total Cadmium (Cd)	2009/08/24		89	%	75 - 125
		Total Chromium (Cr)	2009/08/24		85	%	75 - 125
		Total Cobalt (Co)	2009/08/24		81	%	75 - 125
		Total Copper (Cu)	2009/08/24		76	%	75 - 125
		Total Lead (Pb)	2009/08/24		83	%	75 - 125
		Total Mercury (Hg)	2009/08/24		96	%	75 - 125
		Total Nickel (Ni)	2009/08/24		79	%	75 - 125
		Total Zinc (Zn)	2009/08/24		77	%	75 - 125
	QC Standard	Total Arsenic (As)	2009/08/24		88	%	72 - 128
		Total Chromium (Cr)	2009/08/24		63	%	50 - 150
		Total Cobalt (Co)	2009/08/24		101	%	75 - 125
		Total Copper (Cu)	2009/08/24		81	%	72 - 127
		Total Lead (Pb)	2009/08/24		90	%	65 - 135
		Total Mercury (Hg)	2009/08/24		100	%	75 - 125
		Total Nickel (Ni)	2009/08/24		91	%	75 - 125
		Total Zinc (Zn)	2009/08/24		83	%	74 - 125
	Method Blank	Total Arsenic (As)	2009/08/24	<1		mg/kg	
		Total Cadmium (Cd)	2009/08/24	<0.1		mg/kg	
		Total Chromium (Cr)	2009/08/24	<1		mg/kg	
		Total Cobalt (Co)	2009/08/24	<1		mg/kg	
		Total Copper (Cu)	2009/08/24	<5		mg/kg	
		Total Lead (Pb)	2009/08/24	<1		mg/kg	
		Total Mercury (Hg)	2009/08/24	<0.05		mg/kg	
		Total Nickel (Ni)	2009/08/24	<1		mg/kg	
		Total Zinc (Zn)	2009/08/24	<10		mg/kg	
	RPD [Q33795-01]	Total Arsenic (As)	2009/08/24	NC		%	35
		Total Cadmium (Cd)	2009/08/24	NC		%	35
		Total Chromium (Cr)	2009/08/24	7.0		%	35
		Total Cobalt (Co)	2009/08/24	NC		%	35
		Total Copper (Cu)	2009/08/24	NC		%	35
		Total Lead (Pb)	2009/08/24	3.5		%	35

SILA REMEDIATION
Attention: ANDREW PASSALIS
Client Project #: CAM-3
P.O. #:
Site Reference: SHEPHERD BAY

Quality Assurance Report (Continued)

Maxxam Job Number: EA944529

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
3367151 EO1	RPD [Q33795-01]	Total Mercury (Hg)	2009/08/24	NC		%	35
		Total Nickel (Ni)	2009/08/24	5.4		%	35
		Total Zinc (Zn)	2009/08/24	NC		%	35
3367675 RB3	Calibration Check	Total Mercury (Hg)	2009/08/24		90	%	85 - 115
	Matrix Spike						
	[Q33869-01]	Total Mercury (Hg)	2009/08/24		103	%	85 - 115
	Spiked Blank	Total Mercury (Hg)	2009/08/24		91	%	85 - 115
3368172 RI3	Method Blank	Total Mercury (Hg)	2009/08/24	<0.005		ug/L	
	Matrix Spike						
	[Q33795-01]	Soluble (Hot water) Boron (B)	2009/08/24		80	%	75 - 125
	Method Blank	Soluble (Hot water) Boron (B)	2009/08/24	<0.1		mg/kg	
3371712 PC1	Calibration Check	RPD [Q33795-01]	2009/08/24	NC		%	
		Total Arsenic (As)	2009/08/27		96	%	80 - 120
		Total Cadmium (Cd)	2009/08/27		90	%	80 - 120
		Total Chromium (Cr)	2009/08/27		116	%	80 - 120
		Total Cobalt (Co)	2009/08/27		115	%	80 - 120
		Total Copper (Cu)	2009/08/27		109	%	80 - 120
		Total Lead (Pb)	2009/08/27		103	%	80 - 120
		Total Nickel (Ni)	2009/08/27		112	%	80 - 120
		Total Zinc (Zn)	2009/08/27		80	%	80 - 120
		Matrix Spike					
		Total Arsenic (As)	2009/08/27		92	%	80 - 120
		Total Cadmium (Cd)	2009/08/27		93	%	80 - 120
		Total Chromium (Cr)	2009/08/27		104	%	80 - 120
		Total Cobalt (Co)	2009/08/27		106	%	80 - 120
		Total Copper (Cu)	2009/08/27		100	%	80 - 120
	Method Blank	Total Lead (Pb)	2009/08/27		96	%	80 - 120
		Total Nickel (Ni)	2009/08/27		107	%	80 - 120
		Total Zinc (Zn)	2009/08/27		103	%	80 - 120
		Total Arsenic (As)	2009/08/26	<0.0002		mg/L	
		Total Cadmium (Cd)	2009/08/26	<0.000005		mg/L	
		Total Chromium (Cr)	2009/08/26	<0.001		mg/L	
		Total Cobalt (Co)	2009/08/26	<0.0003		mg/L	
		Total Copper (Cu)	2009/08/26	<0.0002		mg/L	
		Total Lead (Pb)	2009/08/26	<0.0002		mg/L	
		Total Nickel (Ni)	2009/08/26	<0.0005		mg/L	
		Total Zinc (Zn)	2009/08/26	<0.003		mg/L	
	RPD	Total Arsenic (As)	2009/08/26	1.4		%	20
		Total Chromium (Cr)	2009/08/26	NC		%	20
		Total Cobalt (Co)	2009/08/26	NC		%	20
		Total Copper (Cu)	2009/08/26	NC		%	20
		Total Lead (Pb)	2009/08/26	NC		%	20
		Total Nickel (Ni)	2009/08/26	NC		%	20
		Total Zinc (Zn)	2009/08/26	NC		%	20

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

Calibration Check: A calibration standard analyzed at different times to evaluate on-going calibration accuracy.

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

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

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.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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.

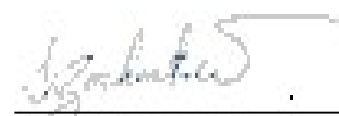
Validation Signature Page

Maxxam Job #: A944529

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



DINA TLEUGABULOVA, Ph.D., Scientific Specialist



DIANE ZACHARKIW, Scientific Specialist



HUA WO, Organics Supervisor



JIM TJATHAS, Analyst 2



LISA CUMMINGS, Extractables Supervisor

Validation Signature Page

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



RON VENZI, Scientific Specialist

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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. SCC and CALA have approved this reporting process and electronic report format.