

Your C.O.C. #: A058426

Attention: Kyle Conway
SHEAR DIAMONDS
SUITE 220
6 ADELAIDE STREET EAST
TORONTO, ON
CANADA M5C 1H6

Report Date: 2012/06/27

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

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B246481
Received: 2012/06/05, 8:40

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO ₃ ,HCO ₃ ,OH (1)	1	N/A	2012/06/06	AB SOP-00005	SM 2320-B
See Attached Results (1)	1	N/A	2012/06/18		
Biochemical Oxygen Demand (1)	1	2012/06/06	2012/06/11	AB SOP-00017	SM 5210 B
Chloride by Automated Colourimetry (1)	1	N/A	2012/06/07	AB SOP-00020	EPA 325.2
Conductivity @25C (1)	1	N/A	2012/06/06	AB SOP-00005	SM 2510-B
Ecotox Report Attachment (2)	1	2012/06/21	2012/06/21		
Hardness Total (calculated as CaCO ₃) (2)	1	N/A	2012/06/07	BBY WI-00033	Calculated Parameter
Hardness (calculated as CaCO ₃) (2)	1	N/A	2012/06/07	BBY WI-00033	Calculated Parameter
Mercury (Dissolved-LowLevel) by CVAF (2)	1	N/A	2012/06/08	65-A-011	EPA 1631B
Mercury (Total-LowLevel) by CVAF (2)	1	2012/06/07	2012/06/07	65-A-011	EPA 1631B
Ion Balance (1)	1	N/A	2012/06/07	AB WI-00065	SM 1030E
Sum of cations, anions (1)	1	N/A	2012/06/07	AB WI-00065	SM 1030E
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (2)	1	N/A	2012/06/07	BBY7SOP-00002	EPA 6020A
Elements by ICPMS Low Level (dissolved) (2)	1	N/A	2012/06/07	BBY7SOP-00002	EPA 6020A
Na, K, Ca, Mg, S by CRC ICPMS (total) (2)	1	N/A	2012/06/07	BBY7SOP-00002	EPA 6020A
Elements by ICPMS Low Level (total) (2)	1	N/A	2012/06/07	BBY7SOP-00002	EPA 6020A
Ammonia-N (Total) (1)	1	N/A	2012/06/06	AB SOP-00007	EPA 350.1
Nitrate and Nitrite (1)	1	N/A	2012/06/07	AB SOP-00023	SM4110B
Nitrate + Nitrite-N (calculated) (1)	1	N/A	2012/06/07	AB SOP-00023	SM 4110-B
Nitrogen, (Nitrite, Nitrate) by IC (1)	1	N/A	2012/06/07	AB SOP-00023	SM 4110-B
Filter and HNO ₃ Preserve for Metals (2)	1	N/A	2012/06/07	BBY6WI-00001	EPA 200.2
pH @25°C (Alkalinity titrator) (1)	1	N/A	2012/06/06	AB SOP-00005	SM 4500-H+B
Orthophosphate by Konelab (1)	1	N/A	2012/06/06	AB SOP-00025	SM 4500-P
Sulphate by Automated Colourimetry (1)	1	N/A	2012/06/07	AB SOP-00018	EPA 375.4
Total Dissolved Solids (Filt. Residue) (1)	1	2012/06/06	2012/06/06	EENVSOP-00072	SM 2540-C
Total Dissolved Solids (Calculated) (1)	1	N/A	2012/06/07	AB WI-00065	SM 1030E
Hydrocarbons (C10-C30) in Water - GC/FID (1)	1	2012/06/07	2012/06/07	AB SOP-00040 AB SOP-00037	EPA3510C/CCME PHCCWS
Carbon (Inorganic)	1	N/A	2012/06/07	CAL SOP-00076	SM 5310-A,C
Carbon (Total Organic) (1)	1	N/A	2012/06/07	EENVSOP-00060	MMCW 119
Total Phosphorous (1)	1	2012/06/07	2012/06/08	AB SOP-00024	SM 4500-P
Total Suspended Solids (NFR) (1)	1	2012/06/07	2012/06/07	EENVSOP-00073	SM 2540 D
Turbidity (1)	1	N/A	2012/06/07	EENVSOP-00066	SM 2130B

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

- (1) This test was performed by Maxxam Edmonton Environmental
- (2) This test was performed by Maxxam Vancouver

Encryption Key

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

Ioana Stoica, Project Manager
Email: IStoica@maxxam.ca
Phone# (403) 291-3077

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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.

Total cover pages: 1

SHEAR DIAMONDS

Maxxam Job #: B246481
Report Date: 2012/06/27

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		DP0387	DP0387		
Sampling Date		2012/06/04	2012/06/04		
COC Number		A058426	A058426		
	UNITS	JER-SWQ-04	JER-SWQ-04 Lab-Dup	RDL	QC Batch
Calculated Parameters					
No Parameter	N/A	ATTACHED	N/A	N/A	5943033
Industrial					
Remark	N/A	SEE ATTACH	N/A	N/A	5923406
Calculated Parameters					
Anion Sum	meq/L	1.1	N/A	N/A	5896716
Cation Sum	meq/L	1.1	N/A	N/A	5896716
Filter and HNO3 Preservation	N/A	FIELD	N/A	N/A	ONSITE
Total Hardness (CaCO3)	mg/L	41.4	N/A	0.50	5893701
Ion Balance	N/A	1.0	N/A	0.010	5896715
Dissolved Nitrate (NO3)	mg/L	5.7	N/A	0.013	5896717
Nitrate plus Nitrite (N)	mg/L	1.3	N/A	0.0030	5896718
Dissolved Nitrite (NO2)	mg/L	0.018	N/A	0.0099	5896717
Total Dissolved Solids	mg/L	62	N/A	10	5894703
Demand Parameters					
Biochemical Oxygen Demand	mg/L	<2.0	N/A	2.0	5911640
Misc. Inorganics					
Conductivity	uS/cm	110	N/A	1.0	5897684
Dissolved Hardness (CaCO3)	mg/L	41.2	N/A	0.50	5894405
pH	N/A	7.41	N/A	N/A	5897682
Total Organic Carbon (C)	mg/L	2.3	N/A	0.50	5900963
Total Dissolved Solids	mg/L	110	N/A	10	5899083
Total Suspended Solids	mg/L	1.2	N/A	1.0	5900783
Anions					
Alkalinity (PP as CaCO3)	mg/L	<0.50	N/A	0.50	5897665
Alkalinity (Total as CaCO3)	mg/L	33	N/A	0.50	5897665
Bicarbonate (HCO3)	mg/L	40	N/A	0.50	5897665
Carbonate (CO3)	mg/L	<0.50	N/A	0.50	5897665
Hydroxide (OH)	mg/L	<0.50	N/A	0.50	5897665
Dissolved Sulphate (SO4)	mg/L	12	N/A	1.0	5900404
Dissolved Chloride (Cl)	mg/L	3.1	N/A	1.0	5900401
Nutrients					
Total Ammonia (N)	mg/L	<0.050	N/A	0.050	5897835
N/A = Not Applicable RDL = Reportable Detection Limit					

SHEAR DIAMONDS

Maxxam Job #: B246481
Report Date: 2012/06/27

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		DP0387	DP0387		
Sampling Date		2012/06/04	2012/06/04		
COC Number		A058426	A058426		
	UNITS	JER-SWQ-04	JER-SWQ-04 Lab-Dup	RDL	QC Batch

Total Inorganic Carbon (C)	mg/L	7.4	7.4	0.50	5901055
Orthophosphate (P)	mg/L	<0.0030	N/A	0.0030	5898736
Total Phosphorus (P)	mg/L	0.0090	N/A	0.0030	5901392
Dissolved Nitrite (N)	mg/L	0.0054	N/A	0.0030	5899086
Dissolved Nitrate (N)	mg/L	1.3	N/A	0.0030	5899086
Physical Properties					
Turbidity	NTU	1.8	N/A	0.10	5901623

N/A = Not Applicable
RDL = Reportable Detection Limit

Maxxam Job #: B246481
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MERCURY BY COLD VAPOR (WATER)

Maxxam ID		DP0387		
Sampling Date		2012/06/04		
COC Number		A058426		
	UNITS	JER-SWQ-04	RDL	QC Batch

Elements				
Dissolved Mercury (Hg)	ug/L	0.0027	0.0020	5904015
Total Mercury (Hg)	ug/L	<0.0020	0.0020	5901591

RDL = Reportable Detection Limit

Maxxam Job #: B246481
Report Date: 2012/06/27

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		DP0387		
Sampling Date		2012/06/04		
COC Number		A058426		
	UNITS	JER-SWQ-04	RDL	QC Batch

Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	22.3	0.20	5900548
Dissolved Antimony (Sb)	ug/L	0.086	0.020	5900548
Dissolved Arsenic (As)	ug/L	0.236	0.020	5900548
Dissolved Barium (Ba)	ug/L	20.0	0.020	5900548
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	5900548
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	5900548
Dissolved Boron (B)	ug/L	<50	50	5900548
Dissolved Cadmium (Cd)	ug/L	0.0061	0.0050	5900548
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	5900548
Dissolved Cobalt (Co)	ug/L	0.107	0.0050	5900548
Dissolved Copper (Cu)	ug/L	1.45	0.050	5900548
Dissolved Iron (Fe)	ug/L	28.6	1.0	5900548
Dissolved Lead (Pb)	ug/L	0.0432	0.0050	5900548
Dissolved Lithium (Li)	ug/L	0.60	0.50	5900548
Dissolved Manganese (Mn)	ug/L	29.5	0.050	5900548
Dissolved Molybdenum (Mo)	ug/L	1.75	0.050	5900548
Dissolved Nickel (Ni)	ug/L	1.35	0.020	5900548
Dissolved Selenium (Se)	ug/L	0.054	0.040	5900548
Dissolved Silicon (Si)	ug/L	560	100	5900548
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	5900548
Dissolved Strontium (Sr)	ug/L	145	0.050	5900548
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	5900548
Dissolved Tin (Sn)	ug/L	<0.20	0.20	5900548
Dissolved Titanium (Ti)	ug/L	0.53	0.50	5900548
Dissolved Uranium (U)	ug/L	3.80	0.0020	5900548
Dissolved Vanadium (V)	ug/L	<0.20	0.20	5900548
Dissolved Zinc (Zn)	ug/L	2.56	0.10	5900548
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	5900548
Dissolved Calcium (Ca)	mg/L	8.07	0.050	5894525
Dissolved Magnesium (Mg)	mg/L	5.10	0.050	5894525
Dissolved Potassium (K)	mg/L	3.39	0.050	5894525
Dissolved Sodium (Na)	mg/L	4.63	0.050	5894525
Dissolved Sulphur (S)	mg/L	<10	10	5894525
RDL = Reportable Detection Limit				

Maxxam Job #: B246481
Report Date: 2012/06/27

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		DP0387		
Sampling Date		2012/06/04		
COC Number		A058426		
	UNITS	JER-SWQ-04	RDL	QC Batch

Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	42.4	0.20	5900558
Total Antimony (Sb)	ug/L	0.081	0.020	5900558
Total Arsenic (As)	ug/L	0.265	0.020	5900558
Total Barium (Ba)	ug/L	20.6	0.020	5900558
Total Beryllium (Be)	ug/L	<0.010	0.010	5900558
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	5900558
Total Boron (B)	ug/L	<50	50	5900558
Total Cadmium (Cd)	ug/L	0.0084	0.0050	5900558
Total Chromium (Cr)	ug/L	0.12	0.10	5900558
Total Cobalt (Co)	ug/L	0.124	0.0050	5900558
Total Copper (Cu)	ug/L	1.52	0.050	5900558
Total Iron (Fe)	ug/L	61.6	1.0	5900558
Total Lead (Pb)	ug/L	0.0676	0.0050	5900558
Total Lithium (Li)	ug/L	0.64	0.50	5900558
Total Manganese (Mn)	ug/L	31.9	0.050	5900558
Total Molybdenum (Mo)	ug/L	1.88	0.050	5900558
Total Nickel (Ni)	ug/L	1.54	0.020	5900558
Total Selenium (Se)	ug/L	0.181	0.040	5900558
Total Silicon (Si)	ug/L	659	100	5900558
Total Silver (Ag)	ug/L	<0.0050	0.0050	5900558
Total Strontium (Sr)	ug/L	146	0.050	5900558
Total Thallium (Tl)	ug/L	0.0032	0.0020	5900558
Total Tin (Sn)	ug/L	<0.20	0.20	5900558
Total Titanium (Ti)	ug/L	0.83	0.50	5900558
Total Uranium (U)	ug/L	3.87	0.0020	5900558
Total Vanadium (V)	ug/L	<0.20	0.20	5900558
Total Zinc (Zn)	ug/L	2.46	0.10	5900558
Total Zirconium (Zr)	ug/L	<0.10	0.10	5900558
Total Calcium (Ca)	mg/L	8.17	0.050	5894707
Total Magnesium (Mg)	mg/L	5.10	0.050	5894707
Total Potassium (K)	mg/L	3.27	0.050	5894707
Total Sodium (Na)	mg/L	4.71	0.050	5894707
Total Sulphur (S)	mg/L	<10	10	5894707
RDL = Reportable Detection Limit				

Maxxam Job #: B246481
Report Date: 2012/06/27

TOTAL PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		DP0387		
Sampling Date		2012/06/04		
COC Number		A058426		
	UNITS	JER-SWQ-04	RDL	QC Batch

Hydrocarbons				
Total Extractables C10 to C30	mg/L	<0.10	0.10	5900516
Surrogate Recovery (%)				
O-TERPHENYL (sur.)	%	99	N/A	5900516
N/A = Not Applicable RDL = Reportable Detection Limit				

SHEAR DIAMONDS

Maxxam Job #: B246481
Report Date: 2012/06/27

Package 1	2.3°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

Results relate only to the items tested.

SHEAR DIAMONDS
Attention: Kyle Conway
Client Project #:
P.O. #:
Site Location:

Quality Assurance Report
Maxxam Job Number: CB246481

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
5897665 CBE	Spiked Blank	Alkalinity (Total as CaCO ₃)	2012/06/06		98	%	80 - 120
	Method Blank	Alkalinity (PP as CaCO ₃)	2012/06/06	<0.50		mg/L	
		Alkalinity (Total as CaCO ₃)	2012/06/06	<0.50		mg/L	
		Bicarbonate (HCO ₃)	2012/06/06	<0.50		mg/L	
		Carbonate (CO ₃)	2012/06/06	<0.50		mg/L	
		Hydroxide (OH)	2012/06/06	<0.50		mg/L	
	RPD	Alkalinity (PP as CaCO ₃)	2012/06/06	NC		%	20
		Alkalinity (Total as CaCO ₃)	2012/06/06	0.7		%	20
		Bicarbonate (HCO ₃)	2012/06/06	0.7		%	20
		Carbonate (CO ₃)	2012/06/06	NC		%	20
		Hydroxide (OH)	2012/06/06	NC		%	20
5897682 CBE	Spiked Blank	pH	2012/06/06		100	%	97 - 103
	RPD	pH	2012/06/06	0.4		%	5
5897684 CBE	Spiked Blank	Conductivity	2012/06/06		98	%	90 - 110
	Method Blank	Conductivity	2012/06/06	1.0, RDL=1.0		uS/cm	
	RPD	Conductivity	2012/06/06	0		%	20
5897835 AL2	Matrix Spike	Total Ammonia (N)	2012/06/06		102	%	80 - 120
	Spiked Blank	Total Ammonia (N)	2012/06/06		107	%	80 - 120
	Method Blank	Total Ammonia (N)	2012/06/06	<0.050		mg/L	
	RPD	Total Ammonia (N)	2012/06/06	NC		%	20
5898736 AL2	Matrix Spike	Orthophosphate (P)	2012/06/06		104	%	80 - 120
	Spiked Blank	Orthophosphate (P)	2012/06/06		102	%	80 - 120
	Method Blank	Orthophosphate (P)	2012/06/06	<0.0030		mg/L	
	RPD	Orthophosphate (P)	2012/06/06	NC		%	20
5899083 TS8	Matrix Spike	Total Dissolved Solids	2012/06/06		102	%	80 - 120
	Spiked Blank	Total Dissolved Solids	2012/06/06		105	%	80 - 120
	Method Blank	Total Dissolved Solids	2012/06/06	<10		mg/L	
	RPD	Total Dissolved Solids	2012/06/06	0		%	20
5899086 DPB	Matrix Spike	Dissolved Nitrite (N)	2012/06/06		91	%	80 - 120
		Dissolved Nitrate (N)	2012/06/06		NC	%	80 - 120
	Spiked Blank	Dissolved Nitrite (N)	2012/06/06		102	%	80 - 120
		Dissolved Nitrate (N)	2012/06/06		104	%	90 - 110
	Method Blank	Dissolved Nitrite (N)	2012/06/06	<0.0030		mg/L	
		Dissolved Nitrate (N)	2012/06/06	<0.0030		mg/L	
	RPD	Dissolved Nitrite (N)	2012/06/07	NC		%	20
		Dissolved Nitrate (N)	2012/06/07	2.6		%	20
5900401 BA3	Matrix Spike	Dissolved Chloride (Cl)	2012/06/07		NC	%	80 - 120
	Spiked Blank	Dissolved Chloride (Cl)	2012/06/07		95	%	80 - 120
	Method Blank	Dissolved Chloride (Cl)	2012/06/07	<1.0		mg/L	
	RPD	Dissolved Chloride (Cl)	2012/06/07	1.5		%	20
5900404 BA3	Matrix Spike	Dissolved Sulphate (SO ₄)	2012/06/07		NC	%	80 - 120
	Spiked Blank	Dissolved Sulphate (SO ₄)	2012/06/07		106	%	80 - 120
	Method Blank	Dissolved Sulphate (SO ₄)	2012/06/07	<1.0		mg/L	
	RPD	Dissolved Sulphate (SO ₄)	2012/06/07	0.8		%	20
5900516 JR1	Spiked Blank	O-TERPHENYL (sur.)	2012/06/07		94	%	50 - 130
		Total Extractables C10 to C30	2012/06/07		102	%	70 - 130
	Method Blank	O-TERPHENYL (sur.)	2012/06/07		107	%	50 - 130
		Total Extractables C10 to C30	2012/06/07	<0.10		mg/L	
5900548 AA1	Matrix Spike	Dissolved Aluminum (Al)	2012/06/07		103	%	80 - 120
		Dissolved Antimony (Sb)	2012/06/07		107	%	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		100	%	80 - 120
		Dissolved Bismuth (Bi)	2012/06/07		101	%	80 - 120
		Dissolved Cadmium (Cd)	2012/06/07		103	%	80 - 120

SHEAR DIAMONDS
Attention: Kyle Conway
Client Project #:
P.O. #:
Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: CB246481

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
5900548 AA1	Matrix Spike	Dissolved Chromium (Cr)	2012/06/07		102	%	80 - 120
		Dissolved Cobalt (Co)	2012/06/07		99	%	80 - 120
		Dissolved Copper (Cu)	2012/06/07		99	%	80 - 120
		Dissolved Iron (Fe)	2012/06/07		103	%	80 - 120
		Dissolved Lead (Pb)	2012/06/07		99	%	80 - 120
		Dissolved Lithium (Li)	2012/06/07		97	%	80 - 120
		Dissolved Manganese (Mn)	2012/06/07		100	%	80 - 120
		Dissolved Molybdenum (Mo)	2012/06/07		100	%	80 - 120
		Dissolved Nickel (Ni)	2012/06/07		101	%	80 - 120
		Dissolved Selenium (Se)	2012/06/07		111	%	80 - 120
		Dissolved Silver (Ag)	2012/06/07		107	%	80 - 120
		Dissolved Strontium (Sr)	2012/06/07		NC	%	80 - 120
		Dissolved Thallium (Tl)	2012/06/07		109	%	80 - 120
		Dissolved Tin (Sn)	2012/06/07		106	%	80 - 120
		Dissolved Titanium (Ti)	2012/06/07		99	%	80 - 120
		Dissolved Uranium (U)	2012/06/07		103	%	80 - 120
		Dissolved Vanadium (V)	2012/06/07		108	%	80 - 120
		Dissolved Zinc (Zn)	2012/06/07		103	%	80 - 120
	Spiked Blank	Dissolved Aluminum (Al)	2012/06/07		101	%	80 - 120
		Dissolved Antimony (Sb)	2012/06/07		101	%	80 - 120
		Dissolved Arsenic (As)	2012/06/07		101	%	80 - 120
		Dissolved Barium (Ba)	2012/06/07		99	%	80 - 120
		Dissolved Beryllium (Be)	2012/06/07		99	%	80 - 120
		Dissolved Bismuth (Bi)	2012/06/07		98	%	80 - 120
		Dissolved Cadmium (Cd)	2012/06/07		99	%	80 - 120
		Dissolved Chromium (Cr)	2012/06/07		101	%	80 - 120
		Dissolved Cobalt (Co)	2012/06/07		102	%	80 - 120
		Dissolved Copper (Cu)	2012/06/07		101	%	80 - 120
		Dissolved Iron (Fe)	2012/06/07		104	%	80 - 120
		Dissolved Lead (Pb)	2012/06/07		101	%	80 - 120
		Dissolved Lithium (Li)	2012/06/07		99	%	80 - 120
		Dissolved Manganese (Mn)	2012/06/07		101	%	80 - 120
		Dissolved Molybdenum (Mo)	2012/06/07		95	%	80 - 120
		Dissolved Nickel (Ni)	2012/06/07		102	%	80 - 120
		Dissolved Selenium (Se)	2012/06/07		103	%	80 - 120
		Dissolved Silver (Ag)	2012/06/07		101	%	80 - 120
		Dissolved Strontium (Sr)	2012/06/07		95	%	80 - 120
		Dissolved Thallium (Tl)	2012/06/07		109	%	80 - 120
	Method Blank	Dissolved Tin (Sn)	2012/06/07		96	%	80 - 120
		Dissolved Titanium (Ti)	2012/06/07		97	%	80 - 120
		Dissolved Uranium (U)	2012/06/07		98	%	80 - 120
		Dissolved Vanadium (V)	2012/06/07		102	%	80 - 120
		Dissolved Zinc (Zn)	2012/06/07		102	%	80 - 120
		Dissolved Aluminum (Al)	2012/06/07	<0.20		ug/L	
		Dissolved Antimony (Sb)	2012/06/07	<0.020		ug/L	
		Dissolved Arsenic (As)	2012/06/07	<0.020		ug/L	
		Dissolved Barium (Ba)	2012/06/07	<0.020		ug/L	
		Dissolved Beryllium (Be)	2012/06/07	<0.010		ug/L	
		Dissolved Bismuth (Bi)	2012/06/07	<0.0050		ug/L	
		Dissolved Boron (B)	2012/06/07	<50		ug/L	
		Dissolved Cadmium (Cd)	2012/06/07	<0.0050		ug/L	
		Dissolved Chromium (Cr)	2012/06/07	<0.10		ug/L	
		Dissolved Cobalt (Co)	2012/06/07	<0.0050		ug/L	
		Dissolved Copper (Cu)	2012/06/07	<0.050		ug/L	
		Dissolved Iron (Fe)	2012/06/07	<1.0		ug/L	

SHEAR DIAMONDS
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Quality Assurance Report (Continued)

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QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
5900548 AA1	Method Blank	Dissolved Lead (Pb)	2012/06/07	<0.0050		ug/L	
		Dissolved Lithium (Li)	2012/06/07	<0.50		ug/L	
		Dissolved Manganese (Mn)	2012/06/07	<0.050		ug/L	
		Dissolved Molybdenum (Mo)	2012/06/07	<0.050		ug/L	
		Dissolved Nickel (Ni)	2012/06/07	<0.020		ug/L	
		Dissolved Selenium (Se)	2012/06/07	<0.040		ug/L	
		Dissolved Silicon (Si)	2012/06/07	<100		ug/L	
		Dissolved Silver (Ag)	2012/06/07	<0.0050		ug/L	
		Dissolved Strontium (Sr)	2012/06/07	<0.050		ug/L	
		Dissolved Thallium (Tl)	2012/06/07	<0.0020		ug/L	
		Dissolved Tin (Sn)	2012/06/07	<0.20		ug/L	
		Dissolved Titanium (Ti)	2012/06/07	<0.50		ug/L	
		Dissolved Uranium (U)	2012/06/07	<0.0020		ug/L	
		Dissolved Vanadium (V)	2012/06/07	0.22, RDL=0.20		ug/L	
		Dissolved Zinc (Zn)	2012/06/07	<0.10		ug/L	
		Dissolved Zirconium (Zr)	2012/06/07	<0.10		ug/L	
	RPD	Dissolved Lead (Pb)	2012/06/07	10.5		%	20
		Dissolved Zinc (Zn)	2012/06/07	5.3		%	20
5900558 AA1	Matrix Spike	Total Aluminum (Al)	2012/06/07		101	%	80 - 120
		Total Antimony (Sb)	2012/06/07		103	%	80 - 120
		Total Arsenic (As)	2012/06/07		102	%	80 - 120
		Total Barium (Ba)	2012/06/07		NC	%	80 - 120
		Total Beryllium (Be)	2012/06/07		97	%	80 - 120
		Total Bismuth (Bi)	2012/06/07		91	%	80 - 120
		Total Cadmium (Cd)	2012/06/07		98	%	80 - 120
		Total Chromium (Cr)	2012/06/07		98	%	80 - 120
		Total Cobalt (Co)	2012/06/07		93	%	80 - 120
		Total Copper (Cu)	2012/06/07		91	%	80 - 120
		Total Iron (Fe)	2012/06/07		NC	%	80 - 120
		Total Lead (Pb)	2012/06/07		92	%	80 - 120
		Total Lithium (Li)	2012/06/07		95	%	80 - 120
		Total Manganese (Mn)	2012/06/07		NC	%	80 - 120
		Total Molybdenum (Mo)	2012/06/07		NC	%	80 - 120
		Total Nickel (Ni)	2012/06/07		NC	%	80 - 120
		Total Selenium (Se)	2012/06/07		114	%	80 - 120
		Total Silver (Ag)	2012/06/07		93	%	80 - 120
		Total Strontium (Sr)	2012/06/07		NC	%	80 - 120
		Total Thallium (Tl)	2012/06/07		101	%	80 - 120
	Spiked Blank	Total Tin (Sn)	2012/06/07		106	%	80 - 120
		Total Titanium (Ti)	2012/06/07		108	%	80 - 120
		Total Uranium (U)	2012/06/07		97	%	80 - 120
		Total Vanadium (V)	2012/06/07		108	%	80 - 120
		Total Zinc (Zn)	2012/06/07		92	%	80 - 120
		Total Aluminum (Al)	2012/06/07		97	%	80 - 120
		Total Antimony (Sb)	2012/06/07		99	%	80 - 120
		Total Arsenic (As)	2012/06/07		99	%	80 - 120
		Total Barium (Ba)	2012/06/07		98	%	80 - 120
		Total Beryllium (Be)	2012/06/07		98	%	80 - 120
		Total Bismuth (Bi)	2012/06/07		98	%	80 - 120
		Total Cadmium (Cd)	2012/06/07		99	%	80 - 120
		Total Chromium (Cr)	2012/06/07		98	%	80 - 120
		Total Cobalt (Co)	2012/06/07		98	%	80 - 120
		Total Copper (Cu)	2012/06/07		99	%	80 - 120
		Total Iron (Fe)	2012/06/07		104	%	80 - 120
		Total Lead (Pb)	2012/06/07		99	%	80 - 120

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5900558 AA1	Spiked Blank	Total Lithium (Li)	2012/06/07		97	%	80 - 120
		Total Manganese (Mn)	2012/06/07		98	%	80 - 120
		Total Molybdenum (Mo)	2012/06/07		101	%	80 - 120
		Total Nickel (Ni)	2012/06/07		99	%	80 - 120
		Total Selenium (Se)	2012/06/07		105	%	80 - 120
		Total Silver (Ag)	2012/06/07		106	%	80 - 120
		Total Strontium (Sr)	2012/06/07		95	%	80 - 120
		Total Thallium (Tl)	2012/06/07		106	%	80 - 120
		Total Tin (Sn)	2012/06/07		99	%	80 - 120
		Total Titanium (Ti)	2012/06/07		95	%	80 - 120
		Total Uranium (U)	2012/06/07		97	%	80 - 120
		Total Vanadium (V)	2012/06/07		101	%	80 - 120
		Total Zinc (Zn)	2012/06/07		97	%	80 - 120
	Method Blank	Total Aluminum (Al)	2012/06/07	<0.20		ug/L	
		Total Antimony (Sb)	2012/06/07	<0.020		ug/L	
		Total Arsenic (As)	2012/06/07	<0.020		ug/L	
		Total Barium (Ba)	2012/06/07	<0.020		ug/L	
		Total Beryllium (Be)	2012/06/07	<0.010		ug/L	
		Total Bismuth (Bi)	2012/06/07	<0.0050		ug/L	
		Total Boron (B)	2012/06/07	<50		ug/L	
		Total Cadmium (Cd)	2012/06/07	<0.0050		ug/L	
		Total Chromium (Cr)	2012/06/07	<0.10		ug/L	
		Total Cobalt (Co)	2012/06/07	<0.0050		ug/L	
		Total Copper (Cu)	2012/06/07	<0.050		ug/L	
		Total Iron (Fe)	2012/06/07	<1.0		ug/L	
		Total Lead (Pb)	2012/06/07	<0.0050		ug/L	
	RPD	Total Lithium (Li)	2012/06/07	<0.50		ug/L	
		Total Manganese (Mn)	2012/06/07	<0.050		ug/L	
		Total Molybdenum (Mo)	2012/06/07	<0.050		ug/L	
		Total Nickel (Ni)	2012/06/07	<0.020		ug/L	
		Total Selenium (Se)	2012/06/07	<0.040		ug/L	
		Total Silicon (Si)	2012/06/07	<100		ug/L	
		Total Silver (Ag)	2012/06/07	<0.0050		ug/L	
		Total Strontium (Sr)	2012/06/07	<0.050		ug/L	
		Total Thallium (Tl)	2012/06/07	<0.0020		ug/L	
		Total Tin (Sn)	2012/06/07	<0.20		ug/L	
		Total Titanium (Ti)	2012/06/07	<0.50		ug/L	
		Total Uranium (U)	2012/06/07	<0.0020		ug/L	
		Total Vanadium (V)	2012/06/07	<0.20		ug/L	
		Total Zinc (Zn)	2012/06/07	<0.10		ug/L	
		Total Zirconium (Zr)	2012/06/07	<0.10		ug/L	
		Total Aluminum (Al)	2012/06/07	3.0		%	20
		Total Antimony (Sb)	2012/06/07	3.3		%	20
		Total Arsenic (As)	2012/06/07	4.2		%	20
		Total Barium (Ba)	2012/06/07	3.4		%	20
		Total Beryllium (Be)	2012/06/07	NC		%	20
		Total Bismuth (Bi)	2012/06/07	NC		%	20
		Total Boron (B)	2012/06/07	9.5		%	20
		Total Cadmium (Cd)	2012/06/07	NC		%	20
		Total Chromium (Cr)	2012/06/07	4.5		%	20
		Total Cobalt (Co)	2012/06/07	0.6		%	20
		Total Copper (Cu)	2012/06/07	NC		%	20
		Total Iron (Fe)	2012/06/07	0.3		%	20
		Total Lead (Pb)	2012/06/07	NC		%	20
		Total Lithium (Li)	2012/06/07	NC		%	20

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QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
5900558 AA1	RPD	Total Manganese (Mn)	2012/06/07	3.3		%	20
		Total Molybdenum (Mo)	2012/06/07	6.5		%	20
		Total Nickel (Ni)	2012/06/07	6.7		%	20
		Total Selenium (Se)	2012/06/07	21.4 (1)		%	20
		Total Silicon (Si)	2012/06/07	1.5		%	20
		Total Silver (Ag)	2012/06/07	NC		%	20
		Total Strontium (Sr)	2012/06/07	1.9		%	20
		Total Thallium (Tl)	2012/06/07	NC		%	20
		Total Tin (Sn)	2012/06/07	NC		%	20
		Total Titanium (Ti)	2012/06/07	NC		%	20
		Total Uranium (U)	2012/06/07	4.4		%	20
		Total Vanadium (V)	2012/06/07	NC		%	20
		Total Zinc (Zn)	2012/06/07	2.3		%	20
		Total Zirconium (Zr)	2012/06/07	NC		%	20
5900783 TS8	Matrix Spike Spiked Blank Method Blank RPD	Total Suspended Solids	2012/06/07		95	%	80 - 120
		Total Suspended Solids	2012/06/07		99	%	80 - 120
		Total Suspended Solids	2012/06/07	<1.0		mg/L	
		Total Suspended Solids	2012/06/07	NC		%	20
5900963 YY	Matrix Spike Spiked Blank Method Blank RPD	Total Organic Carbon (C)	2012/06/07		101	%	80 - 120
		Total Organic Carbon (C)	2012/06/07		99	%	80 - 120
		Total Organic Carbon (C)	2012/06/07	<0.50		mg/L	
		Total Organic Carbon (C)	2012/06/07	1.1		%	20
5901055 AP1	Matrix Spike [DP0387-03] Spiked Blank Method Blank RPD [DP0387-03]	Total Inorganic Carbon (C)	2012/06/07		105	%	80 - 120
		Total Inorganic Carbon (C)	2012/06/07		104	%	80 - 120
		Total Inorganic Carbon (C)	2012/06/07	<0.50		mg/L	
		Total Inorganic Carbon (C)	2012/06/07	0.8		%	20
5901392 AL2	Matrix Spike Spiked Blank Method Blank RPD	Total Phosphorus (P)	2012/06/08		94	%	80 - 120
		Total Phosphorus (P)	2012/06/08		97	%	80 - 120
		Total Phosphorus (P)	2012/06/08	<0.0030		mg/L	
		Total Phosphorus (P)	2012/06/08	NC		%	20
5901591 EL2	Matrix Spike Spiked Blank Method Blank RPD	Total Mercury (Hg)	2012/06/07		98	%	80 - 120
		Total Mercury (Hg)	2012/06/07		97	%	80 - 120
		Total Mercury (Hg)	2012/06/07	<0.0020		ug/L	
		Total Mercury (Hg)	2012/06/07	NC		%	20
5901623 MSD	Spiked Blank Method Blank RPD	Turbidity	2012/06/07		99	%	80 - 120
		Turbidity	2012/06/07	<0.10		NTU	
		Turbidity	2012/06/07	0.5		%	20
5904015 EL2	Matrix Spike Spiked Blank Method Blank RPD	Dissolved Mercury (Hg)	2012/06/08		85	%	80 - 120
		Dissolved Mercury (Hg)	2012/06/08		99	%	80 - 120
		Dissolved Mercury (Hg)	2012/06/08	0.0027, RDL=0.0020		ug/L	
		Dissolved Mercury (Hg)	2012/06/08	NC		%	20
5911640 JKB	Spiked Blank Method Blank RPD	Biochemical Oxygen Demand	2012/06/11		85	%	80 - 110
		Biochemical Oxygen Demand	2012/06/11	<2.0		mg/L	
		Biochemical Oxygen Demand	2012/06/11	0.8		%	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.

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

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.

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QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.							

Maxxam Analytics International Corporation o/a Maxxam Analytics Calgary: 2021 - 41st Avenue N.E. T2E 6P2 Telephone(403) 291-3077 Fax(403) 291-9468

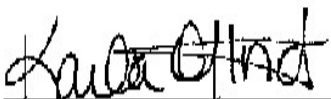
Validation Signature Page

Maxxam Job #: B246481

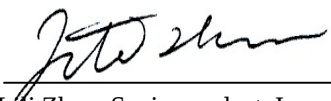
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



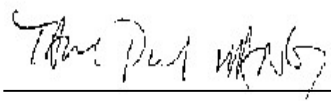
ANDY LU, Data Validation Coordinator



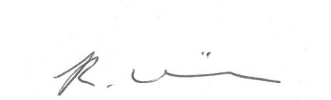
Karla Offord, Senior Analyst, Organics Department



Lili Zhou, Senior analyst, Inorganic department.



Pui Hang Tam, Senior Analyst



Robert Vivian, Senior Analyst

=====

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.

Company:	Invoice To:	C/O Report Address	☐
Contact:	Shear Diamonds		
Address:	Kyle Conway		
	Jericho Mine Site		
Contact #s:	Prov:	PC:	
	Ph: 778-572-2726	Cell:	

Report To:	Same as Invoice	☐
Shear Diamonds		
6 Adelaide St. E, Suite 220		
Toronto ON		
Prov:	ON	PC:
Ph:		Cell:

Report Distribution (E-Mail):
keanway@sheardiamonds.com
w.k.hison@sheardiamonds.com
ah.enviro@yahoo.ca
whineba.ca

REGULATORY GUIDELINES:
☐ AT1
☐ CCME
☐ Regulated Drinking Water
☐ Other:

All samples are held for 60 calendar days after sample receipt, unless specified otherwise.

PO #:
Project # / Name:
Site Location:
Quote #:
Sampled By:

SERVICE REQUESTED:	☒ RUSH (Contact lab to reserve)
	Date Required: _____
	☐ REGULAR (5 to 7 Days)

	Sample ID	Depth (unit)	Matrix GW / SW Soil	Date/Time Sampled YY/MM/DD 24:00	BTEX	Sieve	Regulation	Salinity	Assessment	Basic																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Please indicate Filtered, Preserved or Both (F, P, F/P)

Relinquished By (Signature/Print):	Date (YY/MM/DD):	Time (24:00):
Wes Atkinson	12/06/04	17:00
Relinquished By (Signature/Print):	Date (YY/MM/DD):	Time (24:00):
Special Instructions:	# of Jars Used & Not Submitted	

LAB USE ONLY		
Received By:	Date:	Time:
Amanda		0840
atkinson		
Lab Comments:	Maxxam Job #: B246481	
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