

(In reply, please refer to)
Our File: 092156

March 22nd, 2011

Attention:
Leonie Pameolik, Hamlet of Coral Harbour
Sean Joseph, Nunavut Water Board

Re: Sampling Results

Dear Ms. Pameolik/Mr. Joseph:

Please note that due to flight schedules, and timing of training and site visits, the samples collected during the training exercise most likely did not arrive at the laboratory within the recommended time limits for some of the sampling parameters. As well, there is concern that the coolers used to ship the samples were not kept at cool enough temperatures during transport. Therefore, the attached sampling results (from samples taken during the sampling training exercise on August 13th, 2010) may be compromised. Should you require further information, please do not hesitate to contact me at (867) 920-4555.

Yours truly,

Dillon Consulting Limited



Gary Strong, P.Eng.

GS/encl.

Nunavut Water
Board

MAR 31 2011

Public Registry



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Your Project #: CORAL HARBOUR
Site: COR-3,COR-4A,COR-4B & COR-4C
Your C.O.C. #: 97114-01

Attention: JENNIFER SPENCER
DILLON CONSULTING LTD.
BOX 1409
SUITE 303, 4920 - 47th STREET
YELLOWKNIFE, NT
CANADA X1A ZP1

Report Date: 2010/08/26

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B073525
Received: 2010/08/19, 10:45

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity (pp, total), CO ₃ ,HCO ₃ ,OH	1	N/A	2010/08/21	AB SOP-00005	SM 2320-B
Biochemical Oxygen Demand	1	2010/08/19	2010/08/24	AB SOP-00017	SM 5210 B
Biochemical Oxygen Demand (Inhibited)	1	2010/08/19	2010/08/24	AB SOP-00017	SM 5210 B
Chloride by Automated Colourimetry	1	N/A	2010/08/23	AB SOP-00020	EPA 325.2
Total Coliforms and E.Coli	4	2010/08/19	2010/08/20	EENV SOP-00162	SM 9223 A,B
Conductivity	1	N/A	2010/08/21	AB SOP-00005	SM 2510-B
Hardness	1	N/A	2010/08/25	CAL WI-00053	AEMM, Method 423
Mercury (Total)	4	2010/08/20	2010/08/20	EENV SOP-00031	EPA 245.1
Elements by ICP - Dissolved	1	N/A	2010/08/24	AB SOP-00042	EPA 200.7
Elements by ICP - Total	4	2010/08/24	2010/08/24	AB SOP-00042	EPA 200.7
Elements by ICPMS - Total	4	2010/08/24	2010/08/24	AB SOP-00043	EPA 200.8
Ion Balance	1	N/A	2010/08/25	CAL WI-00053	SM 1030E
Sum of cations, anions	1	N/A	2010/08/25	Calc	
Ammonia-N (Total)	4	N/A	2010/08/23	AB SOP-00007	EPA 350.1
Nitrate and Nitrite	1	N/A	2010/08/25	Calc	
Nitrate + Nitrite-N (calculated)	1	N/A	2010/08/25	AB SOP-00023	SM 4110-B
Nitrogen, (Nitrite, Nitrate) by IC	1	N/A	2010/08/24	AB SOP-00023	SM 4110-B
Oil & Grease (sheen)	1	2010/08/25	2010/08/25	EENV SOP-00121 V.1	
pH (Alkalinity titrator)	1	N/A	2010/08/21	AB SOP-00005	SM 4500-H+B
Phenols (4-AAP)	4	N/A	2010/08/20	EENV SOP-00061	EPA 420.2
Sulphate by Automated Colourimetry	1	N/A	2010/08/23	AB SOP-00018	EPA 375.4
Total Dissolved Solids (Calculated)	1	N/A	2010/08/25		SM 1030E
Total Kjeldahl Nitrogen	4	2010/08/23	2010/08/24	AB SOP-00008	EPA 351.1, 351.2
Carbon (Total Organic)	4	N/A	2010/08/24	EENV SOP-00060	SM 5310C
Total Phosphorous	3	2010/08/24	2010/08/25	EENV SOP-00094	SM - 4500-P B & 4500
Total Phosphorous	1	2010/08/24	2010/08/26	EENV SOP-00094	SM - 4500-P B & 4500
Total Suspended Solids (NFR)	1	2010/08/24	2010/08/24	EENV SOP-00073	SM 2540 D

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Report Date: 2010/08/26

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

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

TANYA EUGINE, M.Sc., Project Manager
Email: tanya.eugine@maxxamanalytics.com
Phone# (780) 577-7100

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Total cover pages: 2

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Maxxam Job #: B073525
Report Date: 2010/08/26

DILLON CONSULTING LTD.
Client Project #: CORAL HARBOUR
Site Reference: COR-3,COR-4A,COR-4B & COR-4C

ROUTINE WATER (WATER)

Maxxam ID		W33054		
Sampling Date				
COC Number		97114-01		
	Units	CORAL HARBOUR COR-3	RDL	QC Batch

Calculated Parameters				
Anion Sum	meq/L	9.7	N/A	4194141
Cation Sum	meq/L	9.1	N/A	4194141
Hardness (CaCO ₃)	mg/L	139	0.5	4194136
Ion Balance	N/A	0.94	0.01	4194138
Dissolved Nitrate (NO ₃)	mg/L	0.5	0.1	4194146
Nitrate plus Nitrite (N)	mg/L	0.11	0.03	4194149
Dissolved Nitrite (NO ₂)	mg/L	<0.1	0.1	4194146
Total Dissolved Solids	mg/L	512	10	4194161
Misc. Inorganics				
Conductivity	uS/cm	1000	1	4197852
pH	N/A	7.50	N/A	4197851
Anions				
Alkalinity (PP as CaCO ₃)	mg/L	<0.5	0.5	4197847
Alkalinity (Total as CaCO ₃)	mg/L	340	0.5	4197847
Bicarbonate (HCO ₃)	mg/L	410	0.5	4197847
Carbonate (CO ₃)	mg/L	<0.5	0.5	4197847
Hydroxide (OH)	mg/L	<0.5	0.5	4197847
Dissolved Sulphate (SO ₄)	mg/L	10	1	4198870
Dissolved Chloride (Cl)	mg/L	97	1	4198868
Nutrients				
Dissolved Nitrite (N)	mg/L	<0.03 (1)	0.03	4205562
Dissolved Nitrate (N)	mg/L	0.11 (1)	0.03	4205562
Elements				
Dissolved Calcium (Ca)	mg/L	46	0.3	4206366
Dissolved Iron (Fe)	mg/L	0.17	0.08	4206366
Dissolved Magnesium (Mg)	mg/L	6.0	0.2	4206366
Dissolved Manganese (Mn)	mg/L	0.077	0.004	4206366
Dissolved Potassium (K)	mg/L	28	0.3	4206366
Dissolved Sodium (Na)	mg/L	100	0.5	4206366

RDL = Reportable Detection Limit
(1) Detection limits raised due to matrix interference



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Site Reference: COR-3, COR-4A, COR-4B & COR-4C

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		W33054		W33189	W33228	W33229		
Sampling Date								
COC Number		97114-01		97114-01	97114-01	97114-01		
	Units	CORAL HARBOUR COR-3	RDL	CORAL HARBOUR COR-4A	CORAL HARBOUR COR-4B	CORAL HARBOUR COR-4C	RDL	QC Batch
CONVENTIONALS								
Total Ammonia (N)	mg/L	16 (1)	1	0.07	<0.05	<0.05	0.05	4199116
Total Phosphorus (P)	mg/L	6.9 (1)	0.2	0.032	0.022	0.013	0.003	4205296
Misc. Inorganics								
Total Total Kjeldahl Nitrogen	mg/L	33 (1)	1	1.7	1.5	0.94	0.05	4202461
Demand Parameters								
Biochemical Oxygen Demand	mg/L	82 (1)	20	N/A	N/A	N/A	N/A	4196913
Biochemical Oxygen Demand (inhib.)	mg/L	60 (1)	20	N/A	N/A	N/A	N/A	4186944
Misc. Inorganics								
Total Organic Carbon (C)	mg/L	17	0.5	15	12	8.2	0.5	4204832
Total Suspended Solids	mg/L	390 (2)	10	N/A	N/A	N/A	N/A	4202706
Microbiological Param.								
E.Coli DST	mpn/100mL	397	1	28	3	4	1	4200490
Total Coliforms DST	mpn/100mL	>2420	1	111	20	6	1	4200490
Misc. Organics								
Phenols	mg/L	0.03 (3)	0.01	<0.002	<0.002	<0.002	0.002	4195301
Physical Properties								
Visible Sheen	N/A	No	N/A	N/A	N/A	N/A	N/A	4209736
N/A = Not Applicable RDL = Reportable Detection Limit (1) Detection limits raised due to dilution to bring analyte within the calibrated range. (2) Detection limit raised based on sample volume used for analysis (3) Detection limits raised due to matrix interference								



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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		W33054		W33189	W33228	W33229		
Sampling Date								
COC Number		97114-01		97114-01	97114-01	97114-01		
	Units	CORAL HARBOUR COR-3	RDL	CORAL HARBOUR COR-4A	CORAL HARBOUR COR-4B	CORAL HARBOUR COR-4C	RDL	QC Batch
Elements								
Total Aluminum (Al)	mg/L	0.22	0.01	0.003	0.004	0.006	0.001	4204050
Total Arsenic (As)	mg/L	0.003	0.002	0.0003	0.0004	<0.0002	0.0002	4204050
Total Cadmium (Cd)	mg/L	<0.00005	0.00005	<0.000005	<0.000005	<0.000005	0.000005	4204050
Total Calcium (Ca)	mg/L	51	0.3	32	32	30	0.3	4204047
Total Chromium (Cr)	mg/L	<0.01	0.01	<0.001	<0.001	<0.001	0.001	4204050
Total Cobalt (Co)	mg/L	<0.003	0.003	<0.0003	<0.0003	<0.0003	0.0003	4204050
Total Copper (Cu)	mg/L	0.011	0.002	0.0009	0.0008	0.0006	0.0002	4204050
Total Iron (Fe)	mg/L	0.45	0.06	0.08	0.08	<0.06	0.06	4204047
Total Lead (Pb)	mg/L	<0.002	0.002	<0.0002	<0.0002	<0.0002	0.0002	4204050
Total Manganese (Mn)	mg/L	0.080	0.004	<0.004	<0.004	<0.004	0.004	4204047
Total Nickel (Ni)	mg/L	<0.005	0.005	0.0009	0.0008	<0.0005	0.0005	4204050
Total Zinc (Zn)	mg/L	<0.03	0.03	<0.003	<0.003	<0.003	0.003	4204050
Low Level Elements								
Total Mercury (Hg)	ug/L	<0.05 (I)	0.05	<0.005	<0.005	<0.005	0.005	4194909
RDL = Reportable Detection Limit (1) Detection limits raised due to sample matrix								



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General Comments

Sample W33054-01: Detection limits raised due to sample matrix. Parameters affected are Al, Cr, Co, Cu, Pb, Ni, As, Zn, Cd.

Results relate only to the items tested.



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P.O. #:
Site Reference: COR-3, COR-4A, COR-4B & COR-4C

Quality Assurance Report
Maxxam Job Number: EB073525

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
4194909 NC3	Matrix Spike	Total Mercury (Hg)	2010/08/20		99	%	85 - 115
	QC Standard	Total Mercury (Hg)	2010/08/20		102	%	85 - 115
	Spiked Blank	Total Mercury (Hg)	2010/08/20		100	%	85 - 115
	Method Blank	Total Mercury (Hg)	2010/08/20	<0.005		ug/L	
	RPD	Total Mercury (Hg)	2010/08/20	NC		%	20
4195301 YY	Matrix Spike	Phenols	2010/08/20		NC	%	80 - 120
	Spiked Blank	Phenols	2010/08/20		99	%	80 - 120
	Method Blank	Phenols	2010/08/20	<0.002		mg/L	
	RPD	Phenols	2010/08/20	NC		%	20
4196913 RL6	Spiked Blank	Biochemical Oxygen Demand	2010/08/24		107	%	80 - 110
	Method Blank	Biochemical Oxygen Demand	2010/08/24	<2		mg/L	
	RPD [W33054-09]	Biochemical Oxygen Demand	2010/08/24	NC (1)		%	20
4196944 RL6	Spiked Blank	Biochemical Oxygen Demand (inhib.)	2010/08/24		91	%	80 - 112
	Method Blank	Biochemical Oxygen Demand (inhib.)	2010/08/24	<2		mg/L	
4197847 SY5	Spiked Blank	Alkalinity (Total as CaCO3)	2010/08/21		89	%	80 - 120
	Method Blank	Alkalinity (PP as CaCO3)	2010/08/21	<0.5		mg/L	
		Alkalinity (Total as CaCO3)	2010/08/21	<0.5		mg/L	
		Bicarbonate (HCO3)	2010/08/21	<0.5		mg/L	
		Carbonate (CO3)	2010/08/21	<0.5		mg/L	
		Hydroxide (OH)	2010/08/21	<0.5		mg/L	
	RPD	Alkalinity (PP as CaCO3)	2010/08/21	NC		%	20
		Alkalinity (Total as CaCO3)	2010/08/21	1.1		%	20
		Bicarbonate (HCO3)	2010/08/21	1.1		%	20
		Carbonate (CO3)	2010/08/21	NC		%	20
		Hydroxide (OH)	2010/08/21	NC		%	20
4197851 SY5	Spiked Blank	pH	2010/08/21		100	%	97 - 103
	RPD	pH	2010/08/21	0.3		%	5
4197852 SY5	Spiked Blank	Conductivity	2010/08/21		100	%	90 - 110
	Method Blank	Conductivity	2010/08/21	1, RDL=1		uS/cm	
	RPD	Conductivity	2010/08/21	0.6		%	20
4198888 SY1	Matrix Spike	Dissolved Chloride (Cl)	2010/08/23		106	%	80 - 120
	Spiked Blank	Dissolved Chloride (Cl)	2010/08/23		100	%	80 - 120
	Method Blank	Dissolved Chloride (Cl)	2010/08/23	<1		mg/L	
	RPD	Dissolved Chloride (Cl)	2010/08/23	NC		%	20
4198870 SY1	Matrix Spike	Dissolved Sulphate (SO4)	2010/08/23		114	%	80 - 120
	Spiked Blank	Dissolved Sulphate (SO4)	2010/08/23		101	%	80 - 120
	Method Blank	Dissolved Sulphate (SO4)	2010/08/23	<1		mg/L	
	RPD	Dissolved Sulphate (SO4)	2010/08/23	NC		%	20
4199116 AL2	Matrix Spike	Total Ammonia (N)	2010/08/23		94	%	80 - 120
	Spiked Blank	Total Ammonia (N)	2010/08/23		101	%	86 - 110
	Method Blank	Total Ammonia (N)	2010/08/23	<0.05		mg/L	
	RPD	Total Ammonia (N)	2010/08/23	NC		%	20
4200490 AMP	Method Blank	E.Coli DST	2010/08/20	<1		mpn/100mL	
		Total Coliforms DST	2010/08/20	<1		mpn/100mL	
4202461 AL2	Matrix Spike	Total Total Kjeldahl Nitrogen	2010/08/24		NC	%	80 - 120
	Spiked Blank	Total Total Kjeldahl Nitrogen	2010/08/24		97	%	80 - 120
	Method Blank	Total Total Kjeldahl Nitrogen	2010/08/24	<0.05		mg/L	
	RPD	Total Total Kjeldahl Nitrogen	2010/08/24	4.7		%	20
4202706 RW3	Matrix Spike	Total Suspended Solids	2010/08/24		98	%	80 - 120
	Spiked Blank	Total Suspended Solids	2010/08/24		98	%	80 - 120
	Method Blank	Total Suspended Solids	2010/08/24	<1		mg/L	
	RPD	Total Suspended Solids	2010/08/24	4.9		%	20
4204047 SV1	Matrix Spike	Total Calcium (Ca)	2010/08/24		NC	%	80 - 120
		Total Iron (Fe)	2010/08/24		NC	%	80 - 120
		Total Manganese (Mn)	2010/08/24		95	%	80 - 120

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Quality Assurance Report (Continued)

Maxxam Job Number: EB073525

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
4204047 SV1	Spiked Blank	Total Calcium (Ca)	2010/08/24		95	%	80 - 120
		Total Iron (Fe)	2010/08/24		102	%	80 - 120
		Total Manganese (Mn)	2010/08/24		96	%	80 - 120
	Method Blank	Total Calcium (Ca)	2010/08/24	<0.3		mg/L	
		Total Iron (Fe)	2010/08/24	<0.06		mg/L	
		Total Manganese (Mn)	2010/08/24	<0.004		mg/L	
	RPD	Total Calcium (Ca)	2010/08/24	2.6		%	20
		Total Iron (Fe)	2010/08/24	1.3		%	20
		Total Manganese (Mn)	2010/08/24	3.3		%	20
4204050 EO1	Matrix Spike	Total Aluminum (Al)	2010/08/24		NC	%	80 - 120
		Total Arsenic (As)	2010/08/24		92	%	80 - 120
		Total Cadmium (Cd)	2010/08/24		100	%	80 - 120
		Total Chromium (Cr)	2010/08/24		NC	%	80 - 120
		Total Cobalt (Co)	2010/08/24		92	%	80 - 120
		Total Copper (Cu)	2010/08/24		NC	%	80 - 120
		Total Lead (Pb)	2010/08/24		83	%	80 - 120
		Total Nickel (Ni)	2010/08/24		NC	%	80 - 120
		Total Zinc (Zn)	2010/08/24		NC	%	80 - 120
	Spiked Blank	Total Aluminum (Al)	2010/08/24		95	%	80 - 120
		Total Arsenic (As)	2010/08/24		87	%	80 - 120
		Total Cadmium (Cd)	2010/08/24		95	%	80 - 120
		Total Chromium (Cr)	2010/08/24		102	%	80 - 120
		Total Cobalt (Co)	2010/08/24		104	%	80 - 120
		Total Copper (Cu)	2010/08/24		100	%	80 - 120
		Total Lead (Pb)	2010/08/24		104	%	80 - 120
		Total Nickel (Ni)	2010/08/24		101	%	80 - 120
		Total Zinc (Zn)	2010/08/24		85	%	80 - 120
	Method Blank	Total Aluminum (Al)	2010/08/24	<0.001		mg/L	
		Total Arsenic (As)	2010/08/24	<0.0002		mg/L	
		Total Cadmium (Cd)	2010/08/24	<0.000005		mg/L	
		Total Chromium (Cr)	2010/08/24	<0.001		mg/L	
		Total Cobalt (Co)	2010/08/24	<0.0003		mg/L	
		Total Copper (Cu)	2010/08/24	<0.0002		mg/L	
		Total Lead (Pb)	2010/08/24	<0.0002		mg/L	
		Total Nickel (Ni)	2010/08/24	<0.0005		mg/L	
		Total Zinc (Zn)	2010/08/24	<0.003		mg/L	
	RPD	Total Aluminum (Al)	2010/08/24	14.1		%	20
		Total Arsenic (As)	2010/08/24	1.3		%	20
		Total Chromium (Cr)	2010/08/24	NC		%	20
		Total Cobalt (Co)	2010/08/24	0.9		%	20
		Total Copper (Cu)	2010/08/24	0.5		%	20
		Total Lead (Pb)	2010/08/24	0.2		%	20
		Total Nickel (Ni)	2010/08/24	1.3		%	20
		Total Zinc (Zn)	2010/08/24	NC		%	20
4204832 YY	Matrix Spike	Total Organic Carbon (C)	2010/08/24		NC	%	80 - 120
	Spiked Blank	Total Organic Carbon (C)	2010/08/24		93	%	80 - 120
	Method Blank	Total Organic Carbon (C)	2010/08/24	<0.5		mg/L	
	RPD	Total Organic Carbon (C)	2010/08/24	4.4		%	20
4205296 AL2	Matrix Spike [W33189-02]	Total Phosphorus (P)	2010/08/25		97	%	80 - 120
	Spiked Blank	Total Phosphorus (P)	2010/08/25		93	%	80 - 120
	Method Blank	Total Phosphorus (P)	2010/08/25	0.004, RDL=0.003		mg/L	
	RPD [W33189-02]	Total Phosphorus (P)	2010/08/25	3.2		%	20
4205562 DMA	Matrix Spike	Dissolved Nitrite (N)	2010/08/25		99	%	80 - 120
		Dissolved Nitrate (N)	2010/08/25		101	%	80 - 120

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Quality Assurance Report (Continued)

Maxxam Job Number: EB073525

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
4205562 DMA	Spiked Blank	Dissolved Nitrite (N)	2010/08/25		100	%	80 - 120
		Dissolved Nitrate (N)	2010/08/25		102	%	80 - 120
	Method Blank	Dissolved Nitrite (N)	2010/08/25	<0.003		mg/L	
		Dissolved Nitrate (N)	2010/08/25	0.003, RDL=0.003		mg/L	
	RPD	Dissolved Nitrite (N)	2010/08/25	NC		%	20
		Dissolved Nitrate (N)	2010/08/25	NC		%	20
4206366 SV1	Matrix Spike	Dissolved Calcium (Ca)	2010/08/24		NC	%	80 - 120
		Dissolved Iron (Fe)	2010/08/24		93	%	80 - 120
		Dissolved Magnesium (Mg)	2010/08/24		92	%	80 - 120
		Dissolved Manganese (Mn)	2010/08/24		90	%	80 - 120
		Dissolved Potassium (K)	2010/08/24		99	%	80 - 120
		Dissolved Sodium (Na)	2010/08/24		97	%	80 - 120
	Spiked Blank	Dissolved Calcium (Ca)	2010/08/24		93	%	88 - 115
		Dissolved Iron (Fe)	2010/08/24		94	%	81 - 111
		Dissolved Magnesium (Mg)	2010/08/24		98	%	80 - 120
		Dissolved Manganese (Mn)	2010/08/24		91	%	85 - 110
		Dissolved Potassium (K)	2010/08/24		100	%	85 - 117
		Dissolved Sodium (Na)	2010/08/24		98	%	84 - 118
	Method Blank	Dissolved Calcium (Ca)	2010/08/24	<0.3		mg/L	
		Dissolved Iron (Fe)	2010/08/24	<0.06		mg/L	
		Dissolved Magnesium (Mg)	2010/08/24	<0.2		mg/L	
		Dissolved Manganese (Mn)	2010/08/24	<0.004		mg/L	
		Dissolved Potassium (K)	2010/08/24	<0.3		mg/L	
		Dissolved Sodium (Na)	2010/08/24	<0.5		mg/L	
	RPD	Dissolved Calcium (Ca)	2010/08/24	0.4		%	20
		Dissolved Iron (Fe)	2010/08/24	NC		%	20
		Dissolved Magnesium (Mg)	2010/08/24	1.1		%	20
		Dissolved Manganese (Mn)	2010/08/24	NC		%	20
		Dissolved Potassium (K)	2010/08/24	NC		%	20
		Dissolved Sodium (Na)	2010/08/24	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.

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.

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

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Validation Signature Page

Maxxam Job #: B073525

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

A handwritten signature in black ink, appearing to be "Dina Tleugabulova", written over a horizontal line.

DINA TLEUGABULOVA, Ph.D., Scientific Specialist

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.



PBR
Laboratories Inc.

Page 1 of 2

MAXXAM 100823-13 (10-BYC)

CONFIDENTIAL ANALYSIS REPORT

REPORT #: 100823-13

WO #: 10-BYC

PO #: B073525

CLIENT: MAXXAM Analytics Inc.
9331 48 Street
Edmonton, Alberta
T6B 2R4

ATTENTION: Jeremy Wakaruk
Tel: (780) 577-7105
Fax: (780) 450-4187

SAMPLE DESCRIPTION: Water Sample

DATE AND TIME OF SAMPLE COLLECTION: Not Provided

DATE AND TIME OF SAMPLE RECEIPT: August 19, 2010/16:15

SAMPLE TEMPERATURE WHEN RECEIVED: 14.8° Celsius

TEST PERFORMED: Fecal Coliform by MF

TEST START DATE: August 19, 2010

DATE COMPLETED: August 21, 2010

CERTIFICATE OF ANALYSIS: See Page 2

The report shall not be reproduced, except in full, without the written authority of PBR Laboratories Inc.

MAXXAM 100823-13 (10-BYC)

Certificate of Analysis

Page 2 of 2

PBR ID	Sample #	Client ID	Lot #	Test	Protocol	Quantity Analyzed	Result	Units	Comments
10-BYC-01		W33054-07R 1 CORAL HARBO		Fecal Coliform by MF	APHA-9222D	10 ml	40	CFU/100ml	1
10-BYC-02		W33189-05R 1 CORAL HARBO		Fecal Coliform by MF	APHA-9222D	100 ml	3	CFU/100ml	
10-BYC-03		W33228-05R 1 CORAL HARBO		Fecal Coliform by MF	APHA-9222D	100 ml	2	CFU/100ml	
10-BYC-04		W33229-05R 1 CORAL HARBO		Fecal Coliform by MF	APHA-9222D	100 ml	<1	CFU/100ml	2

Comments

- 1 CFU = Colony Forming Unit.
- 2 CFU = Colony Forming Unit.
- <1 = No counts were detected based on the volume/dilution analyzed.

The reported results apply only to the items tested.



Kausalyah Gopalkrishnan (Analyst)
Date: Aug 23 2010



Approved By: Debangshu Bhattacharya, Ph.D.
Date: Aug 23 2010

PBR



P|B|R
Laboratories Inc.

Page 1 of 2

MAXXAM 100823-12 (10-BYB)

CONFIDENTIAL ANALYSIS REPORT

REPORT #: 100823-12

WO #: 10-BYB

PO #: B073577

CLIENT: MAXXAM Analytics Inc.
9331 48 Street
Edmonton, Alberta
T6B 2R4

ATTENTION: Jeremy Wakaruk
Tel: (780) 577-7105
Fax: (780) 450-4187

SAMPLE DESCRIPTION: Water Sample

DATE AND TIME OF SAMPLE COLLECTION: Not Provided

DATE AND TIME OF SAMPLE RECEIPT: August 19, 2010/16:15

SAMPLE TEMPERATURE WHEN RECEIVED: 15.7° Celsius

TEST PERFORMED: Fecal Coliform by MF

TEST START DATE: August 19, 2010

DATE COMPLETED: August 21, 2010

CERTIFICATE OF ANALYSIS: See Page 2

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MAXXAM 100823-12 (10-BYB)

Certificate of Analysis

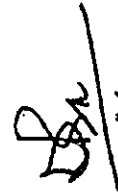
Page 2 of 2

PBR ID	Sample #	Client ID	Lot #	Test	Protocol	Quantity Analyzed	Result	Units	Comments
10-BYB-01		W33245-07R \ CORAL HARBO		Fecal Coliform by MF	APHA-9222D	100 ml	2	CFU/100ml	1

Comments

1 CFU = Colony Forming Unit.

The reported results apply only to the items tested.

Kausalyah Gopalakrishnan (Analyst)
Date: Aug 23 2010Approved By: Debangshu Bhattacharya, Ph.D.
Date: Aug 23 2010**PBR**

EENVFCD-00391 v3

Final Report

page 1 of 3

**96hr Rainbow Trout Screen Bioassay Report**
(Acute Aquatic Toxicity Test)

Project : B073577-W33245

Sample Data :

Company Name : Dillon Consulting Ltd
City : Yellowknife, NT
Sample Description : Coral Harbour COR-5 Water
Sampling Location : COR-5
Sampling Method : Grab
Volume obtained : 20 L
Sampled By : JS

	YY MM DD		
Sample Date :	10 08 13	Time :	1050
Date Received :	10 08 19	Time :	1045
Bioassay Date :	10 08 19	Time :	1600
Report Date :	10 08 24		
Deviations from method :	none		

Test Results :

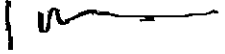
% mortality @ 96 Hours : 0%

*Note: The results relate only to the item tested.***Results of Phenol Reference Bioassay : CETIS Statistical Program**

LC50 @ 96 Hours : 10.95 mg/L
95 % Confidence Interval : 10.0<11.0<11.9 mg/L
Method : Probit
95 % Confidence Interval : 8.47<10.66<13.44
Method : Schewhart Warning Limit
Historical Mean $\pm$ 2SD : 10.66 $\pm$ 2.48
Date of Reference Bioassay : 10 08 17

The reference toxicant is conducted under the same conditions as the definitive testing.

Report & QA/QC

Reviewed By :  Jay Abbott, Bioassay Supervisor

EENVFCD-00391 v3
Final Report
page 2 of 3



96hr Rainbow Trout Screen Bioassay Report

Project : B073577-W33245

Sample Description : Coral Harbour COR-5 Water

Test Information :

Type of Bioassay :	96 Hour Single Dilution Static Bioassay		
Test Species :	<i>Oncorhynchus mykiss</i> (Rainbow Trout)		
Test Protocol :	Environment Canada EPS 1/RM/13 (Dec.2000 ed. with May 2007 amendments).		
Source of Test Species :	Rainbow Springs Trout Hatchery, Thamesford, ON.		
Culture Lot # :	RS0730-3		
Mean (± 1 SD) & Range Fork Length of Fish :	3.6 $\pm$ 0.1 cm	Pop.Range 3.4 - 3.8 cm	n=10
Mean (± 1 SD) & Range Weight of Fish :	0.54 $\pm$ 0.11 g	Pop.Range 0.4 - 0.7 g	
Cummulative Mortality of Fish Lot in the 7 Days Prior to Test :	0.0%		
Source of Holding Water :	Ammonia Free, Dechlorinated City of Edmonton Tap Water		
Size of Test Container :	38 L		
Material of Test Container :	Disposable Plastic Liner in Glass Tank		
Volume of Test Solution in Each Test Vessel :	20 L		
Depth of Test Material in Each Test Vessel :	≥ 15 cm		
Concentrations of Test Material :	0, 100%		
Number of Fish per Container :	10		
Loading Density :	0.27 g/L		
Method of Aeration :	Carbon Filtered, Compressed Air Through Air-stone		
Aeration Rate during test :	6.5 $\pm$ 1.0 mL/min./L		
pH adjustment:	No pH adjustment of sample was made during testing.		

EENVFCD-00391 v3

Final Report

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96hr Rainbow Trout Screen Bioassay Report

Project : B073577-W33245

Sample Description : Coral Harbour COR-5 Water

Setup	Sample Properties Prior To Initial Setup:	Temperature °C	pH @ 20°C	EC µS cm-1	Dissolved Oxygen mg/L
Analyst: JA	Preparation Time (at rate of 6.5 ± 1.0 mL / min / L) :	18.0	7.7	290	9.8
	30 min				

Time	Description	Concentration (%)	
		0	100
Start	Temperature (°C)	15.0	15.0
	pH	8.2	8.3
	EC (µS cm-1)	299	300
	Dissolved Oxygen (mg/L)	9.5	9.5
Analyst: JA			
1/4 Hour	Number Dead		
	Atypical/Stressed Behaviour		
1/2 Hour	Number Dead	0	0
	Atypical/Stressed Behaviour	0	0
1 Hour	Number Dead	0	0
	Atypical/Stressed Behaviour	0	0
2 Hours	Number Dead	0	0
	Atypical/Stressed Behaviour	0	0
4 Hours	Number Dead	0	0
	Atypical/Stressed Behaviour	0	0
24 Hours	Temperature (°C)	14.6	14.8
	pH	8.3	8.2
	EC (µS cm-1)	297	283
	Dissolved Oxygen (mg/L)	9.9	9.8
	Number Dead	0	0
Analyst: RL	Atypical/Stressed Behaviour	0	0
48 Hours	Temperature (°C)	14.6	15.1
	pH	8.1	8.0
	EC (µS cm-1)	306	286
	Dissolved Oxygen (mg/L)	9.1	9.1
	Number Dead	0	0
Analyst: RL	Atypical/Stressed Behaviour	0	0
72 Hours	Temperature (°C)	15.0	15.2
	pH	8.1	8.0
	EC (µS cm-1)	303	289
	Dissolved Oxygen (mg/L)	9.6	9.4
	Number Dead	0	0
Analyst: JA	Atypical/Stressed Behaviour	0	0
96 Hours	Temperature (°C)	15.1	15.0
	pH	8.2	8.0
	EC (µS cm-1)	300	290
	Dissolved Oxygen (mg/L)	9.8	9.6
	Number Dead	0	0
Analyst: AM	Atypical/Stressed Behaviour	0	0

Stress Codes: P: dark pigmentation U: light pigmentation L: lethargic H: hyperactive M: inhibited movement G: pronounced opercular movement F: Flashing S: extreme toxic shock D: disoriented

General Comments:

9331-48 Street, Edmonton, Alberta T6B 2R4

Tel: (780) 577-7100 Fax: (780) 450-4187 Website: www.maxxam.ca

EENVFCD-00484, v4
Final Report
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48hr *Daphnia magna* Bioassay Report

(Acute Aquatic Toxicity Test)

Project : B073577-W33245

Client Name :	Dillon Consulting Ltd
Location :	Yellowknife, NT

Sample Data :

Sample Description :	Coral Harbour COR-5 Water
Visual Description:	Clear
Sampling Location :	COR-5
Sampling Method :	Grab
Volume Obtained :	1 L
Sampled By :	JS

YY MM DD

Sample Date :	10 08 13
Date Received :	10 08 19
Bioassay Date :	10 08 19
Report Date :	10 08 24
Deviations from Method :	none

Time : 1050

Time : 1045

Time : 1700

Bioassay Results :

CETIS Statistical Program

LC50 @ 48 Hours : >100%

Method : n/a

95 % Confidence Interval : n/a

EC50 @ 48 Hours : >100%

Method : n/a

95 % Confidence Interval : n/a

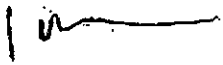
Legend:

LC50/EC50 indicates concentration of sample, in percent, which kills or affects 50% of test organisms.

Note: Results relate only to the item tested.

General Comments:

Data & QA/QC
Reviewed By :


Jay Abbott, Bioassay Supervisor

EENVFCD-00484, v4
Final Report
page 2 of 4



48hr *Daphnia magna* Bioassay Report

Project : B073577-W33245
Sample Description : Coral Harbour COR-5 Water

Detailed Test Information :

Type of Bioassay :	48 hour static bioassay
Test Species :	<i>Daphnia magna</i>
Test Protocol :	Environment Canada EPS 1/RM/14 (December 2000 ed.)
Test Endpoint:	Mortality and/or Immobility
% Mortality in Culture 7 days Prior to Testing :	1%
Age of Test Animals :	Neonates (young), less than 24 hours old
Time, in Days, to First Brood :	9
Average Number of Neonates per Brood :	19
Source of Test Species :	In house culture initiated through Environment Canada <i>Daphnia magna</i>
Date Animals Obtained :	May 1991
Source of Culturing and Dilution Water :	Reconstituted water
Size of Test Container :	220 mL
Material of Test Container :	Polyethylene beaker
Volume of Test Solution per Container :	200 mL
Standard Concentrations of Test Material :	0, 6.25, 12.5, 25, 50, 100%
Number of Neonates per Container :	10
Volume of Solution per Daphnid :	20 mL
Hardness Adjustment :	None (Checked with Hach Kit for Total Hardness, 20-400 mg/L)
pH Adjustment :	None

EENVFCD-00484, v4

Final Report

page 3 of 4



48hr *Daphnia magna* Bioassay Report

Project : B073577-W33245

Sample Description : Coral Harbour COR-5 Water

Setup	Effluent Properties Prior To Initial Setup:	Temperature °C	pH @ 20°C	EC µS cm-1	Dissolved Oxygen mg/L
Analyst: RL	Preaeration Time (at rate of 50 mL / min / L) :	16.0	7.7	290	9.8
		0 min			

Time	Description	Concentration (% by Volume)					
		0	0.25	12.5	25	50	100

Start	Temperature °C	20.9	20.0	20.2	20.8	20.7	20.9
	pH @ 20°C	8.2	8.2	8.2	8.2	8.3	8.2
	EC µS cm-1	578	559	526	457	317	378
	Dissolved Oxygen mg/L	8.4	8.5	8.6	8.7	8.8	8.5
	Hardness mg/L CaCO ₃	180 mg/L					100 mg/L
Analyst: RL							
1 Hour	Number Dead						
Analyst:	Atypical/Stressed Behaviour						
4 Hours	Number Dead						
Analyst:	Atypical/Stressed Behaviour						
24 Hours	Number Dead	0	0	0	0	0	0
Analyst: RL	Atypical/Stressed Behaviour	0	0	0	0	0	0
48 Hours	Temperature °C	19.9	19.8	19.7	19.9	19.8	19.7
	pH @ 20°C	8.2	8.3	8.3	8.3	8.3	8.2
	EC µS cm-1	611	601	580	543	472	330
	Dissolved Oxygen mg/L	8.0	8.1	8.2	8.0	8.1	8.2
	Number Dead	0	0	0	0	0	0
Analyst: RL	Atypical/Stressed Behaviour	0	0	0	0	0	0

Observation Codes: I: Immobile F: Floating



EENVFCD-00484, v4
Final Report
page 4 of 4

Project : B073577-W33245

Sample Description : Coral Harbour COR-5 Water

Results of Sodium Chloride Reference Bioassay :

Current

LC50 @ 48 Hours : 5431 mg/L
95 % Confidence Interval : 5028<5431<5840
Method : Probit
Date Initiated : 10 08 10

Historical

Geometric Mean : 5800 mg/L
Warning Limits : 5235<5800<6427
Method : Shewhart

The reference toxicant is conducted under the same conditions as the definitive testing (EENVSOP-00152).

