

**EXOVA ENVIRONMENTAL ONTARIO****Certificate of Analysis**

Client: Defence Construction Canada (Trenton)  
Box 1000 Bldg 155 CFB Trenton  
Astra, ON  
K0K 3W0  
Attention: Cameron Chadwick  
PO#: TR14ENV5  
Invoice to: Defence Construction Canada

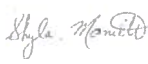
Report Number: 1512422  
Date Submitted: 2015-07-04  
Date Reported: 2015-07-16  
Project:  
COC #: 501783

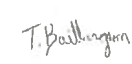
Page 1 of 11

**Dear Cameron Chadwick:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

APPROVAL:  Shyla Monette  
2015.07.16 13:32:09  
-04'00'  
Shyla Monette  
Team Leader, Inorganics

APPROVAL:  Tanya Baillargeon  
2015.07.16 15:01:35  
-04'00'  
Tanya Baillargeon  
Team Lead, Organics

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Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Exova recommends consulting the official provincial or federal guideline as required.

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				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1185986 Water  2015-06-27 ERK-1	1185987 Water  2015-06-27 ERK-4	1185988 Water  2015-06-27 ERK-5
Group	Analyte	MRL	Units	Guideline			
Calculations	Hardness as CaCO3	1	mg/L			403	892
General Chemistry	Alkalinity as CaCO3	5	mg/L			123	74
	Br	0.5	mg/L				<0.5
	Cl	1	mg/L				1020
	COD	5	mg/L		459	34	29
	Conductivity	5	uS/cm			1470	3890
	F	0.10	mg/L				0.20
	N-NO2	0.10	mg/L			<0.10	<0.10
	N-NO3	0.10	mg/L			<0.10	<0.10
	pH	1.00			8.82	8.03	7.84
	SO4	1	mg/L			311	372
	Total Suspended Solids	1	mg/L		90	4	7
Mercury	Hg	0.0001	mg/L			<0.0001	<0.0001
Metals	Ag	0.0001	mg/L				<0.0001
	As	0.001	mg/L			<0.001	<0.001
	B	0.01	mg/L				0.35
	Ba	0.01	mg/L				0.06
	Be	0.0005	mg/L				<0.0005
	Ca	1	mg/L			107	184
	Cd	0.0001	mg/L			<0.0001	<0.0001
	Co	0.0002	mg/L				0.0004
	Cr	0.001	mg/L			0.002	<0.001
	Cu	0.001	mg/L			0.004	0.002
	Fe	0.03	mg/L			1.12	0.14
	K	1	mg/L			13	16
	Mg	1	mg/L			33	105

Guideline = \* = Guideline Exceedence  
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				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1185986 Water  2015-06-27 ERK-1	1185987 Water  2015-06-27 ERK-4	1185988 Water  2015-06-27 ERK-5
Group	Analyte	MRL	Units	Guideline			
Metals	Mo	0.005	mg/L				<0.005
	Na	2	mg/L			153	467
	Ni	0.005	mg/L			<0.005	<0.005
	Pb	0.001	mg/L			<0.001	<0.001
	Sb	0.0005	mg/L				<0.0005
	Se	0.001	mg/L				<0.001
	Tl	0.0001	mg/L				<0.0001
	U	0.001	mg/L				0.002
	V	0.001	mg/L				<0.001
	Zn	0.01	mg/L				<0.01
Nutrients	N-NH3	0.05	mg/L			0.09	0.09
Oil & Grease	Oil & Grease - Mineral	1.0	mg/L		<1.0	<1.0	<1.0
	Oil & Grease - Non-mineral	1.0	mg/L		2.0	<1.0	<1.0
	Oil & Grease - Total	1.0	mg/L		2.0	<1.0	<1.0
PHC (Hydrocarbons)	F1 (C6-C10)	20	ug/L			<20	<20
	F1-BTEX (C6-C10)	20	ug/L			<20	<20
	F2 (C10-C16)	20	ug/L			<20	<20
	F3 (C16-C34)	50	ug/L			<50	<50
	F4 (C34-C50)	50	ug/L			<50	<50
Phenols-4AAP	Phenols	0.002	mg/L			<0.002	<0.002
Semi-Volatiles	1-methylnaphthalene	0.1	ug/L			<0.1	0.2
	2-methylnaphthalene	0.1	ug/L			<0.1	0.2
	Acenaphthene	0.1	ug/L			<0.1	<0.1
	Acenaphthylene	0.1	ug/L			<0.1	<0.1
	Anthracene	0.1	ug/L			<0.1	<0.1
	Benzo(a)anthracene	0.1	ug/L			<0.1	<0.1

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				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1185986 Water 2015-06-27 ERK-1	1185987 Water 2015-06-27 ERK-4	1185988 Water 2015-06-27 ERK-5
Group	Analyte	MRL	Units	Guideline			
Semi-Volatiles	Benzo(a)pyrene	0.01	ug/L			<0.01	<0.01
	Benzo(b)fluoranthene	0.05	ug/L			<0.05	<0.05
	Benzo(g,h,i)perylene	0.1	ug/L			<0.1	<0.1
	Benzo(k)fluoranthene	0.05	ug/L			<0.05	<0.05
	Chrysene	0.05	ug/L			<0.05	<0.05
	Dibenzo(a,h)anthracene	0.1	ug/L			<0.1	<0.1
	Fluoranthene	0.1	ug/L			<0.1	<0.1
	Fluorene	0.1	ug/L			<0.1	<0.1
	Indeno(1,2,3-c,d)pyrene	0.1	ug/L			<0.1	<0.1
	Naphthalene	0.1	ug/L			<0.1	0.1
	Phenanthrene	0.1	ug/L			<0.1	<0.1
	Pyrene	0.1	ug/L			<0.1	<0.1
Subcontract	BOD5	1	mg/L		25	<1	<1
VOCs	Benzene	0.5	ug/L			<0.5	<0.5
	Ethylbenzene	0.5	ug/L			<0.5	<0.5
	m/p-xylene	0.4	ug/L			<0.4	<0.4
	o-xylene	0.4	ug/L			<0.4	<0.4
	Toluene	0.5	ug/L			<0.5	<0.5
VOCs Surrogates (%)	Toluene-d8	0	%			96	97

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**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
Run No 289898 Analysis/Extraction Date 2015-07-06 Analyst SKH			
Method M SM3120B-3500C			
Calcium	<1 mg/L	102	90-110
Potassium	<1 mg/L	100	87-113
Magnesium	<1 mg/L	98	76-124
Sodium	<2 mg/L	102	82-118
Run No 289925 Analysis/Extraction Date 2015-07-06 Analyst NP			
Method C SM4500-NO3-F			
N-NO2	<0.10 mg/L	103	80-120
N-NO3	<0.10 mg/L	90	80-120
Run No 289944 Analysis/Extraction Date 2015-07-06 Analyst FWU			
Method P 8270			
Methylnaphthalene, 1-	<0.1 ug/L	80	50-140
Methylnaphthalene, 2-	<0.1 ug/L	80	50-140
Acenaphthene	<0.1 ug/L	68	50-140
Acenaphthylene	<0.1 ug/L	84	50-140
Anthracene	<0.1 ug/L	76	50-140
Benz[a]anthracene	<0.1 ug/L	84	50-140

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148 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

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**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
Benzo[a]pyrene	<0.01 ug/L	84	50-140
Benzo[b]fluoranthene	<0.05 ug/L	100	50-140
Benzo[ghi]perylene	<0.1 ug/L	66	50-140
Benzo[k]fluoranthene	<0.05 ug/L	79	50-140
Chrysene	<0.05 ug/L	82	50-140
Dibenz[a,h]anthracene	<0.1 ug/L	62	50-140
Fluoranthene	<0.1 ug/L	72	50-140
Fluorene	<0.1 ug/L	70	50-140
Indeno[1,2,3-cd]pyrene	<0.1 ug/L	66	50-140
Naphthalene	<0.1 ug/L	60	50-140
Phenanthrene	<0.1 ug/L	76	50-140
Pyrene	<0.1 ug/L	72	50-140
<b>Run No 289975 Analysis/Extraction Date 2015-07-07 Analyst AET</b>			
<b>Method C SM4500-H+B</b>			
Alkalinity (CaCO3)	<5 mg/L	104	90-110
Conductivity	<5 uS/cm	101	90-110
F	<0.10 mg/L	101	90-110
pH	6.46	100	90-110

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**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
<b>Run No 289995 Analysis/Extraction Date 2015-07-08 Analyst NP</b>			
<b>Method SM 4110</b>			
Br	<0.5 mg/L	98	90-110
SO4	<1 mg/L	99	90-110
<b>Run No 290004 Analysis/Extraction Date 2015-07-14 Analyst TJB</b>			
<b>Method Exova Surrey-BC Env. Lab Manual</b>			
Oil & Grease - Mineral	<1.0 mg/L		
Oil & Grease - Non-mineral	<1.0 mg/L		
Oil & Grease - Total	<1.0 mg/L		
<b>Method O CCME Reg 153</b>			
Petroleum Hydrocarbons F1	<20 ug/L	111	80-140
Petroleum Hydrocarbons F1-BTEX			
<b>Run No 290039 Analysis/Extraction Date 2015-07-08 Analyst K A</b>			
<b>Method EPA 200.8</b>			
Silver	<0.0001 mg/L	102	94-108
Arsenic	<0.001 mg/L	101	93-106
Boron (total)	<0.01 mg/L	102	88-112
Barium	<0.01 mg/L	106	91-109
Beryllium	<0.0005 mg/L	101	93-107

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**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
Cadmium	<0.0001 mg/L	103	93-107
Cobalt	<0.0002 mg/L	100	94-106
Chromium Total	<0.001 mg/L	100	94-106
Copper	<0.001 mg/L	99	93-106
Iron	<0.03 mg/L	97	92-107
Molybdenum	<0.005 mg/L	104	94-106
Nickel	<0.005 mg/L	99	94-106
Lead	<0.001 mg/L	106	70-130
Antimony	<0.0005 mg/L	103	80-120
Selenium	<0.001 mg/L	105	91-108
Thallium	<0.0001 mg/L	101	95-105
Uranium	<0.001 mg/L	102	94-106
Vanadium	<0.001 mg/L	99	93-107
Zinc	<0.01 mg/L	102	94-106
Run No 290045 Analysis/Extraction Date 2015-07-08 Analyst SKH			
Method M SM3120B-3500C			
Calcium	<1 mg/L	101	90-110
Potassium	<1 mg/L	100	87-113

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**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
Magnesium	<1 mg/L	97	76-124
Sodium	<2 mg/L	104	82-118
Run No 290171 Analysis/Extraction Date 2015-07-10 Analyst JLD			
Method O CCME Reg 153			
Petroleum Hydrocarbons F2	<20 ug/L	110	60-140
Petroleum Hydrocarbons F3	<50 ug/L	110	60-140
Petroleum Hydrocarbons F4	<50 ug/L	110	60-140
Run No 290266 Analysis/Extraction Date 2015-07-10 Analyst SCM			
Method M SM3112B-3500B			
Mercury	<0.0001 mg/L	92	76-123
Run No 290278 Analysis/Extraction Date 2015-07-07 Analyst TJB			
Method V 8260B			
Benzene	<0.5 ug/L	94	60-130
Ethylbenzene	<0.5 ug/L	93	60-130
m/p-xylene	<0.4 ug/L	88	60-130
o-xylene	<0.4 ug/L	92	60-130
Toluene	<0.5 ug/L	95	60-130
Run No 290302 Analysis/Extraction Date 2015-07-10 Analyst NP			
Method SM 4110			

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Analyte	Blank	QC % Rec	QC Limits
Chloride	<1 mg/L	101	90-110
Run No 290366 Analysis/Extraction Date 2015-07-09 Analyst AET			
Method Exova Edmonton-SM5530D			
Phenols	<0.002 mg/L	103	
Run No 290370 Analysis/Extraction Date 2015-07-09 Analyst AET			
Method Exova Edmonton-SM5220D			
COD	<5 mg/L	103	
Run No 290372 Analysis/Extraction Date 2015-07-09 Analyst AET			
Method Exova Edmonton-SM4500-NH3-G			
N-NH3	<0.05 mg/L	99	
Run No 290383 Analysis/Extraction Date 2015-07-10 Analyst AET			
Method Exova Edmonton-SM2540D			
Total Suspended Solids		95	
Run No 290389 Analysis/Extraction Date 2015-07-12 Analyst AET			
Method SUBCONTRACT-SA-INORG			
BOD5	<1 mg/L	86	

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***Sample Comment Summary***

Sample ID: 1185987 ERK-4	Holding time for NO2 and NO3 analysis was exceeded.
Sample ID: 1185988 ERK-5	Holding time for NO2 and NO3 analysis was exceeded.

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Page 1 of 2

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Report Comments:

APPROVAL:

Dragana  
Dzeletovic  
*Dragana Dzeletovic* 2015.07.05  
10:37:26  
-04'00'  
Dragana Dzeletovic  
Team Leader, Microbiology

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Exova (Ottawa) is certified and accredited for specific parameters by OMAFRA, Ontario Ministry of Agriculture, Food and Rural Affairs (for farm soils). Licensed by Ontario MOE for specific tests in drinking water.

Exova (Mississauga) is accredited for specific parameters by SCC, Standards Council of Canada (to ISO 17025)

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Exova recommends consulting the official provincial or federal guideline as required.

**EXOVA ENVIRONMENTAL ONTARIO****Certificate of Analysis**

Client: Defence Construction Canada (Trenton)  
Box 1000 Bldg 155 CFB Trenton  
Astra, ON  
K0K 3W0  
Attention: Cameron Chadwick  
PO#: TR14ENV5  
Invoice to: Defence Construction Canada

Report Number: 1512421  
Date Submitted: 2015-07-04  
Date Reported: 2015-07-05  
Project:  
COC #: 501783

					Lab I.D.	1185983	1185984	1185985
					Sample Matrix	Water	Water	Water
					Sample Type	-	-	-
					Sampling Date	2015-06-27	2015-06-27	2015-06-27
					Sample I.D.	ERK-1	ERK-4	ERK-5
Group	Analyte	MRL	Units	Guideline				
Microbiology	Faecal Coliforms	0	ct/100mL			0	0	0

**Guideline =****\* = Guideline Exceedence**

All analysis completed in Ottawa, Ontario (unless otherwise indicated by \*\* which indicates analysis was completed in Mississauga, Ontario).  
Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range