

**CLIENT NAME: DEFENCE CONSTRUCTION CANADA
14 ALERT BLVD, 8 WING TRENTON
ASTRA, ON K0K3W0
(613) 392-2811**

ATTENTION TO: Cameron Chadwick

PROJECT: ALERT

AGAT WORK ORDER: 16P118076

MICROBIOLOGY ANALYSIS REVIEWED BY: Inesa Alizarchyk, Inorganic Lab Supervisor

TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor

WATER ANALYSIS REVIEWED BY: Mike Muneswar, BSc (Chem), Senior Inorganic Analyst

DATE REPORTED: Jul 28, 2016

PAGES (INCLUDING COVER): 13

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

***NOTES**

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 16P118076

PROJECT: ALERT

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: DEFENCE CONSTRUCTION CANADA

ATTENTION TO: Cameron Chadwick

SAMPLING SITE:

SAMPLED BY: Kelsey Davidson

Microbiological Analysis (water)

DATE RECEIVED: 2016-07-20

DATE REPORTED: 2016-07-28

SAMPLE DESCRIPTION: ALT 4

SAMPLE TYPE: Water

DATE SAMPLED: 7/18/2016

Parameter	Unit	G / S	RDL	7720931
Fecal Coliform	CFU/100mL	2	16	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

7720931 RDL >1 indicates dilutions of the sample.

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SAMPLING SITE:

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O. Reg. 153(511) - PHCs F1 - F4 (Water)

DATE RECEIVED: 2016-07-20

DATE REPORTED: 2016-07-28

		SAMPLE DESCRIPTION:		ALT 4
		SAMPLE TYPE:		Water
		DATE SAMPLED:		7/18/2016
Parameter	Unit	G / S	RDL	7720931
Benzene	µg/L		0.20	<0.20
Toluene	µg/L		0.20	<0.20
Ethylbenzene	µg/L		0.10	<0.10
Xylene Mixture	µg/L		0.20	<0.20
F1 (C6 to C10)	µg/L		25	<25
F1 (C6 to C10) minus BTEX	µg/L		25	<25
F2 (C10 to C16)	µg/L		100	<100
F3 (C16 to C34)	µg/L		100	<100
F4 (C34 to C50)	µg/L		100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA
Surrogate	Unit	Acceptable Limits		
Terphenyl	%	60-140		83

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

7720931 The C6-C10 fraction is calculated using Toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6-C50 results are corrected for BTEX contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153/04, results are considered valid without determining the PAH contribution if not requested by the client.
NA = Not Applicable

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CLIENT NAME: DEFENCE CONSTRUCTION CANADA

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SAMPLING SITE:

SAMPLED BY: Kelsey Davidson

Oil and Grease (+Total) - water

DATE RECEIVED: 2016-07-20

DATE REPORTED: 2016-07-28

SAMPLE DESCRIPTION: ALT 4
SAMPLE TYPE: Water
DATE SAMPLED: 7/18/2016
G / S RDL 7720931

Parameter	Unit	G / S	RDL	7720931
Oil and Grease (animal/vegetable)	mg/L		0.5	<0.5
Oil and Grease (mineral) in water	mg/L		0.5	<0.5
Oil and Grease (Total) in water	mg/L		0.5	<0.5

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

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SAMPLING SITE:

SAMPLED BY: Kelsey Davidson

Polycyclic Aromatic Hydrocarbons in Water - (PAH)

DATE RECEIVED: 2016-07-20

DATE REPORTED: 2016-07-28

		SAMPLE DESCRIPTION:		ALT 4
		SAMPLE TYPE:		Water
		DATE SAMPLED:		7/18/2016
Parameter	Unit	G / S	RDL	7720931
1-Methylnaphthalene	ug/L		0.01	<0.01
2-Methylnaphthalene	ug/L		0.01	<0.01
Acenaphthene	ug/L		0.01	<0.01
Acenaphthylene	ug/L		0.01	<0.01
Acridine	ug/L		0.01	<0.01
Anthracene	ug/L		0.012	<0.012
Benzo(a)anthracene	ug/L		0.018	<0.018
Benzo(a)pyrene	ug/L		0.010	<0.010
Benzo(b)fluoranthene	ug/L		0.01	<0.01
Benzo(e)pyrene	ug/L		0.01	<0.01
Benzo(ghi)perylene	ug/L		0.01	<0.01
Benzo(k)fluoranthene	ug/L		0.01	<0.01
Chrysene	ug/L		0.01	<0.01
Dibenzo(a,h)anthracene	ug/L		0.01	<0.01
Fluoranthene	ug/L		0.01	<0.01
Fluorene	ug/L		0.01	<0.01
Indeno(1,2,3-cd)pyrene	ug/L		0.01	<0.01
Naphthalene	ug/L		0.01	<0.01
Perylene	ug/L		0.01	<0.01
Phenanthrene	ug/L		0.01	<0.01
Pyrene	ug/L		0.01	<0.01
Quinoline	ug/L		0.01	<0.01
Surrogate	Unit	Acceptable Limits		
Nitrobenzene-d5	%	50-140		91
2-Fluorobiphenyl	%	50-140		82
Terphenyl-d14	%	50-140		68

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

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Inorganic Chemistry - Surface Water Sample

DATE RECEIVED: 2016-07-20

DATE REPORTED: 2016-07-28

		SAMPLE DESCRIPTION:		ALT 4
		SAMPLE TYPE:		Water
		DATE SAMPLED:		7/18/2016
Parameter	Unit	G / S	RDL	7720931
BOD (5)	mg/L		5	<5
Electrical Conductivity	uS/cm		2	460
pH	pH Units		NA	7.99
Total Suspended Solids	mg/L		10	270
Total Hardness (as CaCO ₃)	mg/L		0.5	151
Alkalinity (as CaCO ₃)	mg/L		5	86
Nitrate as N	mg/L		0.05	1.70
Nitrite as N	mg/L		0.05	<0.05
Sulphate	mg/L		0.10	72.5
Ammonia as N	mg/L		0.02	0.99
Chemical Oxygen Demand	mg/L		5	<5
Phenols	mg/L		0.001	<0.001
Calcium	mg/L		0.05	43.5
Magnesium	mg/L		0.05	10.3
Sodium	mg/L		0.05	20.1
Potassium	mg/L		0.05	3.87
Total Arsenic	mg/L		0.001	0.006
Total Cadmium	mg/L		0.00002	0.00010
Total Chromium	mg/L		0.002	0.009
Total Copper	mg/L		0.002	0.012
Total Iron	mg/L		0.010	7.42
Total Lead	mg/L		0.001	0.007
Total Mercury	mg/L		0.00002	<0.00002
Total Nickel	mg/L		0.003	0.014

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

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Quality Assurance

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SAMPLING SITE:

SAMPLED BY: Kelsey Davidson

Microbiology Analysis

RPT Date: Jul 28, 2016			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE		MATRIX SPIKE	
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper

Microbiological Analysis (water)

Fecal Coliform	7719092	ND	ND	NA	< 1
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Comments: ND - Not Detected, NA - % RPD Not Applicable

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SAMPLING SITE:

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Trace Organics Analysis

RPT Date: Jul 28, 2016			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE			MATRIX SPIKE			
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Oil and Grease (+Total) - water

Oil and Grease (animal/vegetable)		TW	< 0.5	< 0.5	NA	< 0.5	NA	70%	130%	105%	70%	130%	103%	70%	130%
Oil and Grease (mineral) in water		TW	< 0.5	< 0.5	NA	< 0.5	NA	70%	130%	78%	70%	130%	77%	70%	130%
Oil and Grease (Total) in water		TW	< 0.5	< 0.5	NA	< 0.5	NA	70%	130%	92%	70%	130%	90%	70%	130%

O. Reg. 153(511) - PHCs F1 - F4 (Water)

Benzene	7718372		< 0.2	< 0.2	NA	< 0.20	92%	50%	140%	79%	60%	130%	100%	50%	140%
Toluene	7718372		< 0.2	< 0.2	NA	< 0.20	107%	50%	140%	80%	60%	130%	107%	50%	140%
Ethylbenzene	7718372		< 0.1	< 0.1	NA	< 0.10	109%	50%	140%	81%	60%	130%	113%	50%	140%
Xylene Mixture	7718372		< 0.2	< 0.2	NA	< 0.20	112%	50%	140%	77%	60%	130%	113%	50%	140%
F1 (C6 to C10)	7718372		< 25	< 25	NA	< 25	119%	60%	140%	104%	60%	140%	108%	60%	140%
F2 (C10 to C16)	7703296		< 10	< 10	NA	< 100	100%	60%	140%	101%	60%	140%	91%	60%	140%
F3 (C16 to C34)	7703296		< 50	< 50	NA	< 100	103%	60%	140%	89%	60%	140%	97%	60%	140%
F4 (C34 to C50)	7703296		< 50	< 50	NA	< 100	88%	60%	140%	102%	60%	140%	90%	60%	140%

Comments: Tap water analysis has been performed as QC sample testing for duplicate and matrix spike due to insufficient sample volume.

When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Polycyclic Aromatic Hydrocarbons in Water - (PAH)

1-Methylnaphthalene	1	7649918	1.71	1.46	15.8%	< 0.01	78%	50%	140%	72%	50%	140%	NA	50%	140%
2-Methylnaphthalene	1	7649918	0.92	0.77	17.8%	< 0.01	124%	50%	140%	69%	50%	140%	71%	50%	140%
Acenaphthene	1	7649918	0.11	0.07	44.4%	< 0.01	126%	50%	140%	71%	50%	140%	72%	50%	140%
Acenaphthylene	1	7649918	0.09	0.07	25.0%	< 0.01	107%	50%	140%	67%	50%	140%	70%	50%	140%
Acridine	1	7649918	< 0.01	< 0.01	0.0%	< 0.01	52%	50%	140%	73%	50%	140%	78%	50%	140%
Anthracene	1	7649918	0.01	0.02	NA	< 0.012	104%	50%	140%	68%	50%	140%	74%	50%	140%
Benzo(a)anthracene	1	7649918	< 0.018	< 0.018	0.0%	< 0.018	93%	50%	140%	69%	50%	140%	80%	50%	140%
Benzo(a)pyrene	1	7649918	< 0.010	< 0.010	0.0%	< 0.010	61%	50%	140%	69%	50%	140%	75%	50%	140%
Benzo(b)fluoranthene	1	7649918	< 0.01	< 0.01	0.0%	< 0.01	79%	50%	140%	69%	50%	140%	92%	50%	140%
Benzo(e)pyrene	1	7649918	< 0.01	< 0.01	0.0%	< 0.01	84%	50%	140%	70%	50%	140%	79%	50%	140%
Benzo(ghi)perylene	1	7649918	< 0.01	< 0.01	0.0%	< 0.01	106%	50%	140%	78%	50%	140%	55%	50%	140%
Benzo(k)fluoranthene	1	7649918	< 0.01	< 0.01	0.0%	< 0.01	72%	50%	140%	68%	50%	140%	71%	50%	140%
Chrysene	1	7649918	0.02	0.02	NA	< 0.01	117%	50%	140%	70%	50%	140%	74%	50%	140%
Dibenzo(a,h)anthracene	1	7649918	< 0.01	< 0.01	0.0%	< 0.01	84%	50%	140%	85%	50%	140%	75%	50%	140%
Fluoranthene	1	7649918	0.03	0.05	NA	< 0.01	115%	50%	140%	74%	50%	140%	83%	50%	140%
Fluorene	1	7649918	0.07	0.06	15.4%	< 0.01	117%	50%	140%	71%	50%	140%	74%	50%	140%
Indeno(1,2,3-cd)pyrene	1	7649918	< 0.01	< 0.01	0.0%	< 0.01	67%	50%	140%	68%	50%	140%	66%	50%	140%
Naphthalene	1	7649918	7.91	5.90	29.1%	< 0.01	124%	50%	140%	66%	50%	140%	71%	50%	140%
Perylene	1	7649918	< 0.01	< 0.01	0.0%	< 0.01	97%	50%	140%	74%	50%	140%	75%	50%	140%
Phenanthrene	1	7649918	0.03	0.04	NA	< 0.01	123%	50%	140%	66%	50%	140%	69%	50%	140%
Pyrene	1	7649918	0.02	0.04	NA	< 0.01	114%	50%	140%	73%	50%	140%	81%	50%	140%
Quinoline	1	7649918	< 0.01	< 0.01	0.0%	< 0.01	111%	50%	140%	78%	50%	140%	78%	50%	140%

Quality Assurance

CLIENT NAME: DEFENCE CONSTRUCTION CANADA

AGAT WORK ORDER: 16P118076

PROJECT: ALERT

ATTENTION TO: Cameron Chadwick

SAMPLING SITE:

SAMPLED BY: Kelsey Davidson

Trace Organics Analysis (Continued)

RPT Date: Jul 28, 2016			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE			MATRIX SPIKE			
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Comments: RPD value not available (NA); results of the duplicates are under 5X the RDL and will not be calculated.

Certified By:


Quality Assurance

CLIENT NAME: DEFENCE CONSTRUCTION CANADA

AGAT WORK ORDER: 16P118076

PROJECT: ALERT

ATTENTION TO: Cameron Chadwick

SAMPLING SITE:

SAMPLED BY: Kelsey Davidson

Water Analysis															
RPT Date: Jul 28, 2016			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Inorganic Chemistry - Surface Water Sample															
BOD (5)	7721336		107	107	0.0%	< 5	101%	75%	125%	NA			NA		
Electrical Conductivity	7721021		416	413	0.7%	< 2	107%	80%	120%	NA			NA		
pH	7721021		7.63	7.60	0.4%	NA	101%	90%	110%	NA			NA		
Total Suspended Solids	7722637		77	85	9.9%	< 10	100%	80%	120%	NA			NA		
Alkalinity (as CaCO3)	7721021		159	150	5.8%	< 5	103%	80%	120%	NA			NA		
Nitrate as N	7723468		<0.5	<0.5	NA	< 0.05	103%	90%	110%	95%	90%	110%	112%	80%	120%
Nitrite as N	7723468		<0.5	<0.5	NA	< 0.05	NA	90%	110%	97%	90%	110%	96%	80%	120%
Sulphate	7723468		114	115	0.9%	< 0.10	99%	90%	110%	105%	90%	110%	107%	80%	120%
Ammonia as N	7726271		0.80	0.80	0.0%	< 0.02	99%	90%	110%	99%	90%	110%	106%	80%	120%
Chemical Oxygen Demand	7722383		96	89	7.6%	< 5	100%	80%	120%	96%	90%	110%	92%	70%	130%
Phenols	7720406		<0.001	<0.001	NA	< 0.001	104%	90%	110%	103%	90%	110%	103%	80%	120%
Calcium	7722526		44.0	44.3	0.7%	< 0.05	103%	90%	110%	101%	90%	110%	101%	70%	130%
Magnesium	7722526		17.4	17.5	0.6%	< 0.05	97%	90%	110%	95%	90%	110%	100%	70%	130%
Sodium	7722526		86.8	86.8	0.0%	< 0.05	103%	90%	110%	103%	90%	110%	108%	70%	130%
Potassium	7722526		23.5	23.5	0.0%	< 0.05	103%	90%	110%	103%	90%	110%	112%	70%	130%
Total Arsenic	7722399		0.004	0.004	NA	< 0.001	103%	90%	110%	100%	80%	120%	104%	70%	130%
Total Cadmium	7722399		<0.00002	<0.00002	NA	< 0.00002	102%	90%	110%	100%	80%	120%	103%	70%	130%
Total Chromium	7722399		<0.002	<0.002	NA	< 0.002	102%	90%	110%	105%	80%	120%	104%	70%	130%
Total Copper	7722399		0.042	0.047	11.2%	< 0.002	103%	90%	110%	102%	80%	120%	106%	70%	130%
Total Lead	7722399		0.003	0.003	NA	< 0.001	109%	90%	110%	108%	80%	120%	110%	70%	130%
Total Mercury	7726271		<0.00002	<0.00002	NA	< 0.00002	102%	90%	110%	101%	90%	110%	100%	80%	120%
Total Nickel	7722399		0.019	0.018	5.4%	< 0.003	101%	90%	110%	103%	80%	120%	98%	70%	130%

Comments: NA signifies Not Applicable.

Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Certified By:



Method Summary

CLIENT NAME: DEFENCE CONSTRUCTION CANADA
AGAT WORK ORDER: 16P118076
PROJECT: ALERT
ATTENTION TO: Cameron Chadwick
SAMPLING SITE:
SAMPLED BY: Kelsey Davidson

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Microbiology Analysis			
Fecal Coliform	MIC-93-7000	SM 9222 D	MF/INCUBATOR
Trace Organics Analysis			
Benzene	VOL-91-5010	MOE PHC-E3421	(P&T)GC/FID
Toluene	VOL-91-5010	MOE PHC-E3421	(P&T)GC/FID
Ethylbenzene	VOL-91-5010	MOE PHC-E3421	(P&T)GC/FID
Xylene Mixture	VOL-91-5010	MOE PHC-E3421	(P&T)GC/FID
F1 (C6 to C10)	VOL-91-5010	MOE PHC-E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	MOE PHC-E3421	(P&T)GC/FID
F2 (C10 to C16)	VOL-91-5010	MOE PHC-E3421	GC/FID
F3 (C16 to C34)	VOL-91-5010	MOE PHC-E3421	GC/FID
F4 (C34 to C50)	VOL-91-5010	MOE PHC-E3421	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5010	MOE PHC-E3421	BALANCE
Terphenyl	VOL-91-5010		GC/FID
Oil and Grease (animal/vegetable)	VOL-91- 5011	SM 5520 & EPA SW846 3510C & EPA 1664	GRAVIMETRIC
Oil and Grease (mineral) in water	VOL-91- 5011	SM 5520 & EPA SW846 3510C & EPA 1664	GRAVIMETRIC
Oil and Grease (Total) in water	VOL-91- 5011	SM 5520 & EPA SW846 3510C & EPA 1664	GRAVIMETRIC
1-Methylnaphthalene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
2-Methylnaphthalene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Acenaphthene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Acenaphthylene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Acridine	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Anthracene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Benzo(a)anthracene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Benzo(a)pyrene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Benzo(b)fluoranthene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Benzo(e)pyrene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Benzo(ghi)perylene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Benzo(k)fluoranthene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Chrysene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Dibenzo(a,h)anthracene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Fluoranthene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Fluorene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Naphthalene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Perylene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Phenanthrene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Pyrene	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Quinoline	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Nitrobenzene-d5	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
2-Fluorobiphenyl	ORG-120-5104	EPA SW846/3510/8270C	GC/MS
Terphenyl-d14	ORG-120-5104	EPA SW846/3510/8270C	GC/MS



Method Summary

CLIENT NAME: DEFENCE CONSTRUCTION CANADA

AGAT WORK ORDER: 16P118076

PROJECT: ALERT

ATTENTION TO: Cameron Chadwick

SAMPLING SITE:

SAMPLED BY: Kelsey Davidson

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
BOD (5)	INOR-93-6006	SM 5210 B	DO METER
Electrical Conductivity	INOR-93-6000	SM 2510 B	PC TITRATE
pH	INOR-93-6000	SM 4500-H+ B	PC TITRATE
Total Suspended Solids	INOR-93-6028	SM 2540 D	BALANCE
Total Hardness (as CaCO ₃)	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Alkalinity (as CaCO ₃)	INOR-93-6000	SM 2320 B	PC TITRATE
Nitrate as N	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Nitrite as N	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Sulphate	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Ammonia as N	INOR-93-6059	QuikChem 10-107-06-1-J & SM 4500 NH ₃ -F	LACHAT FIA
Chemical Oxygen Demand	INOR-93-6042	SM 5220 D	SPECTROPHOTOMETER
Phenols	INOR-93-6050	MOE ROPHEN-E 3179 & SM 5530 D	TECHNICON AUTO ANALYZER
Calcium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Magnesium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Sodium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Potassium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Total Arsenic	MET-93-6103	EPA SW-846 3010A & 6020A	ICP-MS
Total Cadmium	MET -93-6103	EPA SW-846 3010A & 6020A	ICP-MS
Total Chromium	MET-93-6103	EPA SW-846 3010A & 6020A	ICP-MS
Total Copper	MET-93-6103	EPA SW-846 3010A & 6020A	ICP-MS
Total Iron	MET-93-6103	EPA SW-846 3010A & 6020A	ICP-MS
Total Lead	MET-93-6103	EPA SW-846 3010A & 6020A	ICP-MS
Total Mercury	MET-93-6100	EPA SW-846 7470 & 245.1	CVAAS
Total Nickel	MET-93-6103	EPA SW-846 3010A & 6020A	ICP-MS



AGAT

Laboratories

M131

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Report Information:

Company: Defence Const Canada
Contact: CAMERON CHADWICK
Address: 28 ALERT AVE
ASTRA ON KOK BWO
613-243-4807 Fax: 613-965-2974
Phone: 613-965-2974
Reports to be sent to: Cameron.chadwick@dc-cde.gc.ca
1. Email: Cameron.chadwick@dc-cde.gc.ca
2. Email:

Project Information:

Project: ALERT
Site Location: ALERT
Sampled By: K DAVIDSON
AGAT Quote #: _____ PO: _____

Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company: _____
Contact: _____
Address: _____
Email: _____

Regulatory Requirements:

☐ No Regulatory Requirement

(Please check all applicable boxes)

☐ Regulation 153/04

☐ Sewer Use

☐ Regulation 558

Table - Indicate One

☐ Ind/Com

☐ Res/Park

☐ Agriculture

☐ Sanitary

☐ Storm

☒ CCME

☐ Prov. Water Quality

Objectives (PWQO)

☐ Other

Soil Texture (Check One)

☐ Coarse

☐ Fine

Region

Indicate One

Indicate One

Is this submission for a
Record of Site Condition?

☐ Yes

☐ No

Report Guideline on
Certificate of Analysis

☐ Yes

☐ No

Sample Matrix

Legend

B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SW Surface Water

Field Filtered - Metals, Hg, CrVI
(Please Circle)

Metals and Inorganics

Metal Scan

Hydride Forming Metals

Client Custom Metals

ORPs: ☐ B-HWS ☐ Cl ☐ CN

☐ Cr⁶⁺ ☐ EC ☐ FOC ☐ NO₂/NO₃

☐ Total N ☐ Hg ☐ pH ☐ SAR

Nutrients: ☐ TP ☐ NH₃ ☐ TKN

☐ NO₃ ☐ NO₂ ☐ NO₂/NO₃

Volatiles: ☐ VOC ☒ BTEX ☐ THM

CCME Fractions 1 to 4

ABNS

PAHS

Chlorophenols

PCBs

Organochlorine Pesticides

TCLP Metals/Inorganics

Sewer Use

Anions (Ca, Mg, K, Na, SO₄)

Gen Chem (Conc, pH)

alkalinity, hardness

phenols, TSS, BOD

CO₂, Fecal Coliform

Oil & Grease

Pb, Phenols

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y / N	Metals	Metal Scan	Hydride	Client	ORPs: <input type="checkbox"/> Cr ⁶⁺ <input type="checkbox"/> Total	Nutrient <input type="checkbox"/> NO ₃	Volatil	CCME	ABNs	PAHs	Chloro	PCBs	Organic	TCLP N	Sewer	Ani	Gen	al	pH	CO ₂	PH
ALT 4	07/18/2016	11:00am	11	SW						X		X	X	X		X						X	X			X	
								</																			

Samples Relinquished By (Print Name and Sign): <u>KELSEY DAVIDSON</u> Kelsey Davidson	Date: <u>07/18/2016</u>	Time: <u>2:30pm</u>	Samples Received By (Print Name and Sign): <u>Kelsey Davidson</u>	Date: <u>07-20-16</u>	Time: <u>2:55</u>	Page <u>1</u> of <u>1</u>
Samples Relinquished By (Print Name and Sign): <u>Kelsey Davidson</u>	Date: <u>7-20-16</u>	Time: <u>4pm</u>	Samples Received By (Print Name and Sign):	Date:	Time:	Nº: <u>T 026862</u>