AGAT Laboratories

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
14 ALERT BLVD, 8 WING TRENTON
ASTRA, ON K0K3W0
(613) 392-2811

ATTENTION TO: Cameron Chadwick

PROJECT: Alert Eureka

AGAT WORK ORDER: 17T243248

MICROBIOLOGY ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Parvathi Malemath, Data Reviewer

DATE REPORTED: Aug 09, 2017

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.

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Certificate of Analysis

AGAT WORK ORDER: 17T243248

PROJECT: Alert Eureka

CLIENT NAME: DEFENCE CONSTRUCTION CANADA

ATTENTION TO: Cameron Chadwick

SAMPLING SITE:

SAMPLED BY:Kelsey Davidson

Microbiological Analysis (water)

DATE RECEIVED: 2017-07-28

DATE REPORTED: 2017-08-09

			SAMPLE DESCRIPTION:	ALT 4
			SAMPLE TYPE:	Water
			DATE SAMPLED:	2017-07-25
Parameter	Unit	G / S	RDL	8603875
Fecal Coliform	CFU/100mL		2	ND

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to SDWA - Microbiology
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

8603875 RDL >1 indicates dilutions of the sample.
ND - Not Detected.
HOLDING TIME-the time from sample collection to initiation of analysis exceeded 48 hours

Certified By: Vivine Basily

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SAMPLING SITE:

SAMPLED BY:Kelsey Davidson

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

DATE RECEIVED: 2017-07-28

DATE REPORTED: 2017-08-09

		SAMPLE DESCRIPTION:		ALT 4
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2017-07-25
Parameter	**Unit**	**G / S**	**RDL**	**8603875**
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		66

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

8603875

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

Certified By: N Popowich

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ATTENTION TO: Cameron Chadwick

SAMPLING SITE:

SAMPLED BY:Kelsey Davidson

Oil and Grease (+Total) - water

DATE RECEIVED: 2017-07-28

DATE REPORTED: 2017-08-09

		SAMPLE DESCRIPTION:		ALT 4
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2017-07-25
Parameter	**Unit**	**G / S**	**RDL**	**8603875**
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

Certified By: N Popowich

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ATTENTION TO: Cameron Chadwick

SAMPLING SITE:

SAMPLED BY:Kelsey Davidson

Polycyclic Aromatic Hydrocarbons in Water - (PAH)

DATE RECEIVED: 2017-07-28

DATE REPORTED: 2017-08-09

		SAMPLE DESCRIPTION:		ALT 4
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2017-07-25
Parameter	**Unit**	**G / S**	**RDL**	**8603875**
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		68
2-Fluorobiphenyl	%	50-140		84
Terphenyl-d14	%	50-140		71

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

Certified By: N Popnikolof

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SAMPLING SITE:

SAMPLED BY:Kelsey Davidson

Inorganic Chemistry (Water)

DATE RECEIVED: 2017-07-28

DATE REPORTED: 2017-08-09

		SAMPLE DESCRIPTION:		ALT 4
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2017-07-25
Parameter	Unit	G / S	RDL	8603875
BOD (5)	mg/L		5	<5
Electrical Conductivity	uS/cm		2	212
pH	pH Units		NA	7.50
Total Suspended Solids	mg/L		10	70
Total Hardness (as CaCO3)	mg/L		0.5	79.0
Alkalinity (as CaCO3)	mg/L		5	71
Chloride	mg/L		0.10	11.0
Nitrate as N	mg/L		0.05	0.22
Nitrite as N	mg/L		0.05	<0.05
Sulphate	mg/L		0.10	17.3
Ammonia as N	mg/L		0.02	<0.02
Chemical Oxygen Demand	mg/L		5	<5
Phenols	µg/L		1	<1
Calcium	mg/L		0.05	26.0
Magnesium	mg/L		0.05	3.41
Sodium	mg/L		0.05	6.81
Potassium	mg/L		0.05	1.54
Total Arsenic	mg/L		0.015	<0.015
Total Cadmium	mg/L		0.010	<0.010
Total Chromium	mg/L		0.015	<0.015
Total Copper	mg/L		0.015	<0.015
Total Iron	mg/L		0.050	3.77
Total Lead	µg/L		0.5	3.3
Total Mercury	mg/L		0.0002	<0.0002
Total Nickel	mg/L		0.015	<0.015

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

8603875 Please note that pH & TSS were completed past hold time. The results should be reviewed with discretion.

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Quality Assurance

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PROJECT: Alert Eureka

ATTENTION TO: Cameron Chadwick

SAMPLING SITE:

SAMPLED BY:Kelsey Davidson

Microbiology Analysis

RPT Date: Aug 09, 2017			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Microbiological Analysis (water)															
Fecal Coliform	8603875	8603875	ND	ND	NA	< 1									

Comments: ND – Not detected; NA - % RPD Not Applicable

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SAMPLING SITE:

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Trace Organics Analysis

RPT Date: Aug 09, 2017			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Polycyclic Aromatic Hydrocarbons in Water - (PAH)															
1-Methylnaphthalene	1	8593255	< 0.01	< 0.01	NA	< 0.01	102%	50%	140%	67%	50%	140%	69%	50%	140%
2-Methylnaphthalene	1	8593255	< 0.01	< 0.01	NA	< 0.01	101%	50%	140%	67%	50%	140%	68%	50%	140%
Acenaphthene	1	8593255	< 0.01	< 0.01	NA	< 0.01	101%	50%	140%	68%	50%	140%	59%	50%	140%
Acenaphthylene	1	8593255	< 0.01	< 0.01	NA	< 0.01	96%	50%	140%	68%	50%	140%	59%	50%	140%
Acridine	1	8593255	< 0.01	< 0.01	NA	< 0.01	85%	50%	140%	56%	50%	140%	62%	50%	140%
Anthracene	1	8593255	< 0.012	< 0.012	NA	< 0.012	94%	50%	140%	59%	50%	140%	58%	50%	140%
Benzo(a)anthracene	1	8593255	< 0.018	< 0.018	NA	< 0.018	91%	50%	140%	57%	50%	140%	59%	50%	140%
Benzo(a)pyrene	1	8593255	< 0.010	< 0.010	NA	< 0.010	101%	50%	140%	68%	50%	140%	81%	50%	140%
Benzo(b)fluoranthene	1	8593255	< 0.01	< 0.01	NA	< 0.01	111%	50%	140%	57%	50%	140%	63%	50%	140%
Benzo(e)pyrene	1	8593255	< 0.01	< 0.01	NA	< 0.01	96%	50%	140%	60%	50%	140%	67%	50%	140%
Benzo(ghi)perylene	1	8593255	< 0.01	< 0.01	NA	< 0.01	93%	50%	140%	87%	50%	140%	88%	50%	140%
Benzo(k)fluoranthene	1	8593255	< 0.01	< 0.01	NA	< 0.01	108%	50%	140%	56%	50%	140%	62%	50%	140%
Chrysene	1	8593255	< 0.01	< 0.01	NA	< 0.01	103%	50%	140%	65%	50%	140%	61%	50%	140%
Dibenzo(a,h)anthracene	1	8593255	< 0.01	< 0.01	NA	< 0.01	127%	50%	140%	81%	50%	140%	91%	50%	140%
Fluoranthene	1	8593255	< 0.01	< 0.01	NA	< 0.01	89%	50%	140%	59%	50%	140%	64%	50%	140%
Fluorene	1	8593255	< 0.01	< 0.01	NA	< 0.01	97%	50%	140%	68%	50%	140%	63%	50%	140%
Indeno(1,2,3-cd)pyrene	1	8593255	< 0.01	< 0.01	NA	< 0.01	107%	50%	140%	73%	50%	140%	88%	50%	140%
Naphthalene	1	8593255	< 0.01	< 0.01	NA	< 0.01	104%	50%	140%	66%	50%	140%	68%	50%	140%
Perylene	1	8593255	< 0.01	< 0.01	NA	< 0.01	116%	50%	140%	75%	50%	140%	89%	50%	140%
Phenanthrene	1	8593255	< 0.01	< 0.01	NA	< 0.01	101%	50%	140%	61%	50%	140%	64%	50%	140%
Pyrene	1	8593255	< 0.01	< 0.01	NA	< 0.01	91%	50%	140%	59%	50%	140%	65%	50%	140%
Quinoline	1	8593255	< 0.01	< 0.01	NA	< 0.01	91%	50%	140%	70%	50%	140%	61%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (Water)															
Benzene	8606660		< 0.20	< 0.20	NA	< 0.20	85%	50%	140%	92%	60%	130%	94%	50%	140%
Toluene	8606660		< 0.20	< 0.20	NA	< 0.20	87%	50%	140%	97%	60%	130%	97%	50%	140%
Ethylbenzene	8606660		< 0.10	< 0.10	NA	< 0.10	86%	50%	140%	96%	60%	130%	96%	50%	140%
Xylene Mixture	8606660		< 0.20	< 0.20	NA	< 0.20	89%	50%	140%	109%	60%	130%	106%	50%	140%
F1 (C6 to C10)	8606660		< 25	< 25	NA	< 25	82%	60%	140%	86%	60%	140%	90%	60%	140%
F2 (C10 to C16)		TW	< 100	< 100	NA	< 100	104%	60%	140%	63%	60%	140%	60%	60%	140%
F3 (C16 to C34)		TW	< 100	< 100	NA	< 100	99%	60%	140%	91%	60%	140%	65%	60%	140%
F4 (C34 to C50)		TW	< 100	< 100	NA	< 100	98%	60%	140%	88%	60%	140%	72%	60%	140%
Oil and Grease (+Total) - water															
Oil and Grease (animal/vegetable)		TW	< 0.5	< 0.5	NA	< 0.5	NA	70%	130%	111%	70%	130%	108%	70%	130%
Oil and Grease (mineral) in water		TW	< 0.5	< 0.5	NA	< 0.5	NA	70%	130%	77%	70%	130%	74%	70%	130%
Oil and Grease (Total) in water		TW	< 0.5	< 0.5	NA	< 0.5	NA	70%	130%	94%	70%	130%	91%	70%	130%

Comments: If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution.
If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

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Quality Assurance

CLIENT NAME: DEFENCE CONSTRUCTION CANADA

AGAT WORK ORDER: 17T243248

PROJECT: Alert Eureka

ATTENTION TO: Cameron Chadwick

SAMPLING SITE:

SAMPLED BY:Kelsey Davidson

Trace Organics Analysis (Continued)

RPT Date: Aug 09, 2017			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

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).

Certified By: N Popnikolof

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AGAT WORK ORDER: 17T243248

PROJECT: Alert Eureka

ATTENTION TO: Cameron Chadwick

SAMPLING SITE:

SAMPLED BY:Kelsey Davidson

Water Analysis

RPT Date: Aug 09, 2017			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Inorganic Chemistry (Water)															
BOD (5)	8601872		<5	<5	NA	< 5	103%	75%	125%						
Electrical Conductivity	8604909		1270	1270	0.0%	< 2	103%	80%	120%						
pH	8604909		7.78	7.82	0.5%	NA	100%	90%	110%						
Total Suspended Solids	8603875	8603875	70	73	4.2%	< 10	100%	80%	120%						
Alkalinity (as CaCO3)	8604909		67	68	1.5%	< 5	98%	80%	120%						
Chloride	8601062	8601062	0.20	0.22	NA	< 0.10	90%	90%	110%	106%	90%	110%	106%	80%	120%
Nitrate as N	8601062	8601062	0.05	0.05	NA	< 0.05	98%	90%	110%	103%	90%	110%	102%	80%	120%
Nitrite as N	8601062	8601062	< 0.05	< 0.05	NA	< 0.05	NA	90%	110%	100%	90%	110%	102%	80%	120%
Sulphate	8601062	8601062	3.60	3.60	0.0%	< 0.10	99%	90%	110%	103%	90%	110%	100%	80%	120%
Ammonia as N	8606324		2.69	2.70	0.4%	< 0.02	90%	90%	110%	102%	90%	110%	96%	80%	120%
Chemical Oxygen Demand	8603875	8603875	<5	<5	NA	< 5	99%	80%	120%	93%	90%	110%	93%	70%	130%
Phenols	8602937		<1	<1	NA	< 1	98%	90%	110%	103%	90%	110%	101%	80%	120%
Calcium	8604909		86.8	86.8	0.0%	< 0.05	101%	90%	110%	101%	90%	110%	100%	70%	130%
Magnesium	8604909		32.3	32.2	0.3%	< 0.05	100%	90%	110%	99%	90%	110%	101%	70%	130%
Sodium	8604909		110	109	0.9%	< 0.05	102%	90%	110%	102%	90%	110%	104%	70%	130%
Potassium	8604909		9.46	9.50	0.4%	< 0.05	99%	90%	110%	99%	90%	110%	104%	70%	130%
Total Arsenic	8605159		<0.015	<0.015	NA	< 0.015	100%	90%	110%	101%	80%	120%	99%	70%	130%
Total Cadmium	8605159		<0.010	<0.010	NA	< 0.010	97%	90%	110%	106%	80%	120%	103%	70%	130%
Total Chromium	8605159		<0.015	<0.015	NA	< 0.015	98%	90%	110%	102%	80%	120%	95%	70%	130%
Total Copper	8605159		<0.015	<0.015	NA	< 0.015	102%	90%	110%	109%	80%	120%	101%	70%	130%
Total Iron	8605159		0.773	0.838	8.1%	< 0.050	105%	90%	110%	113%	80%	120%	111%	70%	130%
Total Lead	8605159		<0.5	<0.5	NA	< 0.5	95%	90%	110%	99%	80%	120%	92%	70%	130%
Total Mercury	8602554		<0.0002	<0.0002	NA	< 0.0002	99%	90%	110%	101%	90%	110%	99%	80%	120%
Total Nickel	8605159		0.025	0.026	NA	< 0.015	106%	90%	110%	111%	80%	120%	103%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate Qualifier: As the measured result approaches the RL (Reporting Limit), 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:

AGAT Laboratories

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Method Summary

CLIENT NAME: DEFENCE CONSTRUCTION CANADA

AGAT WORK ORDER: 17T243248

PROJECT: Alert Eureka

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	Membrane Filtration
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

AGAT Laboratories

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

Method Summary

CLIENT NAME: DEFENCE CONSTRUCTION CANADA

AGAT WORK ORDER: 17T243248

PROJECT: Alert Eureka

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;SM 2310 B	PC TITRATE
Total Suspended Solids	INOR-93-6028	SM 2540 D	BALANCE
Total Hardness (as CaCO3)	MET-93-6105	EPA SW-846 6010C & 200.7 & SM 2340 B	ICP/OES
Alkalinity (as CaCO3)	INOR-93-6000	SM 2320 B	PC TITRATE
Chloride	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
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 NH3-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-93-6003	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 MIBI

Short Holding Time

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 consumed by humans)

Laboratory Use Only

Work Order #: 17T243248

Cooler Quantity: 1

Arrival Temperatures: 7 | 7 | 7 — 7 | 6.9 | 6

Custody Seal Intact: ☐Yes ☐No ☐N/A

Notes:

Report Information:

Company: DCC
Contact: Cameron Chadwick
Address: 29 Alert Blvd, Astra, ON K0K 3W0
Phone: Fax:
Reports to be sent to:
1. Email: cameron.chadwick@dcc-cdc.gc.ca
2. Email: kelsey.davidson@dcc-cdc.gc.ca

Regulatory Requirements:

☐ No Regulatory Requirement

(Please check all applicable boxes)

☐Regulation 153/04 — Table (Indicate One): ☐Ind/Com ☐Res/Park ☐Agriculture; Soil Texture (Check One): ☐Coarse ☐Fine

☐Sewer Use: ☐Sanitary ☐Storm; Region (Indicate One); ☐MISA

☐Regulation 558
☐CCME
☐Prov. Water Quality Objectives (PWQO)
☐Other (Indicate One)

Is this submission for a Record of Site Condition? ☐ Yes ☐ No

Report Guideline on Certificate of Analysis: ☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Project Information:

Project: ALERT EUREKA
Site Location:
Sampled By: Kelsey Davidson
AGAT Quote #: TRKGENV4 SC65710 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:

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI (Y/N)	Metals and Inorganics (N, Cu, Mg, K, Na, Zn)	☐ All Metals ☐ 153 Metals (excl. Hydrides)	☐ Hydride Metals ☐ 153 Metals (incl. Hydrides)	ORPs: ☐B-HWS ☐Cl ☐CN ☐Cr6+ ☐EC ☐FOC ☐Hg ☐pH ☐SAR	Full Metals Scan (As, Cd, Cr, Cu, Fe, Hg, Pb, Ni)	Regulation/Custom Metals	Nutrients: ☐TP ☒NH3 ☐TKN ☒NO3 ☒NO2 ☐NO3+NO2	Volatiles: ☐VOC ☒BTEX ☐THM	CCME Fractions 1 to 4	ABNs	PAHs	PCBs: ☐Total ☐Aroclors	Organochlorine Pesticides	TCLP: ☐M&I ☐VOCs ☐ABNs ☐B(a)P ☐PCBs	Sewer Use	Phenols	Oil + Grease	Al, TSS, BOD, COD	E. coliforms	Conductivity, Alkalinity	Hardness
ALT 4	25/07/2017	11:15am	14	SW			X				X		X	X	X		X					X	X	X	X	X	X

Short Holding Time

Please run even if expired

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Kelsey Davidson Kelsey Davidson	25/07/2017		Kellym	7.28.17	3:15
Kellym	7.28.17	4pm	Sim Z	17/7/29	9:30

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