AGAT Laboratories

57 Old Pennywell Road, Unit I
St. John's, NL
CANADA A1E 6A8
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FAX (709 747-2139
http://www.agatlabs.com

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICE
JOHN CABOT BLDG,10 BARTERS HILL,BOX 4600
ST. JOHNS, NL A1C5T2
(709) 772-5396

ATTENTION TO: Cathy Martin

PROJECT: AGAT16-59 700406785/R.090602.002

AGAT WORK ORDER: 18K324778

SOIL ANALYSIS REVIEWED BY: Jason Coughtrey, Inorganics Supervisor

TRACE ORGANICS REVIEWED BY: Amy Hunter, Trace Organics Supervisor, B.Sc.

DATE REPORTED: Apr 10, 2018

PAGES (INCLUDING COVER): 14

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

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: 18K324778

PROJECT: AGAT16-59 700406785/R.090602.002

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICE

ATTENTION TO: Cathy Martin

SAMPLING SITE:

SAMPLED BY:

PWGSC NL - Marine Sediment Package - Inorganics

DATE RECEIVED: 2018-03-29

DATE REPORTED: 2018-04-10

				SAMPLE DESCRIPTION:	3118-BHA-GS-0Z
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2018-03-26
Parameter	Unit	G / S	RDL		9156418
Aluminum	mg/kg		10		8580
Antimony	mg/kg		1		<1
Arsenic	mg/kg		1		31
Barium	mg/kg		5		48
Beryllium	mg/kg		2		<2
Boron	mg/kg		2		164
Cadmium	mg/kg		0.3		2.1
Chromium	mg/kg		2		55
Cobalt	mg/kg		1		10
Copper	mg/kg		2		108
Iron	mg/kg		50		28000
Lead	mg/kg		0.5		127
Manganese	mg/kg		2		361
Molybdenum	mg/kg		2		12
Nickel	mg/kg		2		32
Selenium	mg/kg		1		3
Silver	mg/kg		0.5		<0.5
Strontium	mg/kg		5		332
Thallium	mg/kg		0.1		0.2
Tin	mg/kg		2		14
Uranium	mg/kg		0.1		6.1
Vanadium	mg/kg		2		100
Zinc	mg/kg		5		315
Mercury	mg/kg		0.05		0.30
pH					7.79
Cyanide	µg/g		0.040		<0.040

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PROJECT: AGAT16-59 700406785/R.090602.002

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICE

ATTENTION TO: Cathy Martin

SAMPLING SITE:

SAMPLED BY:

PWGSC NL - Marine Sediment Package - Inorganics

DATE RECEIVED: 2018-03-29

DATE REPORTED: 2018-04-10

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

9156418 Results are based on the dry weight of the sample.

Cyanide analysed at AGAT Mississauga.

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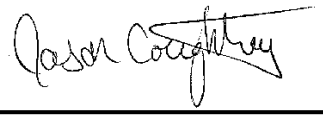

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AGAT WORK ORDER: 18K324778

PROJECT: AGAT16-59 700406785/R.090602.002

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICE

ATTENTION TO: Cathy Martin

SAMPLING SITE:

SAMPLED BY:

Moisture

DATE RECEIVED: 2018-03-29

DATE REPORTED: 2018-04-10

				SAMPLE DESCRIPTION:	3118-BHA-GS-0Z
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2018-03-26
Parameter	Unit	G / S	RDL	9156418	
% Moisture	%			77	

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

Certified By:

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PROJECT: AGAT16-59 700406785/R.090602.002

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICE

ATTENTION TO: Cathy Martin

SAMPLING SITE:

SAMPLED BY:

PWGSC NL - Marine Sediment Package - Atlantic RBCA Tier 1 Hydrocarbons in Soil (Version 3.1) - Field Preserved

DATE RECEIVED: 2018-03-29

DATE REPORTED: 2018-04-10

					3118-BHA-GS-
			SAMPLE DESCRIPTION:		0Z
			SAMPLE TYPE:		Soil
			DATE SAMPLED:		2018-03-26
Parameter	**Unit**	**G / S: A**	**G / S: B**	**RDL**	**9156418**
Benzene	mg/kg	0.030	0.0068	0.03	<0.03[<A]
Toluene	mg/kg	0.37	0.08	0.04	<0.04[<B]
Ethylbenzene	mg/kg	0.082	0.018	0.03	<0.03[<A]
Xylene (Total)	mg/kg	11	2.4	0.05	<0.05[<B]
C6-C10 (less BTEX)	mg/kg			3	<3
>C10-C16 Hydrocarbons	mg/kg			15	276
>C16-C21 Hydrocarbons	mg/kg			15	661
>C21-C32 Hydrocarbons	mg/kg			15	1690
Modified TPH (Tier 1)	mg/kg			20	2630
Resemblance Comment					WFOF+LOF
Return to Baseline at C32					Y
Surrogate	**Unit**		**Acceptable Limits**		
Isobutylbenzene - EPH	%		60-140		92
Isobutylbenzene - VPH	%		60-140		102
n-Dotriacontane - EPH	%		60-140		122

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: A Refers to CCME Industrial Guidelines for Soil, Coarse, B Refers to CCME Industrial Guidelines for Soil, Fine
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.

9156418 Results are based on the dry weight of the soil.

Resemblance Comment Key:
GF - Gasoline Fraction
WGF - Weathered Gasoline Fraction
GR - Product in Gasoline Range
FOF - Fuel Oil Fraction
WFOF - Weathered Fuel Oil Fraction
FR - Product in Fuel Oil Range
LOF - Lube Oil Fraction
LR - Lube Range
UC - Unidentified Compounds
NR - No Resemblance
NA - Not Applicable

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CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICE

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SAMPLING SITE:

SAMPLED BY:

PWGSC NL - Marine Sediment Package - PAH in Sediment

DATE RECEIVED: 2018-03-29

DATE REPORTED: 2018-04-10

				SAMPLE DESCRIPTION:	3118-BHA-GS-0Z
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2018-03-26
Parameter	**Unit**	**G / S: A**	**G / S: B**	**RDL**	**9156418**
1-Methylnaphthalene	mg/kg			0.05	0.08
2-Methylnaphthalene	mg/kg			0.02	0.10
Acenaphthene	mg/kg	Factsheet	Factsheet	0.00671	0.478
Acenaphthylene	mg/kg	Factsheet	Factsheet	0.005	0.605
Anthracene	mg/kg	Factsheet	Factsheet	0.03	2.27
Benzo(a)anthracene	mg/kg	Factsheet	Factsheet	0.01	6.08
Benzo(a)pyrene	mg/kg	Factsheet	Factsheet	0.01	3.12
Benzo(b)fluoranthene	mg/kg	Factsheet	Factsheet	0.05	2.77
Benzo(j,k)fluoranthane	mg/Kg			0.05	2.33
Benzo(ghi)perylene	mg/kg			0.01	1.11
Chrysene	mg/kg	Factsheet	Factsheet	0.01	5.90
Dibenzo(a,h)anthracene	mg/kg	Factsheet	Factsheet	0.006	<0.006
Fluoranthene	mg/kg	Factsheet	Factsheet	0.05	16.0
Fluorene	mg/kg	Factsheet	Factsheet	0.01	0.73
Indeno(1,2,3)pyrene	mg/kg	Factsheet	Factsheet	0.01	1.36
Naphthalene	mg/kg	Factsheet	Factsheet	0.01	0.18
Perylene	mg/kg			0.05	0.62
Phenanthrene	mg/kg	Factsheet	Factsheet	0.03	4.07
Pyrene	mg/kg	Factsheet	Factsheet	0.05	8.41
Surrogate	**Unit**		**Acceptable Limits**		
Nitrobenzene-d5	%		50-140		84
2-Fluorobiphenyl	%		50-140		85
Terphenyl-d14	%		50-140		111

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: A Refers to CCME Industrial Guidelines for Soil, Coarse, B Refers to CCME Industrial Guidelines for Soil, Fine
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.

9156418 Results are based on the dry weight of the soil.

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CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICE

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SAMPLING SITE:

SAMPLED BY:

PWGSC NL - Marine Sediment Package - PCB in Sediment

DATE RECEIVED: 2018-03-29

DATE REPORTED: 2018-04-10

				SAMPLE DESCRIPTION:	**3118-BHA-GS-0Z**
				SAMPLE TYPE:	**Soil**
				DATE SAMPLED:	**2018-03-26**
Parameter	**Unit**	**G / S: A**	**G / S: B**	**RDL**	**9156418**
Total Polychlorinated Biphenyls	mg/kg	33	33	0.02	1.80[<A]
Surrogate	**Unit**		**Acceptable Limits**		
Decachlorobiphenyl	%		50-130		88

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: A Refers to CCME Industrial Guidelines for Soil, Coarse, B Refers to CCME Industrial Guidelines for Soil, Fine
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.

9156418 Results are based on the dry weight of the soil.

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Quality Assurance

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICE

AGAT WORK ORDER: 18K324778

PROJECT: AGAT16-59 700406785/R.090602.002

ATTENTION TO: Cathy Martin

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

RPT Date: Apr 10, 2018			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
PWGSC NL - Marine Sediment Package - Inorganics															
Aluminum	9153335		4660	4420	5.3%	< 10	104%	80%	120%	105%	80%	120%	106%	70%	130%
Antimony	9153335		<1	<1	NA	< 1	90%	80%	120%	104%	80%	120%	77%	70%	130%
Arsenic	9153335		4	4	NA	< 1	101%	80%	120%	100%	80%	120%	100%	70%	130%
Barium	9153335		8	7	NA	< 5	104%	80%	120%	101%	80%	120%	91%	70%	130%
Beryllium	9153335		<2	<2	NA	< 2	109%	80%	120%	109%	80%	120%	97%	70%	130%
Boron	9153335		4	3	NA	< 2	110%	80%	120%	118%	80%	120%	104%	70%	130%
Cadmium	9153335		<0.3	<0.3	NA	< 0.3	98%	80%	120%	100%	80%	120%	101%	70%	130%
Chromium	9153335		9	8	NA	< 2	100%	80%	120%	104%	80%	120%	102%	70%	130%
Cobalt	9153335		5	5	0.0%	< 1	101%	80%	120%	102%	80%	120%	101%	70%	130%
Copper	9153335		3	3	NA	< 2	99%	80%	120%	104%	80%	120%	96%	70%	130%
Iron	9153335		9150	8600	6.2%	< 50	98%	80%	120%	104%	80%	120%	105%	70%	130%
Lead	9153335		1.4	1.6	NA	< 0.5	103%	80%	120%	105%	80%	120%	98%	70%	130%
Manganese	9153335		228	222	2.7%	< 2	107%	80%	120%	110%	80%	120%	107%	70%	130%
Molybdenum	9153335		<2	<2	NA	< 2	94%	80%	120%	96%	80%	120%	89%	70%	130%
Nickel	9153335		11	10	4.2%	< 2	100%	80%	120%	101%	80%	120%	98%	70%	130%
Selenium	9153335		<1	<1	NA	< 1	99%	80%	120%	98%	80%	120%	92%	70%	130%
Silver	9153335		<0.5	<0.5	NA	< 0.5	91%	80%	120%	98%	80%	120%	84%	70%	130%
Strontium	9153335		13	12	NA	< 5	100%	80%	120%	104%	80%	120%	119%	70%	130%
Thallium	9153335		<0.1	<0.1	NA	< 0.1	104%	80%	120%	110%	80%	120%	70%	70%	130%
Tin	9153335		3	3	NA	< 2	97%	80%	120%	100%	80%	120%	98%	70%	130%
Uranium	9153335		0.8	0.8	3.4%	< 0.1	101%	80%	120%	101%	80%	120%	100%	70%	130%
Vanadium	9153335		15	14	5.0%	< 2	101%	80%	120%	103%	80%	120%	110%	70%	130%
Zinc	9153335		26	26	0.3%	< 5	99%	80%	120%	104%	80%	120%	92%	70%	130%
Mercury	1	9153335	<0.05	<0.05	NA	< 0.05	95%	70%	130%		70%	130%	72%	70%	130%
pH	1	9156418	7.79	7.85	0.8%	<	102%	80%	120%		80%	120%		80%	120%
Cyanide	9150779		<0.040	<0.040	NA	< 0.040	98%	90%	110%	99%	90%	110%	101%	70%	130%

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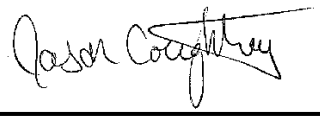

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Quality Assurance

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICE

AGAT WORK ORDER: 18K324778

PROJECT: AGAT16-59 700406785/R.090602.002

ATTENTION TO: Cathy Martin

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Apr 10, 2018			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
PWGSC NL - Marine Sediment Package - Atlantic RBCA Tier 1 Hydrocarbons in Soil (Version 3.1) - Field Preserved															
Benzene	1	9164832	< 0.03	< 0.03	NA	< 0.03	87%	60%	140%	120%	60%	140%	NA		
Toluene	1	9164832	0.039	0.025	NA	< 0.04	97%	60%	140%	120%	60%	140%	NA		
Ethylbenzene	1	9164832	< 0.03	< 0.03	NA	< 0.03	94%	60%	140%	110%	60%	140%	NA		
Xylene (Total)	1	9164832	< 0.05	< 0.05	NA	< 0.05	94%	60%	140%	110%	60%	140%	NA		
C6-C10 (less BTEX)	1	9164832	< 3	< 3	NA	< 3	87%	60%	140%	88%	60%	140%	116%	30%	130%
>C10-C16 Hydrocarbons	1	9152999	1870	1560	18.1%	< 15	85%	60%	140%	113%	60%	140%	NA	30%	130%
>C16-C21 Hydrocarbons	1	9152999	326	258	23.3%	< 15	92%	60%	140%	113%	60%	140%	NA	30%	130%
>C21-C32 Hydrocarbons	1	9152999	115	89	25.5%	< 15	85%	60%	140%	113%	60%	140%	NA	30%	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.

PWGSC NL - Marine Sediment Package - PAH in Sediment															
1-Methylnaphthalene	1	9153329	< 0.05	< 0.05	NA	< 0.05	95%	50%	140%	91%	50%	140%	89%	50%	140%
2-Methylnaphthalene	1	9153329	< 0.02	< 0.02	NA	< 0.02	95%	50%	140%	91%	50%	140%	90%	50%	140%
Acenaphthene	1	9153329	0.00823	0.00913	NA	< 0.00671	97%	50%	140%	91%	50%	140%	90%	50%	140%
Acenaphthylene	1	9153329	< 0.005	< 0.005	NA	< 0.005	88%	50%	140%	83%	50%	140%	81%	50%	140%
Anthracene	1	9153329	< 0.03	< 0.03	NA	< 0.03	84%	50%	140%	80%	50%	140%	79%	50%	140%
Benzo(a)anthracene	1	9153329	0.01	0.01	NA	< 0.01	85%	50%	140%	81%	50%	140%	80%	50%	140%
Benzo(a)pyrene	1	9153329	< 0.01	< 0.01	NA	< 0.01	85%	50%	140%	75%	50%	140%	88%	50%	140%
Benzo(b)fluoranthene	1	9153329	< 0.05	< 0.05	NA	< 0.05	78%	50%	140%	79%	50%	140%	98%	50%	140%
Benzo(ghi)perylene	1	9153329	< 0.01	< 0.01	NA	< 0.01	89%	50%	140%	82%	50%	140%	90%	50%	140%
Chrysene	1	9153329	<0.01	0.01	NA	< 0.01	91%	50%	140%	86%	50%	140%	86%	50%	140%
Dibenzo(a,h)anthracene	1	9153329	< 0.006	< 0.006	NA	< 0.006	82%	50%	140%	71%	50%	140%	82%	50%	140%
Fluoranthene	1	9153329	0.06	0.07	NA	< 0.05	83%	50%	140%	80%	50%	140%	78%	50%	140%
Fluorene	1	9153329	< 0.01	< 0.01	NA	< 0.01	92%	50%	140%	89%	50%	140%	88%	50%	140%
Indeno(1,2,3)pyrene	1	9153329	< 0.01	< 0.01	NA	< 0.01	77%	50%	140%	58%	50%	140%	71%	50%	140%
Naphthalene	1	9153329	< 0.01	< 0.01	NA	< 0.01	98%	50%	140%	94%	50%	140%	92%	50%	140%
Perylene	1	9153329	< 0.05	< 0.05	NA	< 0.05	89%	50%	140%	86%	50%	140%	95%	50%	140%
Phenanthrene	1	9153329	< 0.03	< 0.03	NA	< 0.03	95%	50%	140%	89%	50%	140%	87%	50%	140%
Pyrene	1	9153329	< 0.05	< 0.05	NA	< 0.05	83%	50%	140%	79%	50%	140%	82%	50%	140%

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.

PWGSC NL - Marine Sediment Package - PCB in Sediment															
Total Polychlorinated Biphenyls	1	9156418	1.80	1.65	8.7%	< 0.02	89%	60%	130%	98%	60%	130%	NA	60%	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: PUBLIC WORKS AND GOVERNMENT SERVICE

AGAT WORK ORDER: 18K324778

PROJECT: AGAT16-59 700406785/R.090602.002

ATTENTION TO: Cathy Martin

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Apr 10, 2018			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

Certified By:

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Method Summary

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICE

AGAT WORK ORDER: 18K324778

PROJECT: AGAT16-59 700406785/R.090602.002

ATTENTION TO: Cathy Martin

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Aluminum	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Antimony	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Arsenic	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Barium	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Beryllium	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Boron	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Cadmium	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Chromium	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Cobalt	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Copper	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Iron	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Lead	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP-MS
Manganese	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Molybdenum	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Nickel	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Selenium	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Silver	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Strontium	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Thallium	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Tin	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Uranium	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Vanadium	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Zinc	MET-121-6105 & MET-121-6103	EPA SW 846 6020A/3050B & SM 3125	ICP/MS
Mercury	MET-121-6101 & MET-121-6107	EPA 245.5	CVAAS
pH	INOR-121-6001	modified from Canadian Society of Soil Science p15	
Cyanide	INOR-93-6052	MOE CN-3015 & E 3009 A;SM 4500 CN	TECHNICON AUTO ANALYZER

AGAT Laboratories

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Method Summary

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICE

AGAT WORK ORDER: 18K324778

PROJECT: AGAT16-59 700406785/R.090602.002

ATTENTION TO: Cathy Martin

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
% Moisture		Calculation	GRAVIMETRIC
Benzene	VOL-120-5013	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS
Toluene	VOL-120-5013	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS
Ethylbenzene	VOL-120-5013	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS
Xylene (Total)	VOL-120-5013	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS
C6-C10 (less BTEX)	VOL-120-5013	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS/FID
>C10-C16 Hydrocarbons	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/FID
>C16-C21 Hydrocarbons	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/FID
>C21-C32 Hydrocarbons	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/FID
Modified TPH (Tier 1)	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	CALCULATION
Resemblance Comment	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS/FID
Return to Baseline at C32	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/FID
Isobutylbenzene - EPH	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/FID
Isobutylbenzene - VPH	VOL-120-5013	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS
n-Dotriacontane - EPH	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/FID
1-Methylnaphthalene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
2-Methylnaphthalene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Acenaphthene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Acenaphthylene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Anthracene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Benzo(a)anthracene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Benzo(a)pyrene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Benzo(b)fluoranthene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Benzo(j,k)fluoranthane	ORG-120-5104	CALCULATION	GC/MS
Benzo(ghi)perylene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Chrysene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Dibenzo(a,h)anthracene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Fluoranthene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Fluorene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Indeno(1,2,3)pyrene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Naphthalene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Perylene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Phenanthrene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Pyrene	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Nitrobenzene-d5	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
2-Fluorobiphenyl	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Terphenyl-d14	ORG-120-5104	EPA SW846/3541/3510/8270C	GC/MS
Total Polychlorinated Biphenyls	ORG-120-5106	EPA SW846/8081/8080	GC/ECD

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Method Summary

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICE

AGAT WORK ORDER: 18K324778

PROJECT: AGAT16-59 700406785/R.090602.002

ATTENTION TO: Cathy Martin

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Decachlorobiphenyl	ORG-120-5106	EAP SW846 3510C/8080/8010	GC/ECD

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Chain of Custody Record

Laboratory Use Only
Arrival Condition: ☑ Good ☐ Poor (see notes)
Arrival Temperature: 4.1 C
Hold Time:
AGAT Job Number: 18K324778
Notes:

Report Information
Company: PWGSC
Contact: Cathy Martin
Address: 10 Barter's Hill, PO Box 4600
St. John's, NL
Phone: 709-772-5852 Fax:
Client Project #: R.090602.002
AGAT Quotation: AGAT16-59 (Burin, NL)
Please Note: If quotation number is not provided client will be billed full price for analysis.

Report Information (Please print):
1. Name: Cathy Martin
Email: Cathy.Martin@pwgsc-tpsgc.gc.ca;
2. Name:
Email:

Report Format
☐ Single Sample per page
☑ Multiple Sample per page
☑ Excel Format Included
☐ Export:

Turnaround Time Required (TAT)
Regular TAT ☑ 5 to 7 working days
Rush TAT ☐ Same day ☐ 1 day ☐ 2 days ☐ 3 days
Date Required:

Invoice To Same Yes ☑ / No ☑
Company:
Contact: Cathy Martin
Address:
Phone: Fax:
PO/Credit Card#:

Regulatory Requirements (Check):
☑ List Guidelines on Report ☐ Do not list Guidelines on Report
☐ PIRI
☐ Tier 1 ☐ Res ☐ Pot ☐ Coarse
☐ Tier 2 ☐ Com ☐ N/Pot ☐ Fine
☐ Gas ☐ Fuel ☐ Lube
☐ CCME ☐ CDWQ
☐ Industrial ☐ NSEQS-Cont Sites
☐ Commercial ☐ HRM 101
☐ Res/Park ☐ Storm Water
☐ Agricultural ☐ Waste Water
☐ FWAL
☐ Sediment ☐ Other

Drinking Water Sample: ☐ Yes ☐ No **Salt Water Sample:** ☐ Yes ☐ No
Reg. No.:

Sample Identification	Date/Time Sampled	Sample Matrix	# Containers	Comments – Site/Sample Info. Sample Containment
3118-BHA-GS-0Z	March 26, 2018	MS	2x40,1x120, 1x250 mL	

Field Filtered/Preserved	Standard Water Analysis	Metals: ☐ Total ☐ Diss ☐ Available	Mercury	☐ BOD ☐ CBOD	Grain Size (coarse/fine)	☐ TOC - Miss ☐ FOC - Miss	Phosphates (total as P2O5)	Chromium (Tri & Hexavalent)	Phenols	Tier 1: TPH/BTEX (PIRI) ☐ low level	Tier 2: TPH/BTEX Fractionation	CCME-CWS TPH/BTEX	VOC	Oil & Grease (TOG)	BNAE EPA 625 - Miss	PAH	PCB	Marine Sediment Package	Dioxins & Furans	Fecal Coliform ☐ MPN ☐ MF	Other:	Other:	Hazardous (Y/N)
																		✓					

Samples Relinquished By (Print Name):	Date/Time	Samples Received By (Print Name):	Date/Time
Shawn Thompson	March 29, 2018	Emma Penney	Mar. 29/18
Samples Relinquished By (Sign):	Date/Time	Samples Received By (Sign):	Date/Time
	15:08	Emma Penney	3:08pm

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

Page 1 of 1
N°: FFC-3118-COC-02

Document ID: DIV-133-1605-002

Date revised: January 2016