



Your P.O. #: OL-1129375
 Site Location: MELIADINE
 Your C.O.C. #: na

Attention: Reporting

Agnico-Eagle
 Meliadine
 Meliadine Mine
 Rankin Inlet, NU
 CANADA X0C 0G0

Report Date: 2022/05/03
 Report #: R7109823
 Version: 2 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2B2646

Received: 2022/04/28, 09:30

Sample Matrix: Surface Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2022/04/28	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 3)	1	2022/04/28	2022/04/29	CAM SOP-00316	CCME PHC-CWS m
Hardness Total (calculated as CaCO ₃) (2, 4)	1	N/A	2022/05/03	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total) (2)	1	2022/04/28	2022/05/03	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (2)	1	2022/04/29	2022/05/02	BBY7SOP-00003/ BBY7SOPEA 6020B R2 m -00002	
Total Oil and Grease (1)	1	2022/04/29	2022/04/29	CAM SOP-00326	EPA1664B m, SM5520B m
Low Level Total Suspended Solids (1)	1	2022/04/28	2022/04/29	CAM SOP-00428	SM 23 2540D m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd, Mississauga, ON, L5N 2L8

(2) This test was performed by Bureau Veritas Burnaby, 4606 Canada Way, Burnaby, BC, V5G 1K5

(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the



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reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

(4) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

Encryption Key

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

Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C2B2646

Report Date: 2022/05/03

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1129375

Sampler Initials: DM

CCME PHCS, BTEX/F1-F4 (SURFACE WATER)

Bureau Veritas ID		SLX763		
Sampling Date		2022/04/21 13:00		
COC Number		na		
	UNITS	M-22-3396	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	7965323
Toluene	ug/L	0.43	0.20	7965323
Ethylbenzene	ug/L	<0.20	0.20	7965323
o-Xylene	ug/L	<0.20	0.20	7965323
p+m-Xylene	ug/L	<0.40	0.40	7965323
Total Xylenes	ug/L	<0.40	0.40	7965323
F1 (C6-C10)	ug/L	26	25	7965323
F1 (C6-C10) - BTEX	ug/L	25	25	7965323
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7965503
F3 (C16-C34 Hydrocarbons)	ug/L	280	200	7965503
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7965503
Reached Baseline at C50	ug/L	Yes		7965503
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	103		7965323
4-Bromofluorobenzene	%	102		7965323
D10-o-Xylene	%	97		7965323
D4-1,2-Dichloroethane	%	108		7965323
o-Terphenyl	%	99		7965503
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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Sampler Initials: DM

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (SURFACE WATER)

Bureau Veritas ID		SLX763		
Sampling Date		2022/04/21 13:00		
COC Number		na		
	UNITS	M-22-3396	RDL	QC Batch
Metals				
Total Aluminum (Al)	mg/L	0.463	0.0030	7973217
Total Antimony (Sb)	mg/L	<0.00050	0.00050	7973217
Total Arsenic (As)	mg/L	0.0461	0.00010	7973217
Total Barium (Ba)	mg/L	0.0993	0.0010	7973217
Total Beryllium (Be)	mg/L	<0.00010	0.00010	7973217
Total Bismuth (Bi)	mg/L	<0.0010	0.0010	7973217
Total Boron (B)	mg/L	0.102	0.050	7973217
Total Cadmium (Cd)	mg/L	0.000020	0.000010	7973217
Total Chromium (Cr)	mg/L	0.0014	0.0010	7973217
Total Cobalt (Co)	mg/L	0.00062	0.00020	7973217
Total Copper (Cu)	mg/L	0.0120	0.00050	7973217
Total Iron (Fe)	mg/L	1.33	0.010	7973217
Total Lead (Pb)	mg/L	0.00427	0.00020	7973217
Total Lithium (Li)	mg/L	0.119	0.0020	7973217
Total Manganese (Mn)	mg/L	0.0342	0.0010	7973217
Total Molybdenum (Mo)	mg/L	0.0022	0.0010	7973217
Total Nickel (Ni)	mg/L	0.0057	0.0010	7973217
Total Selenium (Se)	mg/L	0.00013	0.00010	7973217
Total Silicon (Si)	mg/L	3.03	0.10	7973217
Total Silver (Ag)	mg/L	0.000036	0.000020	7973217
Total Strontium (Sr)	mg/L	2.20	0.0010	7973217
Total Thallium (Tl)	mg/L	0.000076	0.000010	7973217
Total Tin (Sn)	mg/L	<0.0050	0.0050	7973217
Total Titanium (Ti)	mg/L	0.0084	0.0050	7973217
Total Uranium (U)	mg/L	0.00045	0.00010	7973217
Total Vanadium (V)	mg/L	<0.0050	0.0050	7973217
Total Zinc (Zn)	mg/L	0.0509	0.0050	7973217
Total Zirconium (Zr)	mg/L	0.00023	0.00010	7973217
Total Calcium (Ca)	mg/L	187	0.050	7973216
Total Magnesium (Mg)	mg/L	32.2	0.050	7973216
Total Potassium (K)	mg/L	13.8	0.050	7973216
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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TOTAL ICPMS METALS FOR CCME CEQG FOR SW (SURFACE WATER)

Bureau Veritas ID		SLX763		
Sampling Date		2022/04/21 13:00		
COC Number		na		
	UNITS	M-22-3396	RDL	QC Batch
Total Sodium (Na)	mg/L	72.5	0.050	7973216
Total Sulphur (S)	mg/L	33.7	3.0	7973216
Calculated Parameters				
Total Hardness (CaCO ₃)	mg/L	600	0.50	7973215
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		SLX763		
Sampling Date		2022/04/21 13:00		
COC Number		na		
	UNITS	M-22-3396	RDL	QC Batch
Inorganics				
Total Suspended Solids	mg/L	38	1	7965077
Petroleum Hydrocarbons				
Total Oil & Grease	mg/L	0.50	0.50	7966960
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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TEST SUMMARY

Bureau Veritas ID: SLX763
Sample ID: M-22-3396
Matrix: Surface Water

Collected: 2022/04/21
Shipped:
Received: 2022/04/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7965323	N/A	2022/04/28	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7965503	2022/04/28	2022/04/29	Agnieszka Brzuzy-Snopko
Hardness Total (calculated as CaCO ₃)	CALC	7973215	N/A	2022/05/03	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	7973216	2022/05/03	2022/05/03	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	7973217	2022/04/29	2022/05/02	Andrew An
Total Oil and Grease	BAL	7966960	2022/04/29	2022/04/29	Atinder Singh
Low Level Total Suspended Solids	BAL	7965077	2022/04/28	2022/04/29	Shaneil Hall



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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	12.7°C
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Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

Agnico-Eagle

Site Location: MELIADINE

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Sampler Initials: DM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7965323	1,4-Difluorobenzene	2022/04/28	101	70 - 130	100	70 - 130	100	%				
7965323	4-Bromofluorobenzene	2022/04/28	105	70 - 130	102	70 - 130	100	%				
7965323	D10-o-Xylene	2022/04/28	98	70 - 130	96	70 - 130	92	%				
7965323	D4-1,2-Dichloroethane	2022/04/28	111	70 - 130	106	70 - 130	107	%				
7965503	o-Terphenyl	2022/04/29	101	60 - 130	98	60 - 130	98	%				
7965077	Total Suspended Solids	2022/04/29					<1	mg/L	6.9	25	95	85 - 115
7965323	Benzene	2022/04/28	111	50 - 140	107	50 - 140	<0.20	ug/L	NC	30		
7965323	Ethylbenzene	2022/04/28	114	50 - 140	114	50 - 140	<0.20	ug/L	NC	30		
7965323	F1 (C6-C10) - BTEX	2022/04/28					<25	ug/L	NC	30		
7965323	F1 (C6-C10)	2022/04/28	98	60 - 140	97	60 - 140	<25	ug/L	NC	30		
7965323	o-Xylene	2022/04/28	114	50 - 140	112	50 - 140	<0.20	ug/L	NC	30		
7965323	p+m-Xylene	2022/04/28	113	50 - 140	115	50 - 140	<0.40	ug/L	NC	30		
7965323	Toluene	2022/04/28	103	50 - 140	102	50 - 140	<0.20	ug/L	NC	30		
7965323	Total Xylenes	2022/04/28					<0.40	ug/L	NC	30		
7965503	F2 (C10-C16 Hydrocarbons)	2022/04/29	115	60 - 130	108	60 - 130	<100	ug/L	18	30		
7965503	F3 (C16-C34 Hydrocarbons)	2022/04/29	116	60 - 130	111	60 - 130	<200	ug/L	NC	30		
7965503	F4 (C34-C50 Hydrocarbons)	2022/04/29	116	60 - 130	109	60 - 130	<200	ug/L	NC	30		
7966960	Total Oil & Grease	2022/04/29			99	85 - 115	<0.50	mg/L	1.3	25		
7973217	Total Aluminum (Al)	2022/05/02	99	80 - 120	99	80 - 120	<0.0030	mg/L				
7973217	Total Antimony (Sb)	2022/05/02	102	80 - 120	100	80 - 120	<0.00050	mg/L				
7973217	Total Arsenic (As)	2022/05/02	102	80 - 120	102	80 - 120	<0.00010	mg/L				
7973217	Total Barium (Ba)	2022/05/02	98	80 - 120	97	80 - 120	<0.0010	mg/L				
7973217	Total Beryllium (Be)	2022/05/02	109	80 - 120	107	80 - 120	<0.00010	mg/L				
7973217	Total Bismuth (Bi)	2022/05/02	103	80 - 120	97	80 - 120	<0.0010	mg/L				
7973217	Total Boron (B)	2022/05/02	81	80 - 120	105	80 - 120	<0.050	mg/L				
7973217	Total Cadmium (Cd)	2022/05/02	102	80 - 120	101	80 - 120	<0.000010	mg/L				
7973217	Total Chromium (Cr)	2022/05/02	101	80 - 120	99	80 - 120	<0.0010	mg/L				
7973217	Total Cobalt (Co)	2022/05/02	103	80 - 120	103	80 - 120	<0.00020	mg/L				
7973217	Total Copper (Cu)	2022/05/02	103	80 - 120	99	80 - 120	<0.00050	mg/L				
7973217	Total Iron (Fe)	2022/05/02	105	80 - 120	104	80 - 120	<0.010	mg/L				
7973217	Total Lead (Pb)	2022/05/02	101	80 - 120	100	80 - 120	<0.00020	mg/L				
7973217	Total Lithium (Li)	2022/05/02	116	80 - 120	105	80 - 120	<0.0020	mg/L				

BUREAU
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QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7973217	Total Manganese (Mn)	2022/05/02	103	80 - 120	99	80 - 120	<0.0010	mg/L				
7973217	Total Molybdenum (Mo)	2022/05/02	NC	80 - 120	104	80 - 120	<0.0010	mg/L				
7973217	Total Nickel (Ni)	2022/05/02	101	80 - 120	100	80 - 120	<0.0010	mg/L				
7973217	Total Selenium (Se)	2022/05/02	106	80 - 120	106	80 - 120	<0.00010	mg/L				
7973217	Total Silicon (Si)	2022/05/02	NC	80 - 120	107	80 - 120	<0.10	mg/L				
7973217	Total Silver (Ag)	2022/05/02	101	80 - 120	102	80 - 120	<0.000020	mg/L				
7973217	Total Strontium (Sr)	2022/05/02	NC	80 - 120	98	80 - 120	<0.0010	mg/L				
7973217	Total Thallium (Tl)	2022/05/02	96	80 - 120	99	80 - 120	<0.000010	mg/L				
7973217	Total Tin (Sn)	2022/05/02	103	80 - 120	102	80 - 120	<0.0050	mg/L				
7973217	Total Titanium (Ti)	2022/05/02	100	80 - 120	101	80 - 120	<0.0050	mg/L				
7973217	Total Uranium (U)	2022/05/02	96	80 - 120	97	80 - 120	<0.00010	mg/L				
7973217	Total Vanadium (V)	2022/05/02	104	80 - 120	100	80 - 120	<0.0050	mg/L				
7973217	Total Zinc (Zn)	2022/05/02	105	80 - 120	101	80 - 120	<0.0050	mg/L				
7973217	Total Zirconium (Zr)	2022/05/02	103	80 - 120	100	80 - 120	<0.00010	mg/L				

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 sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times \text{RDL}$).



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Sampler Initials: DM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

David Huang, BBY Scientific Specialist

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Exceedance Summary Table – Metal Mining Effluent Reg
Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
No Exceedances						
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						