

Appendix H-1

Analysis certificates for EEM samples



Your P.O. #: OL-762849
 Site#: 63°01'44.6" 92°09'14.6"
 Site Location: MELIADINE
 Your C.O.C. #: na

Attention: Reporting

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

Report Date: 2019/08/02
 Report #: R5823889
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9J9465

Received: 2019/07/19, 10:14

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity	1	N/A	2019/07/22	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	1	N/A	2019/07/23	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry	1	N/A	2019/07/22	CAM SOP-00463	SM 4500-Cl E m
Conductivity	1	N/A	2019/07/22	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide	1	N/A	2019/07/22	CAM SOP-00457	OMOE E3015 m
Total Cyanide	1	2019/07/22	2019/07/22	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (4)	1	N/A	2019/07/23	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen	1	2019/07/19	2019/07/19	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2019/07/24	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (5)	1	2019/07/25	2019/07/26	CAM SOP-00316	CCME PHC-CWS m
Mercury (low level)	1	2019/07/22	2019/07/22	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (1)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (2, 6)	1	N/A	2019/07/25	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (2)	1	N/A	2019/07/24	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (2)	1	N/A	2019/07/24	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (2)	1	N/A	2019/07/23	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (2)	1	2019/07/19	2019/07/25	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (2)	1	2019/07/24	2019/07/24	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (1)	1	N/A	2019/07/24	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N	1	N/A	2019/07/21	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (7)	1	N/A	2019/07/21	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2019/07/19	2019/07/22	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	1	N/A	2019/07/22	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (3, 8)	1	N/A	2019/07/31	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry	1	N/A	2019/07/22	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids	1	2019/07/20	2019/07/22	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	1	2019/07/22	2019/07/23	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (9)	1	N/A	2019/07/23	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	1	2019/07/23	2019/07/23	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids	1	2019/07/20	2019/07/22	CAM SOP-00428	SM 23 2540D m



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Meliadine Mine
Rankin Inlet, NU
CANADA X0C 0G0

Report Date: 2019/08/02
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CERTIFICATE OF ANALYSIS

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Received: 2019/07/19, 10:14

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Turbidity	1	N/A	2019/07/22	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Campo to Calgary - Offsite

(2) This test was performed by Campo to Burnaby - Offsite

(3) This test was performed by Bureau Veritas Laboratories Kitimat

(4) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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

(6) "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).

(7) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(8) Radium-226 results have not been corrected for blanks.

(9) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



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CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9J9465

Received: 2019/07/19, 10:14

Encryption Key

Alisha Williamson
Project Manager
02 Aug 2019 09:58:05

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

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BV Labs 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

BV Labs Job #: B9J9465

Report Date: 2019/08/02

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DG

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KHT799		
Sampling Date		2019/07/14 18:15		
COC Number		na		
	UNITS	MEL-13	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	6243265
Toluene	ug/L	<0.20	0.20	6243265
Ethylbenzene	ug/L	<0.20	0.20	6243265
o-Xylene	ug/L	<0.20	0.20	6243265
p+m-Xylene	ug/L	<0.40	0.40	6243265
Total Xylenes	ug/L	<0.40	0.40	6243265
F1 (C6-C10)	ug/L	<25	25	6243265
F1 (C6-C10) - BTEX	ug/L	<25	25	6243265
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	6248263
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	6248263
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	6248263
Reached Baseline at C50	ug/L	Yes		6248263
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	102		6243265
4-Bromofluorobenzene	%	96		6243265
D10-Ethylbenzene	%	98		6243265
D4-1,2-Dichloroethane	%	93		6243265
o-Terphenyl	%	103		6248263
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9J9465
Report Date: 2019/08/02

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DG

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KHT799		
Sampling Date		2019/07/14 18:15		
COC Number		na		
	UNITS	MEL-13	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	21.7	0.50	6247418
Metals				
Dissolved Aluminum (Al)	ug/L	<3.0	3.0	6247420
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	6247420
Dissolved Arsenic (As)	ug/L	0.27	0.10	6247420
Dissolved Barium (Ba)	ug/L	7.4	1.0	6247420
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	6247420
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	6247420
Dissolved Boron (B)	ug/L	<50	50	6247420
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	6247420
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	6247420
Dissolved Cobalt (Co)	ug/L	<0.20	0.20	6247420
Dissolved Copper (Cu)	ug/L	0.68	0.20	6247420
Dissolved Iron (Fe)	ug/L	11.8	5.0	6247420
Dissolved Lead (Pb)	ug/L	<0.20	0.20	6247420
Dissolved Lithium (Li)	ug/L	<2.0	2.0	6247420
Dissolved Manganese (Mn)	ug/L	12.1	1.0	6247420
Dissolved Molybdenum (Mo)	ug/L	9.7 (1)	1.0	6247420
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	6247420
Dissolved Selenium (Se)	ug/L	<0.10	0.10	6247420
Dissolved Silicon (Si)	ug/L	222	100	6247420
Dissolved Silver (Ag)	ug/L	<0.020	0.020	6247420
Dissolved Strontium (Sr)	ug/L	37.1	1.0	6247420
Dissolved Thallium (Tl)	ug/L	<0.010	0.010	6247420
Dissolved Tin (Sn)	ug/L	<5.0	5.0	6247420
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	6247420
Dissolved Uranium (U)	ug/L	<0.10	0.10	6247420
Dissolved Vanadium (V)	ug/L	<5.0	5.0	6247420
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	6247420
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Dissolved greater than total. Reanalysis yields similar results.				



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Sampler Initials: DG

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KHT799		
Sampling Date		2019/07/14 18:15		
COC Number		na		
	UNITS	MEL-13	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	6247420
Dissolved Calcium (Ca)	mg/L	6.72	0.050	6247419
Dissolved Magnesium (Mg)	mg/L	1.20	0.050	6247419
Dissolved Potassium (K)	mg/L	0.876	0.050	6247419
Dissolved Sodium (Na)	mg/L	4.73	0.050	6247419
Dissolved Sulphur (S)	mg/L	<3.0	3.0	6247419
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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Agnico-Eagle
Site Location: MELIADINE
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Sampler Initials: DG

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KHT799		
Sampling Date		2019/07/14 18:15		
COC Number		na		
	UNITS	MEL-13	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	5.7	3.0	6247417
Total Antimony (Sb)	ug/L	<0.50	0.50	6247417
Total Arsenic (As)	ug/L	0.29	0.10	6247417
Total Barium (Ba)	ug/L	7.9	1.0	6247417
Total Beryllium (Be)	ug/L	<0.10	0.10	6247417
Total Bismuth (Bi)	ug/L	<1.0	1.0	6247417
Total Boron (B)	ug/L	<50	50	6247417
Total Cadmium (Cd)	ug/L	<0.010	0.010	6247417
Total Chromium (Cr)	ug/L	<1.0	1.0	6247417
Total Cobalt (Co)	ug/L	<0.20	0.20	6247417
Total Copper (Cu)	ug/L	0.65	0.50	6247417
Total Iron (Fe)	ug/L	36	10	6247417
Total Lead (Pb)	ug/L	<0.20	0.20	6247417
Total Lithium (Li)	ug/L	<2.0	2.0	6247417
Total Manganese (Mn)	ug/L	17.9	1.0	6247417
Total Molybdenum (Mo)	ug/L	<1.0	1.0	6247417
Total Nickel (Ni)	ug/L	<1.0	1.0	6247417
Total Selenium (Se)	ug/L	<0.10	0.10	6247417
Total Silicon (Si)	ug/L	240	100	6247417
Total Silver (Ag)	ug/L	<0.020	0.020	6247417
Total Strontium (Sr)	ug/L	39.1	1.0	6247417
Total Thallium (Tl)	ug/L	<0.010	0.010	6247417
Total Tin (Sn)	ug/L	<5.0	5.0	6247417
Total Titanium (Ti)	ug/L	<5.0	5.0	6247417
Total Uranium (U)	ug/L	<0.10	0.10	6247417
Total Vanadium (V)	ug/L	<5.0	5.0	6247417
Total Zinc (Zn)	ug/L	<5.0	5.0	6247417
Total Zirconium (Zr)	ug/L	<0.10	0.10	6247417
Total Calcium (Ca)	ug/L	6990	50	6247416
Total Magnesium (Mg)	ug/L	1210	50	6247416
Total Potassium (K)	ug/L	893	50	6247416
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



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Agnico-Eagle
Site Location: MELIADINE
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Sampler Initials: DG

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KHT799		
Sampling Date		2019/07/14 18:15		
COC Number		na		
	UNITS	MEL-13	RDL	QC Batch
Total Sodium (Na)	ug/L	4900	50	6247416
Total Sulphur (S)	ug/L	<3000	3000	6247416
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	22400	500	6247415
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9J9465
Report Date: 2019/08/02

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DG

RESULTS OF ANALYSES OF WATER

BV Labs ID		KHT799			KHT799		
Sampling Date		2019/07/14 18:15			2019/07/14 18:15		
COC Number		na			na		
	UNITS	MEL-13	RDL	QC Batch	MEL-13 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	14	1.0	6237619			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6237619			
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	6238968			
Conductivity	umho/cm	79	1.0	6238180			
Free Cyanide (CN)	ug/L	<1.0 (1)	1.0	6253119			
Total Dissolved Solids	mg/L	65	10	6239076			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.15	0.10	6241283			
Dissolved Organic Carbon	mg/L	2.7	0.50	6238819			
Total Organic Carbon (TOC)	mg/L	3.0	0.50	6241306			
Orthophosphate (P)	mg/L	<0.010	0.010	6239100			
Dissolved Oxygen	mg/L	9.73		6238315	9.75		6238315
pH	pH	7.45		6238181			
Total Phosphorus	mg/L	<0.020	0.020	6242019			
Reactive Silica (SiO ₂)	mg/L	0.42	0.050	6245481			
Total Suspended Solids	mg/L	<1	1	6239113			
Dissolved Sulphate (SO ₄)	mg/L	3.8	1.0	6239095			
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6240763	<0.0050	0.0050	6240763
Turbidity	NTU	0.3	0.1	6238165			
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6240766	<0.0010	0.0010	6240766
Alkalinity (Total as CaCO ₃)	mg/L	14	1.0	6238179			
Dissolved Chloride (Cl ⁻)	mg/L	11	1.0	6239093			
Nitrite (N)	mg/L	<0.010	0.010	6238216			
Nitrate (N)	mg/L	<0.10	0.10	6238216			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	6238216			
RADIONUCLIDE							
Radium-226	Bq/L	<0.0050	0.0050	6242312			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W							



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Report Date: 2019/08/02

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DG

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KHT799	KHT799		
Sampling Date		2019/07/14 18:15	2019/07/14 18:15		
COC Number		na	na		
	UNITS	MEL-13	MEL-13 Lab-Dup	RDL	QC Batch
Metals					
Mercury (Hg)	mg/L	<0.00001	<0.00001	0.00001	6239712
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate					



BV Labs Job #: B9J9465
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Site Location: MELIADINE
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TEST SUMMARY

BV Labs ID: KHT799
Sample ID: MEL-13
Matrix: Water

Collected: 2019/07/14
Shipped:
Received: 2019/07/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6238179	N/A	2019/07/22	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6237619	N/A	2019/07/23	Automated Statchk
Chloride by Automated Colourimetry	KONE	6239093	N/A	2019/07/22	Deonarine Ramnarine
Conductivity	AT	6238180	N/A	2019/07/22	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6240766	N/A	2019/07/22	Gnana Thomas
Total Cyanide	SKAL/CN	6240763	2019/07/22	2019/07/22	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6238819	N/A	2019/07/23	Mandeep Kaur
Dissolved Oxygen	DO	6238315	2019/07/19	2019/07/19	Prakash Piya
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6243265	N/A	2019/07/24	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6248263	2019/07/25	2019/07/26	Prabhjot Gulati
Mercury (low level)	CV/AA	6239712	2019/07/22	2019/07/22	Medhat Nasr
Cyanide (Free)	SPEC	6253119	2019/07/26	2019/07/26	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6247415	N/A	2019/07/25	Report Automation Engine
Hardness (calculated as CaCO ₃)	CALC	6247418	N/A	2019/07/24	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6247419	N/A	2019/07/24	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6247420	N/A	2019/07/23	Valentina Balada
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6247416	2019/07/25	2019/07/25	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6247417	2019/07/24	2019/07/24	Andrew An
Silica (Reactive)	KONE	6245481	N/A	2019/07/24	Serena Tian
Total Ammonia-N	LACH/NH ₄	6238968	N/A	2019/07/21	Amanpreet Sappal
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6238216	N/A	2019/07/21	Amanpreet Sappal
pH	AT	6238181	2019/07/19	2019/07/22	Surinder Rai
Orthophosphate	KONE	6239100	N/A	2019/07/22	Alina Doboreanu
Radium-226 Low Level	AS	6242312	N/A	2019/07/31	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6239095	N/A	2019/07/22	Alina Doboreanu
Total Dissolved Solids	BAL	6239076	2019/07/20	2019/07/22	Nilam Borole
Total Kjeldahl Nitrogen in Water	SKAL	6241283	2019/07/22	2019/07/23	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6241306	N/A	2019/07/23	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6242019	2019/07/23	2019/07/23	Nimarta Singh
Low Level Total Suspended Solids	BAL	6239113	2019/07/20	2019/07/22	Mandeep Kaur
Turbidity	AT	6238165	N/A	2019/07/22	Kazzandra Adeva

BV Labs ID: KHT799 Dup
Sample ID: MEL-13
Matrix: Water

Collected: 2019/07/14
Shipped:
Received: 2019/07/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	6240766	N/A	2019/07/22	Gnana Thomas
Total Cyanide	SKAL/CN	6240763	2019/07/22	2019/07/22	Gnana Thomas
Dissolved Oxygen	DO	6238315	2019/07/19	2019/07/19	Prakash Piya
Mercury (low level)	CV/AA	6239712	2019/07/22	2019/07/22	Medhat Nasr



BUREAU
VERITAS

BV Labs Job #: B9J9465

Report Date: 2019/08/02

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DG

GENERAL COMMENTS

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

Package 1	15.3°C

Sample KHT799 [MEL-13] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Results relate only to the items tested.



BV Labs Job #: B9J9465
Report Date: 2019/08/02

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DG

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
6243265	1,4-Difluorobenzene	2019/07/24	102	70 - 130	102	70 - 130	102	%				
6243265	4-Bromofluorobenzene	2019/07/24	100	70 - 130	100	70 - 130	96	%				
6243265	D10-Ethylbenzene	2019/07/24	94	70 - 130	96	70 - 130	100	%				
6243265	D4-1,2-Dichloroethane	2019/07/24	95	70 - 130	95	70 - 130	95	%				
6248263	o-Terphenyl	2019/07/26	106	60 - 130	106	60 - 130	104	%				
6238165	Turbidity	2019/07/22			94	85 - 115	<0.1	NTU	13	20		
6238179	Alkalinity (Total as CaCO3)	2019/07/22			95	85 - 115	<1.0	mg/L	0.32	20		
6238180	Conductivity	2019/07/22			101	85 - 115	<1.0	umho/cm	0.42	25		
6238181	pH	2019/07/22			102	98 - 103			0.63	N/A		
6238216	Nitrate (N)	2019/07/21	101	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
6238216	Nitrite (N)	2019/07/21	104	80 - 120	102	80 - 120	<0.010	mg/L	NC	20		
6238819	Dissolved Organic Carbon	2019/07/22	100	80 - 120	98	80 - 120	<0.50	mg/L	0.67	20		
6238968	Total Ammonia-N	2019/07/21	98	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
6239076	Total Dissolved Solids	2019/07/22					<10	mg/L	1.4	25	102	90 - 110
6239093	Dissolved Chloride (Cl-)	2019/07/22	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.12	20		
6239095	Dissolved Sulphate (SO4)	2019/07/22	NC	75 - 125	98	80 - 120	<1.0	mg/L	0.99	20		
6239100	Orthophosphate (P)	2019/07/22	95	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
6239113	Total Suspended Solids	2019/07/22					<1	mg/L	13	25	95	85 - 115
6239712	Mercury (Hg)	2019/07/22	101	75 - 125	98	80 - 120	<0.00001	mg/L	NC	20		
6240763	Total Cyanide (CN)	2019/07/22	97	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
6240766	WAD Cyanide (Free)	2019/07/22	97	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
6241283	Total Kjeldahl Nitrogen (TKN)	2019/07/23	107	80 - 120	97	80 - 120	<0.10	mg/L			97	80 - 120
6241306	Total Organic Carbon (TOC)	2019/07/23	95	80 - 120	98	80 - 120	<0.50	mg/L	2.0	20		
6242019	Total Phosphorus	2019/07/23	94	80 - 120	97	80 - 120	<0.020	mg/L	3.2	20	97	80 - 120
6242312	Radium-226	2019/07/31			98	85 - 115	<0.0050	Bq/L	7.9	N/A		
6243265	Benzene	2019/07/24	101	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
6243265	Ethylbenzene	2019/07/24	105	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
6243265	F1 (C6-C10) - BTEX	2019/07/24					<25	ug/L	NC	30		
6243265	F1 (C6-C10)	2019/07/24	99	70 - 130	103	70 - 130	<25	ug/L	NC	30		
6243265	o-Xylene	2019/07/24	104	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
6243265	p+m-Xylene	2019/07/24	105	70 - 130	102	70 - 130	<0.40	ug/L	NC	30		



BV Labs Job #: B9J9465
Report Date: 2019/08/02

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DG

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
6243265	Toluene	2019/07/24	111	70 - 130	108	70 - 130	<0.20	ug/L	NC	30		
6243265	Total Xylenes	2019/07/24					<0.40	ug/L	NC	30		
6245481	Reactive Silica (SiO ₂)	2019/07/24	109	80 - 120	101	80 - 120	<0.050	mg/L				
6247417	Total Aluminum (Al)	2019/07/24	114	80 - 120	103	80 - 120	<3.0	ug/L				
6247417	Total Antimony (Sb)	2019/07/24	104	80 - 120	99	80 - 120	<0.50	ug/L				
6247417	Total Arsenic (As)	2019/07/24	107	80 - 120	101	80 - 120	<0.10	ug/L				
6247417	Total Barium (Ba)	2019/07/24	104	80 - 120	101	80 - 120	<1.0	ug/L				
6247417	Total Beryllium (Be)	2019/07/24	102	80 - 120	104	80 - 120	<0.10	ug/L				
6247417	Total Bismuth (Bi)	2019/07/24	100	80 - 120	103	80 - 120	<1.0	ug/L				
6247417	Total Boron (B)	2019/07/24	104	80 - 120	106	80 - 120	<50	ug/L				
6247417	Total Cadmium (Cd)	2019/07/24	100	80 - 120	100	80 - 120	<0.010	ug/L				
6247417	Total Chromium (Cr)	2019/07/24	99	80 - 120	101	80 - 120	<1.0	ug/L				
6247417	Total Cobalt (Co)	2019/07/24	94	80 - 120	98	80 - 120	<0.20	ug/L				
6247417	Total Copper (Cu)	2019/07/24	92	80 - 120	99	80 - 120	<0.50	ug/L				
6247417	Total Iron (Fe)	2019/07/24	103	80 - 120	105	80 - 120	<10	ug/L				
6247417	Total Lead (Pb)	2019/07/24	104	80 - 120	106	80 - 120	<0.20	ug/L				
6247417	Total Lithium (Li)	2019/07/24	NC	80 - 120	103	80 - 120	<2.0	ug/L				
6247417	Total Manganese (Mn)	2019/07/24	100	80 - 120	102	80 - 120	<1.0	ug/L				
6247417	Total Molybdenum (Mo)	2019/07/24	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6247417	Total Nickel (Ni)	2019/07/24	93	80 - 120	100	80 - 120	<1.0	ug/L				
6247417	Total Selenium (Se)	2019/07/24	100	80 - 120	101	80 - 120	<0.10	ug/L				
6247417	Total Silicon (Si)	2019/07/24	108	80 - 120	105	80 - 120	<100	ug/L				
6247417	Total Silver (Ag)	2019/07/24	101	80 - 120	102	80 - 120	<0.020	ug/L				
6247417	Total Strontium (Sr)	2019/07/24	NC	80 - 120	101	80 - 120	<1.0	ug/L				
6247417	Total Thallium (Tl)	2019/07/24	103	80 - 120	101	80 - 120	<0.010	ug/L				
6247417	Total Tin (Sn)	2019/07/24	105	80 - 120	99	80 - 120	<5.0	ug/L				
6247417	Total Titanium (Ti)	2019/07/24	105	80 - 120	101	80 - 120	<5.0	ug/L				
6247417	Total Uranium (U)	2019/07/24	108	80 - 120	100	80 - 120	<0.10	ug/L				
6247417	Total Vanadium (V)	2019/07/24	103	80 - 120	100	80 - 120	<5.0	ug/L				
6247417	Total Zinc (Zn)	2019/07/24	91	80 - 120	100	80 - 120	<5.0	ug/L				
6247417	Total Zirconium (Zr)	2019/07/24	113	80 - 120	99	80 - 120	<0.10	ug/L				
6247420	Dissolved Aluminum (Al)	2019/07/23	130 (1)	80 - 120	98	80 - 120	<3.0	ug/L				



BV Labs Job #: B9J9465
Report Date: 2019/08/02

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DG

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
6247420	Dissolved Antimony (Sb)	2019/07/23	98	80 - 120	98	80 - 120	<0.50	ug/L				
6247420	Dissolved Arsenic (As)	2019/07/23	99	80 - 120	99	80 - 120	<0.10	ug/L				
6247420	Dissolved Barium (Ba)	2019/07/23	95	80 - 120	101	80 - 120	<1.0	ug/L				
6247420	Dissolved Beryllium (Be)	2019/07/23	96	80 - 120	97	80 - 120	<0.10	ug/L				
6247420	Dissolved Bismuth (Bi)	2019/07/23	97	80 - 120	101	80 - 120	<1.0	ug/L				
6247420	Dissolved Boron (B)	2019/07/23	99	80 - 120	96	80 - 120	<50	ug/L				
6247420	Dissolved Cadmium (Cd)	2019/07/23	96	80 - 120	99	80 - 120	<0.010	ug/L				
6247420	Dissolved Chromium (Cr)	2019/07/23	94	80 - 120	99	80 - 120	<1.0	ug/L				
6247420	Dissolved Cobalt (Co)	2019/07/23	91	80 - 120	96	80 - 120	<0.20	ug/L				
6247420	Dissolved Copper (Cu)	2019/07/23	90	80 - 120	98	80 - 120	<0.20	ug/L				
6247420	Dissolved Iron (Fe)	2019/07/23	NC	80 - 120	102	80 - 120	<5.0	ug/L				
6247420	Dissolved Lead (Pb)	2019/07/23	99	80 - 120	101	80 - 120	<0.20	ug/L				
6247420	Dissolved Lithium (Li)	2019/07/23	101	80 - 120	97	80 - 120	<2.0	ug/L				
6247420	Dissolved Manganese (Mn)	2019/07/23	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6247420	Dissolved Molybdenum (Mo)	2019/07/23	101	80 - 120	100	80 - 120	<1.0	ug/L				
6247420	Dissolved Nickel (Ni)	2019/07/23	91	80 - 120	99	80 - 120	<1.0	ug/L				
6247420	Dissolved Selenium (Se)	2019/07/23	98	80 - 120	100	80 - 120	<0.10	ug/L				
6247420	Dissolved Silicon (Si)	2019/07/23	NC	80 - 120	99	80 - 120	<100	ug/L				
6247420	Dissolved Silver (Ag)	2019/07/23	97	80 - 120	100	80 - 120	<0.020	ug/L				
6247420	Dissolved Strontium (Sr)	2019/07/23	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6247420	Dissolved Thallium (Tl)	2019/07/23	100	80 - 120	101	80 - 120	<0.010	ug/L				
6247420	Dissolved Tin (Sn)	2019/07/23	95	80 - 120	105	80 - 120	<5.0	ug/L				
6247420	Dissolved Titanium (Ti)	2019/07/23	113	80 - 120	99	80 - 120	<5.0	ug/L				
6247420	Dissolved Uranium (U)	2019/07/23	99	80 - 120	102	80 - 120	<0.10	ug/L				
6247420	Dissolved Vanadium (V)	2019/07/23	97	80 - 120	99	80 - 120	<5.0	ug/L				
6247420	Dissolved Zinc (Zn)	2019/07/23	95	80 - 120	99	80 - 120	<5.0	ug/L				
6247420	Dissolved Zirconium (Zr)	2019/07/23	103	80 - 120	99	80 - 120	<0.10	ug/L				
6248263	F2 (C10-C16 Hydrocarbons)	2019/07/26	104	50 - 130	115	60 - 130	<100	ug/L	NC	30		
6248263	F3 (C16-C34 Hydrocarbons)	2019/07/26	104	50 - 130	120	60 - 130	<200	ug/L	NC	30		
6248263	F4 (C34-C50 Hydrocarbons)	2019/07/26	101	50 - 130	115	60 - 130	<200	ug/L	NC	30		



BUREAU
VERITAS

BV Labs Job #: B9J9465

Report Date: 2019/08/02

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DG

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
6253119	Free Cyanide (CN)	2019/07/26	102	80 - 120	98	80 - 120	<1.0	ug/L	13	20		

N/A = Not Applicable

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 $\leq 2 \times \text{RDL}$).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9J9465

Report Date: 2019/08/02

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Danish Samad, Senior Analyst – Team Lead

Harry (Peng) Liang, Senior Analyst

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

Lisa Thum, C.E.T., QP, Manager, Inorganics

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BUREAU
VERITAS

BV Labs Job #: B9J9465

Report Date: 2019/08/02

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DG

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site#: 63°01'44.6" 92°09'14.6"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/01
 Report #: R5822327
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9K5125

Received: 2019/07/25, 09:30

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Dissolved Mercury (low level) (1)	1	2019/07/30	2019/07/31	CAM SOP-00453	EPA 7470 m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga

Encryption Key

Alisha Williamson
 Project Manager
 01 Aug 2019 11:34:46

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

Alisha Williamson, Project Manager
 Email: Alisha.Williamson@bvlabs.com
 Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B9K5125
Report Date: 2019/08/01

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DG

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KIY315	KIY315		
Sampling Date		2019/07/14 18:15	2019/07/14 18:15		
	UNITS	MEL-13	MEL-13 Lab-Dup	RDL	QC Batch
Metals					
Dissolved Mercury (Hg)	mg/L	<0.00001	<0.00001	0.00001	6254397
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate					



BV Labs Job #: B9K5125
Report Date: 2019/08/01

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DG

TEST SUMMARY

BV Labs ID: KIY315
Sample ID: MEL-13
Matrix: Water

Collected: 2019/07/14
Shipped:
Received: 2019/07/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury (low level)	CV/AA	6254397	2019/07/30	2019/07/31	Ron Morrison

BV Labs ID: KIY315 Dup
Sample ID: MEL-13
Matrix: Water

Collected: 2019/07/14
Shipped:
Received: 2019/07/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury (low level)	CV/AA	6254397	2019/07/30	2019/07/31	Ron Morrison



BUREAU
VERITAS

BV Labs Job #: B9K5125
Report Date: 2019/08/01

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DG

GENERAL COMMENTS

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

Package 1	19.7°C

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B9K5125

Report Date: 2019/08/01

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DG

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6254397	Dissolved Mercury (Hg)	2019/07/31	98	75 - 125	97	80 - 120	<0.00001	mg/L	NC	20
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.										
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.										
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 $\leq$ 2x RDL).										



BUREAU
VERITAS

BV Labs Job #: B9K5125
Report Date: 2019/08/01

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Brad Newman, Scientific Service Specialist

BV Labs 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

BV Labs Job #: B9K5125
Report Date: 2019/08/01

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DG

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site#: 63°01'44.6" 92°09'14.6"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/29
 Report #: R5859422
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9M5881

Received: 2019/08/15, 09:30

Sample Matrix: Surface Water
 # Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	3	N/A	2019/08/17	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	3	N/A	2019/08/19	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	3	N/A	2019/08/19	CAM SOP-00463	SM 4500-Cl E m
Conductivity (1)	3	N/A	2019/08/17	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	3	N/A	2019/08/19	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	3	2019/08/19	2019/08/19	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	3	N/A	2019/08/17	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	3	2019/08/16	2019/08/16	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	3	N/A	2019/08/20	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	3	2019/08/20	2019/08/20	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	1	2019/08/19	2019/08/19	CAM SOP-00453	EPA 7470 m
Dissolved Mercury (low level) (1)	2	2019/08/20	2019/08/20	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	2	2019/08/19	2019/08/19	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/08/20	2019/08/20	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	3	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	3	N/A	2019/08/21	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	3	N/A	2019/08/21	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	3	N/A	2019/08/21	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	3	N/A	2019/08/21	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	3	2019/08/15	2019/08/21	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	3	2019/08/20	2019/08/20	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	3	N/A	2019/08/20	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/08/20	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N (1)	2	N/A	2019/08/21	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	2	N/A	2019/08/17	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/08/18	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	3	2019/08/16	2019/08/17	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	3	N/A	2019/08/21	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/08/26	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry



Your P.O. #: OL-762849
Site#: 63°01'44.6" 92°09'14.6"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/29
Report #: R5859422
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9M5881

Received: 2019/08/15, 09:30

Sample Matrix: Surface Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Radium-226 Low Level (4, 9)	2	N/A	2019/08/27	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	3	N/A	2019/08/19	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	3	2019/08/17	2019/08/19	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	3	2019/08/19	2019/08/20	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	3	N/A	2019/08/20	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	1	2019/08/20	2019/08/20	CAM SOP-00407	SM 23 4500 P B H m
Total Phosphorus (Colourimetric) (1)	2	2019/08/20	2019/08/21	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	3	2019/08/17	2019/08/19	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	3	N/A	2019/08/16	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite



Your P.O. #: OL-762849
Site#: 63°01'44.6" 92°09'14.6"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/29
Report #: R5859422
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9M5881

Received: 2019/08/15, 09:30

- (3) This test was performed by Campo to Burnaby - Offsite
- (4) This test was performed by Bureau Veritas Laboratories Kitimat
- (5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
- (6) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories conform to all prescribed elements of the 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.
- (7) "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).
- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (9) Radium-226 results have not been corrected for blanks.
- (10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
29 Aug 2019 14:09:23

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

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BV Labs 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

BV Labs Job #: B9M5881

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

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

BV Labs ID		KNG861	KNG862			KNG862			KNG863		
Sampling Date		2019/08/10 13:15	2019/08/10 13:15			2019/08/10 13:15			2019/08/10 13:25		
	UNITS	MEL-13	MEL-13-DUP	RDL	QC Batch	MEL-13-DUP Lab-Dup	RDL	QC Batch	MEL-13-FB	RDL	QC Batch
BTEX & F1 Hydrocarbons											
Benzene	ug/L	<0.20	<0.20	0.20	6288243				<0.20	0.20	6288243
Toluene	ug/L	<0.20	<0.20	0.20	6288243				0.37	0.20	6288243
Ethylbenzene	ug/L	<0.20	<0.20	0.20	6288243				<0.20	0.20	6288243
o-Xylene	ug/L	<0.20	<0.20	0.20	6288243				<0.20	0.20	6288243
p+m-Xylene	ug/L	<0.40	<0.40	0.40	6288243				<0.40	0.40	6288243
Total Xylenes	ug/L	<0.40	<0.40	0.40	6288243				<0.40	0.40	6288243
F1 (C6-C10)	ug/L	<25	<25	25	6288243				<25	25	6288243
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	6288243				<25	25	6288243
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	6289107	<100	100	6289107	<100	100	6289107
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	6289107	<200	200	6289107	<200	200	6289107
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	6289107	<200	200	6289107	<200	200	6289107
Reached Baseline at C50	ug/L	Yes	Yes		6289107	Yes		6289107	Yes		6289107
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	100	101		6288243				100		6288243
4-Bromofluorobenzene	%	98	98		6288243				99		6288243
D10-Ethylbenzene	%	95	95		6288243				94		6288243
D4-1,2-Dichloroethane	%	97	98		6288243				98		6288243
o-Terphenyl	%	99	100		6289107	94		6289107	100		6289107
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
Lab-Dup = Laboratory Initiated Duplicate											



BV Labs Job #: B9M5881
Report Date: 2019/08/29

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (SURFACE WATER)

BV Labs ID		KNG861	KNG862	KNG863		
Sampling Date		2019/08/10 13:15	2019/08/10 13:15	2019/08/10 13:25		
	UNITS	MEL-13	MEL-13-DUP	MEL-13-FB	RDL	QC Batch
Calculated Parameters						
Dissolved Hardness (CaCO ₃)	mg/L	23.0	23.2	<0.50	0.50	6288345
Metals						
Dissolved Aluminum (Al)	ug/L	<3.0	<3.0	<3.0	3.0	6291995
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	6291995
Dissolved Arsenic (As)	ug/L	0.34	0.35	<0.10	0.10	6291995
Dissolved Barium (Ba)	ug/L	7.3	7.3	<1.0	1.0	6291995
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	0.10	6291995
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	6291995
Dissolved Boron (B)	ug/L	<50	<50	<50	50	6291995
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	0.010	6291995
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	1.0	6291995
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	0.20	6291995
Dissolved Copper (Cu)	ug/L	1.40	0.63	<0.20	0.20	6291995
Dissolved Iron (Fe)	ug/L	6.5	6.3	<5.0	5.0	6291995
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	0.20	6291995
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	<2.0	2.0	6291995
Dissolved Manganese (Mn)	ug/L	<1.0	<1.0	<1.0	1.0	6291995
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	1.0	6291995
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	1.0	6291995
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	0.10	6291995
Dissolved Silicon (Si)	ug/L	187	186	<100	100	6291995
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	0.020	6291995
Dissolved Strontium (Sr)	ug/L	40.2	41.0	<1.0	1.0	6291995
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	0.010	6291995
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	6291995
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	6291995
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	0.10	6291995
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	5.0	6291995
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	5.0	6291995
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	0.10	6291995
Dissolved Calcium (Ca)	mg/L	7.12	7.17	<0.050	0.050	6288346
Dissolved Magnesium (Mg)	mg/L	1.28	1.28	<0.050	0.050	6288346
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BV Labs Job #: B9M5881
Report Date: 2019/08/29

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (SURFACE WATER)

BV Labs ID		KNG861	KNG862	KNG863		
Sampling Date		2019/08/10 13:15	2019/08/10 13:15	2019/08/10 13:25		
	UNITS	MEL-13	MEL-13-DUP	MEL-13-FB	RDL	QC Batch
Dissolved Potassium (K)	mg/L	0.935	0.946	<0.050	0.050	6288346
Dissolved Sodium (Na)	mg/L	5.07	5.06	<0.050	0.050	6288346
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	3.0	6288346
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BV Labs Job #: B9M5881
Report Date: 2019/08/29

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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

BV Labs ID		KNG861	KNG862	KNG863		
Sampling Date		2019/08/10 13:15	2019/08/10 13:15	2019/08/10 13:25		
	UNITS	MEL-13	MEL-13-DUP	MEL-13-FB	RDL	QC Batch
Metals						
Total Aluminum (Al)	ug/L	5.1	5.7	<3.0	3.0	6291713
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	6291713
Total Arsenic (As)	ug/L	0.33	0.37	<0.10	0.10	6291713
Total Barium (Ba)	ug/L	7.1	7.3	<1.0	1.0	6291713
Total Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	0.10	6291713
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	6291713
Total Boron (B)	ug/L	<50	<50	<50	50	6291713
Total Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	0.010	6291713
Total Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	1.0	6291713
Total Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	0.20	6291713
Total Copper (Cu)	ug/L	0.66	0.73	<0.50	0.50	6291713
Total Iron (Fe)	ug/L	23	22	<10	10	6291713
Total Lead (Pb)	ug/L	<0.20	<0.20	<0.20	0.20	6291713
Total Lithium (Li)	ug/L	<2.0	<2.0	<2.0	2.0	6291713
Total Manganese (Mn)	ug/L	4.5	5.1	<1.0	1.0	6291713
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	1.0	6291713
Total Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	1.0	6291713
Total Selenium (Se)	ug/L	<0.10	<0.10	<0.10	0.10	6291713
Total Silicon (Si)	ug/L	184	195	<100	100	6291713
Total Silver (Ag)	ug/L	<0.020	<0.020	<0.020	0.020	6291713
Total Strontium (Sr)	ug/L	37.6	39.0	<1.0	1.0	6291713
Total Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	0.010	6291713
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	6291713
Total Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	6291713
Total Uranium (U)	ug/L	<0.10	<0.10	<0.10	0.10	6291713
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0	5.0	6291713
Total Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	5.0	6291713
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	0.10	6291713
Total Calcium (Ca)	ug/L	6860	7000	<50	50	6288349
Total Magnesium (Mg)	ug/L	1270	1280	<50	50	6288349
Total Potassium (K)	ug/L	901	929	<50	50	6288349
Total Sodium (Na)	ug/L	5010	5150	<50	50	6288349
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BV Labs Job #: B9M5881
Report Date: 2019/08/29

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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

BV Labs ID		KNG861	KNG862	KNG863		
Sampling Date		2019/08/10 13:15	2019/08/10 13:15	2019/08/10 13:25		
	UNITS	MEL-13	MEL-13-DUP	MEL-13-FB	RDL	QC Batch
Total Sulphur (S)	ug/L	<3000	<3000	<3000	3000	6288349
Calculated Parameters						
Total Hardness (CaCO ₃)	ug/L	22400	22700	<500	500	6289748
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BV Labs Job #: B9M5881
Report Date: 2019/08/29

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

RESULTS OF ANALYSES OF SURFACE WATER

BV Labs ID		KNG861			KNG861			KNG862		
Sampling Date		2019/08/10 13:15			2019/08/10 13:15			2019/08/10 13:15		
	UNITS	MEL-13	RDL	QC Batch	MEL-13 Lab-Dup	RDL	QC Batch	MEL-13-DUP	RDL	QC Batch
Calculated Parameters										
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	16	1.0	6281848				15	1.0	6281848
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6281848				<1.0	1.0	6281848
Inorganics										
Total Ammonia-N	mg/L	0.13	0.050	6289003				0.066	0.050	6289003
Conductivity	umho/cm	84	1.0	6285224				83	1.0	6285224
Free Cyanide (CN)	ug/L	1.1 (1)	1.0	6290148				1.6 (1)	1.0	6290148
Total Dissolved Solids	mg/L	45	10	6286027				45	10	6286027
Total Kjeldahl Nitrogen (TKN)	mg/L	0.37	0.10	6287497	0.24	0.10	6287497	0.15	0.10	6287145
Dissolved Organic Carbon	mg/L	3.0	0.50	6284097				3.0	0.50	6284097
Total Organic Carbon (TOC)	mg/L	3.0	0.50	6287105				3.0	0.50	6288212
Orthophosphate (P)	mg/L	<0.010	0.010	6285782				<0.010	0.010	6285782
Dissolved Oxygen	mg/L	11.6		6284385				11.2		6284385
pH	pH	7.26		6285228				7.14		6285228
Total Phosphorus	mg/L	<0.020	0.020	6289897				<0.020	0.020	6289419
Reactive Silica (SiO ₂)	mg/L	0.80	0.050	6291768				0.36	0.050	6291768
Total Suspended Solids	mg/L	1	1	6285893				2	1	6285893
Dissolved Sulphate (SO ₄)	mg/L	3.6	1.0	6285780				3.4	1.0	6285780
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6287854				<0.0050	0.0050	6287854
Turbidity	NTU	<0.1	0.1	6284179				0.2	0.1	6284179
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6287861				<0.0010	0.0010	6287861
Alkalinity (Total as CaCO ₃)	mg/L	16	1.0	6285216				15	1.0	6285216
Dissolved Chloride (Cl ⁻)	mg/L	12	1.0	6285778				12	1.0	6285778
Nitrite (N)	mg/L	<0.010	0.010	6285229				<0.010	0.010	6284146
Nitrate (N)	mg/L	<0.10	0.10	6285229				<0.10	0.10	6284146
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	6285229				<0.10	0.10	6284146
RADIONUCLIDE										
Radium-226	Bq/L	<0.0050	0.0050	6287025				<0.0050	0.0050	6287025
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W										



BV Labs Job #: B9M5881
Report Date: 2019/08/29

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

RESULTS OF ANALYSES OF SURFACE WATER

BV Labs ID		KNG862			KNG863			KNG863		
Sampling Date		2019/08/10 13:15			2019/08/10 13:25			2019/08/10 13:25		
	UNITS	MEL-13-DUP Lab-Dup	RDL	QC Batch	MEL-13-FB	RDL	QC Batch	MEL-13-FB Lab-Dup	RDL	QC Batch
Calculated Parameters										
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L				<1.0	1.0	6281848			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L				<1.0	1.0	6281848			
Inorganics										
Total Ammonia-N	mg/L				<0.050	0.050	6288996			
Conductivity	umho/cm				<1.0	1.0	6285224			
Free Cyanide (CN)	ug/L				1.1 (1)	1.0	6290148			
Total Dissolved Solids	mg/L				<10	10	6286027			
Total Kjeldahl Nitrogen (TKN)	mg/L				<0.10	0.10	6287145			
Dissolved Organic Carbon	mg/L				<0.50	0.50	6284097			
Total Organic Carbon (TOC)	mg/L				<0.50	0.50	6288212	<0.50	0.50	6288212
Orthophosphate (P)	mg/L	<0.010	0.010	6285782	<0.010	0.010	6285782			
Dissolved Oxygen	mg/L				11.2		6284385			
pH	pH				5.72		6285228			
Total Phosphorus	mg/L				<0.020	0.020	6289419			
Reactive Silica (SiO ₂)	mg/L				<0.050	0.050	6291768			
Total Suspended Solids	mg/L				<1	1	6285893			
Dissolved Sulphate (SO ₄)	mg/L	3.5	1.0	6285780	<1.0	1.0	6285780			
Total Cyanide (CN)	mg/L				<0.0050	0.0050	6287854			
Turbidity	NTU	0.2	0.1	6284179	<0.1	0.1	6284179			
WAD Cyanide (Free)	mg/L				<0.0010	0.0010	6287861			
Alkalinity (Total as CaCO ₃)	mg/L				<1.0	1.0	6285216			
Dissolved Chloride (Cl ⁻)	mg/L	12	1.0	6285778	<1.0	1.0	6285778			
Nitrite (N)	mg/L				<0.010	0.010	6284146			
Nitrate (N)	mg/L				<0.10	0.10	6284146			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	6284146			
RADIONUCLIDE										
Radium-226	Bq/L				<0.0050	0.0050	6287025			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W										



BUREAU
VERITAS

BV Labs Job #: B9M5881

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

ELEMENTS BY ATOMIC SPECTROSCOPY (SURFACE WATER)

BV Labs ID		KNG861	KNG862		KNG863			KNG863		
Sampling Date		2019/08/10 13:15	2019/08/10 13:15		2019/08/10 13:25			2019/08/10 13:25		
	UNITS	MEL-13	MEL-13-DUP	QC Batch	MEL-13-FB	RDL	QC Batch	MEL-13-FB Lab-Dup	RDL	QC Batch

Metals										
Mercury (Hg)	mg/L	<0.00001	<0.00001	6286866	<0.00001	0.00001	6289103	<0.00001	0.00001	6289103
Dissolved Mercury (Hg)	mg/L	<0.00001	<0.00001	6289091	<0.00001	0.00001	6286927			

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



BV Labs Job #: B9M5881
Report Date: 2019/08/29

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TEST SUMMARY

BV Labs ID: KNG861
Sample ID: MEL-13
Matrix: Surface Water

Collected: 2019/08/10
Shipped:
Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6285216	N/A	2019/08/17	Neil Dassanayake
Carbonate, Bicarbonate and Hydroxide	CALC	6281848	N/A	2019/08/19	Automated Statchk
Chloride by Automated Colourimetry	KONE	6285778	N/A	2019/08/19	Deonarine Ramnarine
Conductivity	AT	6285224	N/A	2019/08/17	Neil Dassanayake
Free (WAD) Cyanide	SKAL/CN	6287861	N/A	2019/08/19	Gnana Thomas
Total Cyanide	SKAL/CN	6287854	2019/08/19	2019/08/19	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6284097	N/A	2019/08/17	Mandeep Kaur
Dissolved Oxygen	DO	6284385	2019/08/16	2019/08/16	Nusrat Naz
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6288243	N/A	2019/08/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6289107	2019/08/20	2019/08/20	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6289091	2019/08/20	2019/08/20	Ron Morrison
Mercury (low level)	CV/AA	6286866	2019/08/19	2019/08/19	Ron Morrison
Cyanide (Free)	SPEC	6290148	2019/08/20	2019/08/20	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6289748	N/A	2019/08/21	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6288345	N/A	2019/08/21	Report Automation Engine
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6288346	N/A	2019/08/21	Report Automation Engine
Elements by CRC ICPMS (dissolved)	ICP/MS	6291995	N/A	2019/08/21	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6288349	2019/08/21	2019/08/21	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6291713	2019/08/20	2019/08/20	Vanessa Chan
Silica (Reactive)	KONE	6291768	N/A	2019/08/20	Zafar Iqbal
Total Ammonia-N	LACH/NH ₄	6289003	N/A	2019/08/21	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6285229	N/A	2019/08/18	Amanpreet Sappal
pH	AT	6285228	2019/08/16	2019/08/17	Neil Dassanayake
Orthophosphate	KONE	6285782	N/A	2019/08/21	Alina Dobreanu
Radium-226 Low Level	AS	6287025	N/A	2019/08/26	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6285780	N/A	2019/08/19	Deonarine Ramnarine
Total Dissolved Solids	BAL	6286027	2019/08/17	2019/08/19	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6287497	2019/08/19	2019/08/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6287105	N/A	2019/08/20	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6289897	2019/08/20	2019/08/21	Nimarta Singh
Low Level Total Suspended Solids	BAL	6285893	2019/08/17	2019/08/19	Mandeep Kaur
Turbidity	AT	6284179	N/A	2019/08/16	Kazzandra Adeva

BV Labs ID: KNG861 Dup
Sample ID: MEL-13
Matrix: Surface Water

Collected: 2019/08/10
Shipped:
Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	6287497	2019/08/19	2019/08/20	Rajni Tyagi



BV Labs Job #: B9M5881
Report Date: 2019/08/29

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TEST SUMMARY

BV Labs ID: KNG862
Sample ID: MEL-13-DUP
Matrix: Surface Water

Collected: 2019/08/10
Shipped:
Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6285216	N/A	2019/08/17	Neil Dassanayake
Carbonate, Bicarbonate and Hydroxide	CALC	6281848	N/A	2019/08/19	Automated Statchk
Chloride by Automated Colourimetry	KONE	6285778	N/A	2019/08/19	Deonarine Ramnarine
Conductivity	AT	6285224	N/A	2019/08/17	Neil Dassanayake
Free (WAD) Cyanide	SKAL/CN	6287861	N/A	2019/08/19	Gnana Thomas
Total Cyanide	SKAL/CN	6287854	2019/08/19	2019/08/19	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6284097	N/A	2019/08/17	Mandeep Kaur
Dissolved Oxygen	DO	6284385	2019/08/16	2019/08/16	Nusrat Naz
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6288243	N/A	2019/08/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6289107	2019/08/20	2019/08/20	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6289091	2019/08/20	2019/08/20	Ron Morrison
Mercury (low level)	CV/AA	6286866	2019/08/19	2019/08/19	Ron Morrison
Cyanide (Free)	SPEC	6290148	2019/08/20	2019/08/20	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6289748	N/A	2019/08/21	Report Automation Engine
Hardness (calculated as CaCO ₃)	CALC	6288345	N/A	2019/08/21	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6288346	N/A	2019/08/21	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6291995	N/A	2019/08/21	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6288349	2019/08/21	2019/08/21	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6291713	2019/08/20	2019/08/20	Vanessa Chan
Silica (Reactive)	KONE	6291768	N/A	2019/08/20	Zafar Iqbal
Total Ammonia-N	LACH/NH ₄	6289003	N/A	2019/08/21	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6284146	N/A	2019/08/17	Amanpreet Sappal
pH	AT	6285228	2019/08/16	2019/08/17	Neil Dassanayake
Orthophosphate	KONE	6285782	N/A	2019/08/21	Alina Dobreanu
Radium-226 Low Level	AS	6287025	N/A	2019/08/27	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6285780	N/A	2019/08/19	Deonarine Ramnarine
Total Dissolved Solids	BAL	6286027	2019/08/17	2019/08/19	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6287145	2019/08/19	2019/08/20	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6288212	N/A	2019/08/20	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6289419	2019/08/20	2019/08/21	Nimarta Singh
Low Level Total Suspended Solids	BAL	6285893	2019/08/17	2019/08/19	Mandeep Kaur
Turbidity	AT	6284179	N/A	2019/08/16	Kazzandra Adeva

BV Labs ID: KNG862 Dup
Sample ID: MEL-13-DUP
Matrix: Surface Water

Collected: 2019/08/10
Shipped:
Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	6285778	N/A	2019/08/19	Deonarine Ramnarine
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6289107	2019/08/20	2019/08/20	Prabhjot Gulati
Orthophosphate	KONE	6285782	N/A	2019/08/21	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	6285780	N/A	2019/08/19	Deonarine Ramnarine
Turbidity	AT	6284179	N/A	2019/08/16	Kazzandra Adeva



BV Labs Job #: B9M5881
Report Date: 2019/08/29

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TEST SUMMARY

BV Labs ID: KNG863
Sample ID: MEL-13-FB
Matrix: Surface Water

Collected: 2019/08/10
Shipped:
Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6285216	N/A	2019/08/17	Neil Dassanayake
Carbonate, Bicarbonate and Hydroxide	CALC	6281848	N/A	2019/08/19	Automated Statchk
Chloride by Automated Colourimetry	KONE	6285778	N/A	2019/08/19	Deonarine Ramnarine
Conductivity	AT	6285224	N/A	2019/08/17	Neil Dassanayake
Free (WAD) Cyanide	SKAL/CN	6287861	N/A	2019/08/19	Gnana Thomas
Total Cyanide	SKAL/CN	6287854	2019/08/19	2019/08/19	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6284097	N/A	2019/08/17	Mandeep Kaur
Dissolved Oxygen	DO	6284385	2019/08/16	2019/08/16	Nusrat Naz
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6288243	N/A	2019/08/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6289107	2019/08/20	2019/08/20	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6286927	2019/08/19	2019/08/19	Ron Morrison
Mercury (low level)	CV/AA	6289103	2019/08/20	2019/08/20	Ron Morrison
Cyanide (Free)	SPEC	6290148	2019/08/20	2019/08/20	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6289748	N/A	2019/08/21	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6288345	N/A	2019/08/21	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6288346	N/A	2019/08/21	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6291995	N/A	2019/08/21	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6288349	2019/08/21	2019/08/21	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6291713	2019/08/20	2019/08/20	Vanessa Chan
Silica (Reactive)	KONE	6291768	N/A	2019/08/20	Zafar Iqbal
Total Ammonia-N	LACH/NH ₄	6288996	N/A	2019/08/20	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6284146	N/A	2019/08/17	Amanpreet Sappal
pH	AT	6285228	2019/08/16	2019/08/17	Neil Dassanayake
Orthophosphate	KONE	6285782	N/A	2019/08/21	Alina Doboreanu
Radium-226 Low Level	AS	6287025	N/A	2019/08/27	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6285780	N/A	2019/08/19	Deonarine Ramnarine
Total Dissolved Solids	BAL	6286027	2019/08/17	2019/08/19	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6287145	2019/08/19	2019/08/20	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6288212	N/A	2019/08/20	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6289419	2019/08/20	2019/08/20	Nimarta Singh
Low Level Total Suspended Solids	BAL	6285893	2019/08/17	2019/08/19	Mandeep Kaur
Turbidity	AT	6284179	N/A	2019/08/16	Kazzandra Adeva

BV Labs ID: KNG863 Dup
Sample ID: MEL-13-FB
Matrix: Surface Water

Collected: 2019/08/10
Shipped:
Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury (low level)	CV/AA	6289103	2019/08/20	2019/08/20	Ron Morrison
Total Organic Carbon (TOC)	TOCV/NDIR	6288212	N/A	2019/08/20	Mandeep Kaur



GENERAL COMMENTS

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

Package 1	14.7°C

Sample KNG861 [MEL-13] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Sample KNG862 [MEL-13-DUP] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Sample KNG863 [MEL-13-FB] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Results relate only to the items tested.



BV Labs Job #: B9M5881
Report Date: 2019/08/29

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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
6288243	1,4-Difluorobenzene	2019/08/19	103	70 - 130	103	70 - 130	98	%				
6288243	4-Bromofluorobenzene	2019/08/19	99	70 - 130	100	70 - 130	99	%				
6288243	D10-Ethylbenzene	2019/08/19	98	70 - 130	94	70 - 130	93	%				
6288243	D4-1,2-Dichloroethane	2019/08/19	96	70 - 130	99	70 - 130	101	%				
6289107	o-Terphenyl	2019/08/20	112	60 - 130	102	60 - 130	98	%				
6284097	Dissolved Organic Carbon	2019/08/17	93	80 - 120	97	80 - 120	<0.50	mg/L	1.0	20		
6284146	Nitrate (N)	2019/08/17	98	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
6284146	Nitrite (N)	2019/08/17	104	80 - 120	104	80 - 120	<0.010	mg/L	5.8	20		
6284179	Turbidity	2019/08/16			94	85 - 115	<0.1	NTU	4.5	20		
6285216	Alkalinity (Total as CaCO3)	2019/08/17			98	85 - 115	<1.0	mg/L	1.1	20		
6285224	Conductivity	2019/08/17			101	85 - 115	<1.0	umho/cm	0	25		
6285228	pH	2019/08/17			102	98 - 103			0.42	N/A		
6285229	Nitrate (N)	2019/08/18	NC	80 - 120	100	80 - 120	<0.10	mg/L	0.11	20		
6285229	Nitrite (N)	2019/08/18	95	80 - 120	104	80 - 120	<0.010	mg/L	0.16	20		
6285778	Dissolved Chloride (Cl-)	2019/08/19	117	80 - 120	103	80 - 120	<1.0	mg/L	1.1	20		
6285780	Dissolved Sulphate (SO4)	2019/08/19	105	75 - 125	102	80 - 120	<1.0	mg/L	2.9	20		
6285782	Orthophosphate (P)	2019/08/21	104	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
6285893	Total Suspended Solids	2019/08/19					<1	mg/L	NC	25	100	85 - 115
6286027	Total Dissolved Solids	2019/08/19					<10	mg/L	2.0	25	97	90 - 110
6286866	Mercury (Hg)	2019/08/19	101	75 - 125	102	80 - 120	<0.00001	mg/L	NC	20		
6286927	Dissolved Mercury (Hg)	2019/08/19	93	75 - 125	102	80 - 120	<0.00001	mg/L	NC	20		
6287025	Radium-226	2019/08/21			100	85 - 115	<0.0050	Bq/L	NC	N/A		
6287105	Total Organic Carbon (TOC)	2019/08/20	92	80 - 120	97	80 - 120	<0.50	mg/L	2.4	20		
6287145	Total Kjeldahl Nitrogen (TKN)	2019/08/20	NC	80 - 120	94	80 - 120	<0.10	mg/L	2.4 (1)	20	96	80 - 120
6287497	Total Kjeldahl Nitrogen (TKN)	2019/08/20	96	80 - 120	100	80 - 120	<0.10	mg/L	NC	20	101	80 - 120
6287854	Total Cyanide (CN)	2019/08/19	103	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
6287861	WAD Cyanide (Free)	2019/08/19	105	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
6288212	Total Organic Carbon (TOC)	2019/08/20	92	80 - 120	97	80 - 120	<0.50	mg/L	NC	20		
6288243	Benzene	2019/08/19	99	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
6288243	Ethylbenzene	2019/08/19	100	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
6288243	F1 (C6-C10) - BTEX	2019/08/19					<25	ug/L	NC	30		



BV Labs Job #: B9M5881
Report Date: 2019/08/29

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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
6288243	F1 (C6-C10)	2019/08/19	81	70 - 130	100	70 - 130	<25	ug/L	NC	30		
6288243	o-Xylene	2019/08/19	98	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
6288243	p+m-Xylene	2019/08/19	99	70 - 130	97	70 - 130	<0.40	ug/L	NC	30		
6288243	Toluene	2019/08/19	101	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
6288243	Total Xylenes	2019/08/19					<0.40	ug/L	NC	30		
6288996	Total Ammonia-N	2019/08/20	100	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
6289003	Total Ammonia-N	2019/08/21	100	75 - 125	100	80 - 120	<0.050	mg/L	17	20		
6289091	Dissolved Mercury (Hg)	2019/08/20	99	75 - 125	98	80 - 120	<0.00001	mg/L	NC	20		
6289103	Mercury (Hg)	2019/08/20	94	75 - 125	98	80 - 120	<0.00001	mg/L	NC	20		
6289107	F2 (C10-C16 Hydrocarbons)	2019/08/20	105	50 - 130	87	60 - 130	<100	ug/L	NC	30		
6289107	F3 (C16-C34 Hydrocarbons)	2019/08/20	96	50 - 130	82	60 - 130	<200	ug/L	NC	30		
6289107	F4 (C34-C50 Hydrocarbons)	2019/08/20	103	50 - 130	90	60 - 130	<200	ug/L	NC	30		
6289419	Total Phosphorus	2019/08/20	100	80 - 120	101	80 - 120	<0.020	mg/L	1.9	20	101	80 - 120
6289897	Total Phosphorus	2019/08/21	96	80 - 120	97	80 - 120	<0.020	mg/L	NC	20	99	80 - 120
6290148	Free Cyanide (CN)	2019/08/20	93	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
6291713	Total Aluminum (Al)	2019/08/20	101	80 - 120	101	80 - 120	<3.0	ug/L	1.8	20		
6291713	Total Antimony (Sb)	2019/08/20	101	80 - 120	101	80 - 120	<0.50	ug/L	1.4	20		
6291713	Total Arsenic (As)	2019/08/20	104	80 - 120	100	80 - 120	<0.10	ug/L	12	20		
6291713	Total Barium (Ba)	2019/08/20	101	80 - 120	103	80 - 120	<1.0	ug/L	1.2	20		
6291713	Total Beryllium (Be)	2019/08/20	94	80 - 120	95	80 - 120	<0.10	ug/L	NC	20		
6291713	Total Bismuth (Bi)	2019/08/20	99	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
6291713	Total Boron (B)	2019/08/20	96	80 - 120	97	80 - 120	<50	ug/L	NC	20		
6291713	Total Cadmium (Cd)	2019/08/20	99	80 - 120	99	80 - 120	<0.010	ug/L	NC	20		
6291713	Total Chromium (Cr)	2019/08/20	99	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
6291713	Total Cobalt (Co)	2019/08/20	95	80 - 120	98	80 - 120	<0.20	ug/L	NC	20		
6291713	Total Copper (Cu)	2019/08/20	94	80 - 120	99	80 - 120	<0.50	ug/L	0.68	20		
6291713	Total Iron (Fe)	2019/08/20	96	80 - 120	102	80 - 120	<10	ug/L	NC	20		
6291713	Total Lead (Pb)	2019/08/20	102	80 - 120	103	80 - 120	<0.20	ug/L	NC	20		
6291713	Total Lithium (Li)	2019/08/20	94	80 - 120	95	80 - 120	<2.0	ug/L	NC	20		
6291713	Total Manganese (Mn)	2019/08/20	98	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
6291713	Total Molybdenum (Mo)	2019/08/20	107	80 - 120	99	80 - 120	<1.0	ug/L	2.7	20		
6291713	Total Nickel (Ni)	2019/08/20	95	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		



BV Labs Job #: B9M5881
Report Date: 2019/08/29

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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
6291713	Total Selenium (Se)	2019/08/20	105	80 - 120	101	80 - 120	<0.10	ug/L	3.5	20		
6291713	Total Silicon (Si)	2019/08/20	97	80 - 120	102	80 - 120	<100	ug/L	0.18	20		
6291713	Total Silver (Ag)	2019/08/20	98	80 - 120	98	80 - 120	<0.020	ug/L	NC	20		
6291713	Total Strontium (Sr)	2019/08/20	NC	80 - 120	101	80 - 120	<1.0	ug/L	0.39	20		
6291713	Total Thallium (Tl)	2019/08/20	102	80 - 120	102	80 - 120	<0.010	ug/L	NC	20		
6291713	Total Tin (Sn)	2019/08/20	100	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
6291713	Total Titanium (Ti)	2019/08/20	102	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
6291713	Total Uranium (U)	2019/08/20	105	80 - 120	102	80 - 120	<0.10	ug/L	0.91	20		
6291713	Total Vanadium (V)	2019/08/20	101	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
6291713	Total Zinc (Zn)	2019/08/20	93	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
6291713	Total Zirconium (Zr)	2019/08/20	108	80 - 120	103	80 - 120	<0.10	ug/L	NC	20		
6291768	Reactive Silica (SiO2)	2019/08/20	NC	80 - 120	100	80 - 120	<0.050	mg/L	0.39	20		
6291995	Dissolved Aluminum (Al)	2019/08/21	100	80 - 120	103	80 - 120	<3.0	ug/L	1.9	20		
6291995	Dissolved Antimony (Sb)	2019/08/21	99	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
6291995	Dissolved Arsenic (As)	2019/08/21	100	80 - 120	102	80 - 120	<0.10	ug/L	12	20		
6291995	Dissolved Barium (Ba)	2019/08/21	98	80 - 120	100	80 - 120	<1.0	ug/L	0.95	20		
6291995	Dissolved Beryllium (Be)	2019/08/21	99	80 - 120	104	80 - 120	<0.10	ug/L	NC	20		
6291995	Dissolved Bismuth (Bi)	2019/08/21	99	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
6291995	Dissolved Boron (B)	2019/08/21	98	80 - 120	99	80 - 120	<50	ug/L	NC	20		
6291995	Dissolved Cadmium (Cd)	2019/08/21	99	80 - 120	103	80 - 120	<0.010	ug/L	NC	20		
6291995	Dissolved Chromium (Cr)	2019/08/21	99	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
6291995	Dissolved Cobalt (Co)	2019/08/21	96	80 - 120	103	80 - 120	<0.20	ug/L	NC	20		
6291995	Dissolved Copper (Cu)	2019/08/21	92	80 - 120	101	80 - 120	<0.20	ug/L	0.53	20		
6291995	Dissolved Iron (Fe)	2019/08/21	99	80 - 120	104	80 - 120	<5.0	ug/L	NC	20		
6291995	Dissolved Lead (Pb)	2019/08/21	99	80 - 120	103	80 - 120	<0.20	ug/L	NC	20		
6291995	Dissolved Lithium (Li)	2019/08/21	99	80 - 120	103	80 - 120	<2.0	ug/L	0.83	20		
6291995	Dissolved Manganese (Mn)	2019/08/21	98	80 - 120	104	80 - 120	<1.0	ug/L	1.5	20		
6291995	Dissolved Molybdenum (Mo)	2019/08/21	107	80 - 120	107	80 - 120	<1.0	ug/L	1.5	20		
6291995	Dissolved Nickel (Ni)	2019/08/21	93	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
6291995	Dissolved Selenium (Se)	2019/08/21	102	80 - 120	103	80 - 120	<0.10	ug/L	13	20		
6291995	Dissolved Silicon (Si)	2019/08/21	100	80 - 120	106	80 - 120	<100	ug/L	0.67	20		
6291995	Dissolved Silver (Ag)	2019/08/21	99	80 - 120	102	80 - 120	<0.020	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: B9M5881
Report Date: 2019/08/29

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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
6291995	Dissolved Strontium (Sr)	2019/08/21	NC	80 - 120	105	80 - 120	<1.0	ug/L	0.69	20		
6291995	Dissolved Thallium (Tl)	2019/08/21	99	80 - 120	104	80 - 120	<0.010	ug/L	NC	20		
6291995	Dissolved Tin (Sn)	2019/08/21	101	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
6291995	Dissolved Titanium (Ti)	2019/08/21	101	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
6291995	Dissolved Uranium (U)	2019/08/21	102	80 - 120	104	80 - 120	<0.10	ug/L	1.7	20		
6291995	Dissolved Vanadium (V)	2019/08/21	100	80 - 120	105	80 - 120	<5.0	ug/L	NC	20		
6291995	Dissolved Zinc (Zn)	2019/08/21	97	80 - 120	105	80 - 120	<5.0	ug/L	NC	20		
6291995	Dissolved Zirconium (Zr)	2019/08/21	105	80 - 120	103	80 - 120	<0.10	ug/L	NC	20		

N/A = Not Applicable

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 $\leq 2 \times \text{RDL}$).

(1) TKN < NH₄: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



BUREAU
VERITAS

BV Labs Job #: B9M5881

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

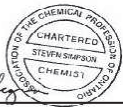
VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Harry (Peng) Liang, Senior Analyst



Steven Simpson, Lab Director

BV Labs 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.



BV Labs Job #: B9M5881
Report Date: 2019/08/29

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site Location: MELIADINE
 Your C.O.C. #: N/A

Attention: Reporting

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

Report Date: 2019/10/10
 Report #: R5916780
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9Q6869

Received: 2019/09/23, 10:00

Sample Matrix: Surface Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/09/26	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/09/27	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	1	N/A	2019/09/25	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	1	N/A	2019/09/26	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/09/25	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/09/25	2019/09/25	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/09/25	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/09/24	2019/09/24	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2019/09/26	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	1	2019/09/26	2019/09/27	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	1	2019/09/27	2019/09/27	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/09/27	2019/09/27	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	1	N/A	2019/10/01	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/09/28	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/09/28	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/09/27	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/09/24	2019/10/01	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/09/30	2019/10/01	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/09/30	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/09/27	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/09/25	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/09/24	2019/09/26	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/09/25	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/10/09	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/09/25	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/09/25	2019/09/26	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/09/25	2019/09/27	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/09/26	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	1	2019/09/26	2019/09/26	CAM SOP-00407	SM 23 4500 P B H m



Your P.O. #: OL-762849
Site Location: MELIADINE
Your C.O.C. #: N/A

Attention: Reporting

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

Report Date: 2019/10/10
Report #: R5916780
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9Q6869

Received: 2019/09/23, 10:00

Sample Matrix: Surface Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Reference
	Quantity	Extracted			
Low Level Total Suspended Solids (1)	1	2019/09/24	2019/09/25	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/09/24	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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

(7) "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).

(8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.



Your P.O. #: OL-762849
Site Location: MELIADINE
Your C.O.C. #: N/A

Attention: Reporting

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

Report Date: 2019/10/10
Report #: R5916780
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9Q6869

Received: 2019/09/23, 10:00

- (9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Keshani Vijh
Supervisor - Environmental
Customer Service
11 Oct 2019 16:25:02

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

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VERITAS

BV Labs Job #: B9Q6869

Report Date: 2019/10/10

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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

BV Labs ID		KVZ380		
Sampling Date		2019/09/18 10:00		
COC Number		N/A		
	UNITS	MEL-13	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	6354022
Toluene	ug/L	<0.20	0.20	6354022
Ethylbenzene	ug/L	<0.20	0.20	6354022
o-Xylene	ug/L	<0.20	0.20	6354022
p+m-Xylene	ug/L	<0.40	0.40	6354022
Total Xylenes	ug/L	<0.40	0.40	6354022
F1 (C6-C10)	ug/L	<25	25	6354022
F1 (C6-C10) - BTEX	ug/L	<25	25	6354022
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	6355643
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	6355643
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	6355643
Reached Baseline at C50	ug/L	Yes		6355643
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	102		6354022
4-Bromofluorobenzene	%	101		6354022
D10-Ethylbenzene	%	114		6354022
D4-1,2-Dichloroethane	%	108		6354022
o-Terphenyl	%	94		6355643
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				

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VERITAS

BV Labs Job #: B9Q6869

Report Date: 2019/10/10

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (SURFACE WATER)

BV Labs ID		KVZ380		
Sampling Date		2019/09/18 10:00		
COC Number		N/A		
	UNITS	MEL-13	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	23.7	0.50	6363021
Metals				
Dissolved Aluminum (Al)	ug/L	<3.0	3.0	6363023
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	6363023
Dissolved Arsenic (As)	ug/L	0.39	0.10	6363023
Dissolved Barium (Ba)	ug/L	7.2	1.0	6363023
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	6363023
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	6363023
Dissolved Boron (B)	ug/L	<50	50	6363023
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	6363023
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	6363023
Dissolved Cobalt (Co)	ug/L	<0.20	0.20	6363023
Dissolved Copper (Cu)	ug/L	0.72	0.20	6363023
Dissolved Iron (Fe)	ug/L	5.1	5.0	6363023
Dissolved Lead (Pb)	ug/L	<0.20	0.20	6363023
Dissolved Lithium (Li)	ug/L	<2.0	2.0	6363023
Dissolved Manganese (Mn)	ug/L	<1.0	1.0	6363023
Dissolved Molybdenum (Mo)	ug/L	2.7	1.0	6363023
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	6363023
Dissolved Selenium (Se)	ug/L	<0.10	0.10	6363023
Dissolved Silicon (Si)	ug/L	133	100	6363023
Dissolved Silver (Ag)	ug/L	<0.020	0.020	6363023
Dissolved Strontium (Sr)	ug/L	44.8	1.0	6363023
Dissolved Thallium (Tl)	ug/L	<0.010	0.010	6363023
Dissolved Tin (Sn)	ug/L	<5.0	5.0	6363023
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	6363023
Dissolved Uranium (U)	ug/L	<0.10	0.10	6363023
Dissolved Vanadium (V)	ug/L	<5.0	5.0	6363023
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	6363023
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	6363023
Dissolved Calcium (Ca)	mg/L	7.30	0.050	6363022
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9Q6869

Report Date: 2019/10/10

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (SURFACE WATER)

BV Labs ID		KVZ380		
Sampling Date		2019/09/18 10:00		
COC Number		N/A		
	UNITS	MEL-13	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	1.34	0.050	6363022
Dissolved Potassium (K)	mg/L	0.969	0.050	6363022
Dissolved Sodium (Na)	mg/L	5.53	0.050	6363022
Dissolved Sulphur (S)	mg/L	<3.0	3.0	6363022
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9Q6869

Report Date: 2019/10/10

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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

BV Labs ID		KVZ380		
Sampling Date		2019/09/18 10:00		
COC Number		N/A		
	UNITS	MEL-13	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	11.5	3.0	6363017
Total Antimony (Sb)	ug/L	<0.50	0.50	6363017
Total Arsenic (As)	ug/L	0.43	0.10	6363017
Total Barium (Ba)	ug/L	7.8	1.0	6363017
Total Beryllium (Be)	ug/L	<0.10	0.10	6363017
Total Bismuth (Bi)	ug/L	<1.0	1.0	6363017
Total Boron (B)	ug/L	<50	50	6363017
Total Cadmium (Cd)	ug/L	<0.010	0.010	6363017
Total Chromium (Cr)	ug/L	<1.0	1.0	6363017
Total Cobalt (Co)	ug/L	<0.20	0.20	6363017
Total Copper (Cu)	ug/L	0.84	0.50	6363017
Total Iron (Fe)	ug/L	31	10	6363017
Total Lead (Pb)	ug/L	<0.20	0.20	6363017
Total Lithium (Li)	ug/L	<2.0	2.0	6363017
Total Manganese (Mn)	ug/L	3.5	1.0	6363017
Total Molybdenum (Mo)	ug/L	<1.0	1.0	6363017
Total Nickel (Ni)	ug/L	<1.0	1.0	6363017
Total Selenium (Se)	ug/L	<0.10	0.10	6363017
Total Silicon (Si)	ug/L	153	100	6363017
Total Silver (Ag)	ug/L	<0.020	0.020	6363017
Total Strontium (Sr)	ug/L	45.9	1.0	6363017
Total Thallium (Tl)	ug/L	<0.010	0.010	6363017
Total Tin (Sn)	ug/L	<5.0	5.0	6363017
Total Titanium (Ti)	ug/L	<5.0	5.0	6363017
Total Uranium (U)	ug/L	<0.10	0.10	6363017
Total Vanadium (V)	ug/L	<5.0	5.0	6363017
Total Zinc (Zn)	ug/L	<5.0	5.0	6363017
Total Zirconium (Zr)	ug/L	<0.10	0.10	6363017
Total Calcium (Ca)	ug/L	7900	50	6360650
Total Magnesium (Mg)	ug/L	1440	50	6360650
Total Potassium (K)	ug/L	1050	50	6360650
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9Q6869

Report Date: 2019/10/10

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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

BV Labs ID		KVZ380		
Sampling Date		2019/09/18 10:00		
COC Number		N/A		
	UNITS	MEL-13	RDL	QC Batch
Total Sodium (Na)	ug/L	5880	50	6360650
Total Sulphur (S)	ug/L	<3000	3000	6360650
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	25700	500	6363016
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9Q6869
Report Date: 2019/10/10

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

RESULTS OF ANALYSES OF SURFACE WATER

BV Labs ID		KVZ380			KVZ380		
Sampling Date		2019/09/18 10:00			2019/09/18 10:00		
COC Number		N/A			N/A		
	UNITS	MEL-13	RDL	QC Batch	MEL-13 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	16	1.0	6348963			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6348963			
Inorganics							
Total Ammonia-N	mg/L	0.055	0.050	6352057			
Conductivity	umho/cm	90	1.0	6350019			
Free Cyanide (CN)	ug/L	1.6 (1)	1.0	6368183			
Total Dissolved Solids	mg/L	55	10	6352722			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.16	0.10	6351997			
Dissolved Organic Carbon	mg/L	2.9	0.50	6349438			
Total Organic Carbon (TOC)	mg/L	3.2	0.50	6352161			
Orthophosphate (P)	mg/L	<0.010	0.010	6350313			
Dissolved Oxygen	mg/L	9.77		6349286			
pH	pH	7.56		6350029			
Total Phosphorus	mg/L	0.025	0.020	6353846			
Reactive Silica (SiO ₂)	mg/L	0.26	0.050	6363014			
Total Suspended Solids	mg/L	1	1	6349829			
Dissolved Sulphate (SO ₄)	mg/L	3.8	1.0	6350309			
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6351953	<0.0050	0.0050	6351953
Turbidity	NTU	0.2	0.1	6349797			
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6351958	<0.0010	0.0010	6351958
Alkalinity (Total as CaCO ₃)	mg/L	16	1.0	6350018			
Dissolved Chloride (Cl ⁻)	mg/L	13	1.0	6350301			
Nitrite (N)	mg/L	<0.010	0.010	6349936			
Nitrate (N)	mg/L	<0.10	0.10	6349936			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	6349936			
RADIONUCLIDE							
Radium-226	Bq/L	<0.0050	0.0050	6370167			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W							



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VERITAS

BV Labs Job #: B9Q6869

Report Date: 2019/10/10

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

ELEMENTS BY ATOMIC SPECTROSCOPY (SURFACE WATER)

BV Labs ID		KVZ380			KVZ380		
Sampling Date		2019/09/18 10:00			2019/09/18 10:00		
COC Number		N/A			N/A		
	UNITS	MEL-13	RDL	QC Batch	MEL-13 Lab-Dup	RDL	QC Batch
Metals							
Mercury (Hg)	mg/L	<0.00001	0.00001	6356265			
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6356269	<0.00001	0.00001	6356269
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							



BV Labs Job #: B9Q6869
Report Date: 2019/10/10

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: KVZ380
Sample ID: MEL-13
Matrix: Surface Water

Collected: 2019/09/18
Shipped:
Received: 2019/09/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6350018	N/A	2019/09/26	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6348963	N/A	2019/09/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	6350301	N/A	2019/09/25	Deonarine Ramnarine
Conductivity	AT	6350019	N/A	2019/09/26	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6351958	N/A	2019/09/25	Gnana Thomas
Total Cyanide	SKAL/CN	6351953	2019/09/25	2019/09/25	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6349438	N/A	2019/09/25	Mandeep Kaur
Dissolved Oxygen	DO	6349286	2019/09/24	2019/09/24	Frank Zhang
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6354022	N/A	2019/09/26	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6355643	2019/09/26	2019/09/27	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6356269	2019/09/27	2019/09/27	Medhat Nasr
Mercury (low level)	CV/AA	6356265	2019/09/27	2019/09/27	Medhat Nasr
Cyanide (Free)	SPEC	6368183	2019/09/30	2019/10/01	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6363016	N/A	2019/10/01	Report Automation Engine
Hardness (calculated as CaCO ₃)	CALC	6363021	N/A	2019/09/28	Report Automation Engine
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6363022	N/A	2019/09/28	Report Automation Engine
Elements by CRC ICPMS (dissolved)	ICP/MS	6363023	N/A	2019/09/27	Valentina Balada
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6360650	2019/10/01	2019/10/01	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6363017	2019/09/30	2019/10/01	Andrew An
Silica (Reactive)	KONE	6363014	N/A	2019/09/30	Zafar Iqbal
Total Ammonia-N	LACH/NH ₄	6352057	N/A	2019/09/27	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6349936	N/A	2019/09/25	Chandra Nandlal
pH	AT	6350029	2019/09/24	2019/09/26	Surinder Rai
Orthophosphate	KONE	6350313	N/A	2019/09/25	Alina Dobreanu
Radium-226 Low Level	AS	6370167	N/A	2019/10/09	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6350309	N/A	2019/09/25	Alina Dobreanu
Total Dissolved Solids	BAL	6352722	2019/09/25	2019/09/26	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6351997	2019/09/25	2019/09/27	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6352161	N/A	2019/09/26	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6353846	2019/09/26	2019/09/26	Shivani Shivani
Low Level Total Suspended Solids	BAL	6349829	2019/09/24	2019/09/25	Nilam Borole
Turbidity	AT	6349797	N/A	2019/09/24	Kazzandra Adeva

BV Labs ID: KVZ380 Dup
Sample ID: MEL-13
Matrix: Surface Water

Collected: 2019/09/18
Shipped:
Received: 2019/09/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	6351958	N/A	2019/09/25	Gnana Thomas
Total Cyanide	SKAL/CN	6351953	2019/09/25	2019/09/25	Gnana Thomas
Dissolved Mercury (low level)	CV/AA	6356269	2019/09/27	2019/09/27	Medhat Nasr



BUREAU
VERITAS

BV Labs Job #: B9Q6869

Report Date: 2019/10/10

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

GENERAL COMMENTS

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

Package 1	19.0°C

Sample KVZ380 [MEL-13] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Results relate only to the items tested.



BV Labs Job #: B9Q6869
Report Date: 2019/10/10

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6354022	1,4-Difluorobenzene	2019/09/26	100	70 - 130	100	70 - 130	103	%				
6354022	4-Bromofluorobenzene	2019/09/26	102	70 - 130	102	70 - 130	102	%				
6354022	D10-Ethylbenzene	2019/09/26	104	70 - 130	106	70 - 130	119	%				
6354022	D4-1,2-Dichloroethane	2019/09/26	110	70 - 130	106	70 - 130	107	%				
6355643	o-Terphenyl	2019/09/27	100	60 - 130	101	60 - 130	100	%				
6349438	Dissolved Organic Carbon	2019/09/25	91	80 - 120	97	80 - 120	<0.50	mg/L	0.23	20		
6349797	Turbidity	2019/09/24			97	85 - 115	<0.1	NTU	2.9	20		
6349829	Total Suspended Solids	2019/09/25					<1	mg/L	9.5	25	101	85 - 115
6349936	Nitrate (N)	2019/09/25	98	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
6349936	Nitrite (N)	2019/09/25	101	80 - 120	102	80 - 120	<0.010	mg/L	NC	20		
6350018	Alkalinity (Total as CaCO3)	2019/09/26			96	85 - 115	<1.0	mg/L	0.49	20		
6350019	Conductivity	2019/09/26			101	85 - 115	<1.0	umho/cm	0	25		
6350029	pH	2019/09/26			102	98 - 103			0.26	N/A		
6350301	Dissolved Chloride (Cl-)	2019/09/25	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.99	20		
6350309	Dissolved Sulphate (SO4)	2019/09/25	NC	75 - 125	105	80 - 120	<1.0	mg/L	0.00074	20		
6350313	Orthophosphate (P)	2019/09/25	112	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
6351953	Total Cyanide (CN)	2019/09/25	97	80 - 120	96	80 - 120	<0.0050	mg/L	NC	20		
6351958	WAD Cyanide (Free)	2019/09/25	92	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20		
6351997	Total Kjeldahl Nitrogen (TKN)	2019/09/27	105	80 - 120	100	80 - 120	<0.10	mg/L	NC	20	97	80 - 120
6352057	Total Ammonia-N	2019/09/27	100	75 - 125	98	80 - 120	<0.050	mg/L	NC	20		
6352161	Total Organic Carbon (TOC)	2019/09/26	86	80 - 120	97	80 - 120	<0.50	mg/L	0.70	20		
6352722	Total Dissolved Solids	2019/09/26					<10	mg/L	0.71	25	98	90 - 110
6353846	Total Phosphorus	2019/09/26	99	80 - 120	99	80 - 120	<0.020	mg/L	1.1	20	101	80 - 120
6354022	Benzene	2019/09/26	102	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
6354022	Ethylbenzene	2019/09/26	105	70 - 130	106	70 - 130	<0.20	ug/L	NC	30		
6354022	F1 (C6-C10) - BTEX	2019/09/26					<25	ug/L	NC	30		
6354022	F1 (C6-C10)	2019/09/26	96	70 - 130	97	70 - 130	<25	ug/L	NC	30		
6354022	o-Xylene	2019/09/26	107	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
6354022	p+m-Xylene	2019/09/26	109	70 - 130	109	70 - 130	<0.40	ug/L	NC	30		
6354022	Toluene	2019/09/26	98	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
6354022	Total Xylenes	2019/09/26					<0.40	ug/L	NC	30		



BV Labs Job #: B9Q6869
Report Date: 2019/10/10

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6355643	F2 (C10-C16 Hydrocarbons)	2019/09/27	105	50 - 130	103	60 - 130	<100	ug/L	NC	30		
6355643	F3 (C16-C34 Hydrocarbons)	2019/09/27	NC	50 - 130	106	60 - 130	<200	ug/L	NC	30		
6355643	F4 (C34-C50 Hydrocarbons)	2019/09/27	113	50 - 130	114	60 - 130	<200	ug/L	NC	30		
6356265	Mercury (Hg)	2019/09/27	95	75 - 125	97	80 - 120	<0.00001	mg/L	NC	20		
6356269	Dissolved Mercury (Hg)	2019/09/27	99	75 - 125	96	80 - 120	<0.00001	mg/L	NC	20		
6363014	Reactive Silica (SiO ₂)	2019/09/30	NC	80 - 120	96	80 - 120	<0.050	mg/L	2.7	20		
6363017	Total Aluminum (Al)	2019/10/01	104	80 - 120	101	80 - 120	<3.0	ug/L				
6363017	Total Antimony (Sb)	2019/10/01	NC	80 - 120	100	80 - 120	<0.50	ug/L				
6363017	Total Arsenic (As)	2019/10/01	107	80 - 120	104	80 - 120	<0.10	ug/L				
6363017	Total Barium (Ba)	2019/10/01	112	80 - 120	104	80 - 120	<1.0	ug/L				
6363017	Total Beryllium (Be)	2019/10/01	99	80 - 120	100	80 - 120	<0.10	ug/L				
6363017	Total Bismuth (Bi)	2019/10/01	78 (1)	80 - 120	101	80 - 120	<1.0	ug/L				
6363017	Total Boron (B)	2019/10/01	107	80 - 120	104	80 - 120	<50	ug/L				
6363017	Total Cadmium (Cd)	2019/10/01	103	80 - 120	103	80 - 120	<0.010	ug/L				
6363017	Total Chromium (Cr)	2019/10/01	96	80 - 120	98	80 - 120	<1.0	ug/L				
6363017	Total Cobalt (Co)	2019/10/01	94	80 - 120	103	80 - 120	<0.20	ug/L				
6363017	Total Copper (Cu)	2019/10/01	74 (1)	80 - 120	98	80 - 120	<0.50	ug/L				
6363017	Total Iron (Fe)	2019/10/01	105	80 - 120	103	80 - 120	<10	ug/L				
6363017	Total Lead (Pb)	2019/10/01	107	80 - 120	105	80 - 120	<0.20	ug/L				
6363017	Total Lithium (Li)	2019/10/01	108	80 - 120	103	80 - 120	<2.0	ug/L				
6363017	Total Manganese (Mn)	2019/10/01	NC	80 - 120	96	80 - 120	<1.0	ug/L				
6363017	Total Molybdenum (Mo)	2019/10/01	NC	80 - 120	103	80 - 120	<1.0	ug/L				
6363017	Total Nickel (Ni)	2019/10/01	99	80 - 120	102	80 - 120	<1.0	ug/L				
6363017	Total Selenium (Se)	2019/10/01	101	80 - 120	101	80 - 120	<0.10	ug/L				
6363017	Total Silicon (Si)	2019/10/01	108	80 - 120	103	80 - 120	<100	ug/L				
6363017	Total Silver (Ag)	2019/10/01	94	80 - 120	102	80 - 120	<0.020	ug/L				
6363017	Total Strontium (Sr)	2019/10/01	NC	80 - 120	98	80 - 120	<1.0	ug/L				
6363017	Total Thallium (Tl)	2019/10/01	107	80 - 120	105	80 - 120	<0.010	ug/L				
6363017	Total Tin (Sn)	2019/10/01	96	80 - 120	92	80 - 120	<5.0	ug/L				
6363017	Total Titanium (Ti)	2019/10/01	105	80 - 120	104	80 - 120	<5.0	ug/L				
6363017	Total Uranium (U)	2019/10/01	109	80 - 120	103	80 - 120	<0.10	ug/L				
6363017	Total Vanadium (V)	2019/10/01	98	80 - 120	97	80 - 120	<5.0	ug/L				



BV Labs Job #: B9Q6869
Report Date: 2019/10/10

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6363017	Total Zinc (Zn)	2019/10/01	97	80 - 120	104	80 - 120	<5.0	ug/L				
6363017	Total Zirconium (Zr)	2019/10/01	108	80 - 120	99	80 - 120	<0.10	ug/L				
6363023	Dissolved Aluminum (Al)	2019/09/27	95	80 - 120	99	80 - 120	<3.0	ug/L				
6363023	Dissolved Antimony (Sb)	2019/09/27	97	80 - 120	99	80 - 120	<0.50	ug/L				
6363023	Dissolved Arsenic (As)	2019/09/27	104	80 - 120	99	80 - 120	<0.10	ug/L				
6363023	Dissolved Barium (Ba)	2019/09/27	96	80 - 120	101	80 - 120	<1.0	ug/L				
6363023	Dissolved Beryllium (Be)	2019/09/27	96	80 - 120	98	80 - 120	<0.10	ug/L				
6363023	Dissolved Bismuth (Bi)	2019/09/27	92	80 - 120	100	80 - 120	<1.0	ug/L				
6363023	Dissolved Boron (B)	2019/09/27	90	80 - 120	95	80 - 120	<50	ug/L				
6363023	Dissolved Cadmium (Cd)	2019/09/27	95	80 - 120	100	80 - 120	<0.010	ug/L				
6363023	Dissolved Chromium (Cr)	2019/09/27	93	80 - 120	97	80 - 120	<1.0	ug/L				
6363023	Dissolved Cobalt (Co)	2019/09/27	91	80 - 120	98	80 - 120	<0.20	ug/L				
6363023	Dissolved Copper (Cu)	2019/09/27	89	80 - 120	98	80 - 120	<0.20	ug/L				
6363023	Dissolved Iron (Fe)	2019/09/27	92	80 - 120	100	80 - 120	<5.0	ug/L				
6363023	Dissolved Lead (Pb)	2019/09/27	96	80 - 120	103	80 - 120	<0.20	ug/L				
6363023	Dissolved Lithium (Li)	2019/09/27	95	80 - 120	99	80 - 120	<2.0	ug/L				
6363023	Dissolved Manganese (Mn)	2019/09/27	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6363023	Dissolved Molybdenum (Mo)	2019/09/27	101	80 - 120	101	80 - 120	<1.0	ug/L				
6363023	Dissolved Nickel (Ni)	2019/09/27	89	80 - 120	98	80 - 120	<1.0	ug/L				
6363023	Dissolved Selenium (Se)	2019/09/27	101	80 - 120	98	80 - 120	<0.10	ug/L				
6363023	Dissolved Silicon (Si)	2019/09/27	NC	80 - 120	102	80 - 120	<100	ug/L				
6363023	Dissolved Silver (Ag)	2019/09/27	93	80 - 120	99	80 - 120	<0.020	ug/L				
6363023	Dissolved Strontium (Sr)	2019/09/27	NC	80 - 120	103	80 - 120	<1.0	ug/L				
6363023	Dissolved Thallium (Tl)	2019/09/27	95	80 - 120	100	80 - 120	<0.010	ug/L				
6363023	Dissolved Tin (Sn)	2019/09/27	90	80 - 120	92	80 - 120	<5.0	ug/L				
6363023	Dissolved Titanium (Ti)	2019/09/27	97	80 - 120	100	80 - 120	<5.0	ug/L				
6363023	Dissolved Uranium (U)	2019/09/27	101	80 - 120	104	80 - 120	<0.10	ug/L				
6363023	Dissolved Vanadium (V)	2019/09/27	96	80 - 120	98	80 - 120	<5.0	ug/L				
6363023	Dissolved Zinc (Zn)	2019/09/27	92	80 - 120	100	80 - 120	<5.0	ug/L				
6363023	Dissolved Zirconium (Zr)	2019/09/27	105	80 - 120	102	80 - 120	<0.10	ug/L				
6368183	Free Cyanide (CN)	2019/10/01	85	80 - 120	93	80 - 120	<1.0	ug/L	0	20		



BV Labs Job #: B9Q6869
Report Date: 2019/10/10

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6370167	Radium-226	2019/10/08			86	85 - 115	<0.0050	Bq/L	NC	N/A		

N/A = Not Applicable

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 $\leq 2 \times \text{RDL}$).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9Q6869

Report Date: 2019/10/10

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Harry (Peng) Liang, Senior Analyst

Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

Rob Reinert, B.Sc., Scientific Specialist

BV Labs 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.



BV Labs Job #: B9Q6869
Report Date: 2019/10/10

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site#: 63°01'44.6" 92°09'14.6"
 Site Location: MELIADINE
 Your C.O.C. #: n/a

Attention: Reporting

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

Report Date: 2019/09/13
 Report #: R5878996
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9N2989

Received: 2019/08/21, 11:30

Sample Matrix: Surface Water
 # Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	3	N/A	2019/08/23	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	3	N/A	2019/08/26	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	3	N/A	2019/08/23	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	3	N/A	2019/08/23	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	3	N/A	2019/08/26	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	3	2019/08/26	2019/08/26	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	3	N/A	2019/08/23	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	3	2019/08/22	2019/08/22	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	3	N/A	2019/08/25	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	1	2019/08/27	2019/08/27	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	2	2019/08/27	2019/08/28	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	3	2019/08/23	2019/08/23	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	3	2019/08/23	2019/08/23	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	3	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	3	N/A	2019/08/25	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	3	N/A	2019/08/24	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	3	N/A	2019/08/24	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	3	N/A	2019/08/24	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	3	2019/08/22	2019/08/25	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	3	2019/08/24	2019/08/24	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	3	N/A	2019/08/26	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/08/26	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N (1)	1	N/A	2019/08/27	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N (1)	1	N/A	2019/08/28	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	3	N/A	2019/08/25	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	3	2019/08/22	2019/08/23	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	3	N/A	2019/08/23	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	3	N/A	2019/09/11	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	3	N/A	2019/08/23	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	3	2019/08/24	2019/08/26	CAM SOP-00428	SM 23 2540C m



Your P.O. #: OL-762849
Site#: 63°01'44.6" 92°09'14.6"
Site Location: MELIADINE
Your C.O.C. #: n/a

Attention: Reporting

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

Report Date: 2019/09/13
Report #: R5878996
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9N2989

Received: 2019/08/21, 11:30

Sample Matrix: Surface Water
Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Reference
		Extracted	Analyzed		
Total Kjeldahl Nitrogen in Water (1)	2	2019/08/24	2019/08/27	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water (1)	1	2019/08/27	2019/08/28	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	3	N/A	2019/08/27	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	3	2019/08/26	2019/08/26	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	3	2019/08/23	2019/08/26	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	3	N/A	2019/08/22	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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



Your P.O. #: OL-762849
Site#: 63°01'44.6" 92°09'14.6"
Site Location: MELIADINE
Your C.O.C. #: n/a

Attention: Reporting

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

Report Date: 2019/09/13
Report #: R5878996
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9N2989

Received: 2019/08/21, 11:30

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.

(7) "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).

(8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(9) Radium-226 results have not been corrected for blanks.

(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
13 Sep 2019 17:23:56

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

BV Labs 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

BV Labs Job #: B9N2989

Report Date: 2019/09/13

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

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

BV Labs ID		KOT154	KOT155			KOT155			KOT156		
Sampling Date		2019/08/18 04:30	2019/08/18 04:30			2019/08/18 04:30			2019/08/18 04:40		
COC Number		n/a	n/a			n/a			n/a		
	UNITS	MEL-13	MEL-13-DUP	RDL	QC Batch	MEL-13-DUP Lab-Dup	RDL	QC Batch	MEL-13-FB	RDL	QC Batch
BTEX & F1 Hydrocarbons											
Benzene	ug/L	<0.20	<0.20	0.20	6298547				<0.20	0.20	6298547
Toluene	ug/L	<0.20	<0.20	0.20	6298547				0.59	0.20	6298547
Ethylbenzene	ug/L	<0.20	<0.20	0.20	6298547				<0.20	0.20	6298547
o-Xylene	ug/L	<0.20	<0.20	0.20	6298547				<0.20	0.20	6298547
p+m-Xylene	ug/L	<0.40	<0.40	0.40	6298547				<0.40	0.40	6298547
Total Xylenes	ug/L	<0.40	<0.40	0.40	6298547				<0.40	0.40	6298547
F1 (C6-C10)	ug/L	<25	<25	25	6298547				<25	25	6298547
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	6298547				<25	25	6298547
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	6302157	<100	100	6302157	<100	100	6302157
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	6302157	<200	200	6302157	<200	200	6302157
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	6302157	<200	200	6302157	<200	200	6302157
Reached Baseline at C50	ug/L	Yes	Yes		6302157	Yes		6302157	Yes		6302157
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	100	101		6298547				100		6298547
4-Bromofluorobenzene	%	94	93		6298547				95		6298547
D10-Ethylbenzene	%	83	83		6298547				84		6298547
D4-1,2-Dichloroethane	%	83	84		6298547				82		6298547
o-Terphenyl	%	92	94		6302157	95		6302157	97		6302157
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
Lab-Dup = Laboratory Initiated Duplicate											



BV Labs Job #: B9N2989
Report Date: 2019/09/13

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (SURFACE WATER)

BV Labs ID		KOT154	KOT155	KOT156		
Sampling Date		2019/08/18 04:30	2019/08/18 04:30	2019/08/18 04:40		
COC Number		n/a	n/a	n/a		
	UNITS	MEL-13	MEL-13-DUP	MEL-13-FB	RDL	QC Batch
Calculated Parameters						
Dissolved Hardness (CaCO ₃)	mg/L	23.0	23.0	<0.50	0.50	6295409
Metals						
Dissolved Aluminum (Al)	ug/L	<3.0	<3.0	<3.0	3.0	6299780
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	6299780
Dissolved Arsenic (As)	ug/L	0.37	0.36	<0.10	0.10	6299780
Dissolved Barium (Ba)	ug/L	7.2	7.2	<1.0	1.0	6299780
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	0.10	6299780
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	6299780
Dissolved Boron (B)	ug/L	<50	<50	<50	50	6299780
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	0.010	6299780
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	1.0	6299780
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	0.20	6299780
Dissolved Copper (Cu)	ug/L	0.66	0.66	<0.20	0.20	6299780
Dissolved Iron (Fe)	ug/L	8.5	7.5	<5.0	5.0	6299780
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	0.20	6299780
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	<2.0	2.0	6299780
Dissolved Manganese (Mn)	ug/L	1.3	1.3	<1.0	1.0	6299780
Dissolved Molybdenum (Mo)	ug/L	2.0	<1.0	<1.0	1.0	6299780
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	1.0	6299780
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	0.10	6299780
Dissolved Silicon (Si)	ug/L	183	189	<100	100	6299780
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	0.020	6299780
Dissolved Strontium (Sr)	ug/L	39.7	39.9	<1.0	1.0	6299780
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	0.010	6299780
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	6299780
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	6299780
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	0.10	6299780
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	5.0	6299780
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	5.0	6299780
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	0.10	6299780
Dissolved Calcium (Ca)	mg/L	7.12	7.10	<0.050	0.050	6295410
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BV Labs Job #: B9N2989
Report Date: 2019/09/13

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (SURFACE WATER)

BV Labs ID		KOT154	KOT155	KOT156		
Sampling Date		2019/08/18 04:30	2019/08/18 04:30	2019/08/18 04:40		
COC Number		n/a	n/a	n/a		
	UNITS	MEL-13	MEL-13-DUP	MEL-13-FB	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	1.27	1.27	<0.050	0.050	6295410
Dissolved Potassium (K)	mg/L	0.930	0.932	<0.050	0.050	6295410
Dissolved Sodium (Na)	mg/L	5.03	5.06	<0.050	0.050	6295410
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	3.0	6295410
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



BV Labs Job #: B9N2989
Report Date: 2019/09/13

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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

BV Labs ID		KOT154	KOT155	KOT156		
Sampling Date		2019/08/18 04:30	2019/08/18 04:30	2019/08/18 04:40		
COC Number		n/a	n/a	n/a		
	UNITS	MEL-13	MEL-13-DUP	MEL-13-FB	RDL	QC Batch
Metals						
Total Aluminum (Al)	ug/L	5.5	5.7	<3.0	3.0	6299779
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	6299779
Total Arsenic (As)	ug/L	0.39	0.38	<0.10	0.10	6299779
Total Barium (Ba)	ug/L	7.4	7.4	<1.0	1.0	6299779
Total Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	0.10	6299779
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	6299779
Total Boron (B)	ug/L	<50	<50	<50	50	6299779
Total Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	0.010	6299779
Total Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	1.0	6299779
Total Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	0.20	6299779
Total Copper (Cu)	ug/L	0.72	0.70	<0.50	0.50	6299779
Total Iron (Fe)	ug/L	23	22	<10	10	6299779
Total Lead (Pb)	ug/L	<0.20	<0.20	<0.20	0.20	6299779
Total Lithium (Li)	ug/L	<2.0	<2.0	<2.0	2.0	6299779
Total Manganese (Mn)	ug/L	5.0	4.9	<1.0	1.0	6299779
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	1.0	6299779
Total Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	1.0	6299779
Total Selenium (Se)	ug/L	<0.10	<0.10	<0.10	0.10	6299779
Total Silicon (Si)	ug/L	200	201	<100	100	6299779
Total Silver (Ag)	ug/L	<0.020	<0.020	<0.020	0.020	6299779
Total Strontium (Sr)	ug/L	39.4	39.4	<1.0	1.0	6299779
Total Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	0.010	6299779
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	6299779
Total Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	6299779
Total Uranium (U)	ug/L	<0.10	<0.10	<0.10	0.10	6299779
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0	5.0	6299779
Total Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	5.0	6299779
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	0.10	6299779
Total Calcium (Ca)	ug/L	7150	7190	<50	50	6299778
Total Magnesium (Mg)	ug/L	1280	1270	<50	50	6299778
Total Potassium (K)	ug/L	984	970	<50	50	6299778
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



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VERITAS

BV Labs Job #: B9N2989

Report Date: 2019/09/13

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

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

BV Labs ID		KOT154	KOT155	KOT156		
Sampling Date		2019/08/18 04:30	2019/08/18 04:30	2019/08/18 04:40		
COC Number		n/a	n/a	n/a		
	UNITS	MEL-13	MEL-13-DUP	MEL-13-FB	RDL	QC Batch
Total Sodium (Na)	ug/L	5170	5090	<50	50	6299778
Total Sulphur (S)	ug/L	<3000	<3000	<3000	3000	6299778
Calculated Parameters						
Total Hardness (CaCO ₃)	ug/L	23100	23200	<500	500	6297656
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BV Labs Job #: B9N2989
Report Date: 2019/09/13

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

RESULTS OF ANALYSES OF SURFACE WATER

BV Labs ID		KOT154			KOT154			KOT155		
Sampling Date		2019/08/18 04:30			2019/08/18 04:30			2019/08/18 04:30		
COC Number		n/a			n/a			n/a		
	UNITS	MEL-13	RDL	QC Batch	MEL-13 Lab-Dup	RDL	QC Batch	MEL-13-DUP	RDL	QC Batch

Calculated Parameters										
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	16	1.0	6293714				15	1.0	6293714
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6293714				<1.0	1.0	6293714
Inorganics										
Total Ammonia-N	mg/L	0.22	0.050	6296775				0.12 (1)	0.050	6296772
Conductivity	umho/cm	86	1.0	6295189				83	1.0	6295189
Free Cyanide (CN)	ug/L	2.1 (2)	1.0	6302380				1.1 (2)	1.0	6302380
Total Dissolved Solids	mg/L	70	10	6297229				80	10	6297229
Total Kjeldahl Nitrogen (TKN)	mg/L	0.18	0.10	6298440				0.11 (1)	0.10	6298440
Dissolved Organic Carbon	mg/L	2.6	0.50	6295374				2.7	0.50	6295374
Total Organic Carbon (TOC)	mg/L	3.2	0.50	6298570				3.1	0.50	6298570
Orthophosphate (P)	mg/L	<0.010	0.010	6295296				<0.010	0.010	6295296
Dissolved Oxygen	mg/L	10.3		6294925				10.4		6294925
pH	pH	7.59		6295191				7.50		6295191
Total Phosphorus	mg/L	<0.020	0.020	6299390				<0.020	0.020	6299390
Reactive Silica (SiO ₂)	mg/L	0.31	0.050	6304154				0.30	0.050	6304154
Total Suspended Solids	mg/L	1	1	6296976				2	1	6296976
Dissolved Sulphate (SO ₄)	mg/L	3.3	1.0	6295294				3.6	1.0	6295294
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6299343	<0.0050	0.0050	6299343	<0.0050	0.0050	6299343
Turbidity	NTU	0.2	0.1	6294802				0.1	0.1	6294802
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6299356	<0.0010	0.0010	6299356	0.0015	0.0010	6299356
Alkalinity (Total as CaCO ₃)	mg/L	16	1.0	6295172				15	1.0	6295172
Dissolved Chloride (Cl ⁻)	mg/L	12	1.0	6295288				11	1.0	6295288
Nitrite (N)	mg/L	<0.010	0.010	6295153				<0.010	0.010	6295153
Nitrate (N)	mg/L	<0.10	0.10	6295153				<0.10	0.10	6295153
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	6295153				<0.10	0.10	6295153
RADIONUCLIDE										
Radium-226	Bq/L	<0.0050	0.0050	6318582				<0.0050	0.0050	6318582
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) TKN < NH ₄ : Both values fall within acceptable RPD limits for duplicates and are likely equivalent. (2) See general comments for notes regarding CNFREE-W.										



BV Labs Job #: B9N2989
Report Date: 2019/09/13

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

RESULTS OF ANALYSES OF SURFACE WATER

BV Labs ID		KOT155			KOT156			KOT156		
Sampling Date		2019/08/18 04:30			2019/08/18 04:40			2019/08/18 04:40		
COC Number		n/a			n/a			n/a		
	UNITS	MEL-13-DUP Lab-Dup	RDL	QC Batch	MEL-13-FB	RDL	QC Batch	MEL-13-FB Lab-Dup	RDL	QC Batch

Calculated Parameters

Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L				<1.0	1.0	6293714			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L				<1.0	1.0	6293714			

Inorganics

Total Ammonia-N	mg/L				<0.050	0.050	6302989	<0.050	0.050	6302989
Conductivity	umho/cm				1.0	1.0	6295189			
Free Cyanide (CN)	ug/L				2.1 (1)	1.0	6305161			
Total Dissolved Solids	mg/L				<10	10	6297229			
Total Kjeldahl Nitrogen (TKN)	mg/L				<0.10	0.10	6300766			
Dissolved Organic Carbon	mg/L	2.6	0.50	6295374	<0.50	0.50	6295374			
Total Organic Carbon (TOC)	mg/L				<0.50	0.50	6298570			
Orthophosphate (P)	mg/L				<0.010	0.010	6295296			
Dissolved Oxygen	mg/L				10.6		6294925			
pH	pH				5.93		6295191			
Total Phosphorus	mg/L				<0.020	0.020	6299390			
Reactive Silica (SiO ₂)	mg/L				<0.050	0.050	6304154			
Total Suspended Solids	mg/L				<1	1	6296976			
Dissolved Sulphate (SO ₄)	mg/L				<1.0	1.0	6295294			
Total Cyanide (CN)	mg/L				<0.0050	0.0050	6299343			
Turbidity	NTU				<0.1	0.1	6294802			
WAD Cyanide (Free)	mg/L				<0.0010	0.0010	6299356			
Alkalinity (Total as CaCO ₃)	mg/L				<1.0	1.0	6295172			
Dissolved Chloride (Cl ⁻)	mg/L				<1.0	1.0	6295288			
Nitrite (N)	mg/L				<0.010	0.010	6295153	<0.010	0.010	6295153
Nitrate (N)	mg/L				<0.10	0.10	6295153	<0.10	0.10	6295153
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	6295153	<0.10	0.10	6295153

RADIONUCLIDE

Radium-226	Bq/L				<0.0050	0.0050	6318582			

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) See general comments for notes regarding CNFREE-W.



BUREAU
VERITAS

BV Labs Job #: B9N2989

Report Date: 2019/09/13

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

ELEMENTS BY ATOMIC SPECTROSCOPY (SURFACE WATER)

BV Labs ID		KOT154			KOT154			KOT155		
Sampling Date		2019/08/18 04:30			2019/08/18 04:30			2019/08/18 04:30		
COC Number		n/a			n/a			n/a		
	UNITS	MEL-13	RDL	QC Batch	MEL-13 Lab-Dup	RDL	QC Batch	MEL-13-DUP	RDL	QC Batch

Metals										
Mercury (Hg)	mg/L	<0.00001	0.00001	6296535				<0.00001	0.00001	6296535
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6296541	<0.00001	0.00001	6296541	<0.00001	0.00001	6296541

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

BV Labs ID		KOT156		
Sampling Date		2019/08/18 04:40		
COC Number		n/a		
	UNITS	MEL-13-FB	RDL	QC Batch

Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6296535
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6296541

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BV Labs Job #: B9N2989
Report Date: 2019/09/13

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TEST SUMMARY

BV Labs ID: KOT154
Sample ID: MEL-13
Matrix: Surface Water

Collected: 2019/08/18
Shipped:
Received: 2019/08/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6295172	N/A	2019/08/23	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6293714	N/A	2019/08/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	6295288	N/A	2019/08/23	Deonarine Ramnarine
Conductivity	AT	6295189	N/A	2019/08/23	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6299356	N/A	2019/08/26	Gnana Thomas
Total Cyanide	SKAL/CN	6299343	2019/08/26	2019/08/26	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6295374	N/A	2019/08/23	Mandeep Kaur
Dissolved Oxygen	DO	6294925	2019/08/22	2019/08/22	Frank Zhang
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6298547	N/A	2019/08/25	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6302157	2019/08/27	2019/08/27	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6296541	2019/08/23	2019/08/23	Medhat Nasr
Mercury (low level)	CV/AA	6296535	2019/08/23	2019/08/23	Medhat Nasr
Cyanide (Free)	SPEC	6302380	2019/08/26	2019/08/26	Amy Phan
Hardness Total (calculated as CaCO ₃)	CALC	6297656	N/A	2019/08/25	Report Automation Engine
Hardness (calculated as CaCO ₃)	CALC	6295409	N/A	2019/08/24	Report Automation Engine
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6295410	N/A	2019/08/24	Report Automation Engine
Elements by CRC ICPMS (dissolved)	ICP/MS	6299780	N/A	2019/08/24	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6299778	2019/08/25	2019/08/25	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6299779	2019/08/24	2019/08/24	Valentina Balada
Silica (Reactive)	KONE	6304154	N/A	2019/08/26	Serena Tian
Total Ammonia-N	LACH/NH ₄	6296775	N/A	2019/08/27	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6295153	N/A	2019/08/25	Amanpreet Sappal
pH	AT	6295191	2019/08/22	2019/08/23	Surinder Rai
Orthophosphate	KONE	6295296	N/A	2019/08/23	Alina Dobreanu
Radium-226 Low Level	AS	6318582	N/A	2019/09/11	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6295294	N/A	2019/08/23	Alina Dobreanu
Total Dissolved Solids	BAL	6297229	2019/08/24	2019/08/26	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6298440	2019/08/24	2019/08/27	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6298570	N/A	2019/08/27	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6299390	2019/08/26	2019/08/26	Shivani Shivani
Low Level Total Suspended Solids	BAL	6296976	2019/08/23	2019/08/26	Xinyue (Sarah) Hou
Turbidity	AT	6294802	N/A	2019/08/22	Kazzandra Adeva

BV Labs ID: KOT154 Dup
Sample ID: MEL-13
Matrix: Surface Water

Collected: 2019/08/18
Shipped:
Received: 2019/08/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	6299356	N/A	2019/08/26	Gnana Thomas
Total Cyanide	SKAL/CN	6299343	2019/08/26	2019/08/26	Gnana Thomas
Dissolved Mercury (low level)	CV/AA	6296541	2019/08/23	2019/08/23	Medhat Nasr



BV Labs Job #: B9N2989
Report Date: 2019/09/13

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TEST SUMMARY

BV Labs ID: KOT155
Sample ID: MEL-13-DUP
Matrix: Surface Water

Collected: 2019/08/18
Shipped:
Received: 2019/08/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6295172	N/A	2019/08/23	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6293714	N/A	2019/08/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	6295288	N/A	2019/08/23	Deonarine Ramnarine
Conductivity	AT	6295189	N/A	2019/08/23	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6299356	N/A	2019/08/26	Gnana Thomas
Total Cyanide	SKAL/CN	6299343	2019/08/26	2019/08/26	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6295374	N/A	2019/08/23	Mandeep Kaur
Dissolved Oxygen	DO	6294925	2019/08/22	2019/08/22	Frank Zhang
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6298547	N/A	2019/08/25	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6302157	2019/08/27	2019/08/28	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6296541	2019/08/23	2019/08/23	Medhat Nasr
Mercury (low level)	CV/AA	6296535	2019/08/23	2019/08/23	Medhat Nasr
Cyanide (Free)	SPEC	6302380	2019/08/26	2019/08/26	Amy Phan
Hardness Total (calculated as CaCO ₃)	CALC	6297656	N/A	2019/08/25	Report Automation Engine
Hardness (calculated as CaCO ₃)	CALC	6295409	N/A	2019/08/24	Report Automation Engine
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6295410	N/A	2019/08/24	Report Automation Engine
Elements by CRC ICPMS (dissolved)	ICP/MS	6299780	N/A	2019/08/24	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6299778	2019/08/25	2019/08/25	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6299779	2019/08/24	2019/08/24	Valentina Balada
Silica (Reactive)	KONE	6304154	N/A	2019/08/26	Serena Tian
Total Ammonia-N	LACH/NH ₄	6296772	N/A	2019/08/26	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6295153	N/A	2019/08/25	Amanpreet Sappal
pH	AT	6295191	2019/08/22	2019/08/23	Surinder Rai
Orthophosphate	KONE	6295296	N/A	2019/08/23	Alina Dobreanu
Radium-226 Low Level	AS	6318582	N/A	2019/09/11	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6295294	N/A	2019/08/23	Alina Dobreanu
Total Dissolved Solids	BAL	6297229	2019/08/24	2019/08/26	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6298440	2019/08/24	2019/08/27	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6298570	N/A	2019/08/27	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6299390	2019/08/26	2019/08/26	Shivani Shivani
Low Level Total Suspended Solids	BAL	6296976	2019/08/23	2019/08/26	Xinyue (Sarah) Hou
Turbidity	AT	6294802	N/A	2019/08/22	Kazzandra Adeva

BV Labs ID: KOT155 Dup
Sample ID: MEL-13-DUP
Matrix: Surface Water

Collected: 2019/08/18
Shipped:
Received: 2019/08/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6295374	N/A	2019/08/23	Mandeep Kaur
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6302157	2019/08/27	2019/08/28	Prabhjot Gulati



BV Labs Job #: B9N2989
Report Date: 2019/09/13

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TEST SUMMARY

BV Labs ID: KOT156
Sample ID: MEL-13-FB
Matrix: Surface Water

Collected: 2019/08/18
Shipped:
Received: 2019/08/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6295172	N/A	2019/08/23	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6293714	N/A	2019/08/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	6295288	N/A	2019/08/23	Deonarine Ramnarine
Conductivity	AT	6295189	N/A	2019/08/23	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6299356	N/A	2019/08/26	Gnana Thomas
Total Cyanide	SKAL/CN	6299343	2019/08/26	2019/08/26	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6295374	N/A	2019/08/23	Mandeep Kaur
Dissolved Oxygen	DO	6294925	2019/08/22	2019/08/22	Frank Zhang
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6298547	N/A	2019/08/25	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6302157	2019/08/27	2019/08/28	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6296541	2019/08/23	2019/08/23	Medhat Nasr
Mercury (low level)	CV/AA	6296535	2019/08/23	2019/08/23	Medhat Nasr
Cyanide (Free)	SPEC	6305161	2019/08/28	2019/08/28	Amy Phan
Hardness Total (calculated as CaCO ₃)	CALC	6297656	N/A	2019/08/25	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6295409	N/A	2019/08/24	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6295410	N/A	2019/08/24	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6299780	N/A	2019/08/24	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6299778	2019/08/25	2019/08/25	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6299779	2019/08/24	2019/08/24	Valentina Balada
Silica (Reactive)	KONE	6304154	N/A	2019/08/26	Serena Tian
Total Ammonia-N	LACH/NH ₄	6302989	N/A	2019/08/28	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6295153	N/A	2019/08/25	Amanpreet Sappal
pH	AT	6295191	2019/08/22	2019/08/23	Surinder Rai
Orthophosphate	KONE	6295296	N/A	2019/08/23	Alina Dobreanu
Radium-226 Low Level	AS	6318582	N/A	2019/09/11	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6295294	N/A	2019/08/23	Alina Dobreanu
Total Dissolved Solids	BAL	6297229	2019/08/24	2019/08/26	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6300766	2019/08/27	2019/08/28	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6298570	N/A	2019/08/27	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6299390	2019/08/26	2019/08/26	Shivani Shivani
Low Level Total Suspended Solids	BAL	6296976	2019/08/23	2019/08/26	Xinyue (Sarah) Hou
Turbidity	AT	6294802	N/A	2019/08/22	Kazzandra Adeva

BV Labs ID: KOT156 Dup
Sample ID: MEL-13-FB
Matrix: Surface Water

Collected: 2019/08/18
Shipped:
Received: 2019/08/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH ₄	6302989	N/A	2019/08/28	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6295153	N/A	2019/08/25	Amanpreet Sappal



BUREAU
VERITAS

BV Labs Job #: B9N2989

Report Date: 2019/09/13

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

GENERAL COMMENTS

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

Package 1	14.3°C

Sample KOT154 [MEL-13] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent. Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

Sample KOT155 [MEL-13-DUP] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent. Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide. Total Cyanide < Free Cyanide: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample KOT156 [MEL-13-FB] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

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

Matrix Spike Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required.

Results relate only to the items tested.



BV Labs Job #: B9N2989
Report Date: 2019/09/13

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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
6298547	1,4-Difluorobenzene	2019/08/24	101	70 - 130	102	70 - 130	99	%				
6298547	4-Bromofluorobenzene	2019/08/24	96	70 - 130	96	70 - 130	95	%				
6298547	D10-Ethylbenzene	2019/08/24	83	70 - 130	83	70 - 130	82	%				
6298547	D4-1,2-Dichloroethane	2019/08/24	82	70 - 130	83	70 - 130	82	%				
6302157	o-Terphenyl	2019/08/27	98	60 - 130	96	60 - 130	95	%				
6294802	Turbidity	2019/08/22			92	85 - 115	<0.1	NTU	NC	20		
6295153	Nitrate (N)	2019/08/25	101	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
6295153	Nitrite (N)	2019/08/25	104	80 - 120	105	80 - 120	<0.010	mg/L	NC	20		
6295172	Alkalinity (Total as CaCO3)	2019/08/23			94	85 - 115	<1.0	mg/L	1.9	20		
6295189	Conductivity	2019/08/23			101	85 - 115	<1.0	umho/cm	0.0000010	25		
6295191	pH	2019/08/23			102	98 - 103			0.75	N/A		
6295288	Dissolved Chloride (Cl-)	2019/08/23	NC	80 - 120	105	80 - 120	<1.0	mg/L	8.4	20		
6295294	Dissolved Sulphate (SO4)	2019/08/23	NC	75 - 125	104	80 - 120	<1.0	mg/L	0.46	20		
6295296	Orthophosphate (P)	2019/08/23	111	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
6295374	Dissolved Organic Carbon	2019/08/23	92	80 - 120	97	80 - 120	<0.50	mg/L	1.2	20		
6296535	Mercury (Hg)	2019/08/23	101	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6296541	Dissolved Mercury (Hg)	2019/08/23	99	75 - 125	99	80 - 120	<0.00001	mg/L	NC	20		
6296772	Total Ammonia-N	2019/08/26	NC	75 - 125	91	80 - 120	<0.050	mg/L	0.85	20		
6296775	Total Ammonia-N	2019/08/27	99	75 - 125	101	80 - 120	<0.050	mg/L				
6296976	Total Suspended Solids	2019/08/26					<1	mg/L	0	25	95	85 - 115
6297229	Total Dissolved Solids	2019/08/26					<10	mg/L	3.9	25	102	90 - 110
6298440	Total Kjeldahl Nitrogen (TKN)	2019/08/27	101	80 - 120	103	80 - 120	<0.10	mg/L			97	80 - 120
6298547	Benzene	2019/08/24	96	70 - 130	97	70 - 130	<0.20	ug/L	1.8	30		
6298547	Ethylbenzene	2019/08/24	87	70 - 130	87	70 - 130	<0.20	ug/L	NC	30		
6298547	F1 (C6-C10) - BTEX	2019/08/24					<25	ug/L	NC	30		
6298547	F1 (C6-C10)	2019/08/24	79	70 - 130	96	70 - 130	<25	ug/L	NC	30		
6298547	o-Xylene	2019/08/24	76	70 - 130	76	70 - 130	<0.20	ug/L	NC	30		
6298547	p+m-Xylene	2019/08/24	82	70 - 130	83	70 - 130	<0.40	ug/L	NC	30		
6298547	Toluene	2019/08/24	97	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
6298547	Total Xylenes	2019/08/24					<0.40	ug/L	NC	30		
6298570	Total Organic Carbon (TOC)	2019/08/27	92	80 - 120	99	80 - 120	<0.50	mg/L	1.1	20		



BV Labs Job #: B9N2989
Report Date: 2019/09/13

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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
6299343	Total Cyanide (CN)	2019/08/26	105	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20		
6299356	WAD Cyanide (Free)	2019/08/26	108	80 - 120	109	80 - 120	<0.0010	mg/L	NC	20		
6299390	Total Phosphorus	2019/08/26	105	80 - 120	102	80 - 120	<0.020	mg/L	1.3	20	101	80 - 120
6299779	Total Aluminum (Al)	2019/08/24	102	80 - 120	103	80 - 120	<3.0	ug/L				
6299779	Total Antimony (Sb)	2019/08/24	NC	80 - 120	103	80 - 120	<0.50	ug/L				
6299779	Total Arsenic (As)	2019/08/24	104	80 - 120	101	80 - 120	<0.10	ug/L				
6299779	Total Barium (Ba)	2019/08/24	NC	80 - 120	101	80 - 120	<1.0	ug/L				
6299779	Total Beryllium (Be)	2019/08/24	99	80 - 120	104	80 - 120	<0.10	ug/L				
6299779	Total Bismuth (Bi)	2019/08/24	95	80 - 120	102	80 - 120	<1.0	ug/L				
6299779	Total Boron (B)	2019/08/24	101	80 - 120	102	80 - 120	<50	ug/L				
6299779	Total Cadmium (Cd)	2019/08/24	98	80 - 120	101	80 - 120	<0.010	ug/L				
6299779	Total Chromium (Cr)	2019/08/24	96	80 - 120	99	80 - 120	<1.0	ug/L				
6299779	Total Cobalt (Co)	2019/08/24	93	80 - 120	98	80 - 120	<0.20	ug/L				
6299779	Total Copper (Cu)	2019/08/24	88	80 - 120	96	80 - 120	<0.50	ug/L				
6299779	Total Iron (Fe)	2019/08/24	99	80 - 120	103	80 - 120	<10	ug/L				
6299779	Total Lead (Pb)	2019/08/24	NC	80 - 120	103	80 - 120	<0.20	ug/L				
6299779	Total Lithium (Li)	2019/08/24	99	80 - 120	101	80 - 120	<2.0	ug/L				
6299779	Total Manganese (Mn)	2019/08/24	NC	80 - 120	98	80 - 120	<1.0	ug/L				
6299779	Total Molybdenum (Mo)	2019/08/24	NC	80 - 120	101	80 - 120	<1.0	ug/L				
6299779	Total Nickel (Ni)	2019/08/24	91	80 - 120	98	80 - 120	<1.0	ug/L				
6299779	Total Selenium (Se)	2019/08/24	104	80 - 120	102	80 - 120	<0.10	ug/L				
6299779	Total Silicon (Si)	2019/08/24	103	80 - 120	107	80 - 120	<100	ug/L				
6299779	Total Silver (Ag)	2019/08/24	95	80 - 120	98	80 - 120	<0.020	ug/L				
6299779	Total Strontium (Sr)	2019/08/24	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6299779	Total Thallium (Tl)	2019/08/24	102	80 - 120	103	80 - 120	<0.010	ug/L				
6299779	Total Tin (Sn)	2019/08/24	99	80 - 120	103	80 - 120	<5.0	ug/L				
6299779	Total Titanium (Ti)	2019/08/24	101	80 - 120	101	80 - 120	<5.0	ug/L				
6299779	Total Uranium (U)	2019/08/24	103	80 - 120	103	80 - 120	<0.10	ug/L				
6299779	Total Vanadium (V)	2019/08/24	96	80 - 120	101	80 - 120	<5.0	ug/L				
6299779	Total Zinc (Zn)	2019/08/24	NC	80 - 120	101	80 - 120	<5.0	ug/L				
6299779	Total Zirconium (Zr)	2019/08/24	103	80 - 120	103	80 - 120	<0.10	ug/L				
6299780	Dissolved Aluminum (Al)	2019/08/24	99	80 - 120	102	80 - 120	<3.0	ug/L				



BV Labs Job #: B9N2989
Report Date: 2019/09/13

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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
6299780	Dissolved Antimony (Sb)	2019/08/24	97	80 - 120	99	80 - 120	<0.50	ug/L				
6299780	Dissolved Arsenic (As)	2019/08/24	100	80 - 120	101	80 - 120	<0.10	ug/L				
6299780	Dissolved Barium (Ba)	2019/08/24	NC	80 - 120	101	80 - 120	<1.0	ug/L				
6299780	Dissolved Beryllium (Be)	2019/08/24	96	80 - 120	100	80 - 120	<0.10	ug/L				
6299780	Dissolved Bismuth (Bi)	2019/08/24	99	80 - 120	103	80 - 120	<1.0	ug/L				
6299780	Dissolved Boron (B)	2019/08/24	93	80 - 120	97	80 - 120	<50	ug/L				
6299780	Dissolved Cadmium (Cd)	2019/08/24	97	80 - 120	100	80 - 120	<0.010	ug/L				
6299780	Dissolved Chromium (Cr)	2019/08/24	97	80 - 120	101	80 - 120	<1.0	ug/L				
6299780	Dissolved Cobalt (Co)	2019/08/24	95	80 - 120	100	80 - 120	<0.20	ug/L				
6299780	Dissolved Copper (Cu)	2019/08/24	94	80 - 120	99	80 - 120	<0.20	ug/L				
6299780	Dissolved Iron (Fe)	2019/08/24	99	80 - 120	104	80 - 120	<5.0	ug/L				
6299780	Dissolved Lead (Pb)	2019/08/24	102	80 - 120	104	80 - 120	<0.20	ug/L				
6299780	Dissolved Lithium (Li)	2019/08/24	97	80 - 120	101	80 - 120	<2.0	ug/L				
6299780	Dissolved Manganese (Mn)	2019/08/24	97	80 - 120	102	80 - 120	<1.0	ug/L				
6299780	Dissolved Molybdenum (Mo)	2019/08/24	102	80 - 120	102	80 - 120	<1.0	ug/L				
6299780	Dissolved Nickel (Ni)	2019/08/24	95	80 - 120	101	80 - 120	<1.0	ug/L				
6299780	Dissolved Selenium (Se)	2019/08/24	101	80 - 120	102	80 - 120	<0.10	ug/L				
6299780	Dissolved Silicon (Si)	2019/08/24	103	80 - 120	106	80 - 120	<100	ug/L				
6299780	Dissolved Silver (Ag)	2019/08/24	97	80 - 120	99	80 - 120	<0.020	ug/L				
6299780	Dissolved Strontium (Sr)	2019/08/24	NC	80 - 120	101	80 - 120	<1.0	ug/L				
6299780	Dissolved Thallium (Tl)	2019/08/24	102	80 - 120	104	80 - 120	<0.010	ug/L				
6299780	Dissolved Tin (Sn)	2019/08/24	98	80 - 120	99	80 - 120	<5.0	ug/L				
6299780	Dissolved Titanium (Ti)	2019/08/24	99	80 - 120	105	80 - 120	<5.0	ug/L				
6299780	Dissolved Uranium (U)	2019/08/24	103	80 - 120	102	80 - 120	<0.10	ug/L				
6299780	Dissolved Vanadium (V)	2019/08/24	99	80 - 120	102	80 - 120	<5.0	ug/L				
6299780	Dissolved Zinc (Zn)	2019/08/24	98	80 - 120	104	80 - 120	<5.0	ug/L				
6299780	Dissolved Zirconium (Zr)	2019/08/24	102	80 - 120	100	80 - 120	<0.10	ug/L				
6300766	Total Kjeldahl Nitrogen (TKN)	2019/08/28	NC	80 - 120	100	80 - 120	<0.10	mg/L	2.3	20	97	80 - 120
6302157	F2 (C10-C16 Hydrocarbons)	2019/08/28	102	50 - 130	99	60 - 130	<100	ug/L	NC	30		
6302157	F3 (C16-C34 Hydrocarbons)	2019/08/28	97	50 - 130	100	60 - 130	<200	ug/L	NC	30		
6302157	F4 (C34-C50 Hydrocarbons)	2019/08/28	103	50 - 130	103	60 - 130	<200	ug/L	NC	30		
6302380	Free Cyanide (CN)	2019/08/26	81	80 - 120	81	80 - 120	<1.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: B9N2989

Report Date: 2019/09/13

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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
6302989	Total Ammonia-N	2019/08/28	107	75 - 125	101	80 - 120	<0.050	mg/L	NC	20		
6304154	Reactive Silica (SiO ₂)	2019/08/27	94	80 - 120	98	80 - 120	<0.050	mg/L	18	20		
6305161	Free Cyanide (CN)	2019/08/28	80	80 - 120	97	80 - 120	<1.0	ug/L	19	20		
6318582	Radium-226	2019/09/11			91	85 - 115	<0.0050	Bq/L				

N/A = Not Applicable

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 <= 2x RDL).



BUREAU
VERITAS

BV Labs Job #: B9N2989

Report Date: 2019/09/13

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Marjolen Busslinger, Scientific Specialist

Robert Allen, Scientific Specialist

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BUREAU
VERITAS

BV Labs Job #: B9N2989

Report Date: 2019/09/13

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site#: 63° 02' 15.5" 92° 13' 06.3"
 Site Location: MELIADINE
 Your C.O.C. #: n/a

Attention: Reporting

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

Report Date: 2019/07/24
 Report #: R5811453
 Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9J1427

Received: 2019/07/11, 09:04

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/07/16	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/07/17	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	1	2019/07/13	2019/07/18	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry (1)	1	N/A	2019/07/15	CAM SOP-00463	SM 4500-Cl E m
Conductivity (1)	1	N/A	2019/07/16	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/07/15	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/07/15	2019/07/15	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/07/15	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/07/12	2019/07/12	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2019/07/23	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	1	2019/07/22	2019/07/23	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	1	2019/07/15	2019/07/17	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/07/15	2019/07/17	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	1	N/A	2019/07/17	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/07/17	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/07/17	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/07/16	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/07/12	2019/07/17	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/07/15	2019/07/17	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/07/16	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/07/15	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/07/13	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/07/13	2019/07/16	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/07/15	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/07/19	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/07/15	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/07/15	2019/07/16	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/07/15	2019/07/17	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/07/16	CAM SOP-00446	SM 23 5310B m



Your P.O. #: OL-762849
Site#: 63° 02' 15.5" 92° 13' 06.3"
Site Location: MELIADINE
Your C.O.C. #: n/a

Attention: Reporting

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

Report Date: 2019/07/24
Report #: R5811453
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9J1427

Received: 2019/07/11, 09:04

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Reference
	Quantity	Extracted			
Total Phosphorus (Colourimetric) (1)	1	2019/07/16	2019/07/16	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/07/13	2019/07/15	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/07/15	CAM SOP-00417	SM 23 2130 B m

Remarks:

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

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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

(7) "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).



Your P.O. #: OL-762849
Site#: 63° 02' 15.5" 92° 13' 06.3"
Site Location: MELIADINE
Your C.O.C. #: n/a

Attention: Reporting

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

Report Date: 2019/07/24
Report #: R5811453
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9J1427

Received: 2019/07/11, 09:04

- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
24 Jul 2019 17:54:14

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B9J1427

Report Date: 2019/07/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KGB896			KGB896		
Sampling Date		2019/07/09 06:41			2019/07/09 06:41		
COC Number		n/a			n/a		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
BTEX & F1 Hydrocarbons							
Benzene	ug/L	<0.20	0.20	6240085	<0.20	0.20	6240085
Toluene	ug/L	<0.20	0.20	6240085	<0.20	0.20	6240085
Ethylbenzene	ug/L	<0.20	0.20	6240085	<0.20	0.20	6240085
o-Xylene	ug/L	<0.20	0.20	6240085	<0.20	0.20	6240085
p+m-Xylene	ug/L	<0.40	0.40	6240085	<0.40	0.40	6240085
Total Xylenes	ug/L	<0.40	0.40	6240085	<0.40	0.40	6240085
F1 (C6-C10)	ug/L	<25	25	6240085	<25	25	6240085
F1 (C6-C10) - BTEX	ug/L	<25	25	6240085	<25	25	6240085
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	6241290			
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	6241290			
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	6241290			
Reached Baseline at C50	ug/L	Yes		6241290			
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	101		6240085	103		6240085
4-Bromofluorobenzene	%	100		6240085	98		6240085
D10-Ethylbenzene	%	93		6240085	96		6240085
D4-1,2-Dichloroethane	%	94		6240085	95		6240085
o-Terphenyl	%	103		6241290			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: B9J1427

Report Date: 2019/07/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KGB896		
Sampling Date		2019/07/09 06:41		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	380	0.50	6232956
Metals				
Dissolved Aluminum (Al)	ug/L	31.6	3.0	6232833
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	6232833
Dissolved Arsenic (As)	ug/L	2.16	0.10	6232833
Dissolved Barium (Ba)	ug/L	55.7	1.0	6232833
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	6232833
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	6232833
Dissolved Boron (B)	ug/L	274	50	6232833
Dissolved Cadmium (Cd)	ug/L	0.020	0.010	6232833
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	6232833
Dissolved Cobalt (Co)	ug/L	0.85	0.20	6232833
Dissolved Copper (Cu)	ug/L	1.29	0.20	6232833
Dissolved Iron (Fe)	ug/L	173	5.0	6232833
Dissolved Lead (Pb)	ug/L	<0.20	0.20	6232833
Dissolved Lithium (Li)	ug/L	82.1	2.0	6232833
Dissolved Manganese (Mn)	ug/L	69.5	1.0	6232833
Dissolved Molybdenum (Mo)	ug/L	1.5	1.0	6232833
Dissolved Nickel (Ni)	ug/L	3.4	1.0	6232833
Dissolved Selenium (Se)	ug/L	<0.10	0.10	6232833
Dissolved Silicon (Si)	ug/L	561	100	6232833
Dissolved Silver (Ag)	ug/L	<0.020	0.020	6232833
Dissolved Strontium (Sr)	ug/L	2270	1.0	6232833
Dissolved Thallium (Tl)	ug/L	0.029	0.010	6232833
Dissolved Tin (Sn)	ug/L	<5.0	5.0	6232833
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	6232833
Dissolved Uranium (U)	ug/L	<0.10	0.10	6232833
Dissolved Vanadium (V)	ug/L	<5.0	5.0	6232833
Dissolved Zinc (Zn)	ug/L	7.1	5.0	6232833
Dissolved Zirconium (Zr)	ug/L	0.10	0.10	6232833
Dissolved Calcium (Ca)	mg/L	109	0.050	6232832
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9J1427

Report Date: 2019/07/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KGB896		
Sampling Date		2019/07/09 06:41		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	26.3	0.050	6232832
Dissolved Potassium (K)	mg/L	14.3	0.050	6232832
Dissolved Sodium (Na)	mg/L	192	0.050	6232832
Dissolved Sulphur (S)	mg/L	23.8	3.0	6232832
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9J1427

Report Date: 2019/07/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KGB896		
Sampling Date		2019/07/09 06:41		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	452	3.0	6232830
Total Antimony (Sb)	ug/L	<0.50	0.50	6232830
Total Arsenic (As)	ug/L	2.43	0.10	6232830
Total Barium (Ba)	ug/L	51.9	1.0	6232830
Total Beryllium (Be)	ug/L	<0.10	0.10	6232830
Total Bismuth (Bi)	ug/L	<1.0	1.0	6232830
Total Boron (B)	ug/L	283	50	6232830
Total Cadmium (Cd)	ug/L	0.021	0.010	6232830
Total Chromium (Cr)	ug/L	<1.0	1.0	6232830
Total Cobalt (Co)	ug/L	0.83	0.20	6232830
Total Copper (Cu)	ug/L	1.39	0.50	6232830
Total Iron (Fe)	ug/L	240	10	6232830
Total Lead (Pb)	ug/L	<0.20	0.20	6232830
Total Lithium (Li)	ug/L	77.1	2.0	6232830
Total Manganese (Mn)	ug/L	79.8	1.0	6232830
Total Molybdenum (Mo)	ug/L	1.6	1.0	6232830
Total Nickel (Ni)	ug/L	3.4	1.0	6232830
Total Selenium (Se)	ug/L	<0.10	0.10	6232830
Total Silicon (Si)	ug/L	580	100	6232830
Total Silver (Ag)	ug/L	<0.020	0.020	6232830
Total Strontium (Sr)	ug/L	2150	1.0	6232830
Total Thallium (Tl)	ug/L	0.028	0.010	6232830
Total Tin (Sn)	ug/L	<5.0	5.0	6232830
Total Titanium (Ti)	ug/L	<5.0	5.0	6232830
Total Uranium (U)	ug/L	0.20	0.10	6232830
Total Vanadium (V)	ug/L	<5.0	5.0	6232830
Total Zinc (Zn)	ug/L	6.7	5.0	6232830
Total Zirconium (Zr)	ug/L	<0.10	0.10	6232830
Total Calcium (Ca)	ug/L	105000	50	6232829
Total Magnesium (Mg)	ug/L	24200	50	6232829
Total Potassium (K)	ug/L	14200	50	6232829
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9J1427
Report Date: 2019/07/24

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KGB896		
Sampling Date		2019/07/09 06:41		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Total Sodium (Na)	ug/L	192000	50	6232829
Total Sulphur (S)	ug/L	24400	3000	6232829
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	361000	500	6232828
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9J1427
Report Date: 2019/07/24

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

RESULTS OF ANALYSES OF WATER

BV Labs ID		KGB896			KGB896		
Sampling Date		2019/07/09 06:41			2019/07/09 06:41		
COC Number		n/a			n/a		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	13	1.0	6224782			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6224782			
Inorganics							
Total Ammonia-N	mg/L	3.7	0.050	6227923			
Total BOD	mg/L	<2	2	6226794			
Conductivity	umho/cm	1900	1.0	6226987			
Free Cyanide (CN)	ug/L	1.4	1.0	6237853	1.8	1.0	6237853
Total Dissolved Solids	mg/L	1190	10	6228700	1180	10	6228700
Total Kjeldahl Nitrogen (TKN)	mg/L	4.3	1.0	6227913			
Dissolved Organic Carbon	mg/L	4.4	0.50	6226811			
Total Organic Carbon (TOC)	mg/L	5.2	0.50	6228543			
Orthophosphate (P)	mg/L	<0.010	0.010	6227042			
Dissolved Oxygen	mg/L	10.0		6225928			
pH	pH	7.23		6226990			
Total Phosphorus	mg/L	0.027	0.020	6229799			
Reactive Silica (SiO ₂)	mg/L	0.99	0.050	6239550			
Total Suspended Solids	mg/L	4	1	6226878			
Dissolved Sulphate (SO ₄)	mg/L	56	1.0	6227040			
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6228052			
Turbidity	NTU	1.7	0.1	6226609	1.6	0.1	6226609
WAD Cyanide (Free)	mg/L	0.0014	0.0010	6228067			
Alkalinity (Total as CaCO ₃)	mg/L	13	1.0	6226989			
Dissolved Chloride (Cl ⁻)	mg/L	500	6.0	6227039			
Nitrite (N)	mg/L	0.373	0.010	6226991			
Nitrate (N)	mg/L	13.2	0.10	6226991			
Nitrate + Nitrite (N)	mg/L	13.6	0.10	6226991			
RADIONUCLIDE							
Radium-226	Bq/L	<0.0050	0.0050	6228787			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: B9J1427

Report Date: 2019/07/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KGB896		
Sampling Date		2019/07/09 06:41		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6228203
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6228171
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9J1427
Report Date: 2019/07/24

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: KGB896
Sample ID: MEL-14
Matrix: Water

Collected: 2019/07/09
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6226989	N/A	2019/07/16	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6224782	N/A	2019/07/17	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6226794	2019/07/13	2019/07/18	Hinal Shah
Chloride by Automated Colourimetry	KONE	6227039	N/A	2019/07/15	Deonarine Ramnarine
Conductivity	AT	6226987	N/A	2019/07/16	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6228067	N/A	2019/07/15	Louise Harding
Total Cyanide	SKAL/CN	6228052	2019/07/15	2019/07/15	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6226811	N/A	2019/07/15	Mandeep Kaur
Dissolved Oxygen	DO	6225928	2019/07/12	2019/07/12	Prakash Piya
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6240085	N/A	2019/07/23	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6241290	2019/07/22	2019/07/23	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6228171	2019/07/15	2019/07/17	Medhat Nasr
Mercury (low level)	CV/AA	6228203	2019/07/15	2019/07/17	Medhat Nasr
Cyanide (Free)	SPEC	6237853	2019/07/17	2019/07/17	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6232828	N/A	2019/07/17	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6232956	N/A	2019/07/17	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6232832	N/A	2019/07/17	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6232833	N/A	2019/07/16	John Choo
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6232829	2019/07/17	2019/07/17	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6232830	2019/07/15	2019/07/17	John Choo
Silica (Reactive)	KONE	6239550	N/A	2019/07/16	Serena Tian
Total Ammonia-N	LACH/NH ₄	6227923	N/A	2019/07/15	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6226991	N/A	2019/07/13	Amanpreet Sappal
pH	AT	6226990	2019/07/13	2019/07/16	Surinder Rai
Orthophosphate	KONE	6227042	N/A	2019/07/15	Alina Dobreanu
Radium-226 Low Level	AS	6228787	N/A	2019/07/19	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6227040	N/A	2019/07/15	Alina Dobreanu
Total Dissolved Solids	BAL	6228700	2019/07/15	2019/07/16	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6227913	2019/07/15	2019/07/17	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6228543	N/A	2019/07/16	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6229799	2019/07/16	2019/07/16	Nimarta Singh
Low Level Total Suspended Solids	BAL	6226878	2019/07/13	2019/07/15	Nilam Borole
Turbidity	AT	6226609	N/A	2019/07/15	Kazzandra Adeva

BV Labs ID: KGB896 Dup
Sample ID: MEL-14
Matrix: Water

Collected: 2019/07/09
Shipped:
Received: 2019/07/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6240085	N/A	2019/07/23	Ravinder Gaidhu
Cyanide (Free)	SPEC	6237853	2019/07/17	2019/07/17	Taylor Mullings
Total Dissolved Solids	BAL	6228700	2019/07/15	2019/07/16	Mandeep Kaur
Turbidity	AT	6226609	N/A	2019/07/15	Kazzandra Adeva



GENERAL COMMENTS

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

Package 1	21.0°C

Sample KGB896 [MEL-14] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for free cyanide analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide Total Cyanide < Free Cyanide: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



BV Labs Job #: B9J1427
Report Date: 2019/07/24

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6240085	1,4-Difluorobenzene	2019/07/23	101	70 - 130	97	70 - 130	103	%				
6240085	4-Bromofluorobenzene	2019/07/23	100	70 - 130	105	70 - 130	97	%				
6240085	D10-Ethylbenzene	2019/07/23	92	70 - 130	105	70 - 130	98	%				
6240085	D4-1,2-Dichloroethane	2019/07/23	94	70 - 130	93	70 - 130	95	%				
6241290	o-Terphenyl	2019/07/23	109	60 - 130	107	60 - 130	104	%				
6226609	Turbidity	2019/07/15			96	85 - 115	<0.1	NTU	4.6	20		
6226794	Total BOD	2019/07/18					<2	mg/L	NC	30	102	80 - 120
6226811	Dissolved Organic Carbon	2019/07/15	93	80 - 120	101	80 - 120	<0.50	mg/L	0.25	20		
6226878	Total Suspended Solids	2019/07/15					<1	mg/L	8.7	25	99	85 - 115
6226987	Conductivity	2019/07/16			102	85 - 115	<1.0	umho/cm	0.28	25		
6226989	Alkalinity (Total as CaCO3)	2019/07/16			95	85 - 115	<1.0	mg/L	0.60	20		
6226990	pH	2019/07/16			102	98 - 103			0.024	N/A		
6226991	Nitrate (N)	2019/07/13	97	80 - 120	103	80 - 120	<0.10	mg/L	1.1	20		
6226991	Nitrite (N)	2019/07/13	101	80 - 120	104	80 - 120	<0.010	mg/L	10	20		
6227039	Dissolved Chloride (Cl-)	2019/07/15	NC	80 - 120	102	80 - 120	<1.0	mg/L	2.5	20		
6227040	Dissolved Sulphate (SO4)	2019/07/15	NC	75 - 125	101	80 - 120	<1.0	mg/L	2.6	20		
6227042	Orthophosphate (P)	2019/07/15	101	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
6227913	Total Kjeldahl Nitrogen (TKN)	2019/07/16	107	80 - 120	103	80 - 120	<0.10	mg/L	NC	20	109	80 - 120
6227923	Total Ammonia-N	2019/07/15	100	75 - 125	94	80 - 120	<0.050	mg/L	NC	20		
6228052	Total Cyanide (CN)	2019/07/15	94	80 - 120	103	80 - 120	<0.0050	mg/L	NC	20		
6228067	WAD Cyanide (Free)	2019/07/15	94	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
6228171	Dissolved Mercury (Hg)	2019/07/17	100	75 - 125	104	80 - 120	<0.00001	mg/L				
6228203	Mercury (Hg)	2019/07/17	99	75 - 125	104	80 - 120	<0.00001	mg/L	NC	20		
6228543	Total Organic Carbon (TOC)	2019/07/15	92	80 - 120	97	80 - 120	<0.50	mg/L	NC	20		
6228700	Total Dissolved Solids	2019/07/16					<10	mg/L	0.42	25	102	90 - 110
6228787	Radium-226	2019/07/19			87	85 - 115	<0.0050	Bq/L	NC	N/A		
6229799	Total Phosphorus	2019/07/16	101	80 - 120	101	80 - 120	<0.020	mg/L	0.26	20	102	80 - 120
6232830	Total Aluminum (Al)	2019/07/17	NC	80 - 120	101	80 - 120	<3.0	ug/L				
6232830	Total Antimony (Sb)	2019/07/17	105	80 - 120	105	80 - 120	<0.50	ug/L				
6232830	Total Arsenic (As)	2019/07/17	103	80 - 120	101	80 - 120	<0.10	ug/L				
6232830	Total Barium (Ba)	2019/07/17	110	80 - 120	104	80 - 120	<1.0	ug/L				



BV Labs Job #: B9J1427
Report Date: 2019/07/24

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6232830	Total Beryllium (Be)	2019/07/17	98	80 - 120	97	80 - 120	<0.10	ug/L				
6232830	Total Bismuth (Bi)	2019/07/17	96	80 - 120	103	80 - 120	<1.0	ug/L				
6232830	Total Boron (B)	2019/07/17	98	80 - 120	98	80 - 120	<50	ug/L				
6232830	Total Cadmium (Cd)	2019/07/17	102	80 - 120	106	80 - 120	<0.010	ug/L				
6232830	Total Chromium (Cr)	2019/07/17	100	80 - 120	100	80 - 120	<1.0	ug/L				
6232830	Total Cobalt (Co)	2019/07/17	94	80 - 120	101	80 - 120	<0.20	ug/L				
6232830	Total Copper (Cu)	2019/07/17	91	80 - 120	98	80 - 120	<0.50	ug/L				
6232830	Total Iron (Fe)	2019/07/17	NC	80 - 120	105	80 - 120	<10	ug/L				
6232830	Total Lead (Pb)	2019/07/17	98	80 - 120	103	80 - 120	<0.20	ug/L				
6232830	Total Lithium (Li)	2019/07/17	102	80 - 120	104	80 - 120	<2.0	ug/L				
6232830	Total Manganese (Mn)	2019/07/17	NC	80 - 120	103	80 - 120	<1.0	ug/L				
6232830	Total Molybdenum (Mo)	2019/07/17	110	80 - 120	107	80 - 120	<1.0	ug/L				
6232830	Total Nickel (Ni)	2019/07/17	91	80 - 120	96	80 - 120	<1.0	ug/L				
6232830	Total Selenium (Se)	2019/07/17	108	80 - 120	103	80 - 120	<0.10	ug/L				
6232830	Total Silicon (Si)	2019/07/17	NC	80 - 120	108	80 - 120	<100	ug/L				
6232830	Total Silver (Ag)	2019/07/17	105	80 - 120	102	80 - 120	<0.020	ug/L				
6232830	Total Strontium (Sr)	2019/07/17	NC	80 - 120	104	80 - 120	<1.0	ug/L				
6232830	Total Thallium (Tl)	2019/07/17	101	80 - 120	103	80 - 120	<0.010	ug/L				
6232830	Total Tin (Sn)	2019/07/17	101	80 - 120	105	80 - 120	<5.0	ug/L				
6232830	Total Titanium (Ti)	2019/07/17	NC	80 - 120	102	80 - 120	<5.0	ug/L				
6232830	Total Uranium (U)	2019/07/17	103	80 - 120	100	80 - 120	<0.10	ug/L				
6232830	Total Vanadium (V)	2019/07/17	102	80 - 120	102	80 - 120	<5.0	ug/L				
6232830	Total Zinc (Zn)	2019/07/17	95	80 - 120	100	80 - 120	<5.0	ug/L				
6232830	Total Zirconium (Zr)	2019/07/17	124 (1)	80 - 120	109	80 - 120	<0.10	ug/L				
6232833	Dissolved Aluminum (Al)	2019/07/16	NC	80 - 120	104	80 - 120	<3.0	ug/L				
6232833	Dissolved Antimony (Sb)	2019/07/16	104	80 - 120	106	80 - 120	<0.50	ug/L				
6232833	Dissolved Arsenic (As)	2019/07/16	104	80 - 120	106	80 - 120	<0.10	ug/L				
6232833	Dissolved Barium (Ba)	2019/07/16	105	80 - 120	102	80 - 120	<1.0	ug/L				
6232833	Dissolved Beryllium (Be)	2019/07/16	100	80 - 120	102	80 - 120	<0.10	ug/L				
6232833	Dissolved Bismuth (Bi)	2019/07/16	103	80 - 120	107	80 - 120	<1.0	ug/L				
6232833	Dissolved Boron (B)	2019/07/16	104	80 - 120	98	80 - 120	<50	ug/L				
6232833	Dissolved Cadmium (Cd)	2019/07/16	105	80 - 120	105	80 - 120	<0.010	ug/L				



BV Labs Job #: B9J1427
Report Date: 2019/07/24

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6232833	Dissolved Chromium (Cr)	2019/07/16	101	80 - 120	102	80 - 120	<1.0	ug/L				
6232833	Dissolved Cobalt (Co)	2019/07/16	97	80 - 120	101	80 - 120	<0.20	ug/L				
6232833	Dissolved Copper (Cu)	2019/07/16	NC	80 - 120	99	80 - 120	<0.20	ug/L				
6232833	Dissolved Iron (Fe)	2019/07/16	97	80 - 120	110	80 - 120	<5.0	ug/L				
6232833	Dissolved Lead (Pb)	2019/07/16	106	80 - 120	107	80 - 120	<0.20	ug/L				
6232833	Dissolved Lithium (Li)	2019/07/16	107	80 - 120	103	80 - 120	<2.0	ug/L				
6232833	Dissolved Manganese (Mn)	2019/07/16	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6232833	Dissolved Molybdenum (Mo)	2019/07/16	110	80 - 120	105	80 - 120	<1.0	ug/L				
6232833	Dissolved Nickel (Ni)	2019/07/16	99	80 - 120	97	80 - 120	<1.0	ug/L				
6232833	Dissolved Selenium (Se)	2019/07/16	102	80 - 120	105	80 - 120	<0.10	ug/L				
6232833	Dissolved Silicon (Si)	2019/07/16	101	80 - 120	111	80 - 120	<100	ug/L				
6232833	Dissolved Silver (Ag)	2019/07/16	103	80 - 120	102	80 - 120	<0.020	ug/L				
6232833	Dissolved Strontium (Sr)	2019/07/16	NC	80 - 120	105	80 - 120	<1.0	ug/L				
6232833	Dissolved Thallium (Tl)	2019/07/16	108	80 - 120	107	80 - 120	<0.010	ug/L				
6232833	Dissolved Tin (Sn)	2019/07/16	103	80 - 120	102	80 - 120	<5.0	ug/L				
6232833	Dissolved Titanium (Ti)	2019/07/16	110	80 - 120	101	80 - 120	<5.0	ug/L				
6232833	Dissolved Uranium (U)	2019/07/16	107	80 - 120	104	80 - 120	<0.10	ug/L				
6232833	Dissolved Vanadium (V)	2019/07/16	103	80 - 120	103	80 - 120	<5.0	ug/L				
6232833	Dissolved Zinc (Zn)	2019/07/16	NC	80 - 120	104	80 - 120	<5.0	ug/L				
6232833	Dissolved Zirconium (Zr)	2019/07/16	105	80 - 120	106	80 - 120	<0.10	ug/L				
6237853	Free Cyanide (CN)	2019/07/17	95	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
6239550	Reactive Silica (SiO2)	2019/07/16	105	80 - 120	102	80 - 120	<0.050	mg/L	1.6	20		
6240085	Benzene	2019/07/23	102	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
6240085	Ethylbenzene	2019/07/23	106	70 - 130	114	70 - 130	<0.20	ug/L	NC	30		
6240085	F1 (C6-C10) - BTEX	2019/07/23					<25	ug/L	NC	30		
6240085	F1 (C6-C10)	2019/07/23	113	70 - 130	103	70 - 130	<25	ug/L	NC	30		
6240085	o-Xylene	2019/07/23	103	70 - 130	108	70 - 130	<0.20	ug/L	NC	30		
6240085	p+m-Xylene	2019/07/23	106	70 - 130	114	70 - 130	<0.40	ug/L	NC	30		
6240085	Toluene	2019/07/23	111	70 - 130	112	70 - 130	<0.20	ug/L	NC	30		
6240085	Total Xylenes	2019/07/23					<0.40	ug/L	NC	30		
6241290	F2 (C10-C16 Hydrocarbons)	2019/07/23	113	50 - 130	108	60 - 130	<100	ug/L	2.3	30		
6241290	F3 (C16-C34 Hydrocarbons)	2019/07/23	109	50 - 130	109	60 - 130	<200	ug/L	NC	30		



BUREAU
VERITAS

BV Labs Job #: B9J1427

Report Date: 2019/07/24

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6241290	F4 (C34-C50 Hydrocarbons)	2019/07/23	105	50 - 130	103	60 - 130	<200	ug/L	NC	30		

N/A = Not Applicable

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 $\leq 2 \times \text{RDL}$).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9J1427

Report Date: 2019/07/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Brad Newman, Scientific Service Specialist

Harry (Peng) Liang, Senior Analyst

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

Steven Simpson, Lab Director

BV Labs 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

BV Labs Job #: B9J1427

Report Date: 2019/07/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site#: 63°02'15.5" 92°13'06.3"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/02
 Report #: R5823823
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9J7572

Received: 2019/07/18, 08:52

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/07/22	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/07/23	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	1	2019/07/19	2019/07/24	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry (1)	1	N/A	2019/07/22	CAM SOP-00463	SM 4500-Cl E m
Conductivity (1)	1	N/A	2019/07/22	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/07/19	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/07/19	2019/07/19	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/07/19	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/07/19	2019/07/19	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2019/07/23	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	1	2019/07/24	2019/07/25	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	1	2019/07/22	2019/07/22	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/07/22	2019/07/22	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	1	N/A	2019/07/24	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/07/24	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/07/24	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/07/23	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/07/18	2019/07/24	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/07/23	2019/07/23	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/07/24	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/07/21	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/07/21	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/07/19	2019/07/22	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/07/22	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/07/31	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/07/22	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/07/20	2019/07/22	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/07/20	2019/07/23	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/07/24	CAM SOP-00446	SM 23 5310B m



Your P.O. #: OL-762849
 Site#: 63°02'15.5" 92°13'06.3"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/02
 Report #: R5823823
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9J7572

Received: 2019/07/18, 08:52

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Total Phosphorus (Colourimetric) (1)	1	2019/07/23	2019/07/23	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/07/19	2019/07/22	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/07/19	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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

(7) "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).



Your P.O. #: OL-762849
Site#: 63°02'15.5" 92°13'06.3"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/02
Report #: R5823823
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9J7572

Received: 2019/07/18, 08:52

- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
02 Aug 2019 09:27:26

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B9J7572

Report Date: 2019/08/02

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SA

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KHJ666		
Sampling Date		2019/07/15 14:00		
	UNITS	MEL-14	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	6240085
Toluene	ug/L	<0.20	0.20	6240085
Ethylbenzene	ug/L	<0.20	0.20	6240085
o-Xylene	ug/L	<0.20	0.20	6240085
p+m-Xylene	ug/L	<0.40	0.40	6240085
Total Xylenes	ug/L	<0.40	0.40	6240085
F1 (C6-C10)	ug/L	<25	25	6240085
F1 (C6-C10) - BTEX	ug/L	<25	25	6240085
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	6244328
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	6244328
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	6244328
Reached Baseline at C50	ug/L	Yes		6244328
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	102		6240085
4-Bromofluorobenzene	%	98		6240085
D10-Ethylbenzene	%	96		6240085
D4-1,2-Dichloroethane	%	97		6240085
o-Terphenyl	%	98		6244328
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				

BUREAU
VERITAS

BV Labs Job #: B9J7572

Report Date: 2019/08/02

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SA

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KHJ666		
Sampling Date		2019/07/15 14:00		
	UNITS	MEL-14	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	292	0.50	6246011
Metals				
Dissolved Aluminum (Al)	ug/L	52.7	3.0	6246013
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	6246013
Dissolved Arsenic (As)	ug/L	1.63	0.10	6246013
Dissolved Barium (Ba)	ug/L	42.4	1.0	6246013
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	6246013
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	6246013
Dissolved Boron (B)	ug/L	333	50	6246013
Dissolved Cadmium (Cd)	ug/L	0.013	0.010	6246013
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	6246013
Dissolved Cobalt (Co)	ug/L	0.65	0.20	6246013
Dissolved Copper (Cu)	ug/L	0.95	0.20	6246013
Dissolved Iron (Fe)	ug/L	71.7	5.0	6246013
Dissolved Lead (Pb)	ug/L	<0.20	0.20	6246013
Dissolved Lithium (Li)	ug/L	73.5	2.0	6246013
Dissolved Manganese (Mn)	ug/L	19.3	1.0	6246013
Dissolved Molybdenum (Mo)	ug/L	1.2	1.0	6246013
Dissolved Nickel (Ni)	ug/L	2.6	1.0	6246013
Dissolved Selenium (Se)	ug/L	<0.10	0.10	6246013
Dissolved Silicon (Si)	ug/L	433	100	6246013
Dissolved Silver (Ag)	ug/L	<0.020	0.020	6246013
Dissolved Strontium (Sr)	ug/L	1840	1.0	6246013
Dissolved Thallium (Tl)	ug/L	0.030	0.010	6246013
Dissolved Tin (Sn)	ug/L	<5.0	5.0	6246013
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	6246013
Dissolved Uranium (U)	ug/L	0.19	0.10	6246013
Dissolved Vanadium (V)	ug/L	<5.0	5.0	6246013
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	6246013
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	6246013
Dissolved Calcium (Ca)	mg/L	82.7	0.050	6246012
Dissolved Magnesium (Mg)	mg/L	20.9	0.050	6246012
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9J7572
Report Date: 2019/08/02

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KHJ666		
Sampling Date		2019/07/15 14:00		
	UNITS	MEL-14	RDL	QC Batch
Dissolved Potassium (K)	mg/L	12.7	0.050	6246012
Dissolved Sodium (Na)	mg/L	184	0.050	6246012
Dissolved Sulphur (S)	mg/L	18.8	3.0	6246012
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9J7572

Report Date: 2019/08/02

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SA

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KHJ666		
Sampling Date		2019/07/15 14:00		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	180	3.0	6246010
Total Antimony (Sb)	ug/L	<0.50	0.50	6246010
Total Arsenic (As)	ug/L	1.79	0.10	6246010
Total Barium (Ba)	ug/L	43.4	1.0	6246010
Total Beryllium (Be)	ug/L	<0.10	0.10	6246010
Total Bismuth (Bi)	ug/L	<1.0	1.0	6246010
Total Boron (B)	ug/L	349	50	6246010
Total Cadmium (Cd)	ug/L	0.018	0.010	6246010
Total Chromium (Cr)	ug/L	<1.0	1.0	6246010
Total Cobalt (Co)	ug/L	0.68	0.20	6246010
Total Copper (Cu)	ug/L	1.03	0.50	6246010
Total Iron (Fe)	ug/L	110	10	6246010
Total Lead (Pb)	ug/L	<0.20	0.20	6246010
Total Lithium (Li)	ug/L	75.4	2.0	6246010
Total Manganese (Mn)	ug/L	25.3	1.0	6246010
Total Molybdenum (Mo)	ug/L	1.3	1.0	6246010
Total Nickel (Ni)	ug/L	2.7	1.0	6246010
Total Selenium (Se)	ug/L	<0.10	0.10	6246010
Total Silicon (Si)	ug/L	455	100	6246010
Total Silver (Ag)	ug/L	<0.020	0.020	6246010
Total Strontium (Sr)	ug/L	1900	1.0	6246010
Total Thallium (Tl)	ug/L	0.031	0.010	6246010
Total Tin (Sn)	ug/L	<5.0	5.0	6246010
Total Titanium (Ti)	ug/L	<5.0	5.0	6246010
Total Uranium (U)	ug/L	0.24	0.10	6246010
Total Vanadium (V)	ug/L	<5.0	5.0	6246010
Total Zinc (Zn)	ug/L	<5.0	5.0	6246010
Total Zirconium (Zr)	ug/L	<0.10	0.10	6246010
Total Calcium (Ca)	ug/L	84300	50	6243211
Total Magnesium (Mg)	ug/L	20900	50	6243211
Total Potassium (K)	ug/L	12600	50	6243211
Total Sodium (Na)	ug/L	185000	50	6243211
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9J7572
Report Date: 2019/08/02

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KHJ666		
Sampling Date		2019/07/15 14:00		
	UNITS	MEL-14	RDL	QC Batch
Total Sulphur (S)	ug/L	18200	3000	6243211
Calculated Parameters				
Total Hardness (CaCO ₃)	ug/L	297000	500	6243210
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9J7572
Report Date: 2019/08/02

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

RESULTS OF ANALYSES OF WATER

BV Labs ID		KHJ666			KHJ666		
Sampling Date		2019/07/15 14:00			2019/07/15 14:00		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	16	1.0	6234992			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6234992			
Inorganics							
Total Ammonia-N	mg/L	4.5	0.050	6239127	4.6	0.050	6239127
Total BOD	mg/L	<2	2	6236966			
Conductivity	umho/cm	1800	1.0	6237071	1800	1.0	6237071
Free Cyanide (CN)	ug/L	<1.0 (1)	1.0	6245480			
Total Dissolved Solids	mg/L	1190	10	6239076			
Total Kjeldahl Nitrogen (TKN)	mg/L	5.5	0.50	6238949			
Dissolved Organic Carbon	mg/L	4.7	0.50	6235976			
Total Organic Carbon (TOC)	mg/L	5.1	0.50	6239135			
Orthophosphate (P)	mg/L	<0.010	0.010	6238048	<0.010	0.010	6238048
Dissolved Oxygen	mg/L	9.46		6237113			
pH	pH	7.38		6237070	7.45		6237070
Total Phosphorus	mg/L	0.025	0.020	6241832			
Reactive Silica (SiO ₂)	mg/L	0.92	0.050	6245481			
Total Suspended Solids	mg/L	<1	1	6237882			
Dissolved Sulphate (SO ₄)	mg/L	53	1.0	6238040	54	1.0	6238040
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6237839	<0.0050	0.0050	6237839
Turbidity	NTU	1.0	0.1	6237682	1.0	0.1	6237682
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6237851	<0.0010	0.0010	6237851
Alkalinity (Total as CaCO ₃)	mg/L	16	1.0	6237068	17	1.0	6237068
Dissolved Chloride (Cl ⁻)	mg/L	470	5.0	6238023	480	5.0	6238023
Nitrite (N)	mg/L	0.347	0.010	6237885			
Nitrate (N)	mg/L	13.8	0.10	6237885			
Nitrate + Nitrite (N)	mg/L	14.1	0.10	6237885			
RADIONUCLIDE							
Radium-226	Bq/L	<0.0050	0.0050	6242312			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W							



BUREAU
VERITAS

BV Labs Job #: B9J7572

Report Date: 2019/08/02

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SA

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KHJ666		
Sampling Date		2019/07/15 14:00		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6239712
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6239716
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9J7572
Report Date: 2019/08/02

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

TEST SUMMARY

BV Labs ID: KHJ666
Sample ID: MEL-14
Matrix: Water

Collected: 2019/07/15
Shipped:
Received: 2019/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6237068	N/A	2019/07/22	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6234992	N/A	2019/07/23	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6236966	2019/07/19	2019/07/24	Nusrat Naz
Chloride by Automated Colourimetry	KONE	6238023	N/A	2019/07/22	Deonarine Ramnarine
Conductivity	AT	6237071	N/A	2019/07/22	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6237851	N/A	2019/07/19	Gnana Thomas
Total Cyanide	SKAL/CN	6237839	2019/07/19	2019/07/19	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6235976	N/A	2019/07/19	Mandeep Kaur
Dissolved Oxygen	DO	6237113	2019/07/19	2019/07/19	Nusrat Naz
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6240085	N/A	2019/07/23	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6244328	2019/07/24	2019/07/25	(Kent) Maolin Li
Dissolved Mercury (low level)	CV/AA	6239716	2019/07/22	2019/07/22	Medhat Nasr
Mercury (low level)	CV/AA	6239712	2019/07/22	2019/07/22	Medhat Nasr
Cyanide (Free)	SPEC	6245480	2019/07/23	2019/07/23	Taylor Mullings
Hardness Total (calculated as CaCO3)	CALC	6243210	N/A	2019/07/24	Report Automation Engine
Hardness (calculated as CaCO3)	CALC	6246011	N/A	2019/07/24	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6246012	N/A	2019/07/24	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6246013	N/A	2019/07/23	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6243211	2019/07/24	2019/07/24	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6246010	2019/07/23	2019/07/23	Andrew An
Silica (Reactive)	KONE	6245481	N/A	2019/07/24	Serena Tian
Total Ammonia-N	LACH/NH4	6239127	N/A	2019/07/21	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	6237885	N/A	2019/07/21	Amanpreet Sappal
pH	AT	6237070	2019/07/19	2019/07/22	Surinder Rai
Orthophosphate	KONE	6238048	N/A	2019/07/22	Alina Dobreanu
Radium-226 Low Level	AS	6242312	N/A	2019/07/31	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6238040	N/A	2019/07/22	Alina Dobreanu
Total Dissolved Solids	BAL	6239076	2019/07/20	2019/07/22	Nilam Borole
Total Kjeldahl Nitrogen in Water	SKAL	6238949	2019/07/20	2019/07/23	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6239135	N/A	2019/07/24	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6241832	2019/07/23	2019/07/23	Nimarta Singh
Low Level Total Suspended Solids	BAL	6237882	2019/07/19	2019/07/22	Nilam Borole
Turbidity	AT	6237682	N/A	2019/07/19	Kazzandra Adeva

BV Labs ID: KHJ666 Dup
Sample ID: MEL-14
Matrix: Water

Collected: 2019/07/15
Shipped:
Received: 2019/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6237068	N/A	2019/07/22	Surinder Rai
Chloride by Automated Colourimetry	KONE	6238023	N/A	2019/07/22	Deonarine Ramnarine
Conductivity	AT	6237071	N/A	2019/07/22	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6237851	N/A	2019/07/19	Gnana Thomas
Total Cyanide	SKAL/CN	6237839	2019/07/19	2019/07/19	Gnana Thomas
Total Ammonia-N	LACH/NH4	6239127	N/A	2019/07/21	Amanpreet Sappal



BUREAU
VERITAS

BV Labs Job #: B9J7572

Report Date: 2019/08/02

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SA

TEST SUMMARY

BV Labs ID: KHJ666 Dup

Sample ID: MEL-14

Matrix: Water

Collected: 2019/07/15

Shipped:

Received: 2019/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	6237070	2019/07/19	2019/07/22	Surinder Rai
Orthophosphate	KONE	6238048	N/A	2019/07/22	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	6238040	N/A	2019/07/22	Alina Dobreanu
Turbidity	AT	6237682	N/A	2019/07/19	Kazzandra Adeva



BUREAU
VERITAS

BV Labs Job #: B9J7572

Report Date: 2019/08/02

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SA

GENERAL COMMENTS

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

Package 1	14.7°C

GPS Coordinates

Sample KHJ666 [MEL-14] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Results relate only to the items tested.



BV Labs Job #: 89J7572
Report Date: 2019/08/02

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

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
6240085	1,4-Difluorobenzene	2019/07/23	101	70 - 130	97	70 - 130	103	%				
6240085	4-Bromofluorobenzene	2019/07/23	100	70 - 130	105	70 - 130	97	%				
6240085	D10-Ethylbenzene	2019/07/23	92	70 - 130	105	70 - 130	98	%				
6240085	D4-1,2-Dichloroethane	2019/07/23	94	70 - 130	93	70 - 130	95	%				
6244328	o-Terphenyl	2019/07/25	103	60 - 130	102	60 - 130	97	%				
6235976	Dissolved Organic Carbon	2019/07/19	94	80 - 120	97	80 - 120	<0.50	mg/L	0.11	20		
6236966	Total BOD	2019/07/24					<2	mg/L	13	30	96	80 - 120
6237068	Alkalinity (Total as CaCO ₃)	2019/07/22			97	85 - 115	<1.0	mg/L	5.6	20		
6237070	pH	2019/07/22			102	98 - 103			0.93	N/A		
6237071	Conductivity	2019/07/22			100	85 - 115	<1.0	umho/cm	0.33	25		
6237682	Turbidity	2019/07/19			96	85 - 115	<0.1	NTU	0.94	20		
6237839	Total Cyanide (CN)	2019/07/19	97	80 - 120	101	80 - 120	<0.0050	mg/L	NC	20		
6237851	WAD Cyanide (Free)	2019/07/19	99	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
6237882	Total Suspended Solids	2019/07/22					<1	mg/L	NC	25	102	85 - 115
6237885	Nitrate (N)	2019/07/21	99	80 - 120	98	80 - 120	<0.10	mg/L	NC	20		
6237885	Nitrite (N)	2019/07/21	105	80 - 120	104	80 - 120	<0.010	mg/L	NC	20		
6238023	Dissolved Chloride (Cl ⁻)	2019/07/22	NC	80 - 120	102	80 - 120	<1.0	mg/L	2.3	20		
6238040	Dissolved Sulphate (SO ₄)	2019/07/22	NC	75 - 125	103	80 - 120	<1.0	mg/L	1.2	20		
6238048	Orthophosphate (P)	2019/07/22	100	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
6238949	Total Kjeldahl Nitrogen (TKN)	2019/07/22	NC	80 - 120	99	80 - 120	<0.10	mg/L	4.7	20	99	80 - 120
6239076	Total Dissolved Solids	2019/07/22					<10	mg/L	1.4	25	102	90 - 110
6239127	Total Ammonia-N	2019/07/21	95	75 - 125	99	80 - 120	<0.050	mg/L	0.94	20		
6239135	Total Organic Carbon (TOC)	2019/07/24	94	80 - 120	98	80 - 120	<0.50	mg/L	0.55	20		
6239712	Mercury (Hg)	2019/07/22	101	75 - 125	98	80 - 120	<0.00001	mg/L	NC	20		
6239716	Dissolved Mercury (Hg)	2019/07/22	87	75 - 125	98	80 - 120	<0.00001	mg/L	NC	20		
6240085	Benzene	2019/07/23	102	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
6240085	Ethylbenzene	2019/07/23	106	70 - 130	114	70 - 130	<0.20	ug/L	NC	30		
6240085	F1 (C6-C10) - BTEX	2019/07/23					<25	ug/L	NC	30		
6240085	F1 (C6-C10)	2019/07/23	113	70 - 130	103	70 - 130	<25	ug/L	NC	30		
6240085	o-Xylene	2019/07/23	103	70 - 130	108	70 - 130	<0.20	ug/L	NC	30		
6240085	p+m-Xylene	2019/07/23	106	70 - 130	114	70 - 130	<0.40	ug/L	NC	30		



BV Labs Job #: B9J7572
Report Date: 2019/08/02

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

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
6240085	Toluene	2019/07/23	111	70 - 130	112	70 - 130	<0.20	ug/L	NC	30		
6240085	Total Xylenes	2019/07/23					<0.40	ug/L	NC	30		
6241832	Total Phosphorus	2019/07/23	97	80 - 120	98	80 - 120	<0.020	mg/L	NC	20	99	80 - 120
6242312	Radium-226	2019/07/31			98	85 - 115	<0.0050	Bq/L	7.9	N/A		
6244328	F2 (C10-C16 Hydrocarbons)	2019/07/25	NC	50 - 130	91	60 - 130	<100	ug/L	0.015	30		
6244328	F3 (C16-C34 Hydrocarbons)	2019/07/25	NC	50 - 130	97	60 - 130	<200	ug/L	3.1	30		
6244328	F4 (C34-C50 Hydrocarbons)	2019/07/25	NC	50 - 130	95	60 - 130	<200	ug/L	1.8	30		
6245480	Free Cyanide (CN)	2019/07/23	91	80 - 120	93	80 - 120	<1.0	ug/L				
6245481	Reactive Silica (SiO2)	2019/07/24	109	80 - 120	101	80 - 120	<0.050	mg/L				
6246010	Total Aluminum (Al)	2019/07/23	103	80 - 120	101	80 - 120	<3.0	ug/L				
6246010	Total Antimony (Sb)	2019/07/23	100	80 - 120	100	80 - 120	<0.50	ug/L				
6246010	Total Arsenic (As)	2019/07/23	106	80 - 120	101	80 - 120	<0.10	ug/L				
6246010	Total Barium (Ba)	2019/07/23	101	80 - 120	102	80 - 120	<1.0	ug/L				
6246010	Total Beryllium (Be)	2019/07/23	105	80 - 120	101	80 - 120	<0.10	ug/L				
6246010	Total Bismuth (Bi)	2019/07/23	106	80 - 120	103	80 - 120	<1.0	ug/L				
6246010	Total Boron (B)	2019/07/23	106	80 - 120	100	80 - 120	<50	ug/L				
6246010	Total Cadmium (Cd)	2019/07/23	102	80 - 120	99	80 - 120	<0.010	ug/L				
6246010	Total Chromium (Cr)	2019/07/23	103	80 - 120	99	80 - 120	<1.0	ug/L				
6246010	Total Cobalt (Co)	2019/07/23	99	80 - 120	97	80 - 120	<0.20	ug/L				
6246010	Total Copper (Cu)	2019/07/23	99	80 - 120	96	80 - 120	<0.50	ug/L				
6246010	Total Iron (Fe)	2019/07/23	106	80 - 120	104	80 - 120	<10	ug/L				
6246010	Total Lead (Pb)	2019/07/23	107	80 - 120	105	80 - 120	<0.20	ug/L				
6246010	Total Lithium (Li)	2019/07/23	105	80 - 120	102	80 - 120	<2.0	ug/L				
6246010	Total Manganese (Mn)	2019/07/23	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6246010	Total Molybdenum (Mo)	2019/07/23	103	80 - 120	99	80 - 120	<1.0	ug/L				
6246010	Total Nickel (Ni)	2019/07/23	101	80 - 120	98	80 - 120	<1.0	ug/L				
6246010	Total Selenium (Se)	2019/07/23	103	80 - 120	99	80 - 120	<0.10	ug/L				
6246010	Total Silicon (Si)	2019/07/23	NC	80 - 120	102	80 - 120	<100	ug/L				
6246010	Total Silver (Ag)	2019/07/23	103	80 - 120	99	80 - 120	<0.020	ug/L				
6246010	Total Strontium (Sr)	2019/07/23	105	80 - 120	101	80 - 120	<1.0	ug/L				
6246010	Total Thallium (Tl)	2019/07/23	109	80 - 120	104	80 - 120	<0.010	ug/L				
6246010	Total Tin (Sn)	2019/07/23	100	80 - 120	99	80 - 120	<5.0	ug/L				



BV Labs Job #: 89J7572
Report Date: 2019/08/02

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

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
6246010	Total Titanium (Ti)	2019/07/23	103	80 - 120	101	80 - 120	<5.0	ug/L				
6246010	Total Uranium (U)	2019/07/23	105	80 - 120	103	80 - 120	<0.10	ug/L				
6246010	Total Vanadium (V)	2019/07/23	102	80 - 120	98	80 - 120	<5.0	ug/L				
6246010	Total Zinc (Zn)	2019/07/23	NC	80 - 120	101	80 - 120	<5.0	ug/L				
6246010	Total Zirconium (Zr)	2019/07/23	103	80 - 120	97	80 - 120	<0.10	ug/L				
6246013	Dissolved Aluminum (Al)	2019/07/23	NC	80 - 120	104	80 - 120	<3.0	ug/L				
6246013	Dissolved Antimony (Sb)	2019/07/23	98	80 - 120	102	80 - 120	<0.50	ug/L				
6246013	Dissolved Arsenic (As)	2019/07/23	102	80 - 120	104	80 - 120	<0.10	ug/L				
6246013	Dissolved Barium (Ba)	2019/07/23	102	80 - 120	102	80 - 120	<1.0	ug/L				
6246013	Dissolved Beryllium (Be)	2019/07/23	95	80 - 120	101	80 - 120	<0.10	ug/L				
6246013	Dissolved Bismuth (Bi)	2019/07/23	98	80 - 120	105	80 - 120	<1.0	ug/L				
6246013	Dissolved Boron (B)	2019/07/23	92	80 - 120	100	80 - 120	<50	ug/L				
6246013	Dissolved Cadmium (Cd)	2019/07/23	96	80 - 120	104	80 - 120	<0.010	ug/L				
6246013	Dissolved Chromium (Cr)	2019/07/23	96	80 - 120	105	80 - 120	<1.0	ug/L				
6246013	Dissolved Cobalt (Co)	2019/07/23	90	80 - 120	100	80 - 120	<0.20	ug/L				
6246013	Dissolved Copper (Cu)	2019/07/23	90	80 - 120	102	80 - 120	<0.20	ug/L				
6246013	Dissolved Iron (Fe)	2019/07/23	NC	80 - 120	104	80 - 120	<5.0	ug/L				
6246013	Dissolved Lead (Pb)	2019/07/23	98	80 - 120	106	80 - 120	<0.20	ug/L				
6246013	Dissolved Lithium (Li)	2019/07/23	93	80 - 120	102	80 - 120	<2.0	ug/L				
6246013	Dissolved Manganese (Mn)	2019/07/23	NC	80 - 120	106	80 - 120	<1.0	ug/L				
6246013	Dissolved Molybdenum (Mo)	2019/07/23	108	80 - 120	102	80 - 120	<1.0	ug/L				
6246013	Dissolved Nickel (Ni)	2019/07/23	91	80 - 120	105	80 - 120	<1.0	ug/L				
6246013	Dissolved Selenium (Se)	2019/07/23	93	80 - 120	104	80 - 120	<0.10	ug/L				
6246013	Dissolved Silicon (Si)	2019/07/23	111	80 - 120	105	80 - 120	<100	ug/L				
6246013	Dissolved Silver (Ag)	2019/07/23	78 (1)	80 - 120	104	80 - 120	<0.020	ug/L				
6246013	Dissolved Strontium (Sr)	2019/07/23	NC	80 - 120	103	80 - 120	<1.0	ug/L				
6246013	Dissolved Thallium (Tl)	2019/07/23	101	80 - 120	106	80 - 120	<0.010	ug/L				
6246013	Dissolved Tin (Sn)	2019/07/23	99	80 - 120	107	80 - 120	<5.0	ug/L				
6246013	Dissolved Titanium (Ti)	2019/07/23	101	80 - 120	104	80 - 120	<5.0	ug/L				
6246013	Dissolved Uranium (U)	2019/07/23	108	80 - 120	106	80 - 120	<0.10	ug/L				
6246013	Dissolved Vanadium (V)	2019/07/23	100	80 - 120	104	80 - 120	<5.0	ug/L				
6246013	Dissolved Zinc (Zn)	2019/07/23	95	80 - 120	111	80 - 120	<5.0	ug/L				



BV Labs Job #: B9J7572
Report Date: 2019/08/02

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

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
6246013	Dissolved Zirconium (Zr)	2019/07/23	104	80 - 120	102	80 - 120	<0.10	ug/L				

N/A = Not Applicable

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 <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9J7572

Report Date: 2019/08/02

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SA

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Danish Samad, Senior Analyst – Team Lead

Harry (Peng) Liang, Senior Analyst

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

BV Labs 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

BV Labs Job #: B9J7572

Report Date: 2019/08/02

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SA

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site Location: MELIADINE
 Your C.O.C. #: n/a

Attention: Reporting

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

Report Date: 2019/08/09
 Report #: R5832764
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9K9242

Received: 2019/07/29, 14:00

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/07/30	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/07/31	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	1	2019/07/30	2019/08/04	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry (1)	1	N/A	2019/07/31	CAM SOP-00463	SM 4500-Cl E m
Conductivity (1)	1	N/A	2019/07/30	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/07/31	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/07/31	2019/07/31	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/07/31	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/07/30	2019/07/30	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2019/08/02	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	1	2019/08/02	2019/08/06	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	1	2019/08/01	2019/08/01	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/08/01	2019/08/01	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	1	N/A	2019/08/01	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/08/02	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/08/02	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/08/01	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/07/30	2019/08/01	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/07/31	2019/08/01	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/08/01	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/08/01	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/08/01	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/07/30	2019/07/30	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/07/31	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/08/07	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/07/31	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/07/30	2019/07/31	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/07/31	2019/07/31	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/07/31	CAM SOP-00446	SM 23 5310B m



Your P.O. #: OL-762849
 Site Location: MELIADINE
 Your C.O.C. #: n/a

Attention: Reporting

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

Report Date: 2019/08/09
 Report #: R5832764
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9K9242

Received: 2019/07/29, 14:00

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Total Phosphorus (Colourimetric) (1)	1	2019/08/01	2019/08/01	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/07/30	2019/07/31	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/07/30	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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

(7) "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).



Your P.O. #: OL-762849
Site Location: MELIADINE
Your C.O.C. #: n/a

Attention: Reporting

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

Report Date: 2019/08/09
Report #: R5832764
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9K9242

Received: 2019/07/29, 14:00

- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
09 Aug 2019 17:02:58

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B9K9242
Report Date: 2019/08/09

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KJU442		
Sampling Date		2019/07/25 06:50		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	6260467
Toluene	ug/L	<0.20	0.20	6260467
Ethylbenzene	ug/L	<0.20	0.20	6260467
o-Xylene	ug/L	<0.20	0.20	6260467
p+m-Xylene	ug/L	<0.40	0.40	6260467
Total Xylenes	ug/L	<0.40	0.40	6260467
F1 (C6-C10)	ug/L	<25	25	6260467
F1 (C6-C10) - BTEX	ug/L	<25	25	6260467
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	6261230
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	6261230
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	6261230
Reached Baseline at C50	ug/L	Yes		6261230
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	103		6260467
4-Bromofluorobenzene	%	102		6260467
D10-Ethylbenzene	%	100		6260467
D4-1,2-Dichloroethane	%	98		6260467
o-Terphenyl	%	105		6261230
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9K9242

Report Date: 2019/08/09

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: LH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KJU442		
Sampling Date		2019/07/25 06:50		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	300	0.50	6261812
Metals				
Dissolved Aluminum (Al)	ug/L	37.7	3.0	6261814
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	6261814
Dissolved Arsenic (As)	ug/L	1.55	0.10	6261814
Dissolved Barium (Ba)	ug/L	48.3	1.0	6261814
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	6261814
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	6261814
Dissolved Boron (B)	ug/L	349	50	6261814
Dissolved Cadmium (Cd)	ug/L	0.015	0.010	6261814
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	6261814
Dissolved Cobalt (Co)	ug/L	0.60	0.20	6261814
Dissolved Copper (Cu)	ug/L	0.89	0.20	6261814
Dissolved Iron (Fe)	ug/L	58.7	5.0	6261814
Dissolved Lead (Pb)	ug/L	<0.20	0.20	6261814
Dissolved Lithium (Li)	ug/L	66.5	2.0	6261814
Dissolved Manganese (Mn)	ug/L	10.5	1.0	6261814
Dissolved Molybdenum (Mo)	ug/L	1.3	1.0	6261814
Dissolved Nickel (Ni)	ug/L	2.8	1.0	6261814
Dissolved Selenium (Se)	ug/L	<0.10	0.10	6261814
Dissolved Silicon (Si)	ug/L	417	100	6261814
Dissolved Silver (Ag)	ug/L	<0.020	0.020	6261814
Dissolved Strontium (Sr)	ug/L	1890	1.0	6261814
Dissolved Thallium (Tl)	ug/L	0.030	0.010	6261814
Dissolved Tin (Sn)	ug/L	<5.0	5.0	6261814
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	6261814
Dissolved Uranium (U)	ug/L	0.22	0.10	6261814
Dissolved Vanadium (V)	ug/L	<5.0	5.0	6261814
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	6261814
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	6261814
Dissolved Calcium (Ca)	mg/L	82.9	0.050	6261813
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9K9242
Report Date: 2019/08/09

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KJU442		
Sampling Date		2019/07/25 06:50		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	22.6	0.050	6261813
Dissolved Potassium (K)	mg/L	12.5	0.050	6261813
Dissolved Sodium (Na)	mg/L	184	0.050	6261813
Dissolved Sulphur (S)	mg/L	19.2	3.0	6261813
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9K9242

Report Date: 2019/08/09

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: LH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KJU442		
Sampling Date		2019/07/25 06:50		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	91.5	3.0	6261811
Total Antimony (Sb)	ug/L	<0.50	0.50	6261811
Total Arsenic (As)	ug/L	1.48	0.10	6261811
Total Barium (Ba)	ug/L	46.3	1.0	6261811
Total Beryllium (Be)	ug/L	<0.10	0.10	6261811
Total Bismuth (Bi)	ug/L	<1.0	1.0	6261811
Total Boron (B)	ug/L	324	50	6261811
Total Cadmium (Cd)	ug/L	0.015	0.010	6261811
Total Chromium (Cr)	ug/L	<1.0	1.0	6261811
Total Cobalt (Co)	ug/L	0.59	0.20	6261811
Total Copper (Cu)	ug/L	0.94	0.50	6261811
Total Iron (Fe)	ug/L	91	10	6261811
Total Lead (Pb)	ug/L	<0.20	0.20	6261811
Total Lithium (Li)	ug/L	62.4	2.0	6261811
Total Manganese (Mn)	ug/L	11.7	1.0	6261811
Total Molybdenum (Mo)	ug/L	1.2	1.0	6261811
Total Nickel (Ni)	ug/L	2.8	1.0	6261811
Total Selenium (Se)	ug/L	<0.10	0.10	6261811
Total Silicon (Si)	ug/L	427	100	6261811
Total Silver (Ag)	ug/L	<0.020	0.020	6261811
Total Strontium (Sr)	ug/L	1840	1.0	6261811
Total Thallium (Tl)	ug/L	0.027	0.010	6261811
Total Tin (Sn)	ug/L	<5.0	5.0	6261811
Total Titanium (Ti)	ug/L	<5.0	5.0	6261811
Total Uranium (U)	ug/L	0.23	0.10	6261811
Total Vanadium (V)	ug/L	<5.0	5.0	6261811
Total Zinc (Zn)	ug/L	<5.0	5.0	6261811
Total Zirconium (Zr)	ug/L	<0.10	0.10	6261811
Total Calcium (Ca)	ug/L	79600	50	6261810
Total Magnesium (Mg)	ug/L	21800	50	6261810
Total Potassium (K)	ug/L	11900	50	6261810
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9K9242
Report Date: 2019/08/09

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KJU442		
Sampling Date		2019/07/25 06:50		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Total Sodium (Na)	ug/L	174000	50	6261810
Total Sulphur (S)	ug/L	18300	3000	6261810
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	289000	500	6261809
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9K9242
Report Date: 2019/08/09

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

RESULTS OF ANALYSES OF WATER

BV Labs ID		KJU442		
Sampling Date		2019/07/25 06:50		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Calculated Parameters				
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	25	1.0	6254294
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6254294
Inorganics				
Total Ammonia-N	mg/L	4.9	0.050	6257051
Total BOD	mg/L	<2	2	6254515
Conductivity	umho/cm	1700	1.0	6255184
Free Cyanide (CN)	ug/L	1.4 (1)	1.0	6264907
Total Dissolved Solids	mg/L	935	10	6255686
Total Kjeldahl Nitrogen (TKN)	mg/L	5.1	0.50	6257033
Dissolved Organic Carbon	mg/L	4.0	0.50	6255021
Total Organic Carbon (TOC)	mg/L	4.4	0.50	6257011
Orthophosphate (P)	mg/L	<0.010	0.010	6255223
Dissolved Oxygen	mg/L	8.45		6255125
pH	pH	7.41		6255178
Total Phosphorus	mg/L	<0.020	0.020	6258779
Reactive Silica (SiO ₂)	mg/L	0.82	0.050	6264906
Total Suspended Solids	mg/L	2	1	6255366
Dissolved Sulphate (SO ₄)	mg/L	55	1.0	6255222
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6256924
Turbidity	NTU	0.4	0.1	6255095
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6256930
Alkalinity (Total as CaCO ₃)	mg/L	25	1.0	6255172
Dissolved Chloride (Cl ⁻)	mg/L	440	5.0	6255218
Nitrite (N)	mg/L	0.402	0.010	6255233
Nitrate (N)	mg/L	13.7	0.10	6255233
Nitrate + Nitrite (N)	mg/L	14.1	0.10	6255233
RADIONUCLIDE				
Radium-226	Bq/L	<0.0050	0.0050	6259305
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				
(1) See general comments for notes regarding CNFREE-W				



BUREAU
VERITAS

BV Labs Job #: B9K9242
Report Date: 2019/08/09

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KJU442		
Sampling Date		2019/07/25 06:50		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6258729
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6258732
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9K9242
Report Date: 2019/08/09

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

TEST SUMMARY

BV Labs ID: KJU442
Sample ID: MEL-14
Matrix: Water

Collected: 2019/07/25
Shipped:
Received: 2019/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6255172	N/A	2019/07/30	Neil Dassanayake
Carbonate, Bicarbonate and Hydroxide	CALC	6254294	N/A	2019/07/31	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6254515	2019/07/30	2019/08/04	Frank Zhang
Chloride by Automated Colourimetry	KONE	6255218	N/A	2019/07/31	Alina Dobreanu
Conductivity	AT	6255184	N/A	2019/07/30	Neil Dassanayake
Free (WAD) Cyanide	SKAL/CN	6256930	N/A	2019/07/31	Gnana Thomas
Total Cyanide	SKAL/CN	6256924	2019/07/31	2019/07/31	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6255021	N/A	2019/07/31	Nimarta Singh
Dissolved Oxygen	DO	6255125	2019/07/30	2019/07/30	Frank Zhang
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6260467	N/A	2019/08/02	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6261230	2019/08/02	2019/08/06	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6258732	2019/08/01	2019/08/01	Ron Morrison
Mercury (low level)	CV/AA	6258729	2019/08/01	2019/08/01	Ron Morrison
Cyanide (Free)	SPEC	6264907	2019/08/02	2019/08/02	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6261809	N/A	2019/08/01	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6261812	N/A	2019/08/02	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6261813	N/A	2019/08/02	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6261814	N/A	2019/08/01	Valentina Balada
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6261810	2019/08/01	2019/08/01	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6261811	2019/07/31	2019/08/01	Valentina Balada
Silica (Reactive)	KONE	6264906	N/A	2019/08/01	Serena Tian
Total Ammonia-N	LACH/NH ₄	6257051	N/A	2019/08/01	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6255233	N/A	2019/08/01	Chandra Nandlal
pH	AT	6255178	2019/07/30	2019/07/30	Neil Dassanayake
Orthophosphate	KONE	6255223	N/A	2019/07/31	Alina Dobreanu
Radium-226 Low Level	AS	6259305	N/A	2019/08/07	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6255222	N/A	2019/07/31	Alina Dobreanu
Total Dissolved Solids	BAL	6255686	2019/07/30	2019/07/31	Nilam Borole
Total Kjeldahl Nitrogen in Water	SKAL	6257033	2019/07/31	2019/07/31	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6257011	N/A	2019/07/31	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6258779	2019/08/01	2019/08/01	Nimarta Singh
Low Level Total Suspended Solids	BAL	6255366	2019/07/30	2019/07/31	Nilam Borole
Turbidity	AT	6255095	N/A	2019/07/30	Kazzandra Adeva



BUREAU
VERITAS

BV Labs Job #: B9K9242
Report Date: 2019/08/09

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

GENERAL COMMENTS

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

Package 1	22.3°C

Sample KJU442 [MEL-14] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Results relate only to the items tested.



BV Labs Job #: B9K9242
Report Date: 2019/08/09

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6260467	1,4-Difluorobenzene	2019/08/02	104	70 - 130	102	70 - 130	99	%				
6260467	4-Bromofluorobenzene	2019/08/02	102	70 - 130	101	70 - 130	101	%				
6260467	D10-Ethylbenzene	2019/08/02	100	70 - 130	97	70 - 130	93	%				
6260467	D4-1,2-Dichloroethane	2019/08/02	96	70 - 130	97	70 - 130	95	%				
6261230	o-Terphenyl	2019/08/06	109	60 - 130	104	60 - 130	104	%				
6254515	Total BOD	2019/08/04					<2	mg/L	NC	30	110	80 - 120
6255021	Dissolved Organic Carbon	2019/07/30	94	80 - 120	101	80 - 120	<0.50	mg/L	1.3	20		
6255095	Turbidity	2019/07/30			95	85 - 115	<0.1	NTU	2.9	20		
6255172	Alkalinity (Total as CaCO ₃)	2019/07/30			96	85 - 115	<1.0	mg/L	0.31	20		
6255178	pH	2019/07/30			102	98 - 103			0.24	N/A		
6255184	Conductivity	2019/07/30			101	85 - 115	<1.0	umho/cm	0.53	25		
6255218	Dissolved Chloride (Cl ⁻)	2019/07/31	NC	80 - 120	104	80 - 120	<1.0	mg/L	2.9	20		
6255222	Dissolved Sulphate (SO ₄)	2019/07/31	NC	75 - 125	105	80 - 120	<1.0	mg/L	0.051	20		
6255223	Orthophosphate (P)	2019/07/31	100	75 - 125	102	80 - 120	<0.010	mg/L	NC	25		
6255233	Nitrate (N)	2019/08/01	100	80 - 120	104	80 - 120	<0.10	mg/L	0.45	20		
6255233	Nitrite (N)	2019/08/01	102	80 - 120	102	80 - 120	<0.010	mg/L	0.42	20		
6255366	Total Suspended Solids	2019/07/31					<1	mg/L	NC	25	101	85 - 115
6255686	Total Dissolved Solids	2019/07/31					<10	mg/L	1.6	25	95	90 - 110
6256924	Total Cyanide (CN)	2019/07/31	96	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
6256930	WAD Cyanide (Free)	2019/07/31	83	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
6257011	Total Organic Carbon (TOC)	2019/07/31	91	80 - 120	96	80 - 120	<0.50	mg/L	0.52	20		
6257033	Total Kjeldahl Nitrogen (TKN)	2019/07/31	101	80 - 120	100	80 - 120	<0.10	mg/L	3.2	20	101	80 - 120
6257051	Total Ammonia-N	2019/08/01	93	75 - 125	98	80 - 120	<0.050	mg/L	3.6	20		
6258729	Mercury (Hg)	2019/08/01	102	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6258732	Dissolved Mercury (Hg)	2019/08/01	103	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6258779	Total Phosphorus	2019/08/01	100	80 - 120	103	80 - 120	<0.020	mg/L	3.4	20	101	80 - 120
6259305	Radium-226	2019/08/07			95	85 - 115	<0.0050	Bq/L	4.8	N/A		
6260467	Benzene	2019/08/02	99	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
6260467	Ethylbenzene	2019/08/02	99	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
6260467	F1 (C6-C10) - BTEX	2019/08/02					<25	ug/L	NC	30		
6260467	F1 (C6-C10)	2019/08/02	104	70 - 130	119	70 - 130	<25	ug/L	NC	30		



BV Labs Job #: B9K9242
Report Date: 2019/08/09

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6260467	o-Xylene	2019/08/02	104	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
6260467	p+m-Xylene	2019/08/02	103	70 - 130	100	70 - 130	<0.40	ug/L	NC	30		
6260467	Toluene	2019/08/02	105	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
6260467	Total Xylenes	2019/08/02					<0.40	ug/L	NC	30		
6261230	F2 (C10-C16 Hydrocarbons)	2019/08/06	106	50 - 130	101	60 - 130	<100	ug/L	NC	30		
6261230	F3 (C16-C34 Hydrocarbons)	2019/08/06	119	50 - 130	116	60 - 130	<200	ug/L	NC	30		
6261230	F4 (C34-C50 Hydrocarbons)	2019/08/06	118	50 - 130	115	60 - 130	<200	ug/L	NC	30		
6261811	Total Aluminum (Al)	2019/08/01	100	80 - 120	102	80 - 120	<3.0	ug/L				
6261811	Total Antimony (Sb)	2019/08/01	99	80 - 120	98	80 - 120	<0.50	ug/L				
6261811	Total Arsenic (As)	2019/08/01	101	80 - 120	101	80 - 120	<0.10	ug/L				
6261811	Total Barium (Ba)	2019/08/01	98	80 - 120	98	80 - 120	<1.0	ug/L				
6261811	Total Beryllium (Be)	2019/08/01	100	80 - 120	100	80 - 120	<0.10	ug/L				
6261811	Total Bismuth (Bi)	2019/08/01	99	80 - 120	97	80 - 120	<1.0	ug/L				
6261811	Total Boron (B)	2019/08/01	94	80 - 120	94	80 - 120	<50	ug/L				
6261811	Total Cadmium (Cd)	2019/08/01	98	80 - 120	98	80 - 120	<0.010	ug/L				
6261811	Total Chromium (Cr)	2019/08/01	96	80 - 120	99	80 - 120	<1.0	ug/L				
6261811	Total Cobalt (Co)	2019/08/01	95	80 - 120	98	80 - 120	<0.20	ug/L				
6261811	Total Copper (Cu)	2019/08/01	95	80 - 120	98	80 - 120	<0.50	ug/L				
6261811	Total Iron (Fe)	2019/08/01	101	80 - 120	100	80 - 120	<10	ug/L				
6261811	Total Lead (Pb)	2019/08/01	102	80 - 120	101	80 - 120	<0.20	ug/L				
6261811	Total Lithium (Li)	2019/08/01	98	80 - 120	99	80 - 120	<2.0	ug/L				
6261811	Total Manganese (Mn)	2019/08/01	97	80 - 120	100	80 - 120	<1.0	ug/L				
6261811	Total Molybdenum (Mo)	2019/08/01	101	80 - 120	100	80 - 120	<1.0	ug/L				
6261811	Total Nickel (Ni)	2019/08/01	96	80 - 120	99	80 - 120	<1.0	ug/L				
6261811	Total Selenium (Se)	2019/08/01	101	80 - 120	100	80 - 120	<0.10	ug/L				
6261811	Total Silicon (Si)	2019/08/01	101	80 - 120	103	80 - 120	<100	ug/L				
6261811	Total Silver (Ag)	2019/08/01	99	80 - 120	100	80 - 120	<0.020	ug/L				
6261811	Total Strontium (Sr)	2019/08/01	100	80 - 120	100	80 - 120	<1.0	ug/L				
6261811	Total Thallium (Tl)	2019/08/01	101	80 - 120	99	80 - 120	<0.010	ug/L				
6261811	Total Tin (Sn)	2019/08/01	97	80 - 120	97	80 - 120	<5.0	ug/L				
6261811	Total Titanium (Ti)	2019/08/01	98	80 - 120	103	80 - 120	<5.0	ug/L				
6261811	Total Uranium (U)	2019/08/01	100	80 - 120	99	80 - 120	<0.10	ug/L				



BV Labs Job #: B9K9242
Report Date: 2019/08/09

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6261811	Total Vanadium (V)	2019/08/01	97	80 - 120	99	80 - 120	<5.0	ug/L				
6261811	Total Zinc (Zn)	2019/08/01	99	80 - 120	100	80 - 120	<5.0	ug/L				
6261811	Total Zirconium (Zr)	2019/08/01	102	80 - 120	102	80 - 120	<0.10	ug/L				
6261814	Dissolved Aluminum (Al)	2019/08/01	99	80 - 120	106	80 - 120	<3.0	ug/L				
6261814	Dissolved Antimony (Sb)	2019/08/01	98	80 - 120	99	80 - 120	<0.50	ug/L				
6261814	Dissolved Arsenic (As)	2019/08/01	103	80 - 120	103	80 - 120	<0.10	ug/L				
6261814	Dissolved Barium (Ba)	2019/08/01	96	80 - 120	101	80 - 120	<1.0	ug/L				
6261814	Dissolved Beryllium (Be)	2019/08/01	98	80 - 120	104	80 - 120	<0.10	ug/L				
6261814	Dissolved Bismuth (Bi)	2019/08/01	94	80 - 120	103	80 - 120	<1.0	ug/L				
6261814	Dissolved Boron (B)	2019/08/01	94	80 - 120	101	80 - 120	<50	ug/L				
6261814	Dissolved Cadmium (Cd)	2019/08/01	94	80 - 120	99	80 - 120	<0.010	ug/L				
6261814	Dissolved Chromium (Cr)	2019/08/01	94	80 - 120	99	80 - 120	<1.0	ug/L				
6261814	Dissolved Cobalt (Co)	2019/08/01	93	80 - 120	100	80 - 120	<0.20	ug/L				
6261814	Dissolved Copper (Cu)	2019/08/01	89	80 - 120	98	80 - 120	<0.20	ug/L				
6261814	Dissolved Iron (Fe)	2019/08/01	95	80 - 120	104	80 - 120	<5.0	ug/L				
6261814	Dissolved Lead (Pb)	2019/08/01	99	80 - 120	105	80 - 120	<0.20	ug/L				
6261814	Dissolved Lithium (Li)	2019/08/01	99	80 - 120	106	80 - 120	<2.0	ug/L				
6261814	Dissolved Manganese (Mn)	2019/08/01	93	80 - 120	99	80 - 120	<1.0	ug/L				
6261814	Dissolved Molybdenum (Mo)	2019/08/01	103	80 - 120	101	80 - 120	<1.0	ug/L				
6261814	Dissolved Nickel (Ni)	2019/08/01	90	80 - 120	99	80 - 120	<1.0	ug/L				
6261814	Dissolved Selenium (Se)	2019/08/01	100	80 - 120	102	80 - 120	<0.10	ug/L				
6261814	Dissolved Silicon (Si)	2019/08/01	NC	80 - 120	106	80 - 120	<100	ug/L				
6261814	Dissolved Silver (Ag)	2019/08/01	95	80 - 120	101	80 - 120	<0.020	ug/L				
6261814	Dissolved Strontium (Sr)	2019/08/01	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6261814	Dissolved Thallium (Tl)	2019/08/01	98	80 - 120	104	80 - 120	<0.010	ug/L				
6261814	Dissolved Tin (Sn)	2019/08/01	97	80 - 120	100	80 - 120	<5.0	ug/L				
6261814	Dissolved Titanium (Ti)	2019/08/01	98	80 - 120	101	80 - 120	<5.0	ug/L				
6261814	Dissolved Uranium (U)	2019/08/01	102	80 - 120	104	80 - 120	<0.10	ug/L				
6261814	Dissolved Vanadium (V)	2019/08/01	99	80 - 120	104	80 - 120	<5.0	ug/L				
6261814	Dissolved Zinc (Zn)	2019/08/01	92	80 - 120	101	80 - 120	<5.0	ug/L				
6261814	Dissolved Zirconium (Zr)	2019/08/01	103	80 - 120	101	80 - 120	<0.10	ug/L				
6264906	Reactive Silica (SiO2)	2019/08/01	102	80 - 120	102	80 - 120	<0.050	mg/L				



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VERITAS

BV Labs Job #: B9K9242

Report Date: 2019/08/09

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6264907	Free Cyanide (CN)	2019/08/02	92	80 - 120	96	80 - 120	<1.0	ug/L				

N/A = Not Applicable

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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VERITAS

BV Labs Job #: B9K9242
Report Date: 2019/08/09

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Harry (Peng) Liang, Senior Analyst

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

BV Labs 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

BV Labs Job #: B9K9242

Report Date: 2019/08/09

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: LH

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site Location: MELIADINE
 Your C.O.C. #: n/a

Attention: Reporting

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

Report Date: 2019/08/22
 Report #: R5850075
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9M0110

Received: 2019/08/08, 13:00

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/08/12	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/08/13	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	1	2019/08/10	2019/08/15	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry (1)	1	N/A	2019/08/13	CAM SOP-00463	SM 4500-Cl E m
Conductivity (1)	1	N/A	2019/08/12	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/08/12	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/08/12	2019/08/12	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/08/12	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/08/09	2019/08/09	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2019/08/13	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	1	2019/08/14	2019/08/15	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	1	2019/08/12	2019/08/12	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/08/12	2019/08/12	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	1	N/A	2019/08/15	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/08/14	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/08/14	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/08/13	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/08/09	2019/08/15	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/08/14	2019/08/14	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/08/19	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/08/11	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/08/10	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/08/10	2019/08/12	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/08/12	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/08/20	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/08/12	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/08/10	2019/08/12	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/08/10	2019/08/12	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/08/13	CAM SOP-00446	SM 23 5310B m



Your P.O. #: OL-762849
Site Location: MELIADINE
Your C.O.C. #: n/a

Attention: Reporting

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

Report Date: 2019/08/22
Report #: R5850075
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9M0110

Received: 2019/08/08, 13:00

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Reference
	Quantity	Extracted			
Total Phosphorus (Colourimetric) (1)	1	2019/08/13	2019/08/13	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/08/10	2019/08/12	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/08/09	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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

(7) "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).



Your P.O. #: OL-762849
Site Location: MELIADINE
Your C.O.C. #: n/a

Attention: Reporting

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

Report Date: 2019/08/22
Report #: R5850075
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9M0110

Received: 2019/08/08, 13:00

- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
22 Aug 2019 16:56:37

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

BV Labs 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

BV Labs Job #: B9M0110

Report Date: 2019/08/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KMB124		
Sampling Date		2019/08/06 07:00		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	6274866
Toluene	ug/L	<0.20	0.20	6274866
Ethylbenzene	ug/L	<0.20	0.20	6274866
o-Xylene	ug/L	<0.20	0.20	6274866
p+m-Xylene	ug/L	<0.40	0.40	6274866
Total Xylenes	ug/L	<0.40	0.40	6274866
F1 (C6-C10)	ug/L	<25	25	6274866
F1 (C6-C10) - BTEX	ug/L	<25	25	6274866
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	6280830
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	6280830
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	6280830
Reached Baseline at C50	ug/L	Yes		6280830
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	100		6274866
4-Bromofluorobenzene	%	96		6274866
D10-Ethylbenzene	%	99		6274866
D4-1,2-Dichloroethane	%	99		6274866
o-Terphenyl	%	109		6280830
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9M0110

Report Date: 2019/08/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KMB124		
Sampling Date		2019/08/06 07:00		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	234	0.50	6279884
Metals				
Dissolved Aluminum (Al)	ug/L	27.2	3.0	6279919
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	6279919
Dissolved Arsenic (As)	ug/L	0.87	0.10	6279919
Dissolved Barium (Ba)	ug/L	38.9	1.0	6279919
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	6279919
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	6279919
Dissolved Boron (B)	ug/L	406	50	6279919
Dissolved Cadmium (Cd)	ug/L	0.018	0.010	6279919
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	6279919
Dissolved Cobalt (Co)	ug/L	0.35	0.20	6279919
Dissolved Copper (Cu)	ug/L	0.67	0.20	6279919
Dissolved Iron (Fe)	ug/L	152	5.0	6279919
Dissolved Lead (Pb)	ug/L	<0.20	0.20	6279919
Dissolved Lithium (Li)	ug/L	57.1	2.0	6279919
Dissolved Manganese (Mn)	ug/L	10.5	1.0	6279919
Dissolved Molybdenum (Mo)	ug/L	6.1 (1)	1.0	6279919
Dissolved Nickel (Ni)	ug/L	2.3	1.0	6279919
Dissolved Selenium (Se)	ug/L	<0.10	0.10	6279919
Dissolved Silicon (Si)	ug/L	256	100	6279919
Dissolved Silver (Ag)	ug/L	<0.020	0.020	6279919
Dissolved Strontium (Sr)	ug/L	1290	1.0	6279919
Dissolved Thallium (Tl)	ug/L	0.024	0.010	6279919
Dissolved Tin (Sn)	ug/L	<5.0	5.0	6279919
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	6279919
Dissolved Uranium (U)	ug/L	0.17	0.10	6279919
Dissolved Vanadium (V)	ug/L	<5.0	5.0	6279919
Dissolved Zinc (Zn)	ug/L	7.5	5.0	6279919
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				
(1) Dissolved greater than total. Reanalysis yields similar results.				



BUREAU
VERITAS

BV Labs Job #: B9M0110

Report Date: 2019/08/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KMB124		
Sampling Date		2019/08/06 07:00		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	6279919
Dissolved Calcium (Ca)	mg/L	66.2	0.050	6279885
Dissolved Magnesium (Mg)	mg/L	16.7	0.050	6279885
Dissolved Potassium (K)	mg/L	11.7	0.050	6279885
Dissolved Sodium (Na)	mg/L	162	0.050	6279885
Dissolved Sulphur (S)	mg/L	15.9	3.0	6279885
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9M0110

Report Date: 2019/08/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KMB124		
Sampling Date		2019/08/06 07:00		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	67.4	3.0	6282265
Total Antimony (Sb)	ug/L	<0.50	0.50	6282265
Total Arsenic (As)	ug/L	0.90	0.10	6282265
Total Barium (Ba)	ug/L	37.8	1.0	6282265
Total Beryllium (Be)	ug/L	<0.10	0.10	6282265
Total Bismuth (Bi)	ug/L	<1.0	1.0	6282265
Total Boron (B)	ug/L	392	50	6282265
Total Cadmium (Cd)	ug/L	0.012	0.010	6282265
Total Chromium (Cr)	ug/L	<1.0	1.0	6282265
Total Cobalt (Co)	ug/L	0.34	0.20	6282265
Total Copper (Cu)	ug/L	0.62	0.50	6282265
Total Iron (Fe)	ug/L	133	10	6282265
Total Lead (Pb)	ug/L	<0.20	0.20	6282265
Total Lithium (Li)	ug/L	55.7	2.0	6282265
Total Manganese (Mn)	ug/L	9.3	1.0	6282265
Total Molybdenum (Mo)	ug/L	<1.0	1.0	6282265
Total Nickel (Ni)	ug/L	2.2	1.0	6282265
Total Selenium (Se)	ug/L	<0.10	0.10	6282265
Total Silicon (Si)	ug/L	238	100	6282265
Total Silver (Ag)	ug/L	<0.020	0.020	6282265
Total Strontium (Sr)	ug/L	1370	1.0	6282265
Total Thallium (Tl)	ug/L	0.023	0.010	6282265
Total Tin (Sn)	ug/L	<5.0	5.0	6282265
Total Titanium (Ti)	ug/L	<5.0	5.0	6282265
Total Uranium (U)	ug/L	0.18	0.10	6282265
Total Vanadium (V)	ug/L	<5.0	5.0	6282265
Total Zinc (Zn)	ug/L	5.5	5.0	6282265
Total Zirconium (Zr)	ug/L	<0.10	0.10	6282265
Total Calcium (Ca)	ug/L	64900	50	6279888
Total Magnesium (Mg)	ug/L	17000	50	6279888
Total Potassium (K)	ug/L	10500	50	6279888
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9M0110

Report Date: 2019/08/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KMB124		
Sampling Date		2019/08/06 07:00		
COC Number		n/a		
	UNITS	MEL-14	RDL	QC Batch
Total Sodium (Na)	ug/L	161000	50	6279888
Total Sulphur (S)	ug/L	14300	3000	6279888
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	232000	500	6279887
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9M0110
Report Date: 2019/08/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

RESULTS OF ANALYSES OF WATER

BV Labs ID		KMB124			KMB124		
Sampling Date		2019/08/06 07:00			2019/08/06 07:00		
COC Number		n/a			n/a		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	18	1.0	6271553			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6271553			
Inorganics							
Total Ammonia-N	mg/L	3.8	0.050	6273700			
Total BOD	mg/L	<2	2	6273484			
Conductivity	umho/cm	1500	1.0	6273649			
Free Cyanide (CN)	ug/L	1.1 (1)	1.0	6287071			
Total Dissolved Solids	mg/L	1070	10	6273820			
Total Kjeldahl Nitrogen (TKN)	mg/L	4.1	0.50	6273722			
Dissolved Organic Carbon	mg/L	2.8	0.50	6272050			
Total Organic Carbon (TOC)	mg/L	3.3	0.50	6273778	3.3	0.50	6273778
Orthophosphate (P)	mg/L	<0.010	0.010	6273680			
Dissolved Oxygen	mg/L	10.3		6272775	10.3		6272775
pH	pH	7.26		6273650			
Total Phosphorus	mg/L	<0.020	0.020	6276548			
Reactive Silica (SiO ₂)	mg/L	0.43	0.050	6287991	0.43	0.050	6287991
Total Suspended Solids	mg/L	2	1	6273615			
Dissolved Sulphate (SO ₄)	mg/L	39	1.0	6273683			
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6275414			
Turbidity	NTU	0.3	0.1	6272761			
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6275429			
Alkalinity (Total as CaCO ₃)	mg/L	18	1.0	6273647			
Dissolved Chloride (Cl ⁻)	mg/L	370	4.0	6273684			
Nitrite (N)	mg/L	0.573	0.010	6272497			
Nitrate (N)	mg/L	13.6	0.10	6272497			
Nitrate + Nitrite (N)	mg/L	14.2	0.10	6272497			
RADIONUCLIDE							
Radium-226	Bq/L	<0.0050	0.0050	6276644	<0.0050	0.0050	6276644
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W							



BUREAU
VERITAS

BV Labs Job #: B9M0110

Report Date: 2019/08/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KMB124			KMB124		
Sampling Date		2019/08/06 07:00			2019/08/06 07:00		
COC Number		n/a			n/a		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Metals							
Mercury (Hg)	mg/L	<0.00001	0.00001	6274885			
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6274533	<0.00001	0.00001	6274533
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							



BV Labs Job #: B9M0110
Report Date: 2019/08/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: KMB124
Sample ID: MEL-14
Matrix: Water

Collected: 2019/08/06
Shipped:
Received: 2019/08/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6273647	N/A	2019/08/12	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6271553	N/A	2019/08/13	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6273484	2019/08/10	2019/08/15	Hinal Shah
Chloride by Automated Colourimetry	KONE	6273684	N/A	2019/08/13	Alina Dobreanu
Conductivity	AT	6273649	N/A	2019/08/12	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6275429	N/A	2019/08/12	Barbara Kalbasi Esfahani
Total Cyanide	SKAL/CN	6275414	2019/08/12	2019/08/12	Barbara Kalbasi Esfahani
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6272050	N/A	2019/08/12	Mandeep Kaur
Dissolved Oxygen	DO	6272775	2019/08/09	2019/08/09	Prakash Piya
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6274866	N/A	2019/08/13	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6280830	2019/08/14	2019/08/15	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6274533	2019/08/12	2019/08/12	Ron Morrison
Mercury (low level)	CV/AA	6274885	2019/08/12	2019/08/12	Ron Morrison
Cyanide (Free)	SPEC	6287071	2019/08/15	2019/08/15	Taylor Mullings
Hardness Total (calculated as CaCO3)	CALC	6279887	N/A	2019/08/15	Automated Statchk
Hardness (calculated as CaCO3)	CALC	6279884	N/A	2019/08/14	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6279885	N/A	2019/08/14	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6279919	N/A	2019/08/13	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6279888	2019/08/15	2019/08/15	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6282265	2019/08/14	2019/08/14	Andrew An
Silica (Reactive)	KONE	6287991	N/A	2019/08/19	Zafar Iqbal
Total Ammonia-N	LACH/NH4	6273700	N/A	2019/08/11	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	6272497	N/A	2019/08/10	Amanpreet Sappal
pH	AT	6273650	2019/08/10	2019/08/12	Surinder Rai
Orthophosphate	KONE	6273680	N/A	2019/08/12	Alina Dobreanu
Radium-226 Low Level	AS	6276644	N/A	2019/08/20	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6273683	N/A	2019/08/12	Alina Dobreanu
Total Dissolved Solids	BAL	6273820	2019/08/10	2019/08/12	Nilam Borole
Total Kjeldahl Nitrogen in Water	SKAL	6273722	2019/08/10	2019/08/12	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6273778	N/A	2019/08/13	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6276548	2019/08/13	2019/08/13	Nimarta Singh
Low Level Total Suspended Solids	BAL	6273615	2019/08/10	2019/08/12	Nilam Borole
Turbidity	AT	6272761	N/A	2019/08/09	Kazzandra Adeva

BV Labs ID: KMB124 Dup
Sample ID: MEL-14
Matrix: Water

Collected: 2019/08/06
Shipped:
Received: 2019/08/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Oxygen	DO	6272775	2019/08/09	2019/08/09	Prakash Piya
Dissolved Mercury (low level)	CV/AA	6274533	2019/08/12	2019/08/12	Ron Morrison
Silica (Reactive)	KONE	6287991	N/A	2019/08/19	Zafar Iqbal
Radium-226 Low Level	AS	6276644	N/A	2019/08/21	Priya Sharma
Total Organic Carbon (TOC)	TOCV/NDIR	6273778	N/A	2019/08/13	Mandeep Kaur



BUREAU
VERITAS

BV Labs Job #: B9M0110

Report Date: 2019/08/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

GENERAL COMMENTS

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

Package 1	14.3°C

Sample KMB124 [MEL-14] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Matrix Spike Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

Results relate only to the items tested.



BV Labs Job #: B9M0110
Report Date: 2019/08/22

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6274866	1,4-Difluorobenzene	2019/08/12	99	70 - 130	101	70 - 130	102	%				
6274866	4-Bromofluorobenzene	2019/08/12	99	70 - 130	98	70 - 130	95	%				
6274866	D10-Ethylbenzene	2019/08/12	105	70 - 130	106	70 - 130	103	%				
6274866	D4-1,2-Dichloroethane	2019/08/12	99	70 - 130	101	70 - 130	103	%				
6280830	o-Terphenyl	2019/08/15	110	60 - 130	111	60 - 130	104	%				
6272050	Dissolved Organic Carbon	2019/08/12	90	80 - 120	99	80 - 120	<0.50	mg/L	NC	20		
6272497	Nitrate (N)	2019/08/10	109	80 - 120	107	80 - 120	<0.10	mg/L	NC	20		
6272497	Nitrite (N)	2019/08/10	106	80 - 120	108	80 - 120	<0.010	mg/L				
6272761	Turbidity	2019/08/09			95	85 - 115	<0.1	NTU	15	20		
6273484	Total BOD	2019/08/15					<2	mg/L	NC	30	98	80 - 120
6273615	Total Suspended Solids	2019/08/12					<1	mg/L	11	25	97	85 - 115
6273647	Alkalinity (Total as CaCO3)	2019/08/12			94	85 - 115	<1.0	mg/L	0.27	20		
6273649	Conductivity	2019/08/12			101	85 - 115	<1.0	umho/cm	0.38	25		
6273650	pH	2019/08/12			102	98 - 103			0.11	N/A		
6273680	Orthophosphate (P)	2019/08/12	NC	75 - 125	99	80 - 120	<0.010	mg/L	0.83	25		
6273683	Dissolved Sulphate (SO4)	2019/08/12	NC	75 - 125	107	80 - 120	<1.0	mg/L	0.54	20		
6273684	Dissolved Chloride (Cl-)	2019/08/13	NC	80 - 120	106	80 - 120	<1.0	mg/L	1.3	20		
6273700	Total Ammonia-N	2019/08/11	99	75 - 125	100	80 - 120	<0.050	mg/L	2.7	20		
6273722	Total Kjeldahl Nitrogen (TKN)	2019/08/12	103	80 - 120	104	80 - 120	<0.10	mg/L	20	20	107	80 - 120
6273778	Total Organic Carbon (TOC)	2019/08/13	93	80 - 120	94	80 - 120	<0.50	mg/L	0.67	20		
6273820	Total Dissolved Solids	2019/08/12					<10	mg/L	0	25	100	90 - 110
6274533	Dissolved Mercury (Hg)	2019/08/12	107	75 - 125	106	80 - 120	<0.00001	mg/L	NC	20		
6274866	Benzene	2019/08/12	107	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
6274866	Ethylbenzene	2019/08/12	97	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
6274866	F1 (C6-C10) - BTEX	2019/08/12					<25	ug/L	NC	30		
6274866	F1 (C6-C10)	2019/08/12	93	70 - 130	99	70 - 130	<25	ug/L	NC	30		
6274866	o-Xylene	2019/08/12	95	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
6274866	p+m-Xylene	2019/08/12	96	70 - 130	99	70 - 130	<0.40	ug/L	NC	30		
6274866	Toluene	2019/08/12	96	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
6274866	Total Xylenes	2019/08/12					<0.40	ug/L	NC	30		
6274885	Mercury (Hg)	2019/08/12	105	75 - 125	105	80 - 120	<0.00001	mg/L	NC	20		



BV Labs Job #: B9M0110
Report Date: 2019/08/22

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6275414	Total Cyanide (CN)	2019/08/12	75 (1)	80 - 120	101	80 - 120	<0.0050	mg/L	8.7	20		
6275429	WAD Cyanide (Free)	2019/08/12	70 (1)	80 - 120	99	80 - 120	<0.0010	mg/L	12	20		
6276548	Total Phosphorus	2019/08/13	101	80 - 120	100	80 - 120	<0.020	mg/L	0.38	20	100	80 - 120
6276644	Radium-226	2019/08/21			90	85 - 115	<0.0050	Bq/L	NC	N/A		
6279919	Dissolved Aluminum (Al)	2019/08/13	96	80 - 120	97	80 - 120	<3.0	ug/L				
6279919	Dissolved Antimony (Sb)	2019/08/13	98	80 - 120	94	80 - 120	<0.50	ug/L				
6279919	Dissolved Arsenic (As)	2019/08/13	100	80 - 120	100	80 - 120	<0.10	ug/L				
6279919	Dissolved Barium (Ba)	2019/08/13	94	80 - 120	96	80 - 120	<1.0	ug/L				
6279919	Dissolved Beryllium (Be)	2019/08/13	95	80 - 120	96	80 - 120	<0.10	ug/L				
6279919	Dissolved Bismuth (Bi)	2019/08/13	90	80 - 120	100	80 - 120	<1.0	ug/L				
6279919	Dissolved Boron (B)	2019/08/13	106	80 - 120	99	80 - 120	<50	ug/L				
6279919	Dissolved Cadmium (Cd)	2019/08/13	94	80 - 120	98	80 - 120	<0.010	ug/L				
6279919	Dissolved Chromium (Cr)	2019/08/13	93	80 - 120	99	80 - 120	<1.0	ug/L				
6279919	Dissolved Cobalt (Co)	2019/08/13	91	80 - 120	97	80 - 120	<0.20	ug/L				
6279919	Dissolved Copper (Cu)	2019/08/13	86	80 - 120	95	80 - 120	<0.20	ug/L				
6279919	Dissolved Iron (Fe)	2019/08/13	NC	80 - 120	100	80 - 120	<5.0	ug/L				
6279919	Dissolved Lead (Pb)	2019/08/13	91	80 - 120	100	80 - 120	<0.20	ug/L				
6279919	Dissolved Lithium (Li)	2019/08/13	NC	80 - 120	96	80 - 120	<2.0	ug/L				
6279919	Dissolved Manganese (Mn)	2019/08/13	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6279919	Dissolved Molybdenum (Mo)	2019/08/13	99	80 - 120	100	80 - 120	<1.0	ug/L				
6279919	Dissolved Nickel (Ni)	2019/08/13	87	80 - 120	97	80 - 120	<1.0	ug/L				
6279919	Dissolved Selenium (Se)	2019/08/13	99	80 - 120	96	80 - 120	<0.10	ug/L				
6279919	Dissolved Silicon (Si)	2019/08/13	NC	80 - 120	105	80 - 120	<100	ug/L				
6279919	Dissolved Silver (Ag)	2019/08/13	84	80 - 120	99	80 - 120	<0.020	ug/L				
6279919	Dissolved Strontium (Sr)	2019/08/13	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6279919	Dissolved Thallium (Tl)	2019/08/13	93	80 - 120	100	80 - 120	<0.010	ug/L				
6279919	Dissolved Tin (Sn)	2019/08/13	96	80 - 120	99	80 - 120	<5.0	ug/L				
6279919	Dissolved Titanium (Ti)	2019/08/13	93	80 - 120	99	80 - 120	<5.0	ug/L				
6279919	Dissolved Uranium (U)	2019/08/13	101	80 - 120	103	80 - 120	<0.10	ug/L				
6279919	Dissolved Vanadium (V)	2019/08/13	96	80 - 120	99	80 - 120	<5.0	ug/L				
6279919	Dissolved Zinc (Zn)	2019/08/13	96	80 - 120	98	80 - 120	<5.0	ug/L				
6279919	Dissolved Zirconium (Zr)	2019/08/13	97	80 - 120	104	80 - 120	<0.10	ug/L				



BV Labs Job #: B9M0110
Report Date: 2019/08/22

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6280830	F2 (C10-C16 Hydrocarbons)	2019/08/15	109	50 - 130	107	60 - 130	<100	ug/L	NC	30		
6280830	F3 (C16-C34 Hydrocarbons)	2019/08/15	103	50 - 130	102	60 - 130	<200	ug/L	NC	30		
6280830	F4 (C34-C50 Hydrocarbons)	2019/08/15	104	50 - 130	103	60 - 130	<200	ug/L	NC	30		
6282265	Total Aluminum (Al)	2019/08/14	101	80 - 120	98	80 - 120	<3.0	ug/L				
6282265	Total Antimony (Sb)	2019/08/14	102	80 - 120	100	80 - 120	<0.50	ug/L				
6282265	Total Arsenic (As)	2019/08/14	105	80 - 120	100	80 - 120	<0.10	ug/L				
6282265	Total Barium (Ba)	2019/08/14	101	80 - 120	99	80 - 120	<1.0	ug/L				
6282265	Total Beryllium (Be)	2019/08/14	100	80 - 120	98	80 - 120	<0.10	ug/L				
6282265	Total Bismuth (Bi)	2019/08/14	101	80 - 120	101	80 - 120	<1.0	ug/L				
6282265	Total Boron (B)	2019/08/14	109	80 - 120	106	80 - 120	<50	ug/L				
6282265	Total Cadmium (Cd)	2019/08/14	102	80 - 120	101	80 - 120	<0.010	ug/L				
6282265	Total Chromium (Cr)	2019/08/14	97	80 - 120	97	80 - 120	<1.0	ug/L				
6282265	Total Cobalt (Co)	2019/08/14	96	80 - 120	95	80 - 120	<0.20	ug/L				
6282265	Total Copper (Cu)	2019/08/14	96	80 - 120	97	80 - 120	<0.50	ug/L				
6282265	Total Iron (Fe)	2019/08/14	102	80 - 120	101	80 - 120	<10	ug/L				
6282265	Total Lead (Pb)	2019/08/14	104	80 - 120	103	80 - 120	<0.20	ug/L				
6282265	Total Lithium (Li)	2019/08/14	99	80 - 120	100	80 - 120	<2.0	ug/L				
6282265	Total Manganese (Mn)	2019/08/14	99	80 - 120	98	80 - 120	<1.0	ug/L				
6282265	Total Molybdenum (Mo)	2019/08/14	105	80 - 120	98	80 - 120	<1.0	ug/L				
6282265	Total Nickel (Ni)	2019/08/14	99	80 - 120	99	80 - 120	<1.0	ug/L				
6282265	Total Selenium (Se)	2019/08/14	105	80 - 120	101	80 - 120	<0.10	ug/L				
6282265	Total Silicon (Si)	2019/08/14	104	80 - 120	102	80 - 120	<100	ug/L				
6282265	Total Silver (Ag)	2019/08/14	101	80 - 120	100	80 - 120	<0.020	ug/L				
6282265	Total Strontium (Sr)	2019/08/14	NC	80 - 120	96	80 - 120	<1.0	ug/L				
6282265	Total Thallium (Tl)	2019/08/14	102	80 - 120	103	80 - 120	<0.010	ug/L				
6282265	Total Tin (Sn)	2019/08/14	105	80 - 120	103	80 - 120	<5.0	ug/L				
6282265	Total Titanium (Ti)	2019/08/14	102	80 - 120	97	80 - 120	<5.0	ug/L				
6282265	Total Uranium (U)	2019/08/14	105	80 - 120	103	80 - 120	<0.10	ug/L				
6282265	Total Vanadium (V)	2019/08/14	101	80 - 120	98	80 - 120	<5.0	ug/L				
6282265	Total Zinc (Zn)	2019/08/14	98	80 - 120	99	80 - 120	<5.0	ug/L				
6282265	Total Zirconium (Zr)	2019/08/14	105	80 - 120	99	80 - 120	<0.10	ug/L				
6287071	Free Cyanide (CN)	2019/08/15	94	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		



BV Labs Job #: B9M0110
Report Date: 2019/08/22

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6287991	Reactive Silica (SiO ₂)	2019/08/19	105	80 - 120	98	80 - 120	<0.050	mg/L	0.63	20		

N/A = Not Applicable

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 $\leq$ 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9M0110

Report Date: 2019/08/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Robert Allen, Scientific Specialist

Rob Reinert, B.Sc., Scientific Specialist

BV Labs 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

BV Labs Job #: B9M0110

Report Date: 2019/08/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site#: 63°02'15.5" 92°13'06.3"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/15
 Report #: R5840328
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9L2327

Received: 2019/08/01, 10:00

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/08/08	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/08/08	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	1	2019/08/02	2019/08/07	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry (1)	1	N/A	2019/08/06	CAM SOP-00463	SM 4500-Cl E m
Conductivity (1)	1	N/A	2019/08/08	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/08/07	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/08/07	2019/08/07	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/08/02	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/08/02	2019/08/02	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2019/08/07	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	1	2019/08/08	2019/08/08	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	1	2019/08/06	2019/08/06	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/08/06	2019/08/06	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	1	N/A	2019/08/08	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/08/07	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/08/07	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/08/06	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/08/01	2019/08/08	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/08/06	2019/08/07	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/08/06	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/08/04	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/08/04	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/08/02	2019/08/08	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/08/06	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/08/13	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/08/06	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/08/03	2019/08/06	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/08/03	2019/08/07	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/08/07	CAM SOP-00446	SM 23 5310B m



Your P.O. #: OL-762849
Site#: 63°02'15.5" 92°13'06.3"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/15
Report #: R5840328
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9L2327

Received: 2019/08/01, 10:00

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Reference
	Quantity	Extracted			
Total Phosphorus (Colourimetric) (1)	1	2019/08/07	2019/08/07	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/08/02	2019/08/03	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/08/02	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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

(7) "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).



Your P.O. #: OL-762849
Site#: 63°02'15.5" 92°13'06.3"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/15
Report #: R5840328
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9L2327

Received: 2019/08/01, 10:00

- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
15 Aug 2019 14:53:57

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B9L2327

Report Date: 2019/08/15

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: LH

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KKL595		
Sampling Date		2019/07/30 06:30		
	UNITS	MEL-14	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	6268184
Toluene	ug/L	<0.20	0.20	6268184
Ethylbenzene	ug/L	<0.20	0.20	6268184
o-Xylene	ug/L	<0.20	0.20	6268184
p+m-Xylene	ug/L	<0.40	0.40	6268184
Total Xylenes	ug/L	<0.40	0.40	6268184
F1 (C6-C10)	ug/L	<25	25	6268184
F1 (C6-C10) - BTEX	ug/L	<25	25	6268184
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	6269023
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	6269023
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	6269023
Reached Baseline at C50	ug/L	Yes		6269023
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	98		6268184
4-Bromofluorobenzene	%	99		6268184
D10-Ethylbenzene	%	104		6268184
D4-1,2-Dichloroethane	%	95		6268184
o-Terphenyl	%	98		6269023
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9L2327
Report Date: 2019/08/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KKL595		
Sampling Date		2019/07/30 06:30		
	UNITS	MEL-14	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	266	0.50	6269878
Metals				
Dissolved Aluminum (Al)	ug/L	24.3	3.0	6269880
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	6269880
Dissolved Arsenic (As)	ug/L	0.96	0.10	6269880
Dissolved Barium (Ba)	ug/L	36.9	1.0	6269880
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	6269880
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	6269880
Dissolved Boron (B)	ug/L	361	50	6269880
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	6269880
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	6269880
Dissolved Cobalt (Co)	ug/L	<0.20	0.20	6269880
Dissolved Copper (Cu)	ug/L	<0.20	0.20	6269880
Dissolved Iron (Fe)	ug/L	9.8	5.0	6269880
Dissolved Lead (Pb)	ug/L	<0.20	0.20	6269880
Dissolved Lithium (Li)	ug/L	67.4	2.0	6269880
Dissolved Manganese (Mn)	ug/L	53.1	1.0	6269880
Dissolved Molybdenum (Mo)	ug/L	<1.0	1.0	6269880
Dissolved Nickel (Ni)	ug/L	1.4	1.0	6269880
Dissolved Selenium (Se)	ug/L	<0.10	0.10	6269880
Dissolved Silicon (Si)	ug/L	211	100	6269880
Dissolved Silver (Ag)	ug/L	<0.020	0.020	6269880
Dissolved Strontium (Sr)	ug/L	1500	1.0	6269880
Dissolved Thallium (Tl)	ug/L	0.013	0.010	6269880
Dissolved Tin (Sn)	ug/L	<5.0	5.0	6269880
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	6269880
Dissolved Uranium (U)	ug/L	0.11	0.10	6269880
Dissolved Vanadium (V)	ug/L	<5.0	5.0	6269880
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	6269880
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	6269880
Dissolved Calcium (Ca)	mg/L	73.4	0.050	6269879
Dissolved Magnesium (Mg)	mg/L	20.1	0.050	6269879
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9L2327

Report Date: 2019/08/15

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: LH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KKL595		
Sampling Date		2019/07/30 06:30		
	UNITS	MEL-14	RDL	QC Batch
Dissolved Potassium (K)	mg/L	12.5	0.050	6269879
Dissolved Sodium (Na)	mg/L	179	0.050	6269879
Dissolved Sulphur (S)	mg/L	18.4	3.0	6269879
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9L2327
Report Date: 2019/08/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KKL595		
Sampling Date		2019/07/30 06:30		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	73.4	3.0	6269882
Total Antimony (Sb)	ug/L	<0.50	0.50	6269882
Total Arsenic (As)	ug/L	1.13	0.10	6269882
Total Barium (Ba)	ug/L	37.9	1.0	6269882
Total Beryllium (Be)	ug/L	<0.10	0.10	6269882
Total Bismuth (Bi)	ug/L	<1.0	1.0	6269882
Total Boron (B)	ug/L	363	50	6269882
Total Cadmium (Cd)	ug/L	<0.010	0.010	6269882
Total Chromium (Cr)	ug/L	<1.0	1.0	6269882
Total Cobalt (Co)	ug/L	0.24	0.20	6269882
Total Copper (Cu)	ug/L	<0.50	0.50	6269882
Total Iron (Fe)	ug/L	2370	10	6269882
Total Lead (Pb)	ug/L	<0.20	0.20	6269882
Total Lithium (Li)	ug/L	67.5	2.0	6269882
Total Manganese (Mn)	ug/L	64.8	1.0	6269882
Total Molybdenum (Mo)	ug/L	<1.0	1.0	6269882
Total Nickel (Ni)	ug/L	1.8	1.0	6269882
Total Selenium (Se)	ug/L	<0.10	0.10	6269882
Total Silicon (Si)	ug/L	214	100	6269882
Total Silver (Ag)	ug/L	<0.020	0.020	6269882
Total Strontium (Sr)	ug/L	1630	1.0	6269882
Total Thallium (Tl)	ug/L	0.013	0.010	6269882
Total Tin (Sn)	ug/L	<5.0	5.0	6269882
Total Titanium (Ti)	ug/L	<5.0	5.0	6269882
Total Uranium (U)	ug/L	0.13	0.10	6269882
Total Vanadium (V)	ug/L	<5.0	5.0	6269882
Total Zinc (Zn)	ug/L	6.6	5.0	6269882
Total Zirconium (Zr)	ug/L	<0.10	0.10	6269882
Total Calcium (Ca)	ug/L	71700	50	6269881
Total Magnesium (Mg)	ug/L	19700	50	6269881
Total Potassium (K)	ug/L	11600	50	6269881
Total Sodium (Na)	ug/L	179000	50	6269881
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9L2327
Report Date: 2019/08/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KKL595		
Sampling Date		2019/07/30 06:30		
	UNITS	MEL-14	RDL	QC Batch
Total Sulphur (S)	ug/L	16500	3000	6269881
Calculated Parameters				
Total Hardness (CaCO ₃)	ug/L	260000	500	6262591
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9L2327
Report Date: 2019/08/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

RESULTS OF ANALYSES OF WATER

BV Labs ID		KKL595		
Sampling Date		2019/07/30 06:30		
	UNITS	MEL-14	RDL	QC Batch
Calculated Parameters				
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	22	1.0	6259390
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6259390
Inorganics				
Total Ammonia-N	mg/L	5.6 (1)	0.050	6263453
Total BOD	mg/L	<2	2	6261400
Conductivity	umho/cm	1600	1.0	6261990
Free Cyanide (CN)	ug/L	1.4 (2)	1.0	6279656
Total Dissolved Solids	mg/L	1090	10	6263216
Total Kjeldahl Nitrogen (TKN)	mg/L	5.2 (1)	0.50	6263477
Dissolved Organic Carbon	mg/L	2.8	0.50	6261538
Total Organic Carbon (TOC)	mg/L	3.1	0.50	6263472
Orthophosphate (P)	mg/L	<0.010	0.010	6262862
Dissolved Oxygen	mg/L	10.4		6261875
pH	pH	7.47		6261998
Total Phosphorus	mg/L	<0.020	0.020	6266642
Reactive Silica (SiO ₂)	mg/L	0.42	0.050	6267406
Total Suspended Solids	mg/L	8	1	6262851
Dissolved Sulphate (SO ₄)	mg/L	44	1.0	6262860
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6266699
Turbidity	NTU	17	0.1	6260268
WAD Cyanide (Free)	mg/L	0.0010	0.0010	6266751
Alkalinity (Total as CaCO ₃)	mg/L	22	1.0	6261987
Dissolved Chloride (Cl ⁻)	mg/L	410	5.0	6262859
Nitrite (N)	mg/L	0.366	0.010	6263290
Nitrate (N)	mg/L	11.1	0.10	6263290
Nitrate + Nitrite (N)	mg/L	11.4	0.10	6263290
RADIONUCLIDE				
Radium-226	Bq/L	<0.0050	0.0050	6264949
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) TKN < NH ₄ : Both values fall within acceptable RPD limits for duplicates and are likely equivalent. (2) See general comments for notes regarding CNFREE-W				



BUREAU
VERITAS

BV Labs Job #: B9L2327
Report Date: 2019/08/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KKL595			KKL595		
Sampling Date		2019/07/30 06:30			2019/07/30 06:30		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Metals							
Mercury (Hg)	mg/L	<0.00001	0.00001	6264491			
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6264656	<0.00001	0.00001	6264656
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BV Labs Job #: B9L2327
Report Date: 2019/08/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

TEST SUMMARY

BV Labs ID: KKL595
Sample ID: MEL-14
Matrix: Water

Collected: 2019/07/30
Shipped:
Received: 2019/08/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6261987	N/A	2019/08/08	Neil Dassanayake
Carbonate, Bicarbonate and Hydroxide	CALC	6259390	N/A	2019/08/08	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6261400	2019/08/02	2019/08/07	Nusrat Naz
Chloride by Automated Colourimetry	KONE	6262859	N/A	2019/08/06	Alina Dobreanu
Conductivity	AT	6261990	N/A	2019/08/08	Neil Dassanayake
Free (WAD) Cyanide	SKAL/CN	6266751	N/A	2019/08/07	Gnana Thomas
Total Cyanide	SKAL/CN	6266699	2019/08/07	2019/08/07	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6261538	N/A	2019/08/02	Mandeep Kaur
Dissolved Oxygen	DO	6261875	2019/08/02	2019/08/02	Prakash Piya
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6268184	N/A	2019/08/07	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6269023	2019/08/08	2019/08/08	Anna Stuglik Rolland
Dissolved Mercury (low level)	CV/AA	6264656	2019/08/06	2019/08/06	Ron Morrison
Mercury (low level)	CV/AA	6264491	2019/08/06	2019/08/06	Ron Morrison
Cyanide (Free)	SPEC	6279656	2019/08/08	2019/08/08	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6262591	N/A	2019/08/08	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6269878	N/A	2019/08/07	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6269879	N/A	2019/08/07	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6269880	N/A	2019/08/06	John Choo
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6269881	2019/08/08	2019/08/08	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6269882	2019/08/06	2019/08/07	Andrew An
Silica (Reactive)	KONE	6267406	N/A	2019/08/06	Serena Tian
Total Ammonia-N	LACH/NH ₄	6263453	N/A	2019/08/04	Amanpreet Sappal
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6263290	N/A	2019/08/04	Amanpreet Sappal
pH	AT	6261998	2019/08/02	2019/08/08	Neil Dassanayake
Orthophosphate	KONE	6262862	N/A	2019/08/06	Alina Dobreanu
Radium-226 Low Level	AS	6264949	N/A	2019/08/13	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6262860	N/A	2019/08/06	Alina Dobreanu
Total Dissolved Solids	BAL	6263216	2019/08/03	2019/08/06	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6263477	2019/08/03	2019/08/07	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6263472	N/A	2019/08/07	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6266642	2019/08/07	2019/08/07	Nimarta Singh
Low Level Total Suspended Solids	BAL	6262851	2019/08/02	2019/08/03	Nilam Borole
Turbidity	AT	6260268	N/A	2019/08/02	Kazzandra Adeva

BV Labs ID: KKL595 Dup
Sample ID: MEL-14
Matrix: Water

Collected: 2019/07/30
Shipped:
Received: 2019/08/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury (low level)	CV/AA	6264656	2019/08/06	2019/08/06	Ron Morrison



GENERAL COMMENTS

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

Package 1	15.7°C

Sample KKL595 [MEL-14] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent. Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Total Cyanide < Free Cyanide: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



BV Labs Job #: B9L2327
Report Date: 2019/08/15

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6268184	1,4-Difluorobenzene	2019/08/07	101	70 - 130	100	70 - 130	98	%				
6268184	4-Bromofluorobenzene	2019/08/07	100	70 - 130	99	70 - 130	96	%				
6268184	D10-Ethylbenzene	2019/08/07	106	70 - 130	97	70 - 130	103	%				
6268184	D4-1,2-Dichloroethane	2019/08/07	98	70 - 130	103	70 - 130	100	%				
6269023	o-Terphenyl	2019/08/08	104	60 - 130	97	60 - 130	100	%				
6260268	Turbidity	2019/08/02			93	85 - 115	<0.1	NTU	NC	20		
6261400	Total BOD	2019/08/07					<2	mg/L	7.4	30	97	80 - 120
6261538	Dissolved Organic Carbon	2019/08/02	93	80 - 120	99	80 - 120	<0.50	mg/L	0.026	20		
6261987	Alkalinity (Total as CaCO3)	2019/08/08			99	85 - 115	<1.0	mg/L	0.92	20		
6261990	Conductivity	2019/08/08			100	85 - 115	<1.0	umho/cm	0.63	25		
6261998	pH	2019/08/08			102	98 - 103			0.23	N/A		
6262851	Total Suspended Solids	2019/08/03					<1	mg/L	15	25	102	85 - 115
6262859	Dissolved Chloride (Cl-)	2019/08/06	NC	80 - 120	104	80 - 120	<1.0	mg/L	1.6	20		
6262860	Dissolved Sulphate (SO4)	2019/08/06	NC	75 - 125	103	80 - 120	<1.0	mg/L	0.28	20		
6262862	Orthophosphate (P)	2019/08/06	97	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
6263216	Total Dissolved Solids	2019/08/06					<10	mg/L	0.88	25	102	90 - 110
6263290	Nitrate (N)	2019/08/04	81	80 - 120	100	80 - 120	<0.10	mg/L	1.1	20		
6263290	Nitrite (N)	2019/08/04	104	80 - 120	102	80 - 120	<0.010	mg/L				
6263453	Total Ammonia-N	2019/08/04	103	75 - 125	101	80 - 120	<0.050	mg/L	NC	20		
6263472	Total Organic Carbon (TOC)	2019/08/07	92	80 - 120	96	80 - 120	<0.50	mg/L	2.5	20		
6263477	Total Kjeldahl Nitrogen (TKN)	2019/08/07	98	80 - 120	103	80 - 120	<0.10	mg/L	13	20	94	80 - 120
6264491	Mercury (Hg)	2019/08/06	95	75 - 125	101	80 - 120	<0.00001	mg/L	NC	20		
6264656	Dissolved Mercury (Hg)	2019/08/06	99	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6264949	Radium-226	2019/08/13			91	85 - 115	<0.0050	Bq/L	8.7	N/A		
6266642	Total Phosphorus	2019/08/07	97	80 - 120	99	80 - 120	<0.020	mg/L	1.7	20	99	80 - 120
6266699	Total Cyanide (CN)	2019/08/07	100	80 - 120	102	80 - 120	<0.0050	mg/L	1.1	20		
6266751	WAD Cyanide (Free)	2019/08/07	99	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
6267406	Reactive Silica (SiO2)	2019/08/06	NC	80 - 120	102	80 - 120	<0.050	mg/L	0.78	20		
6268184	Benzene	2019/08/07	107	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
6268184	Ethylbenzene	2019/08/07	108	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
6268184	F1 (C6-C10) - BTEX	2019/08/07					<25	ug/L	NC	30		



BV Labs Job #: B9L2327
Report Date: 2019/08/15

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6268184	F1 (C6-C10)	2019/08/07	93	70 - 130	95	70 - 130	<25	ug/L	NC	30		
6268184	o-Xylene	2019/08/07	103	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
6268184	p+m-Xylene	2019/08/07	106	70 - 130	98	70 - 130	<0.40	ug/L	NC	30		
6268184	Toluene	2019/08/07	105	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
6268184	Total Xylenes	2019/08/07					<0.40	ug/L	NC	30		
6269023	F2 (C10-C16 Hydrocarbons)	2019/08/08	123	50 - 130	111	60 - 130	<100	ug/L	NC	30		
6269023	F3 (C16-C34 Hydrocarbons)	2019/08/08	114	50 - 130	109	60 - 130	<200	ug/L	NC	30		
6269023	F4 (C34-C50 Hydrocarbons)	2019/08/08	116	50 - 130	109	60 - 130	<200	ug/L	NC	30		
6269880	Dissolved Aluminum (Al)	2019/08/06	96	80 - 120	95	80 - 120	<3.0	ug/L				
6269880	Dissolved Antimony (Sb)	2019/08/06	106	80 - 120	99	80 - 120	<0.50	ug/L				
6269880	Dissolved Arsenic (As)	2019/08/06	101	80 - 120	103	80 - 120	<0.10	ug/L				
6269880	Dissolved Barium (Ba)	2019/08/06	NC	80 - 120	98	80 - 120	<1.0	ug/L				
6269880	Dissolved Beryllium (Be)	2019/08/06	94	80 - 120	97	80 - 120	<0.10	ug/L				
6269880	Dissolved Bismuth (Bi)	2019/08/06	100	80 - 120	104	80 - 120	<1.0	ug/L				
6269880	Dissolved Boron (B)	2019/08/06	100	80 - 120	102	80 - 120	<50	ug/L				
6269880	Dissolved Cadmium (Cd)	2019/08/06	99	80 - 120	97	80 - 120	<0.010	ug/L				
6269880	Dissolved Chromium (Cr)	2019/08/06	89	80 - 120	88	80 - 120	<1.0	ug/L				
6269880	Dissolved Cobalt (Co)	2019/08/06	84	80 - 120	87	80 - 120	<0.20	ug/L				
6269880	Dissolved Copper (Cu)	2019/08/06	82	80 - 120	86	80 - 120	<0.20	ug/L				
6269880	Dissolved Iron (Fe)	2019/08/06	96	80 - 120	96	80 - 120	<5.0	ug/L				
6269880	Dissolved Lead (Pb)	2019/08/06	103	80 - 120	102	80 - 120	<0.20	ug/L				
6269880	Dissolved Lithium (Li)	2019/08/06	95	80 - 120	100	80 - 120	<2.0	ug/L				
6269880	Dissolved Manganese (Mn)	2019/08/06	94	80 - 120	94	80 - 120	<1.0	ug/L				
6269880	Dissolved Molybdenum (Mo)	2019/08/06	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6269880	Dissolved Nickel (Ni)	2019/08/06	84	80 - 120	87	80 - 120	<1.0	ug/L				
6269880	Dissolved Selenium (Se)	2019/08/06	97	80 - 120	97	80 - 120	<0.10	ug/L				
6269880	Dissolved Silicon (Si)	2019/08/06	106	80 - 120	109	80 - 120	<100	ug/L				
6269880	Dissolved Silver (Ag)	2019/08/06	98	80 - 120	97	80 - 120	<0.020	ug/L				
6269880	Dissolved Strontium (Sr)	2019/08/06	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6269880	Dissolved Thallium (Tl)	2019/08/06	103	80 - 120	102	80 - 120	<0.010	ug/L				
6269880	Dissolved Tin (Sn)	2019/08/06	106	80 - 120	98	80 - 120	<5.0	ug/L				
6269880	Dissolved Titanium (Ti)	2019/08/06	95	80 - 120	96	80 - 120	<5.0	ug/L				



BV Labs Job #: B9L2327
Report Date: 2019/08/15

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6269880	Dissolved Uranium (U)	2019/08/06	107	80 - 120	101	80 - 120	<0.10	ug/L				
6269880	Dissolved Vanadium (V)	2019/08/06	90	80 - 120	89	80 - 120	<5.0	ug/L				
6269880	Dissolved Zinc (Zn)	2019/08/06	86	80 - 120	93	80 - 120	<5.0	ug/L				
6269880	Dissolved Zirconium (Zr)	2019/08/06	102	80 - 120	97	80 - 120	<0.10	ug/L				
6269882	Total Aluminum (Al)	2019/08/07	102	80 - 120	103	80 - 120	<3.0	ug/L				
6269882	Total Antimony (Sb)	2019/08/07	100	80 - 120	99	80 - 120	<0.50	ug/L				
6269882	Total Arsenic (As)	2019/08/07	103	80 - 120	101	80 - 120	<0.10	ug/L				
6269882	Total Barium (Ba)	2019/08/07	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6269882	Total Beryllium (Be)	2019/08/07	100	80 - 120	99	80 - 120	<0.10	ug/L				
6269882	Total Bismuth (Bi)	2019/08/07	98	80 - 120	102	80 - 120	<1.0	ug/L				
6269882	Total Boron (B)	2019/08/07	104	80 - 120	102	80 - 120	<50	ug/L				
6269882	Total Cadmium (Cd)	2019/08/07	100	80 - 120	101	80 - 120	<0.010	ug/L				
6269882	Total Chromium (Cr)	2019/08/07	101	80 - 120	102	80 - 120	<1.0	ug/L				
6269882	Total Cobalt (Co)	2019/08/07	97	80 - 120	99	80 - 120	<0.20	ug/L				
6269882	Total Copper (Cu)	2019/08/07	97	80 - 120	101	80 - 120	<0.50	ug/L				
6269882	Total Iron (Fe)	2019/08/07	99	80 - 120	101	80 - 120	<10	ug/L				
6269882	Total Lead (Pb)	2019/08/07	101	80 - 120	103	80 - 120	<0.20	ug/L				
6269882	Total Lithium (Li)	2019/08/07	99	80 - 120	99	80 - 120	<2.0	ug/L				
6269882	Total Manganese (Mn)	2019/08/07	101	80 - 120	102	80 - 120	<1.0	ug/L				
6269882	Total Molybdenum (Mo)	2019/08/07	106	80 - 120	101	80 - 120	<1.0	ug/L				
6269882	Total Nickel (Ni)	2019/08/07	97	80 - 120	101	80 - 120	<1.0	ug/L				
6269882	Total Selenium (Se)	2019/08/07	105	80 - 120	101	80 - 120	<0.10	ug/L				
6269882	Total Silicon (Si)	2019/08/07	NC	80 - 120	101	80 - 120	<100	ug/L				
6269882	Total Silver (Ag)	2019/08/07	100	80 - 120	100	80 - 120	<0.020	ug/L				
6269882	Total Strontium (Sr)	2019/08/07	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6269882	Total Thallium (Tl)	2019/08/07	102	80 - 120	103	80 - 120	<0.010	ug/L				
6269882	Total Tin (Sn)	2019/08/07	100	80 - 120	100	80 - 120	<5.0	ug/L				
6269882	Total Titanium (Ti)	2019/08/07	104	80 - 120	103	80 - 120	<5.0	ug/L				
6269882	Total Uranium (U)	2019/08/07	102	80 - 120	100	80 - 120	<0.10	ug/L				
6269882	Total Vanadium (V)	2019/08/07	102	80 - 120	101	80 - 120	<5.0	ug/L				
6269882	Total Zinc (Zn)	2019/08/07	97	80 - 120	101	80 - 120	<5.0	ug/L				
6269882	Total Zirconium (Zr)	2019/08/07	104	80 - 120	100	80 - 120	<0.10	ug/L				



BUREAU
VERITAS

BV Labs Job #: B9L2327

Report Date: 2019/08/15

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6279656	Free Cyanide (CN)	2019/08/08	90	80 - 120	97	80 - 120	<1.0	ug/L				

N/A = Not Applicable

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 <= 2x RDL).



BUREAU
VERITAS

BV Labs Job #: B9L2327
Report Date: 2019/08/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Harry (Peng) Liang, Senior Analyst

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

BV Labs 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

BV Labs Job #: B9L2327
Report Date: 2019/08/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site#: 63°02'15.5" 92°13'06.3"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/29
 Report #: R5859418
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9M5838

Received: 2019/08/15, 09:50

Sample Matrix: Water
 # Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	3	N/A	2019/08/17	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	3	N/A	2019/08/19	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	3	2019/08/16	2019/08/21	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry (1)	3	N/A	2019/08/19	CAM SOP-00463	SM 4500-Cl E m
Conductivity (1)	3	N/A	2019/08/17	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	3	N/A	2019/08/19	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	3	2019/08/19	2019/08/19	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	3	N/A	2019/08/17	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	3	2019/08/16	2019/08/16	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	3	N/A	2019/08/20	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	3	2019/08/20	2019/08/20	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	2	2019/08/19	2019/08/19	CAM SOP-00453	EPA 7470 m
Dissolved Mercury (low level) (1)	1	2019/08/20	2019/08/20	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	3	2019/08/19	2019/08/19	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	3	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	3	N/A	2019/08/21	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	3	N/A	2019/08/21	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	3	N/A	2019/08/21	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	3	N/A	2019/08/21	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	3	2019/08/15	2019/08/21	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	3	2019/08/20	2019/08/20	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	3	N/A	2019/08/20	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	3	N/A	2019/08/20	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	3	N/A	2019/08/18	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	3	2019/08/16	2019/08/17	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	3	N/A	2019/08/21	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/08/21	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Radium-226 Low Level (4, 9)	2	N/A	2019/08/26	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry



Your P.O. #: OL-762849
Site#: 63°02'15.5" 92°13'06.3"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/29
Report #: R5859418
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9M5838

Received: 2019/08/15, 09:50

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Sulphate by Automated Colourimetry (1)	3	N/A	2019/08/19	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	3	2019/08/17	2019/08/19	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	3	2019/08/19	2019/08/20	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	3	N/A	2019/08/20	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	1	2019/08/20	2019/08/20	CAM SOP-00407	SM 23 4500 P B H m
Total Phosphorus (Colourimetric) (1)	2	2019/08/20	2019/08/21	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	3	2019/08/17	2019/08/19	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	3	N/A	2019/08/16	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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



Your P.O. #: OL-762849
Site#: 63°02'15.5" 92°13'06.3"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/29
Report #: R5859418
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9M5838

Received: 2019/08/15, 09:50

elements of the 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.
(7) "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).
(8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
29 Aug 2019 14:06:51

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B9M5838

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SK

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KNG700	KNG701			KNG701			KNG702		
Sampling Date		2019/08/13 07:15	2019/08/13 07:15			2019/08/13 07:15			2019/08/13 07:15		
	UNITS	ME-14	ME-14 DUP	RDL	QC Batch	ME-14 DUP Lab-Dup	RDL	QC Batch	ME-14-FB	RDL	QC Batch

BTEX & F1 Hydrocarbons											
Benzene	ug/L	<0.20	<0.20	0.20	6288243				<0.20	0.20	6288243
Toluene	ug/L	<0.20	<0.20	0.20	6288243				0.51	0.20	6288243
Ethylbenzene	ug/L	<0.20	<0.20	0.20	6288243				<0.20	0.20	6288243
o-Xylene	ug/L	<0.20	<0.20	0.20	6288243				<0.20	0.20	6288243
p+m-Xylene	ug/L	<0.40	<0.40	0.40	6288243				<0.40	0.40	6288243
Total Xylenes	ug/L	<0.40	<0.40	0.40	6288243				<0.40	0.40	6288243
F1 (C6-C10)	ug/L	<25	<25	25	6288243				<25	25	6288243
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	6288243				<25	25	6288243

F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	6288758	<100	100	6288758	<100	100	6288758
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	6288758	<200	200	6288758	<200	200	6288758
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	6288758	<200	200	6288758	<200	200	6288758
Reached Baseline at C50	ug/L	Yes	Yes		6288758	Yes		6288758	Yes		6288758

Surrogate Recovery (%)											
1,4-Difluorobenzene	%	100	99		6288243				100		6288243
4-Bromofluorobenzene	%	98	97		6288243				97		6288243
D10-Ethylbenzene	%	94	95		6288243				94		6288243
D4-1,2-Dichloroethane	%	99	98		6288243				97		6288243
o-Terphenyl	%	109	107		6288758	108		6288758	106		6288758

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



BV Labs Job #: B9M5838
Report Date: 2019/08/29

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SK

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KNG700	KNG701	KNG702		
Sampling Date		2019/08/13 07:15	2019/08/13 07:15	2019/08/13 07:15		
	UNITS	ME-14	ME-14 DUP	ME-14-FB	RDL	QC Batch
Calculated Parameters						
Dissolved Hardness (CaCO ₃)	mg/L	271	271	<0.50	0.50	6288345
Metals						
Dissolved Aluminum (Al)	ug/L	32.3	32.2	<3.0	3.0	6291995
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	6291995
Dissolved Arsenic (As)	ug/L	1.04	1.05	<0.10	0.10	6291995
Dissolved Barium (Ba)	ug/L	45.6	46.0	<1.0	1.0	6291995
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	0.10	6291995
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	6291995
Dissolved Boron (B)	ug/L	341	343	<50	50	6291995
Dissolved Cadmium (Cd)	ug/L	<0.010	0.011	<0.010	0.010	6291995
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	1.0	6291995
Dissolved Cobalt (Co)	ug/L	0.37	0.36	<0.20	0.20	6291995
Dissolved Copper (Cu)	ug/L	0.60	0.60	<0.20	0.20	6291995
Dissolved Iron (Fe)	ug/L	53.8	55.0	<5.0	5.0	6291995
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	0.20	6291995
Dissolved Lithium (Li)	ug/L	54.0	55.3	<2.0	2.0	6291995
Dissolved Manganese (Mn)	ug/L	5.3	5.5	<1.0	1.0	6291995
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	1.0	6291995
Dissolved Nickel (Ni)	ug/L	2.4	2.3	<1.0	1.0	6291995
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	0.10	6291995
Dissolved Silicon (Si)	ug/L	247	252	<100	100	6291995
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	0.020	6291995
Dissolved Strontium (Sr)	ug/L	1630	1660	<1.0	1.0	6291995
Dissolved Thallium (Tl)	ug/L	0.024	0.026	<0.010	0.010	6291995
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	6291995
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	6291995
Dissolved Uranium (U)	ug/L	0.13	0.14	<0.10	0.10	6291995
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	5.0	6291995
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	5.0	6291995
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	0.10	6291995
Dissolved Calcium (Ca)	mg/L	75.4	75.2	<0.050	0.050	6288346
Dissolved Magnesium (Mg)	mg/L	20.0	20.2	<0.050	0.050	6288346
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

BV Labs Job #: B9M5838

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SK

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KNG700	KNG701	KNG702		
Sampling Date		2019/08/13 07:15	2019/08/13 07:15	2019/08/13 07:15		
	UNITS	ME-14	ME-14 DUP	ME-14-FB	RDL	QC Batch
Dissolved Potassium (K)	mg/L	11.0	11.0	<0.050	0.050	6288346
Dissolved Sodium (Na)	mg/L	162	161	<0.050	0.050	6288346
Dissolved Sulphur (S)	mg/L	17.8	18.0	<3.0	3.0	6288346
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

BV Labs Job #: B9M5838

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SK

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KNG700	KNG701	KNG702		
Sampling Date		2019/08/13 07:15	2019/08/13 07:15	2019/08/13 07:15		
	UNITS	ME-14	ME-14 DUP	ME-14-FB	RDL	QC Batch
Metals						
Total Aluminum (Al)	ug/L	99.2	98.9	<3.0	3.0	6291713
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	6291713
Total Arsenic (As)	ug/L	1.16	1.16	<0.10	0.10	6291713
Total Barium (Ba)	ug/L	51.9	50.7	<1.0	1.0	6291713
Total Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	0.10	6291713
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	6291713
Total Boron (B)	ug/L	323	323	<50	50	6291713
Total Cadmium (Cd)	ug/L	0.012	0.013	<0.010	0.010	6291713
Total Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	1.0	6291713
Total Cobalt (Co)	ug/L	0.37	0.38	<0.20	0.20	6291713
Total Copper (Cu)	ug/L	0.65	0.96	<0.50	0.50	6291713
Total Iron (Fe)	ug/L	49	50	<10	10	6291713
Total Lead (Pb)	ug/L	<0.20	<0.20	<0.20	0.20	6291713
Total Lithium (Li)	ug/L	52.6	52.2	<2.0	2.0	6291713
Total Manganese (Mn)	ug/L	5.6	5.5	<1.0	1.0	6291713
Total Molybdenum (Mo)	ug/L	1.0	1.0	<1.0	1.0	6291713
Total Nickel (Ni)	ug/L	2.5	2.5	<1.0	1.0	6291713
Total Selenium (Se)	ug/L	<0.10	<0.10	<0.10	0.10	6291713
Total Silicon (Si)	ug/L	266	265	<100	100	6291713
Total Silver (Ag)	ug/L	<0.020	<0.020	<0.020	0.020	6291713
Total Strontium (Sr)	ug/L	1850	1830	<1.0	1.0	6291713
Total Thallium (Tl)	ug/L	0.026	0.026	<0.010	0.010	6291713
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	6291713
Total Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	6291713
Total Uranium (U)	ug/L	0.17	0.16	<0.10	0.10	6291713
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0	5.0	6291713
Total Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	5.0	6291713
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	0.10	6291713
Total Calcium (Ca)	ug/L	82200	81600	<50	50	6288349
Total Magnesium (Mg)	ug/L	21400	21200	<50	50	6288349
Total Potassium (K)	ug/L	12000	12000	<50	50	6288349
Total Sodium (Na)	ug/L	171000	170000	<50	50	6288349
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

BV Labs Job #: B9M5838

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SK

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KNG700	KNG701	KNG702		
Sampling Date		2019/08/13 07:15	2019/08/13 07:15	2019/08/13 07:15		
	UNITS	ME-14	ME-14 DUP	ME-14-FB	RDL	QC Batch
Total Sulphur (S)	ug/L	18800	18900	<3000	3000	6288349
Calculated Parameters						
Total Hardness (CaCO ₃)	ug/L	293000	291000	<500	500	6288348
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						

BUREAU
VERITAS

BV Labs Job #: B9M5838

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SK

RESULTS OF ANALYSES OF WATER

BV Labs ID		KNG700			KNG700			KNG701		
Sampling Date		2019/08/13 07:15			2019/08/13 07:15			2019/08/13 07:15		
	UNITS	ME-14	RDL	QC Batch	ME-14 Lab-Dup	RDL	QC Batch	ME-14 DUP	RDL	QC Batch

Calculated Parameters

Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	22	1.0	6281848				22	1.0	6281848
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6281848				<1.0	1.0	6281848

Inorganics

Total Ammonia-N	mg/L	3.2	0.050	6288996				3.3 (1)	0.050	6288996
Total BOD	mg/L	<2	2	6283790	<2	2	6283790	<2	2	6283790
Conductivity	umho/cm	1700	1.0	6285224				1700	1.0	6285224
Free Cyanide (CN)	ug/L	1.1 (2)	1.0	6290148				1.1 (2)	1.0	6290148
Total Dissolved Solids	mg/L	1130	10	6286027				1110	10	6286027
Total Kjeldahl Nitrogen (TKN)	mg/L	3.3	0.50	6287145				3.0 (1)	0.50	6287145
Dissolved Organic Carbon	mg/L	3.7	0.50	6284097				3.6	0.50	6284097
Total Organic Carbon (TOC)	mg/L	3.7	0.50	6287105				3.7	0.50	6287105
Orthophosphate (P)	mg/L	<0.010	0.010	6285782				<0.010	0.010	6285782
Dissolved Oxygen	mg/L	10.2		6284385				10.4		6284385
pH	pH	7.36		6285228				7.32		6285228
Total Phosphorus	mg/L	<0.020	0.020	6289897				<0.020	0.020	6289897
Reactive Silica (SiO ₂)	mg/L	0.53	0.050	6291768				0.52	0.050	6291768
Total Suspended Solids	mg/L	2	1	6285893				3	1	6285893
Dissolved Sulphate (SO ₄)	mg/L	50	1.0	6285780				50	1.0	6285780
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6287854				<0.0050	0.0050	6287854
Turbidity	NTU	0.2	0.1	6284179				0.3	0.1	6284179
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6287861				<0.0010	0.0010	6287861
Alkalinity (Total as CaCO ₃)	mg/L	22	1.0	6285216				22	1.0	6285216
Dissolved Chloride (Cl ⁻)	mg/L	410	5.0	6285778				420	4.0	6285778
Nitrite (N)	mg/L	0.753	0.010	6285229				0.754	0.010	6285229
Nitrate (N)	mg/L	12.9	0.10	6285229				12.9	0.10	6285229
Nitrate + Nitrite (N)	mg/L	13.7	0.10	6285229				13.7	0.10	6285229

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) TKN < NH₄: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

(2) See general comments for notes regarding CNFREE-W



BUREAU
VERITAS

BV Labs Job #: B9M5838

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SK

RESULTS OF ANALYSES OF WATER

BV Labs ID		KNG700			KNG700			KNG701		
Sampling Date		2019/08/13 07:15			2019/08/13 07:15			2019/08/13 07:15		
	UNITS	ME-14	RDL	QC Batch	ME-14 Lab-Dup	RDL	QC Batch	ME-14 DUP	RDL	QC Batch

RADIONUCLIDE										
Radium-226	Bq/L	<0.0050	0.0050	6287025				0.053	0.0050	6287025

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: B9M5838

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SK

RESULTS OF ANALYSES OF WATER

BV Labs ID		KNG701			KNG702			KNG702		
Sampling Date		2019/08/13 07:15			2019/08/13 07:15			2019/08/13 07:15		
	UNITS	ME-14 DUP Lab-Dup	RDL	QC Batch	ME-14-FB	RDL	QC Batch	ME-14-FB Lab-Dup	RDL	QC Batch

Calculated Parameters										
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L				<1.0	1.0	6281848			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L				<1.0	1.0	6281848			
Inorganics										
Total Ammonia-N	mg/L				0.091	0.050	6288996			
Total BOD	mg/L				<2	2	6283790			
Conductivity	umho/cm				<1.0	1.0	6285224			
Free Cyanide (CN)	ug/L				<1.0 (1)	1.0	6290148	<1.0	1.0	6290148
Total Dissolved Solids	mg/L				<10	10	6286027			
Total Kjeldahl Nitrogen (TKN)	mg/L	2.9 (2)	0.50	6287145	<0.10	0.10	6287145			
Dissolved Organic Carbon	mg/L				<0.50	0.50	6284097			
Total Organic Carbon (TOC)	mg/L				<0.50	0.50	6287105			
Orthophosphate (P)	mg/L				<0.010	0.010	6285782			
Dissolved Oxygen	mg/L				10.3		6284385			
pH	pH				5.78		6285228			
Total Phosphorus	mg/L	<0.020	0.020	6289897	<0.020	0.020	6289419			
Reactive Silica (SiO ₂)	mg/L				<0.050	0.050	6291768			
Total Suspended Solids	mg/L				<1	1	6285893			
Dissolved Sulphate (SO ₄)	mg/L				<1.0	1.0	6285780			
Total Cyanide (CN)	mg/L				<0.0050	0.0050	6287854	<0.0050	0.0050	6287854
Turbidity	NTU				<0.1	0.1	6284179			
WAD Cyanide (Free)	mg/L				<0.0010	0.0010	6287861	<0.0010	0.0010	6287861
Alkalinity (Total as CaCO ₃)	mg/L				<1.0	1.0	6285216			
Dissolved Chloride (Cl ⁻)	mg/L				<1.0	1.0	6285778			
Nitrite (N)	mg/L				<0.010	0.010	6285229			
Nitrate (N)	mg/L				<0.10	0.10	6285229			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	6285229			

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) See general comments for notes regarding CNFREE-W

(2) TKN < NH₄: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



BUREAU
VERITAS

BV Labs Job #: B9M5838

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SK

RESULTS OF ANALYSES OF WATER

BV Labs ID		KNG701			KNG702			KNG702		
Sampling Date		2019/08/13 07:15			2019/08/13 07:15			2019/08/13 07:15		
	UNITS	ME-14 DUP Lab-Dup	RDL	QC Batch	ME-14-FB	RDL	QC Batch	ME-14-FB Lab-Dup	RDL	QC Batch

RADIONUCLIDE										
Radium-226	Bq/L				<0.0050	0.0050	6287025			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: B9M5838

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SK

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KNG700		KNG701	KNG702		
Sampling Date		2019/08/13 07:15		2019/08/13 07:15	2019/08/13 07:15		
	UNITS	ME-14	QC Batch	ME-14 DUP	ME-14-FB	RDL	QC Batch
Metals							
Mercury (Hg)	mg/L	<0.00001	6286866	<0.00001	<0.00001	0.00001	6286866
Dissolved Mercury (Hg)	mg/L	<0.00001	6289091	<0.00001	<0.00001	0.00001	6286927
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BV Labs Job #: B9M5838
Report Date: 2019/08/29

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SK

TEST SUMMARY

BV Labs ID: KNG700
Sample ID: ME-14
Matrix: Water

Collected: 2019/08/13
Shipped:
Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6285216	N/A	2019/08/17	Neil Dassanayake
Carbonate, Bicarbonate and Hydroxide	CALC	6281848	N/A	2019/08/19	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6283790	2019/08/16	2019/08/21	Nusrat Naz
Chloride by Automated Colourimetry	KONE	6285778	N/A	2019/08/19	Deonarine Ramnarine
Conductivity	AT	6285224	N/A	2019/08/17	Neil Dassanayake
Free (WAD) Cyanide	SKAL/CN	6287861	N/A	2019/08/19	Gnana Thomas
Total Cyanide	SKAL/CN	6287854	2019/08/19	2019/08/19	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6284097	N/A	2019/08/17	Mandeep Kaur
Dissolved Oxygen	DO	6284385	2019/08/16	2019/08/16	Nusrat Naz
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6288243	N/A	2019/08/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6288758	2019/08/20	2019/08/20	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6289091	2019/08/20	2019/08/20	Ron Morrison
Mercury (low level)	CV/AA	6286866	2019/08/19	2019/08/19	Ron Morrison
Cyanide (Free)	SPEC	6290148	2019/08/20	2019/08/20	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6288348	N/A	2019/08/21	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6288345	N/A	2019/08/21	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6288346	N/A	2019/08/21	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6291995	N/A	2019/08/21	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6288349	2019/08/21	2019/08/21	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6291713	2019/08/20	2019/08/20	Vanessa Chan
Silica (Reactive)	KONE	6291768	N/A	2019/08/20	Zafar Iqbal
Total Ammonia-N	LACH/NH ₄	6288996	N/A	2019/08/20	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6285229	N/A	2019/08/18	Amanpreet Sappal
pH	AT	6285228	2019/08/16	2019/08/17	Neil Dassanayake
Orthophosphate	KONE	6285782	N/A	2019/08/21	Alina Dobreanu
Radium-226 Low Level	AS	6287025	N/A	2019/08/21	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6285780	N/A	2019/08/19	Deonarine Ramnarine
Total Dissolved Solids	BAL	6286027	2019/08/17	2019/08/19	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6287145	2019/08/19	2019/08/20	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6287105	N/A	2019/08/20	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6289897	2019/08/20	2019/08/21	Nimarta Singh
Low Level Total Suspended Solids	BAL	6285893	2019/08/17	2019/08/19	Mandeep Kaur
Turbidity	AT	6284179	N/A	2019/08/16	Kazzandra Adeva

BV Labs ID: KNG700 Dup
Sample ID: ME-14
Matrix: Water

Collected: 2019/08/13
Shipped:
Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Biochemical Oxygen Demand (BOD)	DO	6283790	2019/08/16	2019/08/21	Nusrat Naz



BV Labs Job #: B9M5838

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SK

TEST SUMMARY

BV Labs ID: KNG701
Sample ID: ME-14 DUP
Matrix: Water

Collected: 2019/08/13
Shipped:
Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6285216	N/A	2019/08/17	Neil Dassanayake
Carbonate, Bicarbonate and Hydroxide	CALC	6281848	N/A	2019/08/19	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6283790	2019/08/16	2019/08/21	Nusrat Naz
Chloride by Automated Colourimetry	KONE	6285778	N/A	2019/08/19	Deonarine Ramnarine
Conductivity	AT	6285224	N/A	2019/08/17	Neil Dassanayake
Free (WAD) Cyanide	SKAL/CN	6287861	N/A	2019/08/19	Gnana Thomas
Total Cyanide	SKAL/CN	6287854	2019/08/19	2019/08/19	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6284097	N/A	2019/08/17	Mandeep Kaur
Dissolved Oxygen	DO	6284385	2019/08/16	2019/08/16	Nusrat Naz
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6288243	N/A	2019/08/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6288758	2019/08/20	2019/08/20	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6286927	2019/08/19	2019/08/19	Ron Morrison
Mercury (low level)	CV/AA	6286866	2019/08/19	2019/08/19	Ron Morrison
Cyanide (Free)	SPEC	6290148	2019/08/20	2019/08/20	Taylor Mullings
Hardness Total (calculated as CaCO3)	CALC	6288348	N/A	2019/08/21	Automated Statchk
Hardness (calculated as CaCO3)	CALC	6288345	N/A	2019/08/21	Report Automation Engine
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6288346	N/A	2019/08/21	Report Automation Engine
Elements by CRC ICPMS (dissolved)	ICP/MS	6291995	N/A	2019/08/21	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6288349	2019/08/21	2019/08/21	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6291713	2019/08/20	2019/08/20	Vanessa Chan
Silica (Reactive)	KONE	6291768	N/A	2019/08/20	Zafar Iqbal
Total Ammonia-N	LACH/NH4	6288996	N/A	2019/08/20	Mazin Wakai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	6285229	N/A	2019/08/18	Amanpreet Sappal
pH	AT	6285228	2019/08/16	2019/08/17	Neil Dassanayake
Orthophosphate	KONE	6285782	N/A	2019/08/21	Alina Dobreanu
Radium-226 Low Level	AS	6287025	N/A	2019/08/26	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6285780	N/A	2019/08/19	Deonarine Ramnarine
Total Dissolved Solids	BAL	6286027	2019/08/17	2019/08/19	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6287145	2019/08/19	2019/08/20	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6287105	N/A	2019/08/20	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6289897	2019/08/20	2019/08/21	Nimarta Singh
Low Level Total Suspended Solids	BAL	6285893	2019/08/17	2019/08/19	Mandeep Kaur
Turbidity	AT	6284179	N/A	2019/08/16	Kazzandra Adeva

BV Labs ID: KNG701 Dup
Sample ID: ME-14 DUP
Matrix: Water

Collected: 2019/08/13
Shipped:
Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6288758	2019/08/20	2019/08/20	Prabhjot Gulati
Total Kjeldahl Nitrogen in Water	SKAL	6287145	2019/08/19	2019/08/20	Shivani Shivani
Total Phosphorus (Colourimetric)	LACH/P	6289897	2019/08/20	2019/08/21	Nimarta Singh



BV Labs Job #: B9M5838
Report Date: 2019/08/29

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SK

TEST SUMMARY

BV Labs ID: KNG702
Sample ID: ME-14-FB
Matrix: Water

Collected: 2019/08/13
Shipped:
Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6285216	N/A	2019/08/17	Neil Dassanayake
Carbonate, Bicarbonate and Hydroxide	CALC	6281848	N/A	2019/08/19	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6283790	2019/08/16	2019/08/21	Nusrat Naz
Chloride by Automated Colourimetry	KONE	6285778	N/A	2019/08/19	Deonarine Ramnarine
Conductivity	AT	6285224	N/A	2019/08/17	Neil Dassanayake
Free (WAD) Cyanide	SKAL/CN	6287861	N/A	2019/08/19	Gnana Thomas
Total Cyanide	SKAL/CN	6287854	2019/08/19	2019/08/19	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6284097	N/A	2019/08/17	Mandeep Kaur
Dissolved Oxygen	DO	6284385	2019/08/16	2019/08/16	Nusrat Naz
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6288243	N/A	2019/08/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6288758	2019/08/20	2019/08/20	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6286927	2019/08/19	2019/08/19	Ron Morrison
Mercury (low level)	CV/AA	6286866	2019/08/19	2019/08/19	Ron Morrison
Cyanide (Free)	SPEC	6290148	2019/08/20	2019/08/20	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6288348	N/A	2019/08/21	Report Automation Engine
Hardness (calculated as CaCO ₃)	CALC	6288345	N/A	2019/08/21	Report Automation Engine
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6288346	N/A	2019/08/21	Report Automation Engine
Elements by CRC ICPMS (dissolved)	ICP/MS	6291995	N/A	2019/08/21	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6288349	2019/08/21	2019/08/21	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6291713	2019/08/20	2019/08/20	Vanessa Chan
Silica (Reactive)	KONE	6291768	N/A	2019/08/20	Zafar Iqbal
Total Ammonia-N	LACH/NH ₄	6288996	N/A	2019/08/20	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6285229	N/A	2019/08/18	Amanpreet Sappal
pH	AT	6285228	2019/08/16	2019/08/17	Neil Dassanayake
Orthophosphate	KONE	6285782	N/A	2019/08/21	Alina Dobreanu
Radium-226 Low Level	AS	6287025	N/A	2019/08/26	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6285780	N/A	2019/08/19	Deonarine Ramnarine
Total Dissolved Solids	BAL	6286027	2019/08/17	2019/08/19	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6287145	2019/08/19	2019/08/20	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6287105	N/A	2019/08/20	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6289419	2019/08/20	2019/08/20	Nimarta Singh
Low Level Total Suspended Solids	BAL	6285893	2019/08/17	2019/08/19	Mandeep Kaur
Turbidity	AT	6284179	N/A	2019/08/16	Kazzandra Adeva

BV Labs ID: KNG702 Dup
Sample ID: ME-14-FB
Matrix: Water

Collected: 2019/08/13
Shipped:
Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	6287861	N/A	2019/08/19	Gnana Thomas
Total Cyanide	SKAL/CN	6287854	2019/08/19	2019/08/19	Gnana Thomas
Cyanide (Free)	SPEC	6290148	2019/08/20	2019/08/20	Taylor Mullings



GENERAL COMMENTS

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

Package 1	14.3°C

Sample KNG700 [ME-14] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

TOC < DOC: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample KNG701 [ME-14 DUP] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide. TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample KNG702 [ME-14-FB] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



BV Labs Job #: B9M5838
Report Date: 2019/08/29

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SK

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
6288243	1,4-Difluorobenzene	2019/08/19	103	70 - 130	103	70 - 130	98	%				
6288243	4-Bromofluorobenzene	2019/08/19	99	70 - 130	100	70 - 130	99	%				
6288243	D10-Ethylbenzene	2019/08/19	98	70 - 130	94	70 - 130	93	%				
6288243	D4-1,2-Dichloroethane	2019/08/19	96	70 - 130	99	70 - 130	101	%				
6288758	o-Terphenyl	2019/08/20	113	60 - 130	105	60 - 130	110	%				
6283790	Total BOD	2019/08/21					<2	mg/L	NC	30	103	80 - 120
6284097	Dissolved Organic Carbon	2019/08/17	93	80 - 120	97	80 - 120	<0.50	mg/L	1.0	20		
6284179	Turbidity	2019/08/16			94	85 - 115	<0.1	NTU	4.5	20		
6285216	Alkalinity (Total as CaCO3)	2019/08/17			98	85 - 115	<1.0	mg/L	1.1	20		
6285224	Conductivity	2019/08/17			101	85 - 115	<1.0	umho/cm	0	25		
6285228	pH	2019/08/17			102	98 - 103			0.42	N/A		
6285229	Nitrate (N)	2019/08/18	NC	80 - 120	100	80 - 120	<0.10	mg/L	0.11	20		
6285229	Nitrite (N)	2019/08/18	95	80 - 120	104	80 - 120	<0.010	mg/L	0.16	20		
6285778	Dissolved Chloride (Cl-)	2019/08/19	117	80 - 120	103	80 - 120	<1.0	mg/L	1.1	20		
6285780	Dissolved Sulphate (SO4)	2019/08/19	105	75 - 125	102	80 - 120	<1.0	mg/L	2.9	20		
6285782	Orthophosphate (P)	2019/08/21	104	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
6285893	Total Suspended Solids	2019/08/19					<1	mg/L	NC	25	100	85 - 115
6286027	Total Dissolved Solids	2019/08/19					<10	mg/L	2.0	25	97	90 - 110
6286866	Mercury (Hg)	2019/08/19	101	75 - 125	102	80 - 120	<0.00001	mg/L	NC	20		
6286927	Dissolved Mercury (Hg)	2019/08/19	93	75 - 125	102	80 - 120	<0.00001	mg/L	NC	20		
6287025	Radium-226	2019/08/21			100	85 - 115	<0.0050	Bq/L	NC	N/A		
6287105	Total Organic Carbon (TOC)	2019/08/20	92	80 - 120	97	80 - 120	<0.50	mg/L	2.4	20		
6287145	Total Kjeldahl Nitrogen (TKN)	2019/08/20	NC	80 - 120	94	80 - 120	<0.10	mg/L	2.4 (1)	20	96	80 - 120
6287854	Total Cyanide (CN)	2019/08/19	103	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
6287861	WAD Cyanide (Free)	2019/08/19	105	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
6288243	Benzene	2019/08/19	99	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
6288243	Ethylbenzene	2019/08/19	100	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
6288243	F1 (C6-C10) - BTEX	2019/08/19					<25	ug/L	NC	30		
6288243	F1 (C6-C10)	2019/08/19	81	70 - 130	100	70 - 130	<25	ug/L	NC	30		
6288243	o-Xylene	2019/08/19	98	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
6288243	p+m-Xylene	2019/08/19	99	70 - 130	97	70 - 130	<0.40	ug/L	NC	30		



BV Labs Job #: B9M5838
Report Date: 2019/08/29

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SK

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
6288243	Toluene	2019/08/19	101	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
6288243	Total Xylenes	2019/08/19					<0.40	ug/L	NC	30		
6288758	F2 (C10-C16 Hydrocarbons)	2019/08/20	101	50 - 130	92	60 - 130	<100	ug/L	NC	30		
6288758	F3 (C16-C34 Hydrocarbons)	2019/08/20	102	50 - 130	96	60 - 130	<200	ug/L	NC	30		
6288758	F4 (C34-C50 Hydrocarbons)	2019/08/20	100	50 - 130	94	60 - 130	<200	ug/L	NC	30		
6288996	Total Ammonia-N	2019/08/20	100	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
6289091	Dissolved Mercury (Hg)	2019/08/20	99	75 - 125	98	80 - 120	<0.00001	mg/L	NC	20		
6289419	Total Phosphorus	2019/08/20	100	80 - 120	101	80 - 120	<0.020	mg/L	1.9	20	101	80 - 120
6289897	Total Phosphorus	2019/08/21	96	80 - 120	97	80 - 120	<0.020	mg/L	NC	20	99	80 - 120
6290148	Free Cyanide (CN)	2019/08/20	93	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
6291713	Total Aluminum (Al)	2019/08/20	101	80 - 120	101	80 - 120	<3.0	ug/L	1.8	20		
6291713	Total Antimony (Sb)	2019/08/20	101	80 - 120	101	80 - 120	<0.50	ug/L	1.4	20		
6291713	Total Arsenic (As)	2019/08/20	104	80 - 120	100	80 - 120	<0.10	ug/L	12	20		
6291713	Total Barium (Ba)	2019/08/20	101	80 - 120	103	80 - 120	<1.0	ug/L	1.2	20		
6291713	Total Beryllium (Be)	2019/08/20	94	80 - 120	95	80 - 120	<0.10	ug/L	NC	20		
6291713	Total Bismuth (Bi)	2019/08/20	99	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
6291713	Total Boron (B)	2019/08/20	96	80 - 120	97	80 - 120	<50	ug/L	NC	20		
6291713	Total Cadmium (Cd)	2019/08/20	99	80 - 120	99	80 - 120	<0.010	ug/L	NC	20		
6291713	Total Chromium (Cr)	2019/08/20	99	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
6291713	Total Cobalt (Co)	2019/08/20	95	80 - 120	98	80 - 120	<0.20	ug/L	NC	20		
6291713	Total Copper (Cu)	2019/08/20	94	80 - 120	99	80 - 120	<0.50	ug/L	0.68	20		
6291713	Total Iron (Fe)	2019/08/20	96	80 - 120	102	80 - 120	<10	ug/L	NC	20		
6291713	Total Lead (Pb)	2019/08/20	102	80 - 120	103	80 - 120	<0.20	ug/L	NC	20		
6291713	Total Lithium (Li)	2019/08/20	94	80 - 120	95	80 - 120	<2.0	ug/L	NC	20		
6291713	Total Manganese (Mn)	2019/08/20	98	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
6291713	Total Molybdenum (Mo)	2019/08/20	107	80 - 120	99	80 - 120	<1.0	ug/L	2.7	20		
6291713	Total Nickel (Ni)	2019/08/20	95	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
6291713	Total Selenium (Se)	2019/08/20	105	80 - 120	101	80 - 120	<0.10	ug/L	3.5	20		
6291713	Total Silicon (Si)	2019/08/20	97	80 - 120	102	80 - 120	<100	ug/L	0.18	20		
6291713	Total Silver (Ag)	2019/08/20	98	80 - 120	98	80 - 120	<0.020	ug/L	NC	20		
6291713	Total Strontium (Sr)	2019/08/20	NC	80 - 120	101	80 - 120	<1.0	ug/L	0.39	20		
6291713	Total Thallium (Tl)	2019/08/20	102	80 - 120	102	80 - 120	<0.010	ug/L	NC	20		



BV Labs Job #: B9M5838
Report Date: 2019/08/29

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SK

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
6291713	Total Tin (Sn)	2019/08/20	100	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
6291713	Total Titanium (Ti)	2019/08/20	102	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
6291713	Total Uranium (U)	2019/08/20	105	80 - 120	102	80 - 120	<0.10	ug/L	0.91	20		
6291713	Total Vanadium (V)	2019/08/20	101	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
6291713	Total Zinc (Zn)	2019/08/20	93	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
6291713	Total Zirconium (Zr)	2019/08/20	108	80 - 120	103	80 - 120	<0.10	ug/L	NC	20		
6291768	Reactive Silica (SiO2)	2019/08/20	NC	80 - 120	100	80 - 120	<0.050	mg/L	0.39	20		
6291995	Dissolved Aluminum (Al)	2019/08/21	100	80 - 120	103	80 - 120	<3.0	ug/L	1.9	20		
6291995	Dissolved Antimony (Sb)	2019/08/21	99	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
6291995	Dissolved Arsenic (As)	2019/08/21	100	80 - 120	102	80 - 120	<0.10	ug/L	12	20		
6291995	Dissolved Barium (Ba)	2019/08/21	98	80 - 120	100	80 - 120	<1.0	ug/L	0.95	20		
6291995	Dissolved Beryllium (Be)	2019/08/21	99	80 - 120	104	80 - 120	<0.10	ug/L	NC	20		
6291995	Dissolved Bismuth (Bi)	2019/08/21	99	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
6291995	Dissolved Boron (B)	2019/08/21	98	80 - 120	99	80 - 120	<50	ug/L	NC	20		
6291995	Dissolved Cadmium (Cd)	2019/08/21	99	80 - 120	103	80 - 120	<0.010	ug/L	NC	20		
6291995	Dissolved Chromium (Cr)	2019/08/21	99	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
6291995	Dissolved Cobalt (Co)	2019/08/21	96	80 - 120	103	80 - 120	<0.20	ug/L	NC	20		
6291995	Dissolved Copper (Cu)	2019/08/21	92	80 - 120	101	80 - 120	<0.20	ug/L	0.53	20		
6291995	Dissolved Iron (Fe)	2019/08/21	99	80 - 120	104	80 - 120	<5.0	ug/L	NC	20		
6291995	Dissolved Lead (Pb)	2019/08/21	99	80 - 120	103	80 - 120	<0.20	ug/L	NC	20		
6291995	Dissolved Lithium (Li)	2019/08/21	99	80 - 120	103	80 - 120	<2.0	ug/L	0.83	20		
6291995	Dissolved Manganese (Mn)	2019/08/21	98	80 - 120	104	80 - 120	<1.0	ug/L	1.5	20		
6291995	Dissolved Molybdenum (Mo)	2019/08/21	107	80 - 120	107	80 - 120	<1.0	ug/L	1.5	20		
6291995	Dissolved Nickel (Ni)	2019/08/21	93	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
6291995	Dissolved Selenium (Se)	2019/08/21	102	80 - 120	103	80 - 120	<0.10	ug/L	13	20		
6291995	Dissolved Silicon (Si)	2019/08/21	100	80 - 120	106	80 - 120	<100	ug/L	0.67	20		
6291995	Dissolved Silver (Ag)	2019/08/21	99	80 - 120	102	80 - 120	<0.020	ug/L	NC	20		
6291995	Dissolved Strontium (Sr)	2019/08/21	NC	80 - 120	105	80 - 120	<1.0	ug/L	0.69	20		
6291995	Dissolved Thallium (Tl)	2019/08/21	99	80 - 120	104	80 - 120	<0.010	ug/L	NC	20		
6291995	Dissolved Tin (Sn)	2019/08/21	101	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
6291995	Dissolved Titanium (Ti)	2019/08/21	101	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
6291995	Dissolved Uranium (U)	2019/08/21	102	80 - 120	104	80 - 120	<0.10	ug/L	1.7	20		



BV Labs Job #: B9M5838
Report Date: 2019/08/29

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SK

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
6291995	Dissolved Vanadium (V)	2019/08/21	100	80 - 120	105	80 - 120	<5.0	ug/L	NC	20		
6291995	Dissolved Zinc (Zn)	2019/08/21	97	80 - 120	105	80 - 120	<5.0	ug/L	NC	20		
6291995	Dissolved Zirconium (Zr)	2019/08/21	105	80 - 120	103	80 - 120	<0.10	ug/L	NC	20		

N/A = Not Applicable

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 $\leq 2 \times \text{RDL}$).
(1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



BUREAU
VERITAS

BV Labs Job #: B9M5838

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SK

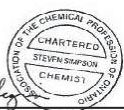
VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Harry (Peng) Liang, Senior Analyst

Rob Reinert, B.Sc., Scientific Specialist



Steven Simpson, Lab Director

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BUREAU
VERITAS

BV Labs Job #: B9M5838

Report Date: 2019/08/29

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SK

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site#: 63°02'15.5" 92°13'06.3"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/13
 Report #: R5879006
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9N3261

Received: 2019/08/22, 11:45

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/08/24	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/08/26	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	1	2019/08/23	2019/08/28	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry (1)	1	N/A	2019/08/27	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	1	N/A	2019/08/24	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/08/26	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/08/26	2019/08/26	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/08/23	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/08/23	2019/08/23	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2019/08/26	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	1	2019/08/28	2019/08/29	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	1	2019/08/23	2019/08/23	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/08/23	2019/08/23	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	1	N/A	2019/08/28	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/08/28	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/08/28	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/08/27	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/08/22	2019/08/28	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/08/26	2019/08/27	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/08/26	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/08/29	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/08/25	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/08/23	2019/08/24	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/08/26	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/09/11	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/08/26	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/08/24	2019/08/26	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/08/24	2019/08/27	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/08/27	CAM SOP-00446	SM 23 5310B m



Your P.O. #: OL-762849
Site#: 63°02'15.5" 92°13'06.3"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/13
Report #: R5879006
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9N3261

Received: 2019/08/22, 11:45

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Reference
	Quantity	Extracted			
Total Phosphorus (Colourimetric) (1)	1	2019/08/26	2019/08/27	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/08/23	2019/08/26	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/08/23	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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

(7) "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).



Your P.O. #: OL-762849
Site#: 63°02'15.5" 92°13'06.3"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/13
Report #: R5879006
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9N3261

Received: 2019/08/22, 11:45

- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
13 Sep 2019 17:22:22

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B9N3261

Report Date: 2019/09/13

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KOU558			KOU558		
Sampling Date		2019/08/20 06:38			2019/08/20 06:38		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
BTEX & F1 Hydrocarbons							
Benzene	ug/L	<0.20	0.20	6299625	<0.20	0.20	6299625
Toluene	ug/L	<0.20	0.20	6299625	<0.20	0.20	6299625
Ethylbenzene	ug/L	<0.20	0.20	6299625	<0.20	0.20	6299625
o-Xylene	ug/L	<0.20	0.20	6299625	<0.20	0.20	6299625
p+m-Xylene	ug/L	<0.40	0.40	6299625	<0.40	0.40	6299625
Total Xylenes	ug/L	<0.40	0.40	6299625	<0.40	0.40	6299625
F1 (C6-C10)	ug/L	<25	25	6299625	<25	25	6299625
F1 (C6-C10) - BTEX	ug/L	<25	25	6299625	<25	25	6299625
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	6304688			
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	6304688			
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	6304688			
Reached Baseline at C50	ug/L	Yes		6304688			
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	102		6299625	101		6299625
4-Bromofluorobenzene	%	97		6299625	99		6299625
D10-Ethylbenzene	%	86		6299625	87		6299625
D4-1,2-Dichloroethane	%	104		6299625	106		6299625
o-Terphenyl	%	97		6304688			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: B9N3261

Report Date: 2019/09/13

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KOU558		
Sampling Date		2019/08/20 06:38		
	UNITS	MEL-14	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	388	0.50	6295409
Metals				
Dissolved Aluminum (Al)	ug/L	112	3.0	6304414
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	6304414
Dissolved Arsenic (As)	ug/L	1.88	0.10	6304414
Dissolved Barium (Ba)	ug/L	68.5	1.0	6304414
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	6304414
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	6304414
Dissolved Boron (B)	ug/L	181	50	6304414
Dissolved Cadmium (Cd)	ug/L	0.013	0.010	6304414
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	6304414
Dissolved Cobalt (Co)	ug/L	0.47	0.20	6304414
Dissolved Copper (Cu)	ug/L	1.29	0.20	6304414
Dissolved Iron (Fe)	ug/L	36.0	5.0	6304414
Dissolved Lead (Pb)	ug/L	<0.20	0.20	6304414
Dissolved Lithium (Li)	ug/L	54.2	2.0	6304414
Dissolved Manganese (Mn)	ug/L	10.5	1.0	6304414
Dissolved Molybdenum (Mo)	ug/L	9.8 (1)	1.0	6304414
Dissolved Nickel (Ni)	ug/L	3.6	1.0	6304414
Dissolved Selenium (Se)	ug/L	0.12	0.10	6304414
Dissolved Silicon (Si)	ug/L	415	100	6304414
Dissolved Silver (Ag)	ug/L	<0.020	0.020	6304414
Dissolved Strontium (Sr)	ug/L	2010	1.0	6304414
Dissolved Thallium (Tl)	ug/L	0.032	0.010	6304414
Dissolved Tin (Sn)	ug/L	<5.0	5.0	6304414
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	6304414
Dissolved Uranium (U)	ug/L	0.44	0.10	6304414
Dissolved Vanadium (V)	ug/L	<5.0	5.0	6304414
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	6304414
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	6304414
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				
(1) Dissolved greater than total. Reanalysis yields similar results.				



BUREAU
VERITAS

BV Labs Job #: B9N3261

Report Date: 2019/09/13

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KOU558		
Sampling Date		2019/08/20 06:38		
	UNITS	MEL-14	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	108	0.050	6295410
Dissolved Magnesium (Mg)	mg/L	28.8	0.050	6295410
Dissolved Potassium (K)	mg/L	12.9	0.050	6295410
Dissolved Sodium (Na)	mg/L	181	0.050	6295410
Dissolved Sulphur (S)	mg/L	25.0	3.0	6295410
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9N3261
Report Date: 2019/09/13

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KOU558		
Sampling Date		2019/08/20 06:38		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	529	3.0	6305208
Total Antimony (Sb)	ug/L	<0.50	0.50	6305208
Total Arsenic (As)	ug/L	2.06	0.10	6305208
Total Barium (Ba)	ug/L	68.0	1.0	6305208
Total Beryllium (Be)	ug/L	<0.10	0.10	6305208
Total Bismuth (Bi)	ug/L	<1.0	1.0	6305208
Total Boron (B)	ug/L	175	50	6305208
Total Cadmium (Cd)	ug/L	0.016	0.010	6305208
Total Chromium (Cr)	ug/L	<1.0	1.0	6305208
Total Cobalt (Co)	ug/L	0.50	0.20	6305208
Total Copper (Cu)	ug/L	1.49	0.50	6305208
Total Iron (Fe)	ug/L	85	10	6305208
Total Lead (Pb)	ug/L	<0.20	0.20	6305208
Total Lithium (Li)	ug/L	49.8	2.0	6305208
Total Manganese (Mn)	ug/L	23.0	1.0	6305208
Total Molybdenum (Mo)	ug/L	1.5	1.0	6305208
Total Nickel (Ni)	ug/L	3.8	1.0	6305208
Total Selenium (Se)	ug/L	0.13	0.10	6305208
Total Silicon (Si)	ug/L	419	100	6305208
Total Silver (Ag)	ug/L	<0.020	0.020	6305208
Total Strontium (Sr)	ug/L	2050	1.0	6305208
Total Thallium (Tl)	ug/L	0.039	0.010	6305208
Total Tin (Sn)	ug/L	<5.0	5.0	6305208
Total Titanium (Ti)	ug/L	<5.0	5.0	6305208
Total Uranium (U)	ug/L	0.46	0.10	6305208
Total Vanadium (V)	ug/L	<5.0	5.0	6305208
Total Zinc (Zn)	ug/L	<5.0	5.0	6305208
Total Zirconium (Zr)	ug/L	<0.10	0.10	6305208
Total Calcium (Ca)	ug/L	108000	50	6299778
Total Magnesium (Mg)	ug/L	29100	50	6299778
Total Potassium (K)	ug/L	12800	50	6299778
Total Sodium (Na)	ug/L	186000	50	6299778
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9N3261
Report Date: 2019/09/13

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KOU558		
Sampling Date		2019/08/20 06:38		
	UNITS	MEL-14	RDL	QC Batch
Total Sulphur (S)	ug/L	24100	3000	6299778
Calculated Parameters				
Total Hardness (CaCO ₃)	ug/L	388000	500	6297656
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9N3261
Report Date: 2019/09/13

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

RESULTS OF ANALYSES OF WATER

BV Labs ID		KOU558			KOU558		
Sampling Date		2019/08/20 06:38			2019/08/20 06:38		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	50	1.0	6293714			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6293714			
Inorganics							
Total Ammonia-N	mg/L	2.8	0.050	6296790			
Total BOD	mg/L	2	2	6296157			
Conductivity	umho/cm	1800	1.0	6296605			
Free Cyanide (CN)	ug/L	1.8 (1)	1.0	6302380			
Total Dissolved Solids	mg/L	1310	10	6297229			
Total Kjeldahl Nitrogen (TKN)	mg/L	3.6	0.50	6298442			
Dissolved Organic Carbon	mg/L	11	0.50	6296134	12	0.50	6296134
Total Organic Carbon (TOC)	mg/L	13	0.50	6298568			
Orthophosphate (P)	mg/L	<0.010	0.010	6296802			
Dissolved Oxygen	mg/L	10.0		6296848			
pH	pH	7.80		6296604			
Total Phosphorus	mg/L	0.025	0.020	6300212			
Reactive Silica (SiO ₂)	mg/L	0.70	0.050	6304154			
Total Suspended Solids	mg/L	7	1	6296976			
Dissolved Sulphate (SO ₄)	mg/L	63	1.0	6296801			
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6299343			
Turbidity	NTU	1.5	0.1	6295148			
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6299356			
Alkalinity (Total as CaCO ₃)	mg/L	51	1.0	6296603			
Dissolved Chloride (Cl ⁻)	mg/L	460	5.0	6296793			
Nitrite (N)	mg/L	0.738	0.010	6296597			
Nitrate (N)	mg/L	11.1	0.10	6296597			
Nitrate + Nitrite (N)	mg/L	11.8	0.10	6296597			
RADIONUCLIDE							
Radium-226	Bq/L	<0.0050	0.0050	6318582			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W.							



BV Labs Job #: B9N3261
Report Date: 2019/09/13

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KOU558		
Sampling Date		2019/08/20 06:38		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6296535
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6296541
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9N3261
Report Date: 2019/09/13

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TEST SUMMARY

BV Labs ID: KOU558
Sample ID: MEL-14
Matrix: Water

Collected: 2019/08/20
Shipped:
Received: 2019/08/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6296603	N/A	2019/08/24	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6293714	N/A	2019/08/26	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6296157	2019/08/23	2019/08/28	Nusrat Naz
Chloride by Automated Colourimetry	KONE	6296793	N/A	2019/08/27	Deonarine Ramnarine
Conductivity	AT	6296605	N/A	2019/08/24	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6299356	N/A	2019/08/26	Gnana Thomas
Total Cyanide	SKAL/CN	6299343	2019/08/26	2019/08/26	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6296134	N/A	2019/08/23	Mandeep Kaur
Dissolved Oxygen	DO	6296848	2019/08/23	2019/08/23	Nusrat Naz
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6299625	N/A	2019/08/26	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6304688	2019/08/28	2019/08/29	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6296541	2019/08/23	2019/08/23	Medhat Nasr
Mercury (low level)	CV/AA	6296535	2019/08/23	2019/08/23	Medhat Nasr
Cyanide (Free)	SPEC	6302380	2019/08/26	2019/08/26	Amy Phan
Hardness Total (calculated as CaCO ₃)	CALC	6297656	N/A	2019/08/28	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6295409	N/A	2019/08/28	Report Automation Engine
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6295410	N/A	2019/08/28	Report Automation Engine
Elements by CRC ICPMS (dissolved)	ICP/MS	6304414	N/A	2019/08/27	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6299778	2019/08/28	2019/08/28	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6305208	2019/08/26	2019/08/27	Andrew An
Silica (Reactive)	KONE	6304154	N/A	2019/08/26	Serena Tian
Total Ammonia-N	LACH/NH ₄	6296790	N/A	2019/08/29	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6296597	N/A	2019/08/25	Amanpreet Sappal
pH	AT	6296604	2019/08/23	2019/08/24	Surinder Rai
Orthophosphate	KONE	6296802	N/A	2019/08/26	Alina Dobreanu
Radium-226 Low Level	AS	6318582	N/A	2019/09/11	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6296801	N/A	2019/08/26	Alina Dobreanu
Total Dissolved Solids	BAL	6297229	2019/08/24	2019/08/26	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6298442	2019/08/24	2019/08/27	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6298568	N/A	2019/08/27	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6300212	2019/08/26	2019/08/27	Shivani Shivani
Low Level Total Suspended Solids	BAL	6296976	2019/08/23	2019/08/26	Xinyue (Sarah) Hou
Turbidity	AT	6295148	N/A	2019/08/23	Kazzandra Adeva

BV Labs ID: KOU558 Dup
Sample ID: MEL-14
Matrix: Water

Collected: 2019/08/20
Shipped:
Received: 2019/08/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6296134	N/A	2019/08/23	Mandeep Kaur
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6299625	N/A	2019/08/26	Georgeta Rusu



BUREAU
VERITAS

BV Labs Job #: B9N3261

Report Date: 2019/09/13

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

GENERAL COMMENTS

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

Package 1	15.7°C

Sample KOU558 [MEL-14] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

Results relate only to the items tested.



BV Labs Job #: B9N3261
Report Date: 2019/09/13

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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
6299625	1,4-Difluorobenzene	2019/08/26	103	70 - 130	108	70 - 130	102	%				
6299625	4-Bromofluorobenzene	2019/08/26	102	70 - 130	101	70 - 130	98	%				
6299625	D10-Ethylbenzene	2019/08/26	86	70 - 130	88	70 - 130	87	%				
6299625	D4-1,2-Dichloroethane	2019/08/26	105	70 - 130	107	70 - 130	105	%				
6304688	o-Terphenyl	2019/08/29	101	60 - 130	102	60 - 130	100	%				
6295148	Turbidity	2019/08/23			109	85 - 115	<0.1	NTU	8.9	20		
6296134	Dissolved Organic Carbon	2019/08/23	97	80 - 120	99	80 - 120	<0.50	mg/L	3.0	20		
6296157	Total BOD	2019/08/28					<2	mg/L	29	30	97	80 - 120
6296535	Mercury (Hg)	2019/08/23	101	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6296541	Dissolved Mercury (Hg)	2019/08/23	99	75 - 125	99	80 - 120	<0.00001	mg/L	NC	20		
6296597	Nitrate (N)	2019/08/25	NC	80 - 120	103	80 - 120	<0.10	mg/L	1.4	20		
6296597	Nitrite (N)	2019/08/25	NC	80 - 120	105	80 - 120	<0.010	mg/L	0.23	20		
6296603	Alkalinity (Total as CaCO3)	2019/08/24			98	85 - 115	<1.0	mg/L	0.73	20		
6296604	pH	2019/08/24			102	98 - 103			0.29	N/A		
6296605	Conductivity	2019/08/24			100	85 - 115	<1.0	umho/cm	0.32	25		
6296790	Total Ammonia-N	2019/08/29	87	75 - 125	101	80 - 120	<0.050	mg/L	0.18	20		
6296793	Dissolved Chloride (Cl-)	2019/08/27	NC	80 - 120	101	80 - 120	<1.0	mg/L	0.12	20		
6296801	Dissolved Sulphate (SO4)	2019/08/26	NC	75 - 125	97	80 - 120	<1.0	mg/L	1.3	20		
6296802	Orthophosphate (P)	2019/08/26	NC	75 - 125	101	80 - 120	<0.010	mg/L	1.5	25		
6296976	Total Suspended Solids	2019/08/26					<1	mg/L	0	25	95	85 - 115
6297229	Total Dissolved Solids	2019/08/26					<10	mg/L	3.9	25	102	90 - 110
6298442	Total Kjeldahl Nitrogen (TKN)	2019/08/27	NC	80 - 120	97	80 - 120	<0.10	mg/L	3.6	20	98	80 - 120
6298568	Total Organic Carbon (TOC)	2019/08/26	94	80 - 120	98	80 - 120	<0.50	mg/L	3.3	20		
6299343	Total Cyanide (CN)	2019/08/26	105	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20		
6299356	WAD Cyanide (Free)	2019/08/26	108	80 - 120	109	80 - 120	<0.0010	mg/L	NC	20		
6299625	Benzene	2019/08/26	93	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
6299625	Ethylbenzene	2019/08/26	95	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
6299625	F1 (C6-C10) - BTEX	2019/08/26					<25	ug/L	NC	30		
6299625	F1 (C6-C10)	2019/08/26	104	70 - 130	108	70 - 130	<25	ug/L	NC	30		
6299625	o-Xylene	2019/08/26	93	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
6299625	p+m-Xylene	2019/08/26	95	70 - 130	99	70 - 130	<0.40	ug/L	NC	30		



BV Labs Job #: B9N3261
Report Date: 2019/09/13

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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
6299625	Toluene	2019/08/26	92	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
6299625	Total Xylenes	2019/08/26					<0.40	ug/L	NC	30		
6300212	Total Phosphorus	2019/08/27	100	80 - 120	106	80 - 120	<0.020	mg/L	0.93	20	102	80 - 120
6302380	Free Cyanide (CN)	2019/08/26	81	80 - 120	81	80 - 120	<1.0	ug/L	NC	20		
6304154	Reactive Silica (SiO ₂)	2019/08/27	94	80 - 120	98	80 - 120	<0.050	mg/L	18	20		
6304414	Dissolved Aluminum (Al)	2019/08/27	100	80 - 120	106	80 - 120	<3.0	ug/L				
6304414	Dissolved Antimony (Sb)	2019/08/27	101	80 - 120	103	80 - 120	<0.50	ug/L				
6304414	Dissolved Arsenic (As)	2019/08/27	105	80 - 120	102	80 - 120	<0.10	ug/L				
6304414	Dissolved Barium (Ba)	2019/08/27	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6304414	Dissolved Beryllium (Be)	2019/08/27	95	80 - 120	102	80 - 120	<0.10	ug/L				
6304414	Dissolved Bismuth (Bi)	2019/08/27	97	80 - 120	103	80 - 120	<1.0	ug/L				
6304414	Dissolved Boron (B)	2019/08/27	94	80 - 120	103	80 - 120	<50	ug/L				
6304414	Dissolved Cadmium (Cd)	2019/08/27	97	80 - 120	102	80 - 120	<0.010	ug/L				
6304414	Dissolved Chromium (Cr)	2019/08/27	95	80 - 120	102	80 - 120	<1.0	ug/L				
6304414	Dissolved Cobalt (Co)	2019/08/27	90	80 - 120	98	80 - 120	<0.20	ug/L				
6304414	Dissolved Copper (Cu)	2019/08/27	88	80 - 120	99	80 - 120	<0.20	ug/L				
6304414	Dissolved Iron (Fe)	2019/08/27	98	80 - 120	103	80 - 120	<5.0	ug/L				
6304414	Dissolved Lead (Pb)	2019/08/27	100	80 - 120	105	80 - 120	<0.20	ug/L				
6304414	Dissolved Lithium (Li)	2019/08/27	91	80 - 120	100	80 - 120	<2.0	ug/L				
6304414	Dissolved Manganese (Mn)	2019/08/27	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6304414	Dissolved Molybdenum (Mo)	2019/08/27	NC	80 - 120	105	80 - 120	<1.0	ug/L				
6304414	Dissolved Nickel (Ni)	2019/08/27	92	80 - 120	102	80 - 120	<1.0	ug/L				
6304414	Dissolved Selenium (Se)	2019/08/27	102	80 - 120	100	80 - 120	<0.10	ug/L				
6304414	Dissolved Silicon (Si)	2019/08/27	NC	80 - 120	104	80 - 120	<100	ug/L				
6304414	Dissolved Silver (Ag)	2019/08/27	96	80 - 120	101	80 - 120	<0.020	ug/L				
6304414	Dissolved Strontium (Sr)	2019/08/27	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6304414	Dissolved Thallium (Tl)	2019/08/27	100	80 - 120	103	80 - 120	<0.010	ug/L				
6304414	Dissolved Tin (Sn)	2019/08/27	100	80 - 120	102	80 - 120	<5.0	ug/L				
6304414	Dissolved Titanium (Ti)	2019/08/27	101	80 - 120	105	80 - 120	<5.0	ug/L				
6304414	Dissolved Uranium (U)	2019/08/27	105	80 - 120	103	80 - 120	<0.10	ug/L				
6304414	Dissolved Vanadium (V)	2019/08/27	99	80 - 120	102	80 - 120	<5.0	ug/L				
6304414	Dissolved Zinc (Zn)	2019/08/27	91	80 - 120	103	80 - 120	<5.0	ug/L				



BV Labs Job #: B9N3261
Report Date: 2019/09/13

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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
6304414	Dissolved Zirconium (Zr)	2019/08/27	107	80 - 120	103	80 - 120	<0.10	ug/L				
6304688	F2 (C10-C16 Hydrocarbons)	2019/08/29	125	50 - 130	123	60 - 130	<100	ug/L	NC	30		
6304688	F3 (C16-C34 Hydrocarbons)	2019/08/29	120	50 - 130	119	60 - 130	<200	ug/L	NC	30		
6304688	F4 (C34-C50 Hydrocarbons)	2019/08/29	115	50 - 130	112	60 - 130	<200	ug/L	NC	30		
6305208	Total Aluminum (Al)	2019/08/27	105	80 - 120	104	80 - 120	<3.0	ug/L				
6305208	Total Antimony (Sb)	2019/08/27	102	80 - 120	99	80 - 120	<0.50	ug/L				
6305208	Total Arsenic (As)	2019/08/27	103	80 - 120	101	80 - 120	<0.10	ug/L				
6305208	Total Barium (Ba)	2019/08/27	101	80 - 120	98	80 - 120	<1.0	ug/L				
6305208	Total Beryllium (Be)	2019/08/27	103	80 - 120	101	80 - 120	<0.10	ug/L				
6305208	Total Bismuth (Bi)	2019/08/27	102	80 - 120	101	80 - 120	<1.0	ug/L				
6305208	Total Boron (B)	2019/08/27	103	80 - 120	102	80 - 120	<50	ug/L				
6305208	Total Cadmium (Cd)	2019/08/27	102	80 - 120	100	80 - 120	<0.010	ug/L				
6305208	Total Chromium (Cr)	2019/08/27	100	80 - 120	100	80 - 120	<1.0	ug/L				
6305208	Total Cobalt (Co)	2019/08/27	97	80 - 120	96	80 - 120	<0.20	ug/L				
6305208	Total Copper (Cu)	2019/08/27	100	80 - 120	99	80 - 120	<0.50	ug/L				
6305208	Total Iron (Fe)	2019/08/27	103	80 - 120	102	80 - 120	<10	ug/L				
6305208	Total Lead (Pb)	2019/08/27	101	80 - 120	102	80 - 120	<0.20	ug/L				
6305208	Total Lithium (Li)	2019/08/27	102	80 - 120	100	80 - 120	<2.0	ug/L				
6305208	Total Manganese (Mn)	2019/08/27	101	80 - 120	99	80 - 120	<1.0	ug/L				
6305208	Total Molybdenum (Mo)	2019/08/27	101	80 - 120	103	80 - 120	<1.0	ug/L				
6305208	Total Nickel (Ni)	2019/08/27	100	80 - 120	100	80 - 120	<1.0	ug/L				
6305208	Total Selenium (Se)	2019/08/27	103	80 - 120	101	80 - 120	<0.10	ug/L				
6305208	Total Silicon (Si)	2019/08/27	105	80 - 120	106	80 - 120	<100	ug/L				
6305208	Total Silver (Ag)	2019/08/27	100	80 - 120	101	80 - 120	<0.020	ug/L				
6305208	Total Strontium (Sr)	2019/08/27	101	80 - 120	102	80 - 120	<1.0	ug/L				
6305208	Total Thallium (Tl)	2019/08/27	102	80 - 120	101	80 - 120	<0.010	ug/L				
6305208	Total Tin (Sn)	2019/08/27	101	80 - 120	100	80 - 120	<5.0	ug/L				
6305208	Total Titanium (Ti)	2019/08/27	102	80 - 120	102	80 - 120	<5.0	ug/L				
6305208	Total Uranium (U)	2019/08/27	100	80 - 120	100	80 - 120	<0.10	ug/L				
6305208	Total Vanadium (V)	2019/08/27	100	80 - 120	99	80 - 120	<5.0	ug/L				
6305208	Total Zinc (Zn)	2019/08/27	103	80 - 120	101	80 - 120	<5.0	ug/L				
6305208	Total Zirconium (Zr)	2019/08/27	104	80 - 120	103	80 - 120	<0.10	ug/L				



BUREAU
VERITAS

BV Labs Job #: B9N3261

Report Date: 2019/09/13

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

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
6318582	Radium-226	2019/09/11			91	85 - 115	<0.0050	Bq/L				

N/A = Not Applicable

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 $\leq$ 2x RDL).



BUREAU
VERITAS

BV Labs Job #: B9N3261

Report Date: 2019/09/13

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

David Huang, BBY Scientific Specialist

Marjolen Busslinger, Scientific Specialist

Robert Allen, Scientific Specialist

BV Labs 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

BV Labs Job #: B9N3261

Report Date: 2019/09/13

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/23
Report #: R5892469
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B903972

Received: 2019/09/03, 10:00

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/09/04	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/09/05	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	1	2019/09/05	2019/09/10	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry (1)	1	N/A	2019/09/06	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	1	N/A	2019/09/04	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/09/10	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/09/10	2019/09/10	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/09/04	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/09/04	2019/09/04	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2019/09/06	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	1	2019/09/07	2019/09/07	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	1	2019/09/05	2019/09/05	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/09/05	2019/09/05	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	1	N/A	2019/09/10	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/09/09	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/09/09	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/09/08	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/09/03	2019/09/10	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/09/06	2019/09/09	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/09/11	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/09/06	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/09/04	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/09/04	2019/09/04	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/09/05	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/09/21	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/09/05	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/09/04	2019/09/05	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/09/04	2019/09/06	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/09/04	CAM SOP-00446	SM 23 5310B m



Your P.O. #: OL-762849
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/23
Report #: R5892469
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B903972

Received: 2019/09/03, 10:00

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Reference
	Quantity	Extracted			
Total Phosphorus (Colourimetric) (1)	1	2019/09/05	2019/09/05	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/09/04	2019/09/05	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/09/04	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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

(7) "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).



Your P.O. #: OL-762849
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/23
Report #: R5892469
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B903972

Received: 2019/09/03, 10:00

- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
23 Sep 2019 17:56:40

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

BV Labs 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

BV Labs Job #: B903972

Report Date: 2019/09/23

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KRC788		
Sampling Date		2019/08/29 07:00		
	UNITS	MEL-14	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	6319221
Toluene	ug/L	<0.20	0.20	6319221
Ethylbenzene	ug/L	<0.20	0.20	6319221
o-Xylene	ug/L	<0.20	0.20	6319221
p+m-Xylene	ug/L	<0.40	0.40	6319221
Total Xylenes	ug/L	<0.40	0.40	6319221
F1 (C6-C10)	ug/L	<25	25	6319221
F1 (C6-C10) - BTEX	ug/L	<25	25	6319221
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	6320468
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	6320468
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	6320468
Reached Baseline at C50	ug/L	Yes		6320468
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	103		6319221
4-Bromofluorobenzene	%	102		6319221
D10-Ethylbenzene	%	95		6319221
D4-1,2-Dichloroethane	%	105		6319221
o-Terphenyl	%	100		6320468
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B903972

Report Date: 2019/09/23

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KRC788		
Sampling Date		2019/08/29 07:00		
	UNITS	MEL-14	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	391	0.50	6324824
Metals				
Dissolved Aluminum (Al)	ug/L	64.1	3.0	6324826
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	6324826
Dissolved Arsenic (As)	ug/L	1.67	0.10	6324826
Dissolved Barium (Ba)	ug/L	67.7	1.0	6324826
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	6324826
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	6324826
Dissolved Boron (B)	ug/L	181	50	6324826
Dissolved Cadmium (Cd)	ug/L	0.014	0.010	6324826
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	6324826
Dissolved Cobalt (Co)	ug/L	0.40	0.20	6324826
Dissolved Copper (Cu)	ug/L	1.07	0.20	6324826
Dissolved Iron (Fe)	ug/L	34.9	5.0	6324826
Dissolved Lead (Pb)	ug/L	<0.20	0.20	6324826
Dissolved Lithium (Li)	ug/L	58.1	2.0	6324826
Dissolved Manganese (Mn)	ug/L	6.9	1.0	6324826
Dissolved Molybdenum (Mo)	ug/L	1.4	1.0	6324826
Dissolved Nickel (Ni)	ug/L	3.2	1.0	6324826
Dissolved Selenium (Se)	ug/L	0.11	0.10	6324826
Dissolved Silicon (Si)	ug/L	420	100	6324826
Dissolved Silver (Ag)	ug/L	<0.020	0.020	6324826
Dissolved Strontium (Sr)	ug/L	2180	1.0	6324826
Dissolved Thallium (Tl)	ug/L	0.029	0.010	6324826
Dissolved Tin (Sn)	ug/L	<5.0	5.0	6324826
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	6324826
Dissolved Uranium (U)	ug/L	0.27	0.10	6324826
Dissolved Vanadium (V)	ug/L	<5.0	5.0	6324826
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	6324826
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	6324826
Dissolved Calcium (Ca)	mg/L	109	0.050	6324825
Dissolved Magnesium (Mg)	mg/L	28.8	0.050	6324825
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B903972

Report Date: 2019/09/23

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KRC788		
Sampling Date		2019/08/29 07:00		
	UNITS	MEL-14	RDL	QC Batch
Dissolved Potassium (K)	mg/L	12.9	0.050	6324825
Dissolved Sodium (Na)	mg/L	177	0.050	6324825
Dissolved Sulphur (S)	mg/L	25.0	3.0	6324825
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B903972

Report Date: 2019/09/23

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KRC788		
Sampling Date		2019/08/29 07:00		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	515	3.0	6324823
Total Antimony (Sb)	ug/L	<0.50	0.50	6324823
Total Arsenic (As)	ug/L	1.99	0.10	6324823
Total Barium (Ba)	ug/L	72.4	1.0	6324823
Total Beryllium (Be)	ug/L	<0.10	0.10	6324823
Total Bismuth (Bi)	ug/L	<1.0	1.0	6324823
Total Boron (B)	ug/L	181	50	6324823
Total Cadmium (Cd)	ug/L	0.013	0.010	6324823
Total Chromium (Cr)	ug/L	<1.0	1.0	6324823
Total Cobalt (Co)	ug/L	0.43	0.20	6324823
Total Copper (Cu)	ug/L	1.16	0.50	6324823
Total Iron (Fe)	ug/L	95	10	6324823
Total Lead (Pb)	ug/L	0.22	0.20	6324823
Total Lithium (Li)	ug/L	54.5	2.0	6324823
Total Manganese (Mn)	ug/L	16.5	1.0	6324823
Total Molybdenum (Mo)	ug/L	1.5	1.0	6324823
Total Nickel (Ni)	ug/L	3.3	1.0	6324823
Total Selenium (Se)	ug/L	0.12	0.10	6324823
Total Silicon (Si)	ug/L	475	100	6324823
Total Silver (Ag)	ug/L	<0.020	0.020	6324823
Total Strontium (Sr)	ug/L	2260	1.0	6324823
Total Thallium (Tl)	ug/L	0.027	0.010	6324823
Total Tin (Sn)	ug/L	<5.0	5.0	6324823
Total Titanium (Ti)	ug/L	<5.0	5.0	6324823
Total Uranium (U)	ug/L	0.35	0.10	6324823
Total Vanadium (V)	ug/L	<5.0	5.0	6324823
Total Zinc (Zn)	ug/L	<5.0	5.0	6324823
Total Zirconium (Zr)	ug/L	<0.10	0.10	6324823
Total Calcium (Ca)	ug/L	118000	50	6324822
Total Magnesium (Mg)	ug/L	35800	50	6324822
Total Potassium (K)	ug/L	13500	50	6324822
Total Sodium (Na)	ug/L	193000	50	6324822
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B903972
Report Date: 2019/09/23

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KRC788		
Sampling Date		2019/08/29 07:00		
	UNITS	MEL-14	RDL	QC Batch
Total Sulphur (S)	ug/L	26300	3000	6324822
Calculated Parameters				
Total Hardness (CaCO ₃)	ug/L	441000	500	6324821
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BV Labs Job #: B903972
Report Date: 2019/09/23

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

RESULTS OF ANALYSES OF WATER

BV Labs ID		KRC788			KRC788		
Sampling Date		2019/08/29 07:00			2019/08/29 07:00		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	46	1.0	6312256			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6312256			
Inorganics							
Total Ammonia-N	mg/L	2.6	0.050	6316054			
Total BOD	mg/L	<2	2	6315821			
Conductivity	umho/cm	1900	1.0	6313214			
Free Cyanide (CN)	ug/L	1.4 (1)	1.0	6333734	1.4	1.0	6333734
Total Dissolved Solids	mg/L	1170	10	6314915			
Total Kjeldahl Nitrogen (TKN)	mg/L	2.9	0.50	6314349			
Dissolved Organic Carbon	mg/L	10	0.50	6312810			
Total Organic Carbon (TOC)	mg/L	12	0.50	6314284			
Orthophosphate (P)	mg/L	<0.010	0.010	6314482			
Dissolved Oxygen	mg/L	9.60		6314579			
pH	pH	7.71		6313215			
Total Phosphorus	mg/L	0.023	0.020	6316238			
Reactive Silica (SiO ₂)	mg/L	0.75	0.050	6330991			
Total Suspended Solids	mg/L	4	1	6313206			
Dissolved Sulphate (SO ₄)	mg/L	69	1.0	6314480			
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6322313			
Turbidity	NTU	1.4	0.1	6312732			
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6322321			
Alkalinity (Total as CaCO ₃)	mg/L	46	1.0	6313212			
Dissolved Chloride (Cl ⁻)	mg/L	470	5.0	6314477			
Nitrite (N)	mg/L	0.726	0.010	6313187			
Nitrate (N)	mg/L	11.5	0.10	6313187			
Nitrate + Nitrite (N)	mg/L	12.3	0.10	6313187			
RADIONUCLIDE							
Radium-226	Bq/L	<0.0050	0.0050	6326090			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W.							



BV Labs Job #: B903972
Report Date: 2019/09/23

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KRC788		
Sampling Date		2019/08/29 07:00		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6316097
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6316131
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B903972
Report Date: 2019/09/23

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: KRC788
Sample ID: MEL-14
Matrix: Water

Collected: 2019/08/29
Shipped:
Received: 2019/09/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6313212	N/A	2019/09/04	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6312256	N/A	2019/09/05	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6315821	2019/09/05	2019/09/10	Navjot Kaur Gill
Chloride by Automated Colourimetry	KONE	6314477	N/A	2019/09/06	Deonarine Ramnarine
Conductivity	AT	6313214	N/A	2019/09/04	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6322321	N/A	2019/09/10	Gnana Thomas
Total Cyanide	SKAL/CN	6322313	2019/09/10	2019/09/10	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6312810	N/A	2019/09/04	Mandeep Kaur
Dissolved Oxygen	DO	6314579	2019/09/04	2019/09/04	Nusrat Naz
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6319221	N/A	2019/09/06	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6320468	2019/09/07	2019/09/07	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6316131	2019/09/05	2019/09/05	Medhat Nasr
Mercury (low level)	CV/AA	6316097	2019/09/05	2019/09/05	Medhat Nasr
Cyanide (Free)	SPEC	6333734	2019/09/09	2019/09/09	Amy Phan
Hardness Total (calculated as CaCO ₃)	CALC	6324821	N/A	2019/09/10	Report Automation Engine
Hardness (calculated as CaCO ₃)	CALC	6324824	N/A	2019/09/09	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6324825	N/A	2019/09/09	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6324826	N/A	2019/09/08	Valentina Balada
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6324822	2019/09/10	2019/09/10	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6324823	2019/09/06	2019/09/09	Andrew An
Silica (Reactive)	KONE	6330991	N/A	2019/09/11	Serena Tian
Total Ammonia-N	LACH/NH ₄	6316054	N/A	2019/09/06	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6313187	N/A	2019/09/04	Chandra Nandlal
pH	AT	6313215	2019/09/04	2019/09/04	Surinder Rai
Orthophosphate	KONE	6314482	N/A	2019/09/05	Alina Dobreanu
Radium-226 Low Level	AS	6326090	N/A	2019/09/21	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6314480	N/A	2019/09/05	Alina Dobreanu
Total Dissolved Solids	BAL	6314915	2019/09/04	2019/09/05	Nilam Borole
Total Kjeldahl Nitrogen in Water	SKAL	6314349	2019/09/04	2019/09/06	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6314284	N/A	2019/09/04	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6316238	2019/09/05	2019/09/05	Shivani Shivani
Low Level Total Suspended Solids	BAL	6313206	2019/09/04	2019/09/05	Nilam Borole
Turbidity	AT	6312732	N/A	2019/09/04	Kazzandra Adeva

BV Labs ID: KRC788 Dup
Sample ID: MEL-14
Matrix: Water

Collected: 2019/08/29
Shipped:
Received: 2019/09/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (Free)	SPEC	6333734	2019/09/09	2019/09/09	Amy Phan



GENERAL COMMENTS

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

Package 1	17.3°C

Sample KRC788 [MEL-14] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

Results relate only to the items tested.



BV Labs Job #: B9O3972
Report Date: 2019/09/23

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6319221	1,4-Difluorobenzene	2019/09/09	107	70 - 130	99	70 - 130	105	%				
6319221	4-Bromofluorobenzene	2019/09/09	106	70 - 130	101	70 - 130	96	%				
6319221	D10-Ethylbenzene	2019/09/09	84	70 - 130	85	70 - 130	86	%				
6319221	D4-1,2-Dichloroethane	2019/09/09	106	70 - 130	99	70 - 130	101	%				
6320468	o-Terphenyl	2019/09/07	104	60 - 130	106	60 - 130	101	%				
6312732	Turbidity	2019/09/04			95	85 - 115	<0.1	NTU	4.3	20		
6312810	Dissolved Organic Carbon	2019/09/04	95	80 - 120	100	80 - 120	<0.50	mg/L	NC	20		
6313187	Nitrate (N)	2019/09/04	103	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
6313187	Nitrite (N)	2019/09/04	107	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
6313206	Total Suspended Solids	2019/09/05					<1	mg/L	8.0	25	100	85 - 115
6313212	Alkalinity (Total as CaCO3)	2019/09/04			98	85 - 115	<1.0	mg/L	0.97	20		
6313214	Conductivity	2019/09/04			102	85 - 115	<1.0	umho/cm	0.38	25		
6313215	pH	2019/09/04			102	98 - 103			0.50	N/A		
6314284	Total Organic Carbon (TOC)	2019/09/04	83	80 - 120	98	80 - 120	<0.50	mg/L	0.093	20		
6314349	Total Kjeldahl Nitrogen (TKN)	2019/09/05	100	80 - 120	98	80 - 120	<0.10	mg/L	3.1	20	99	80 - 120
6314477	Dissolved Chloride (Cl-)	2019/09/06	NC	80 - 120	103	80 - 120	<1.0	mg/L	5.1	20		
6314480	Dissolved Sulphate (SO4)	2019/09/05	NC	75 - 125	97	80 - 120	<1.0	mg/L	2.5	20		
6314482	Orthophosphate (P)	2019/09/05	110	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
6314915	Total Dissolved Solids	2019/09/05					<10	mg/L	0.90	25	102	90 - 110
6315821	Total BOD	2019/09/10					<2	mg/L	NC	30	94	80 - 120
6316054	Total Ammonia-N	2019/09/06	91	75 - 125	101	80 - 120	<0.050	mg/L	0.80	20		
6316097	Mercury (Hg)	2019/09/05	99	75 - 125	102	80 - 120	<0.00001	mg/L	NC	20		
6316131	Dissolved Mercury (Hg)	2019/09/05	97	75 - 125	102	80 - 120	<0.00001	mg/L	NC	20		
6316238	Total Phosphorus	2019/09/05	99	80 - 120	101	80 - 120	<0.020	mg/L	1.5	20	104	80 - 120
6319221	Benzene	2019/09/09	97	70 - 130	87	70 - 130	<0.20	ug/L	NC	30		
6319221	Ethylbenzene	2019/09/09	91	70 - 130	88	70 - 130	<0.20	ug/L	NC	30		
6319221	F1 (C6-C10) - BTEX	2019/09/09					<25	ug/L	NC	30		
6319221	F1 (C6-C10)	2019/09/09	97	70 - 130	100	70 - 130	<25	ug/L	NC	30		
6319221	o-Xylene	2019/09/09	93	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
6319221	p+m-Xylene	2019/09/09	94	70 - 130	90	70 - 130	<0.40	ug/L	NC	30		
6319221	Toluene	2019/09/09	93	70 - 130	89	70 - 130	<0.20	ug/L	12	30		



BV Labs Job #: B903972
Report Date: 2019/09/23

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6319221	Total Xylenes	2019/09/09					<0.40	ug/L	NC	30		
6320468	F2 (C10-C16 Hydrocarbons)	2019/09/07	114	50 - 130	116	60 - 130	<100	ug/L	NC	30		
6320468	F3 (C16-C34 Hydrocarbons)	2019/09/07	NC	50 - 130	109	60 - 130	<200	ug/L	NC	30		
6320468	F4 (C34-C50 Hydrocarbons)	2019/09/07	109	50 - 130	113	60 - 130	<200	ug/L	NC	30		
6322313	Total Cyanide (CN)	2019/09/09	101	80 - 120	101	80 - 120	<0.0050	mg/L	NC	20		
6322321	WAD Cyanide (Free)	2019/09/09	108	80 - 120	108	80 - 120	<0.0010	mg/L	NC	20		
6324823	Total Aluminum (Al)	2019/09/09	124 (1)	80 - 120	106	80 - 120	<3.0	ug/L				
6324823	Total Antimony (Sb)	2019/09/09	108	80 - 120	102	80 - 120	<0.50	ug/L				
6324823	Total Arsenic (As)	2019/09/09	108	80 - 120	102	80 - 120	<0.10	ug/L				
6324823	Total Barium (Ba)	2019/09/09	106	80 - 120	103	80 - 120	<1.0	ug/L				
6324823	Total Beryllium (Be)	2019/09/09	104	80 - 120	101	80 - 120	<0.10	ug/L				
6324823	Total Bismuth (Bi)	2019/09/09	105	80 - 120	101	80 - 120	<1.0	ug/L				
6324823	Total Boron (B)	2019/09/09	106	80 - 120	103	80 - 120	<50	ug/L				
6324823	Total Cadmium (Cd)	2019/09/09	107	80 - 120	102	80 - 120	<0.010	ug/L				
6324823	Total Chromium (Cr)	2019/09/09	102	80 - 120	99	80 - 120	<1.0	ug/L				
6324823	Total Cobalt (Co)	2019/09/09	102	80 - 120	98	80 - 120	<0.20	ug/L				
6324823	Total Copper (Cu)	2019/09/09	96	80 - 120	94	80 - 120	<0.50	ug/L				
6324823	Total Iron (Fe)	2019/09/09	113	80 - 120	102	80 - 120	<10	ug/L				
6324823	Total Lead (Pb)	2019/09/09	106	80 - 120	102	80 - 120	<0.20	ug/L				
6324823	Total Lithium (Li)	2019/09/09	109	80 - 120	109	80 - 120	<2.0	ug/L				
6324823	Total Manganese (Mn)	2019/09/09	104	80 - 120	100	80 - 120	<1.0	ug/L				
6324823	Total Molybdenum (Mo)	2019/09/09	107	80 - 120	103	80 - 120	<1.0	ug/L				
6324823	Total Nickel (Ni)	2019/09/09	98	80 - 120	97	80 - 120	<1.0	ug/L				
6324823	Total Selenium (Se)	2019/09/09	104	80 - 120	99	80 - 120	<0.10	ug/L				
6324823	Total Silicon (Si)	2019/09/09	117	80 - 120	110	80 - 120	<100	ug/L				
6324823	Total Silver (Ag)	2019/09/09	104	80 - 120	100	80 - 120	<0.020	ug/L				
6324823	Total Strontium (Sr)	2019/09/09	108	80 - 120	103	80 - 120	<1.0	ug/L				
6324823	Total Thallium (Tl)	2019/09/09	105	80 - 120	102	80 - 120	<0.010	ug/L				
6324823	Total Tin (Sn)	2019/09/09	76 (1)	80 - 120	103	80 - 120	<5.0	ug/L				
6324823	Total Titanium (Ti)	2019/09/09	105	80 - 120	100	80 - 120	<5.0	ug/L				
6324823	Total Uranium (U)	2019/09/09	107	80 - 120	100	80 - 120	<0.10	ug/L				
6324823	Total Vanadium (V)	2019/09/09	103	80 - 120	98	80 - 120	<5.0	ug/L				



BV Labs Job #: B9O3972
Report Date: 2019/09/23

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6324823	Total Zinc (Zn)	2019/09/09	100	80 - 120	99	80 - 120	<5.0	ug/L				
6324823	Total Zirconium (Zr)	2019/09/09	108	80 - 120	104	80 - 120	<0.10	ug/L				
6324826	Dissolved Aluminum (Al)	2019/09/08	101	80 - 120	103	80 - 120	<3.0	ug/L				
6324826	Dissolved Antimony (Sb)	2019/09/08	96	80 - 120	99	80 - 120	<0.50	ug/L				
6324826	Dissolved Arsenic (As)	2019/09/08	100	80 - 120	99	80 - 120	<0.10	ug/L				
6324826	Dissolved Barium (Ba)	2019/09/08	97	80 - 120	98	80 - 120	<1.0	ug/L				
6324826	Dissolved Beryllium (Be)	2019/09/08	104	80 - 120	105	80 - 120	<0.10	ug/L				
6324826	Dissolved Bismuth (Bi)	2019/09/08	96	80 - 120	100	80 - 120	<1.0	ug/L				
6324826	Dissolved Boron (B)	2019/09/08	98	80 - 120	101	80 - 120	<50	ug/L				
6324826	Dissolved Cadmium (Cd)	2019/09/08	94	80 - 120	97	80 - 120	<0.010	ug/L				
6324826	Dissolved Chromium (Cr)	2019/09/08	96	80 - 120	97	80 - 120	<1.0	ug/L				
6324826	Dissolved Cobalt (Co)	2019/09/08	91	80 - 120	93	80 - 120	<0.20	ug/L				
6324826	Dissolved Copper (Cu)	2019/09/08	92	80 - 120	95	80 - 120	<0.20	ug/L				
6324826	Dissolved Iron (Fe)	2019/09/08	96	80 - 120	99	80 - 120	<5.0	ug/L				
6324826	Dissolved Lead (Pb)	2019/09/08	97	80 - 120	100	80 - 120	<0.20	ug/L				
6324826	Dissolved Lithium (Li)	2019/09/08	104	80 - 120	109	80 - 120	<2.0	ug/L				
6324826	Dissolved Manganese (Mn)	2019/09/08	97	80 - 120	100	80 - 120	<1.0	ug/L				
6324826	Dissolved Molybdenum (Mo)	2019/09/08	100	80 - 120	99	80 - 120	<1.0	ug/L				
6324826	Dissolved Nickel (Ni)	2019/09/08	93	80 - 120	96	80 - 120	<1.0	ug/L				
6324826	Dissolved Selenium (Se)	2019/09/08	101	80 - 120	101	80 - 120	<0.10	ug/L				
6324826	Dissolved Silicon (Si)	2019/09/08	NC	80 - 120	107	80 - 120	<100	ug/L				
6324826	Dissolved Silver (Ag)	2019/09/08	92	80 - 120	96	80 - 120	<0.020	ug/L				
6324826	Dissolved Strontium (Sr)	2019/09/08	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6324826	Dissolved Thallium (Tl)	2019/09/08	96	80 - 120	99	80 - 120	<0.010	ug/L				
6324826	Dissolved Tin (Sn)	2019/09/08	96	80 - 120	99	80 - 120	<5.0	ug/L				
6324826	Dissolved Titanium (Ti)	2019/09/08	97	80 - 120	98	80 - 120	<5.0	ug/L				
6324826	Dissolved Uranium (U)	2019/09/08	99	80 - 120	100	80 - 120	<0.10	ug/L				
6324826	Dissolved Vanadium (V)	2019/09/08	97	80 - 120	99	80 - 120	<5.0	ug/L				
6324826	Dissolved Zinc (Zn)	2019/09/08	98	80 - 120	101	80 - 120	<5.0	ug/L				
6324826	Dissolved Zirconium (Zr)	2019/09/08	101	80 - 120	99	80 - 120	<0.10	ug/L				
6326090	Radium-226	2019/09/21			95	85 - 115	<0.0050	Bq/L	NC	N/A		
6330991	Reactive Silica (SiO2)	2019/09/11	93	80 - 120	101	80 - 120	<0.050	mg/L				



BUREAU
VERITAS

BV Labs Job #: B903972

Report Date: 2019/09/23

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6333734	Free Cyanide (CN)	2019/09/09	96	80 - 120	95	80 - 120	<1.0	ug/L	0	20		

N/A = Not Applicable

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 $\leq$ 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B903972

Report Date: 2019/09/23

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Harry (Peng) Liang, Senior Analyst

Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

Rob Reinert, B.Sc., Scientific Specialist

BV Labs 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

BV Labs Job #: B903972

Report Date: 2019/09/23

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site#: 63°02'15.5" 92°13'06.3"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/23
 Report #: R5892488
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9O6583

Received: 2019/09/05, 10:00

Sample Matrix: Water
 # Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	2	N/A	2019/09/09	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	2	N/A	2019/09/10	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	2	2019/09/06	2019/09/11	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry (1)	2	N/A	2019/09/10	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	2	N/A	2019/09/09	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	2	N/A	2019/09/12	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	2	2019/09/12	2019/09/12	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	2	N/A	2019/09/07	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	2	2019/09/06	2019/09/06	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	2	N/A	2019/09/10	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	2	2019/09/12	2019/09/13	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	2	2019/09/11	2019/09/12	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	2	2019/09/10	2019/09/10	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	2	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	2	N/A	2019/09/12	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	2	N/A	2019/09/11	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	2	N/A	2019/09/11	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	2	N/A	2019/09/10	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	2	2019/09/05	2019/09/12	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	2	2019/09/11	2019/09/11	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	2	N/A	2019/09/11	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	2	N/A	2019/09/10	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	2	N/A	2019/09/08	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	2	2019/09/06	2019/09/09	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	2	N/A	2019/09/09	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	2	N/A	2019/09/22	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	2	N/A	2019/09/09	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	2	2019/09/07	2019/09/09	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	2	2019/09/07	2019/09/11	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	2	N/A	2019/09/07	CAM SOP-00446	SM 23 5310B m



Your P.O. #: OL-762849
Site#: 63°02'15.5" 92°13'06.3"
Site Location: MELIADINE

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

Report Date: 2019/09/23
Report #: R5892488
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B906583

Received: 2019/09/05, 10:00

Sample Matrix: Water
Samples Received: 2

Analyses	Date		Date Analyzed	Laboratory Method	Reference
	Quantity	Extracted			
Total Phosphorus (Colourimetric) (1)	2	2019/09/09	2019/09/10	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	2	2019/09/06	2019/09/09	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	2	N/A	2019/09/06	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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

(7) "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).



Your P.O. #: OL-762849
Site#: 63°02'15.5" 92°13'06.3"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/23
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CERTIFICATE OF ANALYSIS

BV LABS JOB #: B906583

Received: 2019/09/05, 10:00

- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
23 Sep 2019 18:04:11

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

BV Labs 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.



BV Labs Job #: B906583
Report Date: 2019/09/23

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KRR353	KRR354		
Sampling Date		2019/09/03 07:30	2019/09/03 07:30		
	UNITS	MEL-14	MEL-14 DUP	RDL	QC Batch
BTEX & F1 Hydrocarbons					
Benzene	ug/L	<0.20	<0.20	0.20	6322927
Toluene	ug/L	<0.20	<0.20	0.20	6322927
Ethylbenzene	ug/L	<0.20	<0.20	0.20	6322927
o-Xylene	ug/L	<0.20	<0.20	0.20	6322927
p+m-Xylene	ug/L	<0.40	<0.40	0.40	6322927
Total Xylenes	ug/L	<0.40	<0.40	0.40	6322927
F1 (C6-C10)	ug/L	<25	<25	25	6322927
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	6322927
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	6328987
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	6328987
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	6328987
Reached Baseline at C50	ug/L	Yes	Yes		6328987
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	102	94		6322927
4-Bromofluorobenzene	%	98	109		6322927
D10-Ethylbenzene	%	108	112		6322927
D4-1,2-Dichloroethane	%	102	93		6322927
o-Terphenyl	%	98	98		6328987
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



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VERITAS

BV Labs Job #: B906583

Report Date: 2019/09/23

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KRR353	KRR354		
Sampling Date		2019/09/03 07:30	2019/09/03 07:30		
	UNITS	MEL-14	MEL-14 DUP	RDL	QC Batch
Calculated Parameters					
Dissolved Hardness (CaCO ₃)	mg/L	450	443	0.50	6329082
Metals					
Dissolved Aluminum (Al)	ug/L	58.4	55.6	3.0	6329083
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	6329083
Dissolved Arsenic (As)	ug/L	1.76	1.74	0.10	6329083
Dissolved Barium (Ba)	ug/L	74.5	73.9	1.0	6329083
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	0.10	6329083
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	6329083
Dissolved Boron (B)	ug/L	196	195	50	6329083
Dissolved Cadmium (Cd)	ug/L	0.019	0.016	0.010	6329083
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	6329083
Dissolved Cobalt (Co)	ug/L	0.59	0.58	0.20	6329083
Dissolved Copper (Cu)	ug/L	1.01	1.00	0.20	6329083
Dissolved Iron (Fe)	ug/L	100	99.3	5.0	6329083
Dissolved Lead (Pb)	ug/L	0.36	<0.20	0.20	6329083
Dissolved Lithium (Li)	ug/L	56.4	55.3	2.0	6329083
Dissolved Manganese (Mn)	ug/L	33.5	32.7	1.0	6329083
Dissolved Molybdenum (Mo)	ug/L	5.4	6.7	1.0	6329083
Dissolved Nickel (Ni)	ug/L	3.9	3.8	1.0	6329083
Dissolved Selenium (Se)	ug/L	0.14	0.13	0.10	6329083
Dissolved Silicon (Si)	ug/L	635	653	100	6329083
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	0.020	6329083
Dissolved Strontium (Sr)	ug/L	2330	2370	1.0	6329083
Dissolved Thallium (Tl)	ug/L	0.027	0.027	0.010	6329083
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	6329083
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	6329083
Dissolved Uranium (U)	ug/L	0.30	0.30	0.10	6329083
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	5.0	6329083
Dissolved Zinc (Zn)	ug/L	10.7	7.2	5.0	6329083
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	0.10	6329083
Dissolved Calcium (Ca)	mg/L	125	124	0.050	6326574
Dissolved Magnesium (Mg)	mg/L	33.5	32.6	0.050	6326574
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



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VERITAS

BV Labs Job #: B906583

Report Date: 2019/09/23

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KRR353	KRR354		
Sampling Date		2019/09/03 07:30	2019/09/03 07:30		
	UNITS	MEL-14	MEL-14 DUP	RDL	QC Batch
Dissolved Potassium (K)	mg/L	14.3	14.1	0.050	6326574
Dissolved Sodium (Na)	mg/L	201	201	0.050	6326574
Dissolved Sulphur (S)	mg/L	31.0	30.7	3.0	6326574
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



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VERITAS

BV Labs Job #: B906583

Report Date: 2019/09/23

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KRR353	KRR354		
Sampling Date		2019/09/03 07:30	2019/09/03 07:30		
	UNITS	MEL-14	MEL-14 DUP	RDL	QC Batch
Metals					
Total Aluminum (Al)	ug/L	543	542	15	6329086
Total Antimony (Sb)	ug/L	<2.5	<2.5	2.5	6329086
Total Arsenic (As)	ug/L	2.00	1.94	0.50	6329086
Total Barium (Ba)	ug/L	72.6	73.9	5.0	6329086
Total Beryllium (Be)	ug/L	<0.50	<0.50	0.50	6329086
Total Bismuth (Bi)	ug/L	<5.0	<5.0	5.0	6329086
Total Boron (B)	ug/L	<250	<250	250	6329086
Total Cadmium (Cd)	ug/L	<0.050	<0.050	0.050	6329086
Total Chromium (Cr)	ug/L	<5.0	<5.0	5.0	6329086
Total Cobalt (Co)	ug/L	<1.0	<1.0	1.0	6329086
Total Copper (Cu)	ug/L	<2.5	<2.5	2.5	6329086
Total Iron (Fe)	ug/L	122	131	50	6329086
Total Lead (Pb)	ug/L	<1.0	<1.0	1.0	6329086
Total Lithium (Li)	ug/L	58	57	10	6329086
Total Manganese (Mn)	ug/L	39.4	40.8	5.0	6329086
Total Molybdenum (Mo)	ug/L	<5.0	<5.0	5.0	6329086
Total Nickel (Ni)	ug/L	<5.0	<5.0	5.0	6329086
Total Selenium (Se)	ug/L	<0.50	<0.50	0.50	6329086
Total Silicon (Si)	ug/L	677	744	500	6329086
Total Silver (Ag)	ug/L	<0.10	<0.10	0.10	6329086
Total Strontium (Sr)	ug/L	2040	2090	5.0	6329086
Total Thallium (Tl)	ug/L	<0.050	<0.050	0.050	6329086
Total Tin (Sn)	ug/L	<25	<25	25	6329086
Total Titanium (Ti)	ug/L	<25	<25	25	6329086
Total Uranium (U)	ug/L	<0.50	<0.50	0.50	6329086
Total Vanadium (V)	ug/L	<25	<25	25	6329086
Total Zinc (Zn)	ug/L	<25	<25	25	6329086
Total Zirconium (Zr)	ug/L	<0.50	<0.50	0.50	6329086
Total Calcium (Ca)	ug/L	128000	139000	250	6329085
Total Magnesium (Mg)	ug/L	33900	34400	250	6329085
Total Potassium (K)	ug/L	13900	14300	250	6329085
Total Sodium (Na)	ug/L	201000	208000	250	6329085
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BV Labs Job #: B906583
Report Date: 2019/09/23

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KRR353	KRR354		
Sampling Date		2019/09/03 07:30	2019/09/03 07:30		
	UNITS	MEL-14	MEL-14 DUP	RDL	QC Batch
Total Sulphur (S)	ug/L	28500	27400	15000	6329085
Calculated Parameters					
Total Hardness (CaCO3)	ug/L	460000	489000	500	6329084
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BV Labs Job #: B906583
Report Date: 2019/09/23

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

RESULTS OF ANALYSES OF WATER

BV Labs ID		KRR353			KRR353			KRR354		
Sampling Date		2019/09/03 07:30			2019/09/03 07:30			2019/09/03 07:30		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch	MEL-14 DUP	RDL	QC Batch

Calculated Parameters

Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	47	1.0	6316385				47	1.0	6316385
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6316385				<1.0	1.0	6316385

Inorganics

Total Ammonia-N	mg/L	3.4	0.050	6320681				3.5	0.050	6320684
Total BOD	mg/L	<2	2	6318047	<2	2	6318047	<2	2	6318047
Conductivity	umho/cm	2100	1.0	6319060				2100	1.0	6319060
Free Cyanide (CN)	ug/L	2.1 (1)	1.0	6333734				1.9 (1)	1.0	6333734
Total Dissolved Solids	mg/L	1300	10	6320579				1290	10	6320579
Total Kjeldahl Nitrogen (TKN)	mg/L	4.2	0.50	6320655				4.3	0.50	6320655
Dissolved Organic Carbon	mg/L	10	0.50	6318935				10	0.50	6318935
Total Organic Carbon (TOC)	mg/L	12	0.50	6320673				12	0.50	6320673
Orthophosphate (P)	mg/L	<0.010	0.010	6319195				<0.010	0.010	6319195
Dissolved Oxygen	mg/L	10.4		6319125	10.5		6319125	10.7		6319125
pH	pH	7.53		6319064				7.56		6319064
Total Phosphorus	mg/L	<0.020	0.020	6322845				<0.020	0.020	6322845
Reactive Silica (SiO ₂)	mg/L	1.2	0.050	6330991				1.2	0.050	6334506
Total Suspended Solids	mg/L	5	1	6319162				5	1	6319162
Dissolved Sulphate (SO ₄)	mg/L	82	1.0	6319191				81	1.0	6319191
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6328646				<0.0050	0.0050	6328646
Turbidity	NTU	1.0	0.1	6318945	0.9	0.1	6318945	1.0	0.1	6318945
WAD Cyanide (Free)	mg/L	0.0010	0.0010	6328655				0.0016	0.0010	6328655
Alkalinity (Total as CaCO ₃)	mg/L	47	1.0	6319052				47	1.0	6319052
Dissolved Chloride (Cl ⁻)	mg/L	530	5.0	6319187				520	5.0	6319187
Nitrite (N)	mg/L	0.595	0.010	6319329				0.594	0.010	6319329
Nitrate (N)	mg/L	12.3	0.10	6319329				12.3	0.10	6319329
Nitrate + Nitrite (N)	mg/L	12.9	0.10	6319329				12.9	0.10	6319329

RADIONUCLIDE

Radium-226	Bq/L	<0.0050	0.0050	6326090				<0.0050	0.0050	6326090

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) See general comments for notes regarding CNFREE-W.



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VERITAS

BV Labs Job #: B906583

Report Date: 2019/09/23

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

RESULTS OF ANALYSES OF WATER

BV Labs ID		KRR354		
Sampling Date		2019/09/03 07:30		
	UNITS	MEL-14 DUP Lab-Dup	RDL	QC Batch

Inorganics				
Total Organic Carbon (TOC)	mg/L	12	0.50	6320673
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				
Lab-Dup = Laboratory Initiated Duplicate				



BV Labs Job #: B906583
Report Date: 2019/09/23

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KRR353	KRR354		
Sampling Date		2019/09/03 07:30	2019/09/03 07:30		
	UNITS	MEL-14	MEL-14 DUP	RDL	QC Batch
Metals					
Mercury (Hg)	mg/L	<0.00001	<0.00001	0.00001	6323652
Dissolved Mercury (Hg)	mg/L	<0.00001	<0.00001	0.00001	6325823
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BV Labs Job #: B906583
Report Date: 2019/09/23

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

TEST SUMMARY

BV Labs ID: KRR353
Sample ID: MEL-14
Matrix: Water

Collected: 2019/09/03
Shipped:
Received: 2019/09/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6319052	N/A	2019/09/09	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6316385	N/A	2019/09/10	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6318047	2019/09/06	2019/09/11	Navjot Kaur Gill
Chloride by Automated Colourimetry	KONE	6319187	N/A	2019/09/10	Deonarine Ramnarine
Conductivity	AT	6319060	N/A	2019/09/09	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6328655	N/A	2019/09/12	Gnana Thomas
Total Cyanide	SKAL/CN	6328646	2019/09/12	2019/09/12	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6318935	N/A	2019/09/07	Nimarta Singh
Dissolved Oxygen	DO	6319125	2019/09/06	2019/09/06	Frank Zhang
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6322927	N/A	2019/09/10	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6328987	2019/09/12	2019/09/13	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6325823	2019/09/11	2019/09/12	Medhat Nasr
Mercury (low level)	CV/AA	6323652	2019/09/10	2019/09/10	Medhat Nasr
Cyanide (Free)	SPEC	6333734	2019/09/09	2019/09/09	Amy Phan
Hardness Total (calculated as CaCO ₃)	CALC	6329084	N/A	2019/09/12	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6329082	N/A	2019/09/11	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6326574	N/A	2019/09/11	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6329083	N/A	2019/09/10	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6329085	2019/09/12	2019/09/12	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6329086	2019/09/11	2019/09/11	John Choo
Silica (Reactive)	KONE	6330991	N/A	2019/09/11	Serena Tian
Total Ammonia-N	LACH/NH ₄	6320681	N/A	2019/09/10	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6319329	N/A	2019/09/08	Amanpreet Sappal
pH	AT	6319064	2019/09/06	2019/09/09	Surinder Rai
Orthophosphate	KONE	6319195	N/A	2019/09/09	Alina Dobreanu
Radium-226 Low Level	AS	6326090	N/A	2019/09/22	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6319191	N/A	2019/09/09	Alina Dobreanu
Total Dissolved Solids	BAL	6320579	2019/09/07	2019/09/09	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6320655	2019/09/07	2019/09/11	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6320673	N/A	2019/09/07	Nimarta Singh
Total Phosphorus (Colourimetric)	LACH/P	6322845	2019/09/09	2019/09/10	Shivani Shivani
Low Level Total Suspended Solids	BAL	6319162	2019/09/06	2019/09/09	Mandeep Kaur
Turbidity	AT	6318945	N/A	2019/09/06	Kazzandra Adeva

BV Labs ID: KRR353 Dup
Sample ID: MEL-14
Matrix: Water

Collected: 2019/09/03
Shipped:
Received: 2019/09/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Biochemical Oxygen Demand (BOD)	DO	6318047	2019/09/06	2019/09/11	Navjot Kaur Gill
Dissolved Oxygen	DO	6319125	2019/09/06	2019/09/06	Frank Zhang
Turbidity	AT	6318945	N/A	2019/09/06	Kazzandra Adeva



BV Labs Job #: B906583
Report Date: 2019/09/23

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

TEST SUMMARY

BV Labs ID: KRR354
Sample ID: MEL-14 DUP
Matrix: Water

Collected: 2019/09/03
Shipped:
Received: 2019/09/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6319052	N/A	2019/09/09	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6316385	N/A	2019/09/10	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6318047	2019/09/06	2019/09/11	Navjot Kaur Gill
Chloride by Automated Colourimetry	KONE	6319187	N/A	2019/09/10	Deonarine Ramnarine
Conductivity	AT	6319060	N/A	2019/09/09	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6328655	N/A	2019/09/12	Gnana Thomas
Total Cyanide	SKAL/CN	6328646	2019/09/12	2019/09/12	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6318935	N/A	2019/09/07	Nimarta Singh
Dissolved Oxygen	DO	6319125	2019/09/06	2019/09/06	Frank Zhang
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6322927	N/A	2019/09/10	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6328987	2019/09/12	2019/09/13	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6325823	2019/09/11	2019/09/12	Medhat Nasr
Mercury (low level)	CV/AA	6323652	2019/09/10	2019/09/10	Medhat Nasr
Cyanide (Free)	SPEC	6333734	2019/09/09	2019/09/09	Amy Phan
Hardness Total (calculated as CaCO ₃)	CALC	6329084	N/A	2019/09/12	Report Automation Engine
Hardness (calculated as CaCO ₃)	CALC	6329082	N/A	2019/09/11	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6326574	N/A	2019/09/11	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6329083	N/A	2019/09/10	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6329085	2019/09/12	2019/09/12	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6329086	2019/09/11	2019/09/11	John Choo
Silica (Reactive)	KONE	6334506	N/A	2019/09/11	Serena Tian
Total Ammonia-N	LACH/NH ₄	6320684	N/A	2019/09/10	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6319329	N/A	2019/09/08	Amanpreet Sappal
pH	AT	6319064	2019/09/06	2019/09/09	Surinder Rai
Orthophosphate	KONE	6319195	N/A	2019/09/09	Alina Dobreanu
Radium-226 Low Level	AS	6326090	N/A	2019/09/22	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6319191	N/A	2019/09/09	Alina Dobreanu
Total Dissolved Solids	BAL	6320579	2019/09/07	2019/09/09	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6320655	2019/09/07	2019/09/11	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6320673	N/A	2019/09/07	Nimarta Singh
Total Phosphorus (Colourimetric)	LACH/P	6322845	2019/09/09	2019/09/10	Shivani Shivani
Low Level Total Suspended Solids	BAL	6319162	2019/09/06	2019/09/09	Mandeep Kaur
Turbidity	AT	6318945	N/A	2019/09/06	Kazzandra Adeva

BV Labs ID: KRR354 Dup
Sample ID: MEL-14 DUP
Matrix: Water

Collected: 2019/09/03
Shipped:
Received: 2019/09/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	6320673	N/A	2019/09/07	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: B906583

Report Date: 2019/09/23

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

GENERAL COMMENTS

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

Package 1	10.3°C

Sample KRR353 [MEL-14] : Total Cyanide < Free Cyanide: Both values fall within the method uncertainty for duplicates and are likely equivalent. Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

Sample KRR354 [MEL-14 DUP] : Total Cyanide < Free Cyanide: Both values fall within the method uncertainty for duplicates and are likely equivalent. Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Sample KRR353 [MEL-14] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required

Sample KRR354 [MEL-14 DUP] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required

Results relate only to the items tested.



BV Labs Job #: B9O6583
Report Date: 2019/09/23

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
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
6322927	1,4-Difluorobenzene	2019/09/10	103	70 - 130	102	70 - 130	99	%				
6322927	4-Bromofluorobenzene	2019/09/10	98	70 - 130	98	70 - 130	98	%				
6322927	D10-Ethylbenzene	2019/09/10	100	70 - 130	97	70 - 130	102	%				
6322927	D4-1,2-Dichloroethane	2019/09/10	101	70 - 130	102	70 - 130	100	%				
6328987	o-Terphenyl	2019/09/13	106	60 - 130	99	60 - 130	103	%				
6318047	Total BOD	2019/09/11					<2	mg/L	NC	30	101	80 - 120
6318935	Dissolved Organic Carbon	2019/09/07	93	80 - 120	97	80 - 120	<0.50	mg/L	NC	20		
6318945	Turbidity	2019/09/06			97	85 - 115	<0.1	NTU	3.2	20		
6319052	Alkalinity (Total as CaCO3)	2019/09/09			94	85 - 115	<1.0	mg/L				
6319060	Conductivity	2019/09/09			101	85 - 115	<1.0	umho/cm				
6319064	pH	2019/09/09			102	98 - 103						
6319162	Total Suspended Solids	2019/09/09					<1	mg/L	NC	25	95	85 - 115
6319187	Dissolved Chloride (Cl-)	2019/09/10	NC	80 - 120	105	80 - 120	<1.0	mg/L	13	20		
6319191	Dissolved Sulphate (SO4)	2019/09/09	NC	75 - 125	101	80 - 120	<1.0	mg/L	0.95	20		
6319195	Orthophosphate (P)	2019/09/09	94	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
6319329	Nitrate (N)	2019/09/08	102	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
6319329	Nitrite (N)	2019/09/08	91	80 - 120	90	80 - 120	<0.010	mg/L	NC	20		
6320579	Total Dissolved Solids	2019/09/09					<10	mg/L	1.8	25	102	90 - 110
6320655	Total Kjeldahl Nitrogen (TKN)	2019/09/11	NC	80 - 120	100	80 - 120	<0.10	mg/L	0.91	20	100	80 - 120
6320673	Total Organic Carbon (TOC)	2019/09/07	93	80 - 120	97	80 - 120	<0.50	mg/L	0.34	20		
6320681	Total Ammonia-N	2019/09/10	99	75 - 125	102	80 - 120	<0.050	mg/L	NC	20		
6320684	Total Ammonia-N	2019/09/10	80	75 - 125	101	80 - 120	<0.050	mg/L	1.2	20		
6322845	Total Phosphorus	2019/09/10	98	80 - 120	98	80 - 120	<0.020	mg/L	4.4	20	98	80 - 120
6322927	Benzene	2019/09/10	99	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
6322927	Ethylbenzene	2019/09/10	97	70 - 130	93	70 - 130	<0.20	ug/L	4.7	30		
6322927	F1 (C6-C10) - BTEX	2019/09/10					<25	ug/L	NC	30		
6322927	F1 (C6-C10)	2019/09/10	87	70 - 130	99	70 - 130	<25	ug/L	NC	30		
6322927	o-Xylene	2019/09/10	94	70 - 130	91	70 - 130	<0.20	ug/L	4.3	30		
6322927	p+m-Xylene	2019/09/10	97	70 - 130	92	70 - 130	<0.40	ug/L	8.0	30		
6322927	Toluene	2019/09/10	98	70 - 130	96	70 - 130	<0.20	ug/L	3.7	30		
6322927	Total Xylenes	2019/09/10					<0.40	ug/L	7.4	30		



BV Labs Job #: B9O6583
Report Date: 2019/09/23

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
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
6323652	Mercury (Hg)	2019/09/10	95	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6325823	Dissolved Mercury (Hg)	2019/09/12	101	75 - 125	98	80 - 120	<0.00001	mg/L	NC	20		
6326090	Radium-226	2019/09/21			95	85 - 115	<0.0050	Bq/L	NC	N/A		
6328646	Total Cyanide (CN)	2019/09/12	98	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
6328655	WAD Cyanide (Free)	2019/09/12	100	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
6328987	F2 (C10-C16 Hydrocarbons)	2019/09/13	109	50 - 130	103	60 - 130	<100	ug/L	NC	30		
6328987	F3 (C16-C34 Hydrocarbons)	2019/09/13	118	50 - 130	115	60 - 130	<200	ug/L	NC	30		
6328987	F4 (C34-C50 Hydrocarbons)	2019/09/13	118	50 - 130	115	60 - 130	<200	ug/L	NC	30		
6329083	Dissolved Aluminum (Al)	2019/09/10	101	80 - 120	101	80 - 120	<3.0	ug/L	NC	20		
6329083	Dissolved Antimony (Sb)	2019/09/10	101	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
6329083	Dissolved Arsenic (As)	2019/09/10	100	80 - 120	99	80 - 120	<0.10	ug/L	1.0	20		
6329083	Dissolved Barium (Ba)	2019/09/10	99	80 - 120	101	80 - 120	<1.0	ug/L	0.12	20		
6329083	Dissolved Beryllium (Be)	2019/09/10	101	80 - 120	100	80 - 120	<0.10	ug/L	NC	20		
6329083	Dissolved Bismuth (Bi)	2019/09/10	101	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
6329083	Dissolved Boron (B)	2019/09/10	98	80 - 120	97	80 - 120	<50	ug/L	1.7	20		
6329083	Dissolved Cadmium (Cd)	2019/09/10	99	80 - 120	100	80 - 120	<0.010	ug/L	2.1	20		
6329083	Dissolved Chromium (Cr)	2019/09/10	98	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
6329083	Dissolved Cobalt (Co)	2019/09/10	97	80 - 120	100	80 - 120	<0.20	ug/L	0.28	20		
6329083	Dissolved Copper (Cu)	2019/09/10	96	80 - 120	101	80 - 120	<0.20	ug/L	0.095	20		
6329083	Dissolved Iron (Fe)	2019/09/10	102	80 - 120	106	80 - 120	<5.0	ug/L	NC	20		
6329083	Dissolved Lead (Pb)	2019/09/10	102	80 - 120	103	80 - 120	<0.20	ug/L	NC	20		
6329083	Dissolved Lithium (Li)	2019/09/10	103	80 - 120	101	80 - 120	<2.0	ug/L	1.6	20		
6329083	Dissolved Manganese (Mn)	2019/09/10	98	80 - 120	102	80 - 120	<1.0	ug/L	0.038	20		
6329083	Dissolved Molybdenum (Mo)	2019/09/10	101	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
6329083	Dissolved Nickel (Ni)	2019/09/10	98	80 - 120	101	80 - 120	<1.0	ug/L	0.31	20		
6329083	Dissolved Selenium (Se)	2019/09/10	100	80 - 120	101	80 - 120	<0.10	ug/L	NC	20		
6329083	Dissolved Silicon (Si)	2019/09/10	101	80 - 120	102	80 - 120	<100	ug/L	4.1	20		
6329083	Dissolved Silver (Ag)	2019/09/10	98	80 - 120	99	80 - 120	<0.020	ug/L	NC	20		
6329083	Dissolved Strontium (Sr)	2019/09/10	99	80 - 120	100	80 - 120	<1.0	ug/L	1.1	20		
6329083	Dissolved Thallium (Tl)	2019/09/10	102	80 - 120	102	80 - 120	<0.010	ug/L	1.1	20		
6329083	Dissolved Tin (Sn)	2019/09/10	101	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
6329083	Dissolved Titanium (Ti)	2019/09/10	99	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		



BV Labs Job #: B9O6583
Report Date: 2019/09/23

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
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
6329083	Dissolved Uranium (U)	2019/09/10	103	80 - 120	102	80 - 120	<0.10	ug/L	0.38	20		
6329083	Dissolved Vanadium (V)	2019/09/10	99	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
6329083	Dissolved Zinc (Zn)	2019/09/10	102	80 - 120	104	80 - 120	<5.0	ug/L	NC	20		
6329083	Dissolved Zirconium (Zr)	2019/09/10	102	80 - 120	101	80 - 120	<0.10	ug/L	NC	20		
6329086	Total Aluminum (Al)	2019/09/12	NC	80 - 120	103	80 - 120	3.8, RDL=3.0 (1)	ug/L				
6329086	Total Antimony (Sb)	2019/09/12	98	80 - 120	97	80 - 120	<0.50	ug/L				
6329086	Total Arsenic (As)	2019/09/12	97	80 - 120	95	80 - 120	<0.10	ug/L				
6329086	Total Barium (Ba)	2019/09/12	101	80 - 120	100	80 - 120	<1.0	ug/L				
6329086	Total Beryllium (Be)	2019/09/12	92	80 - 120	95	80 - 120	<0.10	ug/L				
6329086	Total Bismuth (Bi)	2019/09/12	99	80 - 120	100	80 - 120	<1.0	ug/L				
6329086	Total Boron (B)	2019/09/12	98	80 - 120	102	80 - 120	<50	ug/L				
6329086	Total Cadmium (Cd)	2019/09/12	96	80 - 120	96	80 - 120	<0.010	ug/L				
6329086	Total Chromium (Cr)	2019/09/12	92	80 - 120	93	80 - 120	<1.0	ug/L				
6329086	Total Cobalt (Co)	2019/09/12	89	80 - 120	92	80 - 120	<0.20	ug/L				
6329086	Total Copper (Cu)	2019/09/12	87	80 - 120	91	80 - 120	<0.50	ug/L				
6329086	Total Iron (Fe)	2019/09/12	NC	80 - 120	103	80 - 120	<10	ug/L				
6329086	Total Lead (Pb)	2019/09/12	99	80 - 120	100	80 - 120	<0.20	ug/L				
6329086	Total Lithium (Li)	2019/09/12	100	80 - 120	99	80 - 120	<2.0	ug/L				
6329086	Total Manganese (Mn)	2019/09/12	NC	80 - 120	94	80 - 120	<1.0	ug/L				
6329086	Total Molybdenum (Mo)	2019/09/12	103	80 - 120	99	80 - 120	<1.0	ug/L				
6329086	Total Nickel (Ni)	2019/09/12	89	80 - 120	91	80 - 120	<1.0	ug/L				
6329086	Total Selenium (Se)	2019/09/12	99	80 - 120	98	80 - 120	<0.10	ug/L				
6329086	Total Silicon (Si)	2019/09/12	NC	80 - 120	107	80 - 120	<100	ug/L				
6329086	Total Silver (Ag)	2019/09/12	97	80 - 120	96	80 - 120	<0.020	ug/L				
6329086	Total Strontium (Sr)	2019/09/12	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6329086	Total Thallium (Tl)	2019/09/12	101	80 - 120	100	80 - 120	<0.010	ug/L				
6329086	Total Tin (Sn)	2019/09/12	100	80 - 120	97	80 - 120	<5.0	ug/L				
6329086	Total Titanium (Ti)	2019/09/12	107	80 - 120	98	80 - 120	<5.0	ug/L				
6329086	Total Uranium (U)	2019/09/12	103	80 - 120	98	80 - 120	<0.10	ug/L				
6329086	Total Vanadium (V)	2019/09/12	94	80 - 120	92	80 - 120	<5.0	ug/L				
6329086	Total Zinc (Zn)	2019/09/12	NC	80 - 120	91	80 - 120	<5.0	ug/L				



BV Labs Job #: B9O6583
Report Date: 2019/09/23

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
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
6329086	Total Zirconium (Zr)	2019/09/12	108	80 - 120	103	80 - 120	<0.10	ug/L				
6330991	Reactive Silica (SiO2)	2019/09/11	93	80 - 120	101	80 - 120	<0.050	mg/L				
6333734	Free Cyanide (CN)	2019/09/09	96	80 - 120	95	80 - 120	<1.0	ug/L	0	20		
6334506	Reactive Silica (SiO2)	2019/09/11	87	80 - 120	101	80 - 120	<0.050	mg/L				

N/A = Not Applicable

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 <= 2x RDL).

(1) Method Blank exceeds acceptance limits for AI. Sample values for AI are >10x the concentration of the method blank and the contamination is considered irrelevant.



BUREAU
VERITAS

BV Labs Job #: B906583

Report Date: 2019/09/23

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Brad Newman, Scientific Service Specialist

Harry (Peng) Liang, Senior Analyst



Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

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BUREAU
VERITAS

BV Labs Job #: B906583

Report Date: 2019/09/23

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site Location: MELIADINE
 Your C.O.C. #: na

Attention: Reporting

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

Report Date: 2019/10/15
 Report #: R5922065
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9P8919

Received: 2019/09/16, 10:05

Sample Matrix: Water
 # Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	2	N/A	2019/09/19	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	2	N/A	2019/09/20	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	2	2019/09/17	2019/09/22	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry (1)	2	N/A	2019/09/18	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	2	N/A	2019/09/19	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	2	N/A	2019/09/20	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	2	2019/09/20	2019/09/20	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	2	N/A	2019/09/19	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	2	2019/09/17	2019/09/17	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	2	N/A	2019/09/20	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	2	2019/09/20	2019/09/20	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	2	2019/09/18	2019/09/18	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	2	2019/09/23	2019/09/23	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	2	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	1	N/A	2019/09/23	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3, 7)	1	N/A	2019/09/24	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	2	N/A	2019/09/23	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	2	N/A	2019/09/23	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	2	N/A	2019/09/23	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/09/17	2019/09/23	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/09/17	2019/09/24	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/09/21	2019/09/22	BBY7SOP-00003/02	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/09/21	2019/09/24	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	2	N/A	2019/09/22	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	2	N/A	2019/09/19	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	2	N/A	2019/09/19	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	2	2019/09/17	2019/09/19	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	2	N/A	2019/09/18	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	2	N/A	2019/10/12	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	2	N/A	2019/09/18	CAM SOP-00464	EPA 375.4 m



Your P.O. #: OL-762849
 Site Location: MELIADINE
 Your C.O.C. #: na

Attention: Reporting

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

Report Date: 2019/10/15
 Report #: R5922065
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9P8919

Received: 2019/09/16, 10:05

Sample Matrix: Water
 # Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Total Dissolved Solids (1)	2	2019/09/18	2019/09/19	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/09/18	2019/09/19	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water (1)	1	2019/09/19	2019/09/20	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	2	N/A	2019/09/20	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	1	2019/09/18	2019/09/18	CAM SOP-00407	SM 23 4500 P B H m
Total Phosphorus (Colourimetric) (1)	1	2019/09/19	2019/09/19	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	2	2019/09/18	2019/09/19	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	2	N/A	2019/09/17	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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



Your P.O. #: OL-762849
Site Location: MELIADINE
Your C.O.C. #: na

Attention: Reporting

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

Report Date: 2019/10/15
Report #: R5922065
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9P8919

Received: 2019/09/16, 10:05

elements of the 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.
(7) "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).
(8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
15 Oct 2019 17:45:10

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

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BV Labs Job #: B9P8919
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KUH648			KUH648			KUH649		
Sampling Date		2019/09/12 06:45			2019/09/12 06:45			2019/09/12 06:45		
COC Number		na			na			na		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch	MEL-14 FB	RDL	QC Batch
BTEX & F1 Hydrocarbons										
Benzene	ug/L	<0.20	0.20	6341938	<0.20	0.20	6341938	<0.20	0.20	6341938
Toluene	ug/L	<0.20	0.20	6341938	<0.20	0.20	6341938	0.55	0.20	6341938
Ethylbenzene	ug/L	<0.20	0.20	6341938	<0.20	0.20	6341938	<0.20	0.20	6341938
o-Xylene	ug/L	<0.20	0.20	6341938	<0.20	0.20	6341938	<0.20	0.20	6341938
p+m-Xylene	ug/L	<0.40	0.40	6341938	<0.40	0.40	6341938	<0.40	0.40	6341938
Total Xylenes	ug/L	<0.40	0.40	6341938	<0.40	0.40	6341938	<0.40	0.40	6341938
F1 (C6-C10)	ug/L	<25	25	6341938	<25	25	6341938	<25	25	6341938
F1 (C6-C10) - BTEX	ug/L	<25	25	6341938	<25	25	6341938	<25	25	6341938
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	6344582				<100	100	6344582
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	6344582				<200	200	6344582
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	6344582				<200	200	6344582
Reached Baseline at C50	ug/L	Yes		6344582				Yes		6344582
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	103		6341938	105		6341938	106		6341938
4-Bromofluorobenzene	%	99		6341938	98		6341938	99		6341938
D10-Ethylbenzene	%	89		6341938	88		6341938	90		6341938
D4-1,2-Dichloroethane	%	96		6341938	95		6341938	94		6341938
o-Terphenyl	%	93		6344582				93		6344582
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										



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BV Labs Job #: B9P8919

Report Date: 2019/10/15

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: LH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KUH648	KUH649		
Sampling Date		2019/09/12 06:45	2019/09/12 06:45		
COC Number		na	na		
	UNITS	MEL-14	MEL-14 FB	RDL	QC Batch
Calculated Parameters					
Dissolved Hardness (CaCO ₃)	mg/L	453	<0.50	0.50	6350501
Metals					
Dissolved Aluminum (Al)	ug/L	42.7	<3.0	3.0	6350675
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	6350675
Dissolved Arsenic (As)	ug/L	2.20	<0.10	0.10	6350675
Dissolved Barium (Ba)	ug/L	78.4	<1.0	1.0	6350675
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	0.10	6350675
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	6350675
Dissolved Boron (B)	ug/L	188	<50	50	6350675
Dissolved Cadmium (Cd)	ug/L	0.014	<0.010	0.010	6350675
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	6350675
Dissolved Cobalt (Co)	ug/L	0.56	<0.20	0.20	6350675
Dissolved Copper (Cu)	ug/L	0.87	<0.20	0.20	6350675
Dissolved Iron (Fe)	ug/L	69.8	<5.0	5.0	6350675
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	0.20	6350675
Dissolved Lithium (Li)	ug/L	54.1	<2.0	2.0	6350675
Dissolved Manganese (Mn)	ug/L	31.6	<1.0	1.0	6350675
Dissolved Molybdenum (Mo)	ug/L	2.1	<1.0	1.0	6350675
Dissolved Nickel (Ni)	ug/L	3.9	<1.0	1.0	6350675
Dissolved Selenium (Se)	ug/L	0.12	<0.10	0.10	6350675
Dissolved Silicon (Si)	ug/L	575	<100	100	6350675
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	0.020	6350675
Dissolved Strontium (Sr)	ug/L	2420	<1.0	1.0	6350675
Dissolved Thallium (Tl)	ug/L	0.011	<0.010	0.010	6350675
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	6350675
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	6350675
Dissolved Uranium (U)	ug/L	0.29	<0.10	0.10	6350675
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	5.0	6350675
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	6350675
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	0.10	6350675
Dissolved Calcium (Ca)	mg/L	128	<0.050	0.050	6350674
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BV Labs Job #: B9P8919
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KUH648	KUH649		
Sampling Date		2019/09/12 06:45	2019/09/12 06:45		
COC Number		na	na		
	UNITS	MEL-14	MEL-14 FB	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	32.7	<0.050	0.050	6350674
Dissolved Potassium (K)	mg/L	14.7	<0.050	0.050	6350674
Dissolved Sodium (Na)	mg/L	205	<0.050	0.050	6350674
Dissolved Sulphur (S)	mg/L	30.0	<3.0	3.0	6350674
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BV Labs Job #: B9P8919
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KUH648			KUH648			KUH649		
Sampling Date		2019/09/12 06:45			2019/09/12 06:45			2019/09/12 06:45		
COC Number		na			na			na		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch	MEL-14 FB	RDL	QC Batch
Metals										
Total Aluminum (Al)	ug/L	254	3.0	6350500	266	3.0	6350500	<3.0	3.0	6350505
Total Antimony (Sb)	ug/L	<0.50	0.50	6350500	<0.50	0.50	6350500	<0.50	0.50	6350505
Total Arsenic (As)	ug/L	2.07	0.10	6350500	2.26	0.10	6350500	<0.10	0.10	6350505
Total Barium (Ba)	ug/L	72.7	1.0	6350500	77.4	1.0	6350500	<1.0	1.0	6350505
Total Beryllium (Be)	ug/L	<0.10	0.10	6350500	<0.10	0.10	6350500	<0.10	0.10	6350505
Total Bismuth (Bi)	ug/L	<1.0	1.0	6350500	<1.0	1.0	6350500	<1.0	1.0	6350505
Total Boron (B)	ug/L	184	50	6350500	199	50	6350500	<50	50	6350505
Total Cadmium (Cd)	ug/L	0.016	0.010	6350500	0.016	0.010	6350500	<0.010	0.010	6350505
Total Chromium (Cr)	ug/L	<1.0	1.0	6350500	<1.0	1.0	6350500	<1.0	1.0	6350505
Total Cobalt (Co)	ug/L	0.51	0.20	6350500	0.52	0.20	6350500	<0.20	0.20	6350505
Total Copper (Cu)	ug/L	0.88	0.50	6350500	0.83	0.50	6350500	<0.50	0.50	6350505
Total Iron (Fe)	ug/L	106	10	6350500	118	10	6350500	<10	10	6350505
Total Lead (Pb)	ug/L	<0.20	0.20	6350500	<0.20	0.20	6350500	<0.20	0.20	6350505
Total Lithium (Li)	ug/L	54.1	2.0	6350500	57.5	2.0	6350500	<2.0	2.0	6350505
Total Manganese (Mn)	ug/L	34.2	1.0	6350500	34.7	1.0	6350500	<1.0	1.0	6350505
Total Molybdenum (Mo)	ug/L	1.8	1.0	6350500	1.9	1.0	6350500	<1.0	1.0	6350505
Total Nickel (Ni)	ug/L	3.6	1.0	6350500	3.6	1.0	6350500	<1.0	1.0	6350505
Total Selenium (Se)	ug/L	0.11	0.10	6350500	0.12	0.10	6350500	<0.10	0.10	6350505
Total Silicon (Si)	ug/L	606	100	6350500	695	100	6350500	<100	100	6350505
Total Silver (Ag)	ug/L	<0.020	0.020	6350500	<0.020	0.020	6350500	<0.020	0.020	6350505
Total Strontium (Sr)	ug/L	1960	1.0	6350500	2120	1.0	6350500	<1.0	1.0	6350505
Total Thallium (Tl)	ug/L	<0.010	0.010	6350500	0.010	0.010	6350500	<0.010	0.010	6350505
Total Tin (Sn)	ug/L	<5.0	5.0	6350500	<5.0	5.0	6350500	<5.0	5.0	6350505
Total Titanium (Ti)	ug/L	<5.0	5.0	6350500	<5.0	5.0	6350500	<5.0	5.0	6350505
Total Uranium (U)	ug/L	0.26	0.10	6350500	0.28	0.10	6350500	<0.10	0.10	6350505
Total Vanadium (V)	ug/L	<5.0	5.0	6350500	<5.0	5.0	6350500	<5.0	5.0	6350505
Total Zinc (Zn)	ug/L	<5.0	5.0	6350500	<5.0	5.0	6350500	<5.0	5.0	6350505
Total Zirconium (Zr)	ug/L	<0.10	0.10	6350500	<0.10	0.10	6350500	<0.10	0.10	6350505
Total Calcium (Ca)	ug/L	120000	50	6350499				<50	50	6350499
Total Magnesium (Mg)	ug/L	29800	50	6350499				<50	50	6350499
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: B9P8919
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KUH648			KUH648			KUH649		
Sampling Date		2019/09/12 06:45			2019/09/12 06:45			2019/09/12 06:45		
COC Number		na			na			na		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch	MEL-14 FB	RDL	QC Batch
Total Potassium (K)	ug/L	15100	50	6350499				<50	50	6350499
Total Sodium (Na)	ug/L	190000	50	6350499				<50	50	6350499
Total Sulphur (S)	ug/L	31300	3000	6350499				<3000	3000	6350499
Calculated Parameters										
Total Hardness (CaCO3)	ug/L	422000	500	6350498				<500	500	6350498
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: B9P8919
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

RESULTS OF ANALYSES OF WATER

BV Labs ID		KUH648			KUH648			KUH649		
Sampling Date		2019/09/12 06:45			2019/09/12 06:45			2019/09/12 06:45		
COC Number		na			na			na		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch	MEL-14 FB	RDL	QC Batch

Calculated Parameters

Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	51	1.0	6336510				<1.0	1.0	6336510
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6336510				<1.0	1.0	6336510

Inorganics

Total Ammonia-N	mg/L	3.5	0.050	6339340				0.16	0.050	6339340
Total BOD	mg/L	<2	2	6337440				<2	2	6337440
Conductivity	umho/cm	2300	1.0	6337672				1.2	1.0	6337672
Free Cyanide (CN)	ug/L	<1.0	1.0	6359390				1.9	1.0	6346444
Total Dissolved Solids	mg/L	1400	10	6339316				<10	10	6339316
Total Kjeldahl Nitrogen (TKN)	mg/L	4.2	0.50	6341810				<0.10	0.10	6335596
Dissolved Organic Carbon	mg/L	11	0.50	6337494				<0.50	0.50	6337494
Total Organic Carbon (TOC)	mg/L	12	0.50	6341297	12	0.50	6341297	<0.50	0.50	6339372
Orthophosphate (P)	mg/L	0.019	0.010	6337817				<0.010	0.010	6337817
Dissolved Oxygen	mg/L	9.49		6337954	9.51		6337954	9.34		6337954
pH	pH	7.59		6337673				6.11		6337673
Total Phosphorus	mg/L	<0.020	0.020	6341102				<0.020	0.020	6339032
Reactive Silica (SiO ₂)	mg/L	1.2	0.050	6359389				<0.050	0.050	6359391
Total Suspended Solids	mg/L	3	1	6338628				<1	1	6338628
Dissolved Sulphate (SO ₄)	mg/L	90	1.0	6337815				<1.0	1.0	6337815
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6343795				<0.0050	0.0050	6343795
Turbidity	NTU	0.4	0.1	6337640				<0.1	0.1	6337640
WAD Cyanide (Free)	mg/L	0.0010	0.0010	6343800				<0.0010	0.0010	6343800
Alkalinity (Total as CaCO ₃)	mg/L	51	1.0	6337659				<1.0	1.0	6337659
Dissolved Chloride (Cl ⁻)	mg/L	550	5.0	6337810				<1.0	1.0	6337810
Nitrite (N)	mg/L	0.585	0.010	6337696				<0.010	0.010	6337696
Nitrate (N)	mg/L	13.5	0.10	6337696				<0.10	0.10	6337696
Nitrate + Nitrite (N)	mg/L	14.1	0.10	6337696				<0.10	0.10	6337696

RADIONUCLIDE

Radium-226	Bq/L	<0.0050	0.0050	6346941				<0.0050	0.0050	6346941

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



BV Labs Job #: B9P8919
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

RESULTS OF ANALYSES OF WATER

BV Labs ID		KUH649		
Sampling Date		2019/09/12 06:45		
COC Number		na		
	UNITS	MEL-14 FB Lab-Dup	RDL	QC Batch
Inorganics				
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6343795
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6343800
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate				



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BV Labs Job #: B9P8919
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KUH648	KUH649			KUH649		
Sampling Date		2019/09/12 06:45	2019/09/12 06:45			2019/09/12 06:45		
COC Number		na	na			na		
	UNITS	MEL-14	MEL-14 FB	RDL	QC Batch	MEL-14 FB Lab-Dup	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00001	<0.00001	0.00001	6346709	<0.00001	0.00001	6346709
Dissolved Mercury (Hg)	mg/L	<0.00001	<0.00001	0.00001	6338946			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								



BV Labs Job #: B9P8919
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

TEST SUMMARY

BV Labs ID: KUH648
Sample ID: MEL-14
Matrix: Water

Collected: 2019/09/12
Shipped:
Received: 2019/09/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6337659	N/A	2019/09/19	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6336510	N/A	2019/09/20	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6337440	2019/09/17	2019/09/22	Frank Zhang
Chloride by Automated Colourimetry	KONE	6337810	N/A	2019/09/18	Deonarine Ramnarine
Conductivity	AT	6337672	N/A	2019/09/19	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6343800	N/A	2019/09/20	Gnana Thomas
Total Cyanide	SKAL/CN	6343795	2019/09/20	2019/09/20	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6337494	N/A	2019/09/19	Mandeep Kaur
Dissolved Oxygen	DO	6337954	2019/09/17	2019/09/17	Frank Zhang
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6341938	N/A	2019/09/20	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6344582	2019/09/20	2019/09/20	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6338946	2019/09/18	2019/09/18	Medhat Nasr
Mercury (low level)	CV/AA	6346709	2019/09/23	2019/09/23	Medhat Nasr
Cyanide (Free)	SPEC	6359390	2019/09/23	2019/09/23	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6350498	N/A	2019/09/24	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6350501	N/A	2019/09/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6350674	N/A	2019/09/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6350675	N/A	2019/09/23	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6350499	2019/09/24	2019/09/24	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6350500	2019/09/21	2019/09/24	John Choo
Silica (Reactive)	KONE	6359389	N/A	2019/09/22	Serena Tian
Total Ammonia-N	LACH/NH ₄	6339340	N/A	2019/09/19	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6337696	N/A	2019/09/19	Chandra Nandlal
pH	AT	6337673	2019/09/17	2019/09/19	Surinder Rai
Orthophosphate	KONE	6337817	N/A	2019/09/18	Alina Dobreanu
Radium-226 Low Level	AS	6346941	N/A	2019/10/12	Barbara Kalbasi Esfahani
Sulphate by Automated Colourimetry	KONE	6337815	N/A	2019/09/18	Alina Dobreanu
Total Dissolved Solids	BAL	6339316	2019/09/18	2019/09/19	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6341810	2019/09/19	2019/09/20	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6341297	N/A	2019/09/20	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6341102	2019/09/19	2019/09/19	Shivani Shivani
Low Level Total Suspended Solids	BAL	6338628	2019/09/18	2019/09/19	Mandeep Kaur
Turbidity	AT	6337640	N/A	2019/09/17	Neil Dassanayake

BV Labs ID: KUH648 Dup
Sample ID: MEL-14
Matrix: Water

Collected: 2019/09/12
Shipped:
Received: 2019/09/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Oxygen	DO	6337954	2019/09/17	2019/09/17	Frank Zhang
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6341938	N/A	2019/09/20	Anca Ganea
Elements by CRC ICPMS (total)	ICP/MS	6350500	2019/09/21	2019/09/24	John Choo
Total Organic Carbon (TOC)	TOCV/NDIR	6341297	N/A	2019/09/20	Mandeep Kaur



BV Labs Job #: B9P8919
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

TEST SUMMARY

BV Labs ID: KUH649
Sample ID: MEL-14 FB
Matrix: Water

Collected: 2019/09/12
Shipped:
Received: 2019/09/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6337659	N/A	2019/09/19	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6336510	N/A	2019/09/20	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6337440	2019/09/17	2019/09/22	Frank Zhang
Chloride by Automated Colourimetry	KONE	6337810	N/A	2019/09/18	Deonarine Ramnarine
Conductivity	AT	6337672	N/A	2019/09/19	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6343800	N/A	2019/09/20	Gnana Thomas
Total Cyanide	SKAL/CN	6343795	2019/09/20	2019/09/20	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6337494	N/A	2019/09/19	Mandeep Kaur
Dissolved Oxygen	DO	6337954	2019/09/17	2019/09/17	Frank Zhang
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6341938	N/A	2019/09/20	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6344582	2019/09/20	2019/09/20	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6338946	2019/09/18	2019/09/18	Medhat Nasr
Mercury (low level)	CV/AA	6346709	2019/09/23	2019/09/23	Medhat Nasr
Cyanide (Free)	SPEC	6346444	2019/09/20	2019/09/20	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6350498	N/A	2019/09/23	Report Automation Engine
Hardness (calculated as CaCO ₃)	CALC	6350501	N/A	2019/09/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6350674	N/A	2019/09/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6350675	N/A	2019/09/23	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6350499	2019/09/23	2019/09/23	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6350505	2019/09/21	2019/09/22	Vanessa Chan
Silica (Reactive)	KONE	6359391	N/A	2019/09/22	Serena Tian
Total Ammonia-N	LACH/NH ₄	6339340	N/A	2019/09/19	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6337696	N/A	2019/09/19	Chandra Nandlal
pH	AT	6337673	2019/09/17	2019/09/19	Surinder Rai
Orthophosphate	KONE	6337817	N/A	2019/09/18	Alina Dobreanu
Radium-226 Low Level	AS	6346941	N/A	2019/10/12	Barbara Kalbasi Esfahani
Sulphate by Automated Colourimetry	KONE	6337815	N/A	2019/09/18	Alina Dobreanu
Total Dissolved Solids	BAL	6339316	2019/09/18	2019/09/19	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6335596	2019/09/18	2019/09/19	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6339372	N/A	2019/09/20	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6339032	2019/09/18	2019/09/18	Shivani Shivani
Low Level Total Suspended Solids	BAL	6338628	2019/09/18	2019/09/19	Mandeep Kaur
Turbidity	AT	6337640	N/A	2019/09/17	Neil Dassanayake

BV Labs ID: KUH649 Dup
Sample ID: MEL-14 FB
Matrix: Water

Collected: 2019/09/12
Shipped:
Received: 2019/09/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	6343800	N/A	2019/09/20	Gnana Thomas
Total Cyanide	SKAL/CN	6343795	2019/09/20	2019/09/20	Gnana Thomas
Mercury (low level)	CV/AA	6346709	2019/09/23	2019/09/23	Medhat Nasr



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VERITAS

BV Labs Job #: B9P8919

Report Date: 2019/10/15

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: LH

GENERAL COMMENTS

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

Package 1	17.0°C

Sample KUH648 [MEL-14] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for free cyanide analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Total Cyanide < Free Cyanide: Both values fall within the method uncertainty for duplicates and are likely equivalent. ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample KUH649 [MEL-14 FB] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

WAD Cyanide < Free Cyanide: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for free cyanide analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Matrix Spike Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required

Results relate only to the items tested.



BV Labs Job #: B9P8919
Report Date: 2019/10/15

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6341938	1,4-Difluorobenzene	2019/09/20	104	70 - 130	103	70 - 130	104	%				
6341938	4-Bromofluorobenzene	2019/09/20	99	70 - 130	100	70 - 130	99	%				
6341938	D10-Ethylbenzene	2019/09/20	91	70 - 130	90	70 - 130	88	%				
6341938	D4-1,2-Dichloroethane	2019/09/20	96	70 - 130	98	70 - 130	97	%				
6344582	o-Terphenyl	2019/09/20	102	60 - 130	101	60 - 130	98	%				
6335596	Total Kjeldahl Nitrogen (TKN)	2019/09/18	98	80 - 120	99	80 - 120	<0.10	mg/L	5.6	20	99	80 - 120
6337440	Total BOD	2019/09/22					<2	mg/L	NC	30	94	80 - 120
6337494	Dissolved Organic Carbon	2019/09/19	93	80 - 120	98	80 - 120	<0.50	mg/L	0.039	20		
6337640	Turbidity	2019/09/17			95	85 - 115	<0.1	NTU	16	20		
6337659	Alkalinity (Total as CaCO3)	2019/09/19			95	85 - 115	<1.0	mg/L	0.35	20		
6337672	Conductivity	2019/09/19			102	85 - 115	<1.0	umho/cm	0.24	25		
6337673	pH	2019/09/19			102	98 - 103			0.61	N/A		
6337696	Nitrate (N)	2019/09/19	NC	80 - 120	103	80 - 120	<0.10	mg/L	0.11	20		
6337696	Nitrite (N)	2019/09/19	101	80 - 120	102	80 - 120	<0.010	mg/L	4.7	20		
6337810	Dissolved Chloride (Cl-)	2019/09/18	NC	80 - 120	103	80 - 120	<1.0	mg/L	0.0094	20		
6337815	Dissolved Sulphate (SO4)	2019/09/18	NC	75 - 125	106	80 - 120	<1.0	mg/L	0.71	20		
6337817	Orthophosphate (P)	2019/09/18	108	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
6338628	Total Suspended Solids	2019/09/19					<1	mg/L	0	25	98	85 - 115
6338946	Dissolved Mercury (Hg)	2019/09/18	80	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6339032	Total Phosphorus	2019/09/18	96	80 - 120	98	80 - 120	<0.020	mg/L	NC	20	99	80 - 120
6339316	Total Dissolved Solids	2019/09/19					<10	mg/L	1.4	25	98	90 - 110
6339340	Total Ammonia-N	2019/09/19	97	75 - 125	99	80 - 120	<0.050	mg/L	NC	20		
6339372	Total Organic Carbon (TOC)	2019/09/19	NC	80 - 120	96	80 - 120	<0.50	mg/L	1.0	20		
6341102	Total Phosphorus	2019/09/19	96	80 - 120	97	80 - 120	<0.020	mg/L	1.3	20	98	80 - 120
6341297	Total Organic Carbon (TOC)	2019/09/20	97	80 - 120	100	80 - 120	<0.50	mg/L	0.17	20		
6341810	Total Kjeldahl Nitrogen (TKN)	2019/09/19	96	80 - 120	99	80 - 120	<0.10	mg/L	0.97	20	99	80 - 120
6341938	Benzene	2019/09/20	93	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
6341938	Ethylbenzene	2019/09/20	96	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
6341938	F1 (C6-C10) - BTEX	2019/09/20					<25	ug/L	NC	30		
6341938	F1 (C6-C10)	2019/09/20	111	70 - 130	106	70 - 130	<25	ug/L	NC	30		
6341938	o-Xylene	2019/09/20	92	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		



BV Labs Job #: B9P8919
Report Date: 2019/10/15

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6341938	p+m-Xylene	2019/09/20	92	70 - 130	93	70 - 130	<0.40	ug/L	NC	30		
6341938	Toluene	2019/09/20	81	70 - 130	81	70 - 130	<0.20	ug/L	NC	30		
6341938	Total Xylenes	2019/09/20					<0.40	ug/L	NC	30		
6343795	Total Cyanide (CN)	2019/09/20	118	80 - 120	97	80 - 120	<0.0050	mg/L	NC	20		
6343800	WAD Cyanide (Free)	2019/09/20	115	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
6344582	F2 (C10-C16 Hydrocarbons)	2019/09/21	96	50 - 130	104	60 - 130	<100	ug/L	NC	30		
6344582	F3 (C16-C34 Hydrocarbons)	2019/09/21	101	50 - 130	107	60 - 130	<200	ug/L	NC	30		
6344582	F4 (C34-C50 Hydrocarbons)	2019/09/21	106	50 - 130	115	60 - 130	<200	ug/L	NC	30		
6346444	Free Cyanide (CN)	2019/09/20	84	80 - 120	93	80 - 120	<1.0	ug/L	4.9	20		
6346709	Mercury (Hg)	2019/09/23	91	75 - 125	97	80 - 120	<0.00001	mg/L	NC	20		
6346941	Radium-226	2019/10/12			94	85 - 115	<0.0050	Bq/L	NC	N/A		
6350500	Total Aluminum (Al)	2019/09/24	98	80 - 120	104	80 - 120	<3.0	ug/L	4.7	20		
6350500	Total Antimony (Sb)	2019/09/24	106	80 - 120	107	80 - 120	<0.50	ug/L	NC	20		
6350500	Total Arsenic (As)	2019/09/24	111	80 - 120	105	80 - 120	<0.10	ug/L	8.8	20		
6350500	Total Barium (Ba)	2019/09/24	109	80 - 120	111	80 - 120	<1.0	ug/L	6.2	20		
6350500	Total Beryllium (Be)	2019/09/24	99	80 - 120	98	80 - 120	<0.10	ug/L	NC	20		
6350500	Total Bismuth (Bi)	2019/09/24	93	80 - 120	108	80 - 120	<1.0	ug/L	NC	20		
6350500	Total Boron (B)	2019/09/24	NC	80 - 120	101	80 - 120	<50	ug/L	7.6	20		
6350500	Total Cadmium (Cd)	2019/09/24	98	80 - 120	108	80 - 120	<0.010	ug/L	0	20		
6350500	Total Chromium (Cr)	2019/09/24	95	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
6350500	Total Cobalt (Co)	2019/09/24	93	80 - 120	95	80 - 120	<0.20	ug/L	1.9	20		
6350500	Total Copper (Cu)	2019/09/24	86	80 - 120	92	80 - 120	<0.50	ug/L	6.4	20		
6350500	Total Iron (Fe)	2019/09/24	110	80 - 120	112	80 - 120	<10	ug/L	11	20		
6350500	Total Lead (Pb)	2019/09/24	95	80 - 120	106	80 - 120	<0.20	ug/L	NC	20		
6350500	Total Lithium (Li)	2019/09/24	NC	80 - 120	103	80 - 120	<2.0	ug/L	6.2	20		
6350500	Total Manganese (Mn)	2019/09/24	101	80 - 120	98	80 - 120	<1.0	ug/L	1.7	20		
6350500	Total Molybdenum (Mo)	2019/09/24	NC	80 - 120	110	80 - 120	<1.0	ug/L	2.9	20		
6350500	Total Nickel (Ni)	2019/09/24	91	80 - 120	95	80 - 120	<1.0	ug/L	1.1	20		
6350500	Total Selenium (Se)	2019/09/24	102	80 - 120	105	80 - 120	<0.10	ug/L	5.3	20		
6350500	Total Silicon (Si)	2019/09/24	120	80 - 120	114	80 - 120	<100	ug/L	14	20		
6350500	Total Silver (Ag)	2019/09/24	96	80 - 120	110	80 - 120	<0.020	ug/L	NC	20		
6350500	Total Strontium (Sr)	2019/09/24	NC	80 - 120	113	80 - 120	<1.0	ug/L	7.9	20		



BV Labs Job #: B9P8919
Report Date: 2019/10/15

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6350500	Total Thallium (Tl)	2019/09/24	103	80 - 120	109	80 - 120	<0.010	ug/L	0	20		
6350500	Total Tin (Sn)	2019/09/24	105	80 - 120	108	80 - 120	<5.0	ug/L	NC	20		
6350500	Total Titanium (Ti)	2019/09/24	98	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
6350500	Total Uranium (U)	2019/09/24	99	80 - 120	106	80 - 120	<0.10	ug/L	8.1	20		
6350500	Total Vanadium (V)	2019/09/24	108	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
6350500	Total Zinc (Zn)	2019/09/24	100	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
6350500	Total Zirconium (Zr)	2019/09/24	98	80 - 120	113	80 - 120	<0.10	ug/L	NC	20		
6350505	Total Aluminum (Al)	2019/09/22	102	80 - 120	99	80 - 120	<3.0	ug/L				
6350505	Total Antimony (Sb)	2019/09/22	105	80 - 120	101	80 - 120	<0.50	ug/L				
6350505	Total Arsenic (As)	2019/09/22	104	80 - 120	99	80 - 120	<0.10	ug/L				
6350505	Total Barium (Ba)	2019/09/22	103	80 - 120	100	80 - 120	<1.0	ug/L				
6350505	Total Beryllium (Be)	2019/09/22	96	80 - 120	91	80 - 120	<0.10	ug/L				
6350505	Total Bismuth (Bi)	2019/09/22	91	80 - 120	101	80 - 120	<1.0	ug/L				
6350505	Total Boron (B)	2019/09/22	89	80 - 120	88	80 - 120	<50	ug/L				
6350505	Total Cadmium (Cd)	2019/09/22	105	80 - 120	99	80 - 120	<0.010	ug/L				
6350505	Total Chromium (Cr)	2019/09/22	100	80 - 120	99	80 - 120	<1.0	ug/L				
6350505	Total Cobalt (Co)	2019/09/22	100	80 - 120	98	80 - 120	<0.20	ug/L				
6350505	Total Copper (Cu)	2019/09/22	100	80 - 120	98	80 - 120	<0.50	ug/L				
6350505	Total Iron (Fe)	2019/09/22	102	80 - 120	101	80 - 120	<10	ug/L				
6350505	Total Lead (Pb)	2019/09/22	102	80 - 120	101	80 - 120	<0.20	ug/L				
6350505	Total Lithium (Li)	2019/09/22	94	80 - 120	91	80 - 120	<2.0	ug/L				
6350505	Total Manganese (Mn)	2019/09/22	100	80 - 120	98	80 - 120	<1.0	ug/L				
6350505	Total Molybdenum (Mo)	2019/09/22	100	80 - 120	102	80 - 120	<1.0	ug/L				
6350505	Total Nickel (Ni)	2019/09/22	100	80 - 120	99	80 - 120	<1.0	ug/L				
6350505	Total Selenium (Se)	2019/09/22	107	80 - 120	99	80 - 120	<0.10	ug/L				
6350505	Total Silicon (Si)	2019/09/22	102	80 - 120	93	80 - 120	<100	ug/L				
6350505	Total Silver (Ag)	2019/09/22	99	80 - 120	99	80 - 120	<0.020	ug/L				
6350505	Total Strontium (Sr)	2019/09/22	102	80 - 120	99	80 - 120	<1.0	ug/L				
6350505	Total Thallium (Tl)	2019/09/22	102	80 - 120	101	80 - 120	<0.010	ug/L				
6350505	Total Tin (Sn)	2019/09/22	103	80 - 120	100	80 - 120	<5.0	ug/L				
6350505	Total Titanium (Ti)	2019/09/22	103	80 - 120	98	80 - 120	<5.0	ug/L				
6350505	Total Uranium (U)	2019/09/22	101	80 - 120	100	80 - 120	<0.10	ug/L				



BV Labs Job #: B9P8919
Report Date: 2019/10/15

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6350505	Total Vanadium (V)	2019/09/22	100	80 - 120	98	80 - 120	<5.0	ug/L				
6350505	Total Zinc (Zn)	2019/09/22	115	80 - 120	105	80 - 120	<5.0	ug/L				
6350505	Total Zirconium (Zr)	2019/09/22	103	80 - 120	97	80 - 120	<0.10	ug/L				
6350675	Dissolved Aluminum (Al)	2019/09/23	140 (1)	80 - 120	98	80 - 120	<3.0	ug/L				
6350675	Dissolved Antimony (Sb)	2019/09/23	99	80 - 120	102	80 - 120	<0.50	ug/L				
6350675	Dissolved Arsenic (As)	2019/09/23	97	80 - 120	102	80 - 120	<0.10	ug/L				
6350675	Dissolved Barium (Ba)	2019/09/23	99	80 - 120	101	80 - 120	<1.0	ug/L				
6350675	Dissolved Beryllium (Be)	2019/09/23	90	80 - 120	93	80 - 120	<0.10	ug/L				
6350675	Dissolved Bismuth (Bi)	2019/09/23	99	80 - 120	102	80 - 120	<1.0	ug/L				
6350675	Dissolved Boron (B)	2019/09/23	87	80 - 120	90	80 - 120	<50	ug/L				
6350675	Dissolved Cadmium (Cd)	2019/09/23	97	80 - 120	100	80 - 120	<0.010	ug/L				
6350675	Dissolved Chromium (Cr)	2019/09/23	95	80 - 120	99	80 - 120	<1.0	ug/L				
6350675	Dissolved Cobalt (Co)	2019/09/23	94	80 - 120	99	80 - 120	<0.20	ug/L				
6350675	Dissolved Copper (Cu)	2019/09/23	94	80 - 120	99	80 - 120	<0.20	ug/L				
6350675	Dissolved Iron (Fe)	2019/09/23	NC	80 - 120	101	80 - 120	<5.0	ug/L				
6350675	Dissolved Lead (Pb)	2019/09/23	102	80 - 120	103	80 - 120	<0.20	ug/L				
6350675	Dissolved Lithium (Li)	2019/09/23	88	80 - 120	90	80 - 120	<2.0	ug/L				
6350675	Dissolved Manganese (Mn)	2019/09/23	NC	80 - 120	101	80 - 120	<1.0	ug/L				
6350675	Dissolved Molybdenum (Mo)	2019/09/23	100	80 - 120	100	80 - 120	<1.0	ug/L				
6350675	Dissolved Nickel (Ni)	2019/09/23	94	80 - 120	100	80 - 120	<1.0	ug/L				
6350675	Dissolved Selenium (Se)	2019/09/23	101	80 - 120	104	80 - 120	<0.10	ug/L				
6350675	Dissolved Silicon (Si)	2019/09/23	NC	80 - 120	97	80 - 120	<100	ug/L				
6350675	Dissolved Silver (Ag)	2019/09/23	92	80 - 120	100	80 - 120	<0.020	ug/L				
6350675	Dissolved Strontium (Sr)	2019/09/23	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6350675	Dissolved Thallium (Tl)	2019/09/23	100	80 - 120	103	80 - 120	<0.010	ug/L				
6350675	Dissolved Tin (Sn)	2019/09/23	98	80 - 120	101	80 - 120	<5.0	ug/L				
6350675	Dissolved Titanium (Ti)	2019/09/23	105	80 - 120	101	80 - 120	<5.0	ug/L				
6350675	Dissolved Uranium (U)	2019/09/23	104	80 - 120	103	80 - 120	<0.10	ug/L				
6350675	Dissolved Vanadium (V)	2019/09/23	97	80 - 120	98	80 - 120	<5.0	ug/L				
6350675	Dissolved Zinc (Zn)	2019/09/23	102	80 - 120	105	80 - 120	<5.0	ug/L				
6350675	Dissolved Zirconium (Zr)	2019/09/23	102	80 - 120	98	80 - 120	<0.10	ug/L				
6359389	Reactive Silica (SiO2)	2019/09/22	100	80 - 120	100	80 - 120	<0.050	mg/L	6.3	20		



BUREAU
VERITAS

BV Labs Job #: B9P8919

Report Date: 2019/10/15

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6359390	Free Cyanide (CN)	2019/09/23	82	80 - 120	104	80 - 120	<1.0	ug/L				
6359391	Reactive Silica (SiO2)	2019/09/22	88	80 - 120	101	80 - 120	<0.050	mg/L				

N/A = Not Applicable

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 $\leq 2 \times \text{RDL}$).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9P8919

Report Date: 2019/10/15

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: LH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Brad Newman, Scientific Service Specialist

Harry (Peng) Liang, Senior Analyst

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

Rob Reinert, B.Sc., Scientific Specialist

BV Labs 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

BV Labs Job #: B9P8919

Report Date: 2019/10/15

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: LH

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: 573773
 Site#: 63°02'15.5" 92°13'06.3"
 Site Location: MELIADINE
 Your C.O.C. #: na

Attention: Reporting

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

Report Date: 2019/10/16
 Report #: R5922975
 Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9Q3637

Received: 2019/09/19, 11:20

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/09/25	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/09/26	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	1	2019/09/20	2019/09/25	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry (1)	1	N/A	2019/09/24	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	1	N/A	2019/09/25	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/09/24	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/09/23	2019/09/24	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/09/22	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/09/20	2019/09/21	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2019/09/27	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	1	2019/09/28	2019/09/30	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	1	2019/09/23	2019/09/23	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/09/23	2019/09/23	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	1	N/A	2019/09/27	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/09/26	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/09/26	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/09/25	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/09/20	2019/09/27	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/09/25	2019/09/26	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/09/27	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/09/21	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/09/22	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/09/21	2019/09/25	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/09/24	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/10/08	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/09/24	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/09/21	2019/09/23	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/09/21	2019/09/24	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/09/21	CAM SOP-00446	SM 23 5310B m



Your P.O. #: 573773
Site#: 63°02'15.5" 92°13'06.3"
Site Location: MELIADINE
Your C.O.C. #: na

Attention: Reporting

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

Report Date: 2019/10/16
Report #: R5922975
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9Q3637

Received: 2019/09/19, 11:20

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Reference
	Quantity	Extracted			
Total Phosphorus (Colourimetric) (1)	1	2019/09/23	2019/09/24	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/09/21	2019/09/23	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/09/23	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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

(7) "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).



Your P.O. #: 573773
Site#: 63°02'15.5" 92°13'06.3"
Site Location: MELIADINE
Your C.O.C. #: na

Attention: Reporting

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

Report Date: 2019/10/16
Report #: R5922975
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9Q3637

Received: 2019/09/19, 11:20

- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
16 Oct 2019 12:34:53

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B9Q3637

Report Date: 2019/10/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: 573773

Sampler Initials: BH

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KVG143		
Sampling Date		2019/09/17 06:52		
COC Number		na		
	UNITS	MEL-14	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	6357407
Toluene	ug/L	<0.20	0.20	6357407
Ethylbenzene	ug/L	<0.20	0.20	6357407
o-Xylene	ug/L	<0.20	0.20	6357407
p+m-Xylene	ug/L	<0.40	0.40	6357407
Total Xylenes	ug/L	<0.40	0.40	6357407
F1 (C6-C10)	ug/L	<25	25	6357407
F1 (C6-C10) - BTEX	ug/L	<25	25	6357407
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	6358667
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	6358667
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	6358667
Reached Baseline at C50	ug/L	Yes		6358667
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	104		6357407
4-Bromofluorobenzene	%	96		6357407
D10-Ethylbenzene	%	111		6357407
D4-1,2-Dichloroethane	%	100		6357407
o-Terphenyl	%	95		6358667
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9Q3637

Report Date: 2019/10/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: 573773

Sampler Initials: BH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KVG143		
Sampling Date		2019/09/17 06:52		
COC Number		na		
	UNITS	MEL-14	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	392	0.50	6357243
Metals				
Dissolved Aluminum (Al)	ug/L	28.0	3.0	6357245
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	6357245
Dissolved Arsenic (As)	ug/L	1.14	0.10	6357245
Dissolved Barium (Ba)	ug/L	50.6	1.0	6357245
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	6357245
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	6357245
Dissolved Boron (B)	ug/L	350	50	6357245
Dissolved Cadmium (Cd)	ug/L	0.019	0.010	6357245
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	6357245
Dissolved Cobalt (Co)	ug/L	0.37	0.20	6357245
Dissolved Copper (Cu)	ug/L	0.59	0.20	6357245
Dissolved Iron (Fe)	ug/L	43.5	5.0	6357245
Dissolved Lead (Pb)	ug/L	<0.20	0.20	6357245
Dissolved Lithium (Li)	ug/L	65.7	2.0	6357245
Dissolved Manganese (Mn)	ug/L	12.8	1.0	6357245
Dissolved Molybdenum (Mo)	ug/L	1.1	1.0	6357245
Dissolved Nickel (Ni)	ug/L	3.2	1.0	6357245
Dissolved Selenium (Se)	ug/L	0.10	0.10	6357245
Dissolved Silicon (Si)	ug/L	480	100	6357245
Dissolved Silver (Ag)	ug/L	<0.020	0.020	6357245
Dissolved Strontium (Sr)	ug/L	2240	1.0	6357245
Dissolved Thallium (Tl)	ug/L	0.024	0.010	6357245
Dissolved Tin (Sn)	ug/L	<5.0	5.0	6357245
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	6357245
Dissolved Uranium (U)	ug/L	0.35	0.10	6357245
Dissolved Vanadium (V)	ug/L	<5.0	5.0	6357245
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	6357245
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	6357245
Dissolved Calcium (Ca)	mg/L	108	0.050	6357244
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9Q3637

Report Date: 2019/10/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: 573773

Sampler Initials: BH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KVG143		
Sampling Date		2019/09/17 06:52		
COC Number		na		
	UNITS	MEL-14	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	29.8	0.050	6357244
Dissolved Potassium (K)	mg/L	14.7	0.050	6357244
Dissolved Sodium (Na)	mg/L	236	0.050	6357244
Dissolved Sulphur (S)	mg/L	30.1	3.0	6357244
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9Q3637

Report Date: 2019/10/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: 573773

Sampler Initials: BH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KVG143		
Sampling Date		2019/09/17 06:52		
COC Number		na		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	77.4	3.0	6357242
Total Antimony (Sb)	ug/L	<0.50	0.50	6357242
Total Arsenic (As)	ug/L	1.19	0.10	6357242
Total Barium (Ba)	ug/L	53.0	1.0	6357242
Total Beryllium (Be)	ug/L	<0.10	0.10	6357242
Total Bismuth (Bi)	ug/L	<1.0	1.0	6357242
Total Boron (B)	ug/L	327	50	6357242
Total Cadmium (Cd)	ug/L	0.019	0.010	6357242
Total Chromium (Cr)	ug/L	<1.0	1.0	6357242
Total Cobalt (Co)	ug/L	0.43	0.20	6357242
Total Copper (Cu)	ug/L	0.65	0.50	6357242
Total Iron (Fe)	ug/L	276	10	6357242
Total Lead (Pb)	ug/L	<0.20	0.20	6357242
Total Lithium (Li)	ug/L	68.1	2.0	6357242
Total Manganese (Mn)	ug/L	33.8	1.0	6357242
Total Molybdenum (Mo)	ug/L	1.1	1.0	6357242
Total Nickel (Ni)	ug/L	3.4	1.0	6357242
Total Selenium (Se)	ug/L	0.11	0.10	6357242
Total Silicon (Si)	ug/L	419	100	6357242
Total Silver (Ag)	ug/L	<0.020	0.020	6357242
Total Strontium (Sr)	ug/L	2180	1.0	6357242
Total Thallium (Tl)	ug/L	0.022	0.010	6357242
Total Tin (Sn)	ug/L	<5.0	5.0	6357242
Total Titanium (Ti)	ug/L	<5.0	5.0	6357242
Total Uranium (U)	ug/L	0.34	0.10	6357242
Total Vanadium (V)	ug/L	<5.0	5.0	6357242
Total Zinc (Zn)	ug/L	<5.0	5.0	6357242
Total Zirconium (Zr)	ug/L	<0.10	0.10	6357242
Total Calcium (Ca)	ug/L	112000	50	6357241
Total Magnesium (Mg)	ug/L	28700	50	6357241
Total Potassium (K)	ug/L	14300	50	6357241
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9Q3637
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Site Location: MELIADINE
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TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KVG143		
Sampling Date		2019/09/17 06:52		
COC Number		na		
	UNITS	MEL-14	RDL	QC Batch
Total Sodium (Na)	ug/L	227000	50	6357241
Total Sulphur (S)	ug/L	26400	3000	6357241
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	399000	500	6355900
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9Q3637
Report Date: 2019/10/16

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: 573773
Sampler Initials: BH

RESULTS OF ANALYSES OF WATER

BV Labs ID		KVG143			KVG143		
Sampling Date		2019/09/17 06:52			2019/09/17 06:52		
COC Number		na			na		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	25	1.0	6343537			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6343537			
Inorganics							
Total Ammonia-N	mg/L	3.6 (1)	0.050	6345955			
Total BOD	mg/L	<2	2	6344727			
Conductivity	umho/cm	2100	1.0	6345878	2100	1.0	6345878
Free Cyanide (CN)	ug/L	<1.0 (2)	1.0	6362949			
Total Dissolved Solids	mg/L	1290	10	6345856			
Total Kjeldahl Nitrogen (TKN)	mg/L	3.3 (1)	0.50	6345968	3.7	0.50	6345968
Dissolved Organic Carbon	mg/L	4.0	0.50	6345930			
Total Organic Carbon (TOC)	mg/L	4.3	0.50	6346015			
Orthophosphate (P)	mg/L	<0.010	0.010	6345929			
Dissolved Oxygen	mg/L	10.0		6344801	10.0		6344801
pH	pH	7.50		6345880	7.54		6345880
Total Phosphorus	mg/L	<0.020	0.020	6346786	<0.020	0.020	6346786
Reactive Silica (SiO ₂)	mg/L	0.81	0.050	6362948			
Total Suspended Solids	mg/L	2	1	6345784			
Dissolved Sulphate (SO ₄)	mg/L	75	1.0	6345928			
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6347178	<0.0050	0.0050	6347178
Turbidity	NTU	0.9	0.1	6346056			
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6347518	<0.0010	0.0010	6347518
Alkalinity (Total as CaCO ₃)	mg/L	25	1.0	6345874	26	1.0	6345874
Dissolved Chloride (Cl ⁻)	mg/L	530	5.0	6345927			
Nitrite (N)	mg/L	0.464	0.010	6345912			
Nitrate (N)	mg/L	13.7	0.10	6345912			
Nitrate + Nitrite (N)	mg/L	14.1	0.10	6345912			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) TKN < NH ₄ : Both values fall within acceptable RPD limits for duplicates and are likely equivalent. (2) See general comments for notes regarding CNFREE-W							



BUREAU
VERITAS

BV Labs Job #: B9Q3637

Report Date: 2019/10/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: 573773

Sampler Initials: BH

RESULTS OF ANALYSES OF WATER

BV Labs ID		KVG143			KVG143		
Sampling Date		2019/09/17 06:52			2019/09/17 06:52		
COC Number		na			na		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
RADIONUCLIDE							
Radium-226	Bq/L	<0.0050	0.0050	6370167			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BV Labs Job #: B9Q3637
Report Date: 2019/10/16

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: 573773
Sampler Initials: BH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KVG143		
Sampling Date		2019/09/17 06:52		
COC Number		na		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6347148
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6347181
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9Q3637
Report Date: 2019/10/16

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: 573773
Sampler Initials: BH

TEST SUMMARY

BV Labs ID: KVG143
Sample ID: MEL-14
Matrix: Water

Collected: 2019/09/17
Shipped:
Received: 2019/09/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6345874	N/A	2019/09/25	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6343537	N/A	2019/09/26	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6344727	2019/09/20	2019/09/25	Prakash Piya
Chloride by Automated Colourimetry	KONE	6345927	N/A	2019/09/24	Deonarine Ramnarine
Conductivity	AT	6345878	N/A	2019/09/25	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6347518	N/A	2019/09/24	Gnana Thomas
Total Cyanide	SKAL/CN	6347178	2019/09/23	2019/09/24	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6345930	N/A	2019/09/22	Nimarta Singh
Dissolved Oxygen	DO	6344801	2019/09/20	2019/09/21	Prakash Piya
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6357407	N/A	2019/09/27	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6358667	2019/09/28	2019/09/30	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6347181	2019/09/23	2019/09/23	Medhat Nasr
Mercury (low level)	CV/AA	6347148	2019/09/23	2019/09/23	Medhat Nasr
Cyanide (Free)	SPEC	6362949	2019/09/25	2019/09/25	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6355900	N/A	2019/09/27	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6357243	N/A	2019/09/26	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6357244	N/A	2019/09/26	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6357245	N/A	2019/09/25	Valentina Balada
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6357241	2019/09/27	2019/09/27	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6357242	2019/09/25	2019/09/26	Valentina Balada
Silica (Reactive)	KONE	6362948	N/A	2019/09/27	Zafar Iqbal
Total Ammonia-N	LACH/NH ₄	6345955	N/A	2019/09/21	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6345912	N/A	2019/09/22	Amanpreet Sappal
pH	AT	6345880	2019/09/21	2019/09/25	Surinder Rai
Orthophosphate	KONE	6345929	N/A	2019/09/24	Alina Dobreanu
Radium-226 Low Level	AS	6370167	N/A	2019/10/08	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6345928	N/A	2019/09/24	Alina Dobreanu
Total Dissolved Solids	BAL	6345856	2019/09/21	2019/09/23	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6345968	2019/09/21	2019/09/24	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6346015	N/A	2019/09/21	Nimarta Singh
Total Phosphorus (Colourimetric)	LACH/P	6346786	2019/09/23	2019/09/24	Shivani Shivani
Low Level Total Suspended Solids	BAL	6345784	2019/09/21	2019/09/23	Xinyue (Sarah) Hou
Turbidity	AT	6346056	N/A	2019/09/23	Kazzandra Adeva

BV Labs ID: KVG143 Dup
Sample ID: MEL-14
Matrix: Water

Collected: 2019/09/17
Shipped:
Received: 2019/09/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6345874	N/A	2019/09/25	Surinder Rai
Conductivity	AT	6345878	N/A	2019/09/25	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6347518	N/A	2019/09/24	Gnana Thomas
Total Cyanide	SKAL/CN	6347178	2019/09/23	2019/09/24	Gnana Thomas
Dissolved Oxygen	DO	6344801	2019/09/20	2019/09/21	Prakash Piya
pH	AT	6345880	2019/09/21	2019/09/25	Surinder Rai



BV Labs Job #: B9Q3637
Report Date: 2019/10/16

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: 573773
Sampler Initials: BH

TEST SUMMARY

BV Labs ID: KVG143 Dup
Sample ID: MEL-14
Matrix: Water

Collected: 2019/09/17
Shipped:
Received: 2019/09/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	6345968	2019/09/21	2019/09/24	Shivani Shivani
Total Phosphorus (Colourimetric)	LACH/P	6346786	2019/09/23	2019/09/24	Shivani Shivani



BUREAU
VERITAS

BV Labs Job #: B9Q3637

Report Date: 2019/10/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: 573773

Sampler Initials: BH

GENERAL COMMENTS

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

Package 1	9.0°C

Sample KVG143 [MEL-14] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Results relate only to the items tested.



BV Labs Job #: B9Q3637
Report Date: 2019/10/16

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: 573773
Sampler Initials: BH

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
6357407	1,4-Difluorobenzene	2019/09/27	103	70 - 130	104	70 - 130	104	%				
6357407	4-Bromofluorobenzene	2019/09/27	99	70 - 130	98	70 - 130	98	%				
6357407	D10-Ethylbenzene	2019/09/27	87	70 - 130	89	70 - 130	109	%				
6357407	D4-1,2-Dichloroethane	2019/09/27	100	70 - 130	99	70 - 130	99	%				
6358667	o-Terphenyl	2019/09/30	102	60 - 130	101	60 - 130	98	%				
6344727	Total BOD	2019/09/25					<2	mg/L	NC	30	97	80 - 120
6345784	Total Suspended Solids	2019/09/23					<1	mg/L	0	25	95	85 - 115
6345856	Total Dissolved Solids	2019/09/23					<10	mg/L	2.0	25	98	90 - 110
6345874	Alkalinity (Total as CaCO3)	2019/09/25			95	85 - 115	<1.0	mg/L	3.5	20		
6345878	Conductivity	2019/09/25			102	85 - 115	<1.0	umho/cm	0	25		
6345880	pH	2019/09/25			102	98 - 103			0.53	N/A		
6345912	Nitrate (N)	2019/09/22	99	80 - 120	105	80 - 120	<0.10	mg/L	NC	20		
6345912	Nitrite (N)	2019/09/22	104	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
6345927	Dissolved Chloride (Cl-)	2019/09/24	114	80 - 120	103	80 - 120	<1.0	mg/L	0.041	20		
6345928	Dissolved Sulphate (SO4)	2019/09/24	NC	75 - 125	103	80 - 120	<1.0	mg/L	0.089	20		
6345929	Orthophosphate (P)	2019/09/24	114	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
6345930	Dissolved Organic Carbon	2019/09/22	88	80 - 120	96	80 - 120	<0.50	mg/L				
6345955	Total Ammonia-N	2019/09/21	99	75 - 125	101	80 - 120	<0.050	mg/L	1.4	20		
6345968	Total Kjeldahl Nitrogen (TKN)	2019/09/24	NC	80 - 120	102	80 - 120	<0.10	mg/L	10	20	98	80 - 120
6346015	Total Organic Carbon (TOC)	2019/09/21	97	80 - 120	100	80 - 120	<0.50	mg/L	2.4	20		
6346056	Turbidity	2019/09/23			109	85 - 115	<0.1	NTU	1.5	20		
6346786	Total Phosphorus	2019/09/24	100	80 - 120	101	80 - 120	<0.020	mg/L	NC	20	102	N/A
6347148	Mercury (Hg)	2019/09/23	97	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6347178	Total Cyanide (CN)	2019/09/24	94	80 - 120	97	80 - 120	<0.0050	mg/L	NC	20		
6347181	Dissolved Mercury (Hg)	2019/09/23	98	75 - 125	101	80 - 120	<0.00001	mg/L	NC	20		
6347518	WAD Cyanide (Free)	2019/09/24	94	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
6357242	Total Aluminum (Al)	2019/09/26	98	80 - 120	100	80 - 120	<3.0	ug/L				
6357242	Total Antimony (Sb)	2019/09/26	101	80 - 120	101	80 - 120	<0.50	ug/L				
6357242	Total Arsenic (As)	2019/09/26	104	80 - 120	100	80 - 120	<0.10	ug/L				
6357242	Total Barium (Ba)	2019/09/26	101	80 - 120	101	80 - 120	<1.0	ug/L				
6357242	Total Beryllium (Be)	2019/09/26	95	80 - 120	97	80 - 120	<0.10	ug/L				



BV Labs Job #: B9Q3637
Report Date: 2019/10/16

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: 573773
Sampler Initials: BH

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
6357242	Total Bismuth (Bi)	2019/09/26	96	80 - 120	99	80 - 120	<1.0	ug/L				
6357242	Total Boron (B)	2019/09/26	NC	80 - 120	92	80 - 120	<50	ug/L				
6357242	Total Cadmium (Cd)	2019/09/26	98	80 - 120	101	80 - 120	<0.010	ug/L				
6357242	Total Chromium (Cr)	2019/09/26	97	80 - 120	100	80 - 120	<1.0	ug/L				
6357242	Total Cobalt (Co)	2019/09/26	99	80 - 120	101	80 - 120	<0.20	ug/L				
6357242	Total Copper (Cu)	2019/09/26	92	80 - 120	98	80 - 120	<0.50	ug/L				
6357242	Total Iron (Fe)	2019/09/26	99	80 - 120	102	80 - 120	<10	ug/L				
6357242	Total Lead (Pb)	2019/09/26	99	80 - 120	102	80 - 120	<0.20	ug/L				
6357242	Total Lithium (Li)	2019/09/26	94	80 - 120	95	80 - 120	<2.0	ug/L				
6357242	Total Manganese (Mn)	2019/09/26	96	80 - 120	99	80 - 120	<1.0	ug/L				
6357242	Total Molybdenum (Mo)	2019/09/26	105	80 - 120	102	80 - 120	<1.0	ug/L				
6357242	Total Nickel (Ni)	2019/09/26	94	80 - 120	101	80 - 120	<1.0	ug/L				
6357242	Total Selenium (Se)	2019/09/26	103	80 - 120	102	80 - 120	<0.10	ug/L				
6357242	Total Silicon (Si)	2019/09/26	NC	80 - 120	95	80 - 120	<100	ug/L				
6357242	Total Silver (Ag)	2019/09/26	96	80 - 120	100	80 - 120	<0.020	ug/L				
6357242	Total Strontium (Sr)	2019/09/26	102	80 - 120	97	80 - 120	<1.0	ug/L				
6357242	Total Thallium (Tl)	2019/09/26	96	80 - 120	99	80 - 120	<0.010	ug/L				
6357242	Total Tin (Sn)	2019/09/26	100	80 - 120	101	80 - 120	<5.0	ug/L				
6357242	Total Titanium (Ti)	2019/09/26	100	80 - 120	103	80 - 120	<5.0	ug/L				
6357242	Total Uranium (U)	2019/09/26	99	80 - 120	99	80 - 120	<0.10	ug/L				
6357242	Total Vanadium (V)	2019/09/26	99	80 - 120	99	80 - 120	<5.0	ug/L				
6357242	Total Zinc (Zn)	2019/09/26	96	80 - 120	103	80 - 120	<5.0	ug/L				
6357242	Total Zirconium (Zr)	2019/09/26	105	80 - 120	100	80 - 120	<0.10	ug/L				
6357245	Dissolved Aluminum (Al)	2019/09/25	96	80 - 120	101	80 - 120	<3.0	ug/L				
6357245	Dissolved Antimony (Sb)	2019/09/25	103	80 - 120	102	80 - 120	<0.50	ug/L				
6357245	Dissolved Arsenic (As)	2019/09/25	104	80 - 120	103	80 - 120	<0.10	ug/L				
6357245	Dissolved Barium (Ba)	2019/09/25	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6357245	Dissolved Beryllium (Be)	2019/09/25	91	80 - 120	97	80 - 120	<0.10	ug/L				
6357245	Dissolved Bismuth (Bi)	2019/09/25	99	80 - 120	104	80 - 120	<1.0	ug/L				
6357245	Dissolved Boron (B)	2019/09/25	92	80 - 120	100	80 - 120	<50	ug/L				
6357245	Dissolved Cadmium (Cd)	2019/09/25	101	80 - 120	101	80 - 120	<0.010	ug/L				
6357245	Dissolved Chromium (Cr)	2019/09/25	97	80 - 120	101	80 - 120	<1.0	ug/L				



BV Labs Job #: B9Q3637
Report Date: 2019/10/16

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: 573773
Sampler Initials: BH

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
6357245	Dissolved Cobalt (Co)	2019/09/25	95	80 - 120	99	80 - 120	<0.20	ug/L				
6357245	Dissolved Copper (Cu)	2019/09/25	93	80 - 120	100	80 - 120	<0.20	ug/L				
6357245	Dissolved Iron (Fe)	2019/09/25	102	80 - 120	106	80 - 120	<5.0	ug/L				
6357245	Dissolved Lead (Pb)	2019/09/25	102	80 - 120	104	80 - 120	<0.20	ug/L				
6357245	Dissolved Lithium (Li)	2019/09/25	84	80 - 120	93	80 - 120	<2.0	ug/L				
6357245	Dissolved Manganese (Mn)	2019/09/25	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6357245	Dissolved Molybdenum (Mo)	2019/09/25	NC	80 - 120	103	80 - 120	<1.0	ug/L				
6357245	Dissolved Nickel (Ni)	2019/09/25	96	80 - 120	102	80 - 120	<1.0	ug/L				
6357245	Dissolved Selenium (Se)	2019/09/25	102	80 - 120	103	80 - 120	<0.10	ug/L				
6357245	Dissolved Silicon (Si)	2019/09/25	NC	80 - 120	104	80 - 120	<100	ug/L				
6357245	Dissolved Silver (Ag)	2019/09/25	101	80 - 120	102	80 - 120	<0.020	ug/L				
6357245	Dissolved Strontium (Sr)	2019/09/25	NC	80 - 120	104	80 - 120	<1.0	ug/L				
6357245	Dissolved Thallium (Tl)	2019/09/25	103	80 - 120	104	80 - 120	<0.010	ug/L				
6357245	Dissolved Tin (Sn)	2019/09/25	103	80 - 120	103	80 - 120	<5.0	ug/L				
6357245	Dissolved Titanium (Ti)	2019/09/25	103	80 - 120	100	80 - 120	<5.0	ug/L				
6357245	Dissolved Uranium (U)	2019/09/25	105	80 - 120	102	80 - 120	<0.10	ug/L				
6357245	Dissolved Vanadium (V)	2019/09/25	102	80 - 120	100	80 - 120	<5.0	ug/L				
6357245	Dissolved Zinc (Zn)	2019/09/25	98	80 - 120	104	80 - 120	<5.0	ug/L				
6357245	Dissolved Zirconium (Zr)	2019/09/25	106	80 - 120	104	80 - 120	<0.10	ug/L				
6357407	Benzene	2019/09/27	106	70 - 130	102	70 - 130	<0.20	ug/L	1.1	30		
6357407	Ethylbenzene	2019/09/27	117	70 - 130	104	70 - 130	<0.20	ug/L	0.88	30		
6357407	F1 (C6-C10) - BTEX	2019/09/27					<25	ug/L	0.53	30		
6357407	F1 (C6-C10)	2019/09/27	81	70 - 130	96	70 - 130	<25	ug/L	0.51	30		
6357407	o-Xylene	2019/09/27	99	70 - 130	99	70 - 130	<0.20	ug/L	7.9	30		
6357407	p+m-Xylene	2019/09/27	99	70 - 130	100	70 - 130	<0.40	ug/L	1.1	30		
6357407	Toluene	2019/09/27	95	70 - 130	95	70 - 130	<0.20	ug/L	4.1	30		
6357407	Total Xylenes	2019/09/27					<0.40	ug/L	3.0	30		
6358667	F2 (C10-C16 Hydrocarbons)	2019/09/30	106	50 - 130	116	60 - 130	<100	ug/L	NC	30		
6358667	F3 (C16-C34 Hydrocarbons)	2019/09/30	103	50 - 130	120	60 - 130	<200	ug/L	NC	30		
6358667	F4 (C34-C50 Hydrocarbons)	2019/09/30	105	50 - 130	119	60 - 130	<200	ug/L	NC	30		
6362948	Reactive Silica (SiO2)	2019/09/27	102	80 - 120	102	80 - 120	<0.050	mg/L				
6362949	Free Cyanide (CN)	2019/09/25	90	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: B9Q3637

Report Date: 2019/10/16

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: 573773
Sampler Initials: BH

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
6370167	Radium-226	2019/10/08			86	85 - 115	<0.0050	Bq/L	NC	N/A		

N/A = Not Applicable

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 $\leq$ 2x RDL).



BUREAU
VERITAS

BV Labs Job #: B9Q3637

Report Date: 2019/10/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: 573773

Sampler Initials: BH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Brad Newman, Scientific Service Specialist

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

Rob Reinert, B.Sc., Scientific Specialist

BV Labs 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

BV Labs Job #: B9Q3637

Report Date: 2019/10/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: 573773

Sampler Initials: BH

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site#: 63°02'15.5" 92°13'06.3"
 Site Location: MELIADINE
 Your C.O.C. #: na

Attention: Reporting

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

Report Date: 2019/10/17
 Report #: R5924161
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9R1304

Received: 2019/09/26, 10:30

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/10/01	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/10/01	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	1	2019/09/28	2019/10/03	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry (1)	1	N/A	2019/09/30	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	1	N/A	2019/10/01	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/09/30	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/09/30	2019/09/30	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/09/27	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/09/27	2019/09/27	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2019/10/01	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	1	2019/10/02	2019/10/02	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	1	2019/10/01	2019/10/01	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/10/01	2019/10/01	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	1	N/A	2019/10/04	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/10/03	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/10/03	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/10/03	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/09/27	2019/10/04	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/10/03	2019/10/03	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/10/03	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/09/29	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/09/28	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/09/27	2019/10/01	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/10/01	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/10/15	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/09/30	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/09/28	2019/09/30	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/09/28	2019/10/02	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/09/28	CAM SOP-00446	SM 23 5310B m



Your P.O. #: OL-762849
Site#: 63°02'15.5" 92°13'06.3"
Site Location: MELIADINE
Your C.O.C. #: na

Attention: Reporting

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

Report Date: 2019/10/17
Report #: R5924161
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9R1304

Received: 2019/09/26, 10:30

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Reference
		Extracted	Analyzed		
Total Phosphorus (Colourimetric) (1)	1	2019/10/01	2019/10/01	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/09/28	2019/09/30	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/09/27	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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

(7) "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).



Your P.O. #: OL-762849
Site#: 63°02'15.5" 92°13'06.3"
Site Location: MELIADINE
Your C.O.C. #: na

Attention: Reporting

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

Report Date: 2019/10/17
Report #: R5924161
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9R1304

Received: 2019/09/26, 10:30

- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
17 Oct 2019 08:40:26

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B9R1304
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KWX262		
Sampling Date		2019/09/24 06:30		
COC Number		na		
	UNITS	MEL-14	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	6360780
Toluene	ug/L	<0.20	0.20	6360780
Ethylbenzene	ug/L	<0.20	0.20	6360780
o-Xylene	ug/L	<0.20	0.20	6360780
p+m-Xylene	ug/L	<0.40	0.40	6360780
Total Xylenes	ug/L	<0.40	0.40	6360780
F1 (C6-C10)	ug/L	<25	25	6360780
F1 (C6-C10) - BTEX	ug/L	<25	25	6360780
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	6364795
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	6364795
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	6364795
Reached Baseline at C50	ug/L	Yes		6364795
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	103		6360780
4-Bromofluorobenzene	%	96		6360780
D10-Ethylbenzene	%	106		6360780
D4-1,2-Dichloroethane	%	98		6360780
o-Terphenyl	%	95		6364795
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9R1304
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KWX262		
Sampling Date		2019/09/24 06:30		
COC Number		na		
	UNITS	MEL-14	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	440	0.50	6363947
Metals				
Dissolved Aluminum (Al)	ug/L	35.5	3.0	6370556
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	6370556
Dissolved Arsenic (As)	ug/L	1.77	0.10	6370556
Dissolved Barium (Ba)	ug/L	68.3	1.0	6370556
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	6370556
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	6370556
Dissolved Boron (B)	ug/L	302	50	6370556
Dissolved Cadmium (Cd)	ug/L	0.021	0.010	6370556
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	6370556
Dissolved Cobalt (Co)	ug/L	0.49	0.20	6370556
Dissolved Copper (Cu)	ug/L	0.69	0.20	6370556
Dissolved Iron (Fe)	ug/L	33.9	5.0	6370556
Dissolved Lead (Pb)	ug/L	<0.20	0.20	6370556
Dissolved Lithium (Li)	ug/L	61.5	2.0	6370556
Dissolved Manganese (Mn)	ug/L	42.6	1.0	6370556
Dissolved Molybdenum (Mo)	ug/L	1.8	1.0	6370556
Dissolved Nickel (Ni)	ug/L	3.9	1.0	6370556
Dissolved Silicon (Si)	ug/L	1010	100	6370556
Dissolved Silver (Ag)	ug/L	<0.020	0.020	6370556
Dissolved Strontium (Sr)	ug/L	2170	1.0	6370556
Dissolved Thallium (Tl)	ug/L	0.024	0.010	6370556
Dissolved Tin (Sn)	ug/L	<5.0	5.0	6370556
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	6370556
Dissolved Uranium (U)	ug/L	0.32	0.10	6370556
Dissolved Vanadium (V)	ug/L	<5.0	5.0	6370556
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	6370556
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	6370556
Dissolved Calcium (Ca)	mg/L	125	0.050	6363948
Dissolved Magnesium (Mg)	mg/L	31.1	0.050	6363948
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9R1304
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KWX262		
Sampling Date		2019/09/24 06:30		
COC Number		na		
	UNITS	MEL-14	RDL	QC Batch
Dissolved Potassium (K)	mg/L	14.0	0.050	6363948
Dissolved Sodium (Na)	mg/L	201	0.050	6363948
Dissolved Sulphur (S)	mg/L	31.7	3.0	6363948
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9R1304

Report Date: 2019/10/17

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: LH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KWX262		
Sampling Date		2019/09/24 06:30		
COC Number		na		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	166	3.0	6370497
Total Antimony (Sb)	ug/L	<0.50	0.50	6370497
Total Arsenic (As)	ug/L	1.93	0.10	6370497
Total Barium (Ba)	ug/L	72.4	1.0	6370497
Total Beryllium (Be)	ug/L	<0.10	0.10	6370497
Total Bismuth (Bi)	ug/L	<1.0	1.0	6370497
Total Boron (B)	ug/L	315	50	6370497
Total Cadmium (Cd)	ug/L	0.022	0.010	6370497
Total Chromium (Cr)	ug/L	<1.0	1.0	6370497
Total Cobalt (Co)	ug/L	0.53	0.20	6370497
Total Copper (Cu)	ug/L	0.84	0.50	6370497
Total Iron (Fe)	ug/L	52	10	6370497
Total Lead (Pb)	ug/L	<0.20	0.20	6370497
Total Lithium (Li)	ug/L	67.1	2.0	6370497
Total Manganese (Mn)	ug/L	53.9	1.0	6370497
Total Molybdenum (Mo)	ug/L	1.9	1.0	6370497
Total Nickel (Ni)	ug/L	4.2	1.0	6370497
Total Selenium (Se)	ug/L	0.14	0.10	6370497
Total Silicon (Si)	ug/L	1080	100	6370497
Total Silver (Ag)	ug/L	<0.020	0.020	6370497
Total Strontium (Sr)	ug/L	2250	1.0	6370497
Total Thallium (Tl)	ug/L	0.024	0.010	6370497
Total Tin (Sn)	ug/L	<5.0	5.0	6370497
Total Titanium (Ti)	ug/L	<5.0	5.0	6370497
Total Uranium (U)	ug/L	0.35	0.10	6370497
Total Vanadium (V)	ug/L	<5.0	5.0	6370497
Total Zinc (Zn)	ug/L	5.9	5.0	6370497
Total Zirconium (Zr)	ug/L	<0.10	0.10	6370497
Total Calcium (Ca)	ug/L	131000	50	6363945
Total Magnesium (Mg)	ug/L	32600	50	6363945
Total Potassium (K)	ug/L	14500	50	6363945
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9R1304
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KWX262		
Sampling Date		2019/09/24 06:30		
COC Number		na		
	UNITS	MEL-14	RDL	QC Batch
Total Sodium (Na)	ug/L	224000	50	6363945
Total Sulphur (S)	ug/L	32400	3000	6363945
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	462000	500	6363944
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9R1304
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

RESULTS OF ANALYSES OF WATER

BV Labs ID		KWX262			KWX262		
Sampling Date		2019/09/24 06:30			2019/09/24 06:30		
COC Number		na			na		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	46	1.0	6356510			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6356510			
Inorganics							
Total Ammonia-N	mg/L	3.9 (1)	0.050	6359077			
Total BOD	mg/L	<2	2	6358560			
Conductivity	umho/cm	2100	1.0	6357604			
Free Cyanide (CN)	ug/L	1.6 (2)	1.0	6368742	1.9	1.0	6368742
Total Dissolved Solids	mg/L	1320	10	6358912			
Total Kjeldahl Nitrogen (TKN)	mg/L	3.6 (1)	0.50	6359052			
Dissolved Organic Carbon	mg/L	11	0.50	6357006			
Total Organic Carbon (TOC)	mg/L	11	0.50	6359055	11	0.50	6359055
Orthophosphate (P)	mg/L	<0.010	0.010	6357314			
Dissolved Oxygen	mg/L	10.0		6357396	10.0		6357396
pH	pH	7.67		6357607			
Total Phosphorus	mg/L	0.024	0.020	6361947			
Reactive Silica (SiO ₂)	mg/L	1.9	0.050	6368743			
Total Suspended Solids	mg/L	3	1	6357645			
Dissolved Sulphate (SO ₄)	mg/L	84	1.0	6357313			
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6359889			
Turbidity	NTU	0.5	0.1	6357174			
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6359892			
Alkalinity (Total as CaCO ₃)	mg/L	46	1.0	6357597			
Dissolved Chloride (Cl ⁻)	mg/L	510	5.0	6357310			
Nitrite (N)	mg/L	0.434	0.010	6357182			
Nitrate (N)	mg/L	11.6	0.10	6357182			
Nitrate + Nitrite (N)	mg/L	12.0	0.10	6357182			
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							
(1) TKN < NH ₄ : Both values fall within acceptable RPD limits for duplicates and are likely equivalent.							
(2) See general comments for notes regarding CNFREE-W							



BUREAU
VERITAS

BV Labs Job #: B9R1304

Report Date: 2019/10/17

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: LH

RESULTS OF ANALYSES OF WATER

BV Labs ID		KWX262			KWX262		
Sampling Date		2019/09/24 06:30			2019/09/24 06:30		
COC Number		na			na		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Metals							
Dissolved Selenium (Se)	ug/L	0.15	0.10	6371592			
RADIONUCLIDE							
Radium-226	Bq/L	<0.0050	0.0050	6377543			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: B9R1304

Report Date: 2019/10/17

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: LH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KWX262		
Sampling Date		2019/09/24 06:30		
COC Number		na		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6362146
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6362152
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9R1304
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

TEST SUMMARY

BV Labs ID: KWX262
Sample ID: MEL-14
Matrix: Water

Collected: 2019/09/24
Shipped:
Received: 2019/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6357597	N/A	2019/10/01	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6356510	N/A	2019/10/01	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6358560	2019/09/28	2019/10/03	Prakash Piya
Chloride by Automated Colourimetry	KONE	6357310	N/A	2019/09/30	Deonarine Ramnarine
Conductivity	AT	6357604	N/A	2019/10/01	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6359892	N/A	2019/09/30	Gnana Thomas
Total Cyanide	SKAL/CN	6359889	2019/09/30	2019/09/30	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6357006	N/A	2019/09/27	Mandeep Kaur
Dissolved Oxygen	DO	6357396	2019/09/27	2019/09/27	Nusrat Naz
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6360780	N/A	2019/10/01	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6364795	2019/10/02	2019/10/02	Margaret Kulczyk-Stanko
Dissolved Mercury (low level)	CV/AA	6362152	2019/10/01	2019/10/01	Medhat Nasr
Mercury (low level)	CV/AA	6362146	2019/10/01	2019/10/01	Medhat Nasr
Cyanide (Free)	SPEC	6368742	2019/10/02	2019/10/03	Taylor Mullings
Hardness Total (calculated as CaCO3)	CALC	6363944	N/A	2019/10/04	Report Automation Engine
Hardness (calculated as CaCO3)	CALC	6363947	N/A	2019/10/03	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6363948	N/A	2019/10/03	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6370556	N/A	2019/10/03	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6363945	2019/10/04	2019/10/04	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6370497	2019/10/03	2019/10/03	Andrew An
Silica (Reactive)	KONE	6368743	N/A	2019/10/03	Zafar Iqbal
Total Ammonia-N	LACH/NH4	6359077	N/A	2019/09/29	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	6357182	N/A	2019/09/28	Amanpreet Sappal
pH	AT	6357607	2019/09/27	2019/10/01	Surinder Rai
Orthophosphate	KONE	6357314	N/A	2019/10/01	Alina Doboreanu
Radium-226 Low Level	AS	6377543	N/A	2019/10/15	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6357313	N/A	2019/09/30	Deonarine Ramnarine
Total Dissolved Solids	BAL	6358912	2019/09/28	2019/09/30	Nilam Borole
Total Kjeldahl Nitrogen in Water	SKAL	6359052	2019/09/28	2019/10/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6359055	N/A	2019/09/28	Nimarta Singh
Total Phosphorus (Colourimetric)	LACH/P	6361947	2019/10/01	2019/10/01	Nimarta Singh
Low Level Total Suspended Solids	BAL	6357645	2019/09/28	2019/09/30	Xinyue (Sarah) Hou
Turbidity	AT	6357174	N/A	2019/09/27	Kazzandra Adeva

BV Labs ID: KWX262 Dup
Sample ID: MEL-14
Matrix: Water

Collected: 2019/09/24
Shipped:
Received: 2019/09/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Oxygen	DO	6357396	2019/09/27	2019/09/27	Nusrat Naz
Cyanide (Free)	SPEC	6368742	2019/10/02	2019/10/03	Taylor Mullings
Total Organic Carbon (TOC)	TOCV/NDIR	6359055	N/A	2019/09/28	Nimarta Singh



GENERAL COMMENTS

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

Package 1	8.0°C

Sample KWX262 [MEL-14] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent. Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide TOC < DOC: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample KWX262, Elements by CRC ICPMS (dissolved): Test repeated.

Results relate only to the items tested.



BV Labs Job #: B9R1304
Report Date: 2019/10/17

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6360780	1,4-Difluorobenzene	2019/09/30	106	70 - 130	105	70 - 130	103	%				
6360780	4-Bromofluorobenzene	2019/09/30	99	70 - 130	100	70 - 130	98	%				
6360780	D10-Ethylbenzene	2019/09/30	102	70 - 130	98	70 - 130	108	%				
6360780	D4-1,2-Dichloroethane	2019/09/30	102	70 - 130	104	70 - 130	104	%				
6364795	o-Terphenyl	2019/10/02	104	60 - 130	99	60 - 130	96	%				
6357006	Dissolved Organic Carbon	2019/09/27	92	80 - 120	97	80 - 120	<0.50	mg/L	2.3	20		
6357174	Turbidity	2019/09/27			102	85 - 115	<0.1	NTU	0.44	20		
6357182	Nitrate (N)	2019/09/28	93	80 - 120	92	80 - 120	<0.10	mg/L	0.15	20		
6357182	Nitrite (N)	2019/09/28	105	80 - 120	104	80 - 120	<0.010	mg/L	NC	20		
6357310	Dissolved Chloride (Cl-)	2019/09/30	NC	80 - 120	103	80 - 120	<1.0	mg/L	0.38	20		
6357313	Dissolved Sulphate (SO4)	2019/09/30	NC	75 - 125	101	80 - 120	<1.0	mg/L	0.76	20		
6357314	Orthophosphate (P)	2019/10/01	102	75 - 125	100	80 - 120	<0.010	mg/L	7.4	25		
6357597	Alkalinity (Total as CaCO3)	2019/10/01			97	85 - 115	<1.0	mg/L	1.1	20		
6357604	Conductivity	2019/10/01			102	85 - 115	<1.0	umho/cm	0	25		
6357607	pH	2019/10/01			102	98 - 103			0.66	N/A		
6357645	Total Suspended Solids	2019/09/30					<1	mg/L	0	25	98	85 - 115
6358560	Total BOD	2019/10/03					<2	mg/L	NC	30	94	80 - 120
6358912	Total Dissolved Solids	2019/09/30					<10	mg/L	4.6	25	95	90 - 110
6359052	Total Kjeldahl Nitrogen (TKN)	2019/10/01	106	80 - 120	103	80 - 120	<0.10	mg/L	0.58	20	105	80 - 120
6359055	Total Organic Carbon (TOC)	2019/09/28	95	80 - 120	95	80 - 120	<0.50	mg/L	0.55	20		
6359077	Total Ammonia-N	2019/09/29	99	75 - 125	101	80 - 120	<0.050	mg/L	NC	20		
6359889	Total Cyanide (CN)	2019/09/30	103	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20		
6359892	WAD Cyanide (Free)	2019/09/30	103	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
6360780	Benzene	2019/09/30	104	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
6360780	Ethylbenzene	2019/09/30	107	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
6360780	F1 (C6-C10) - BTEX	2019/09/30					<25	ug/L	NC	30		
6360780	F1 (C6-C10)	2019/09/30	91	70 - 130	100	70 - 130	<25	ug/L	NC	30		
6360780	o-Xylene	2019/09/30	102	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
6360780	p+m-Xylene	2019/09/30	103	70 - 130	100	70 - 130	<0.40	ug/L	NC	30		
6360780	Toluene	2019/09/30	98	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
6360780	Total Xylenes	2019/09/30					<0.40	ug/L	NC	30		



BV Labs Job #: B9R1304
Report Date: 2019/10/17

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6361947	Total Phosphorus	2019/10/01	100	80 - 120	99	80 - 120	<0.020	mg/L	0.82	20	100	80 - 120
6362146	Mercury (Hg)	2019/10/01	89	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6362152	Dissolved Mercury (Hg)	2019/10/01	95	75 - 125	99	80 - 120	<0.00001	mg/L	NC	20		
6364795	F2 (C10-C16 Hydrocarbons)	2019/10/02	120	50 - 130	108	60 - 130	<100	ug/L	NC	30		
6364795	F3 (C16-C34 Hydrocarbons)	2019/10/02	112	50 - 130	106	60 - 130	<200	ug/L	NC	30		
6364795	F4 (C34-C50 Hydrocarbons)	2019/10/02	115	50 - 130	107	60 - 130	<200	ug/L	NC	30		
6368742	Free Cyanide (CN)	2019/10/03	118	80 - 120	97	80 - 120	<1.0	ug/L	13	20		
6368743	Reactive Silica (SiO2)	2019/10/03	94	80 - 120	96	80 - 120	<0.050	mg/L	5.9	20		
6370497	Total Aluminum (Al)	2019/10/03	104	80 - 120	104	80 - 120	<3.0	ug/L				
6370497	Total Antimony (Sb)	2019/10/03	102	80 - 120	105	80 - 120	<0.50	ug/L				
6370497	Total Arsenic (As)	2019/10/03	101	80 - 120	105	80 - 120	<0.10	ug/L				
6370497	Total Barium (Ba)	2019/10/03	NC	80 - 120	106	80 - 120	<1.0	ug/L				
6370497	Total Beryllium (Be)	2019/10/03	99	80 - 120	103	80 - 120	<0.10	ug/L				
6370497	Total Bismuth (Bi)	2019/10/03	101	80 - 120	105	80 - 120	<1.0	ug/L				
6370497	Total Boron (B)	2019/10/03	NC	80 - 120	99	80 - 120	<50	ug/L				
6370497	Total Cadmium (Cd)	2019/10/03	101	80 - 120	108	80 - 120	<0.010	ug/L				
6370497	Total Chromium (Cr)	2019/10/03	100	80 - 120	106	80 - 120	<1.0	ug/L				
6370497	Total Cobalt (Co)	2019/10/03	96	80 - 120	102	80 - 120	<0.20	ug/L				
6370497	Total Copper (Cu)	2019/10/03	98	80 - 120	104	80 - 120	<0.50	ug/L				
6370497	Total Iron (Fe)	2019/10/03	NC	80 - 120	103	80 - 120	<10	ug/L				
6370497	Total Lead (Pb)	2019/10/03	97	80 - 120	108	80 - 120	<0.20	ug/L				
6370497	Total Lithium (Li)	2019/10/03	92	80 - 120	105	80 - 120	<2.0	ug/L				
6370497	Total Manganese (Mn)	2019/10/03	NC	80 - 120	108	80 - 120	<1.0	ug/L				
6370497	Total Molybdenum (Mo)	2019/10/03	107	80 - 120	108	80 - 120	<1.0	ug/L				
6370497	Total Nickel (Ni)	2019/10/03	102	80 - 120	109	80 - 120	<1.0	ug/L				
6370497	Total Selenium (Se)	2019/10/03	103	80 - 120	106	80 - 120	<0.10	ug/L				
6370497	Total Silicon (Si)	2019/10/03	NC	80 - 120	99	80 - 120	<100	ug/L				
6370497	Total Silver (Ag)	2019/10/03	99	80 - 120	106	80 - 120	<0.020	ug/L				
6370497	Total Strontium (Sr)	2019/10/03	NC	80 - 120	101	80 - 120	<1.0	ug/L				
6370497	Total Thallium (Tl)	2019/10/03	98	80 - 120	104	80 - 120	<0.010	ug/L				
6370497	Total Tin (Sn)	2019/10/03	100	80 - 120	102	80 - 120	<5.0	ug/L				
6370497	Total Titanium (Ti)	2019/10/03	112	80 - 120	109	80 - 120	<5.0	ug/L				



BV Labs Job #: B9R1304
Report Date: 2019/10/17

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6370497	Total Uranium (U)	2019/10/03	98	80 - 120	106	80 - 120	<0.10	ug/L				
6370497	Total Vanadium (V)	2019/10/03	106	80 - 120	107	80 - 120	<5.0	ug/L				
6370497	Total Zinc (Zn)	2019/10/03	108	80 - 120	109	80 - 120	<5.0	ug/L				
6370497	Total Zirconium (Zr)	2019/10/03	92	80 - 120	103	80 - 120	<0.10	ug/L				
6370556	Dissolved Aluminum (Al)	2019/10/03	113	80 - 120	102	80 - 120	<3.0	ug/L				
6370556	Dissolved Antimony (Sb)	2019/10/03	NC	80 - 120	97	80 - 120	<0.50	ug/L				
6370556	Dissolved Arsenic (As)	2019/10/03	109	80 - 120	98	80 - 120	<0.10	ug/L				
6370556	Dissolved Barium (Ba)	2019/10/03	109	80 - 120	97	80 - 120	<1.0	ug/L				
6370556	Dissolved Beryllium (Be)	2019/10/03	103	80 - 120	98	80 - 120	<0.10	ug/L				
6370556	Dissolved Bismuth (Bi)	2019/10/03	11 (1)	80 - 120	97	80 - 120	<1.0	ug/L				
6370556	Dissolved Boron (B)	2019/10/03	105	80 - 120	98	80 - 120	<50	ug/L				
6370556	Dissolved Cadmium (Cd)	2019/10/03	105	80 - 120	99	80 - 120	<0.010	ug/L				
6370556	Dissolved Chromium (Cr)	2019/10/03	104	80 - 120	96	80 - 120	<1.0	ug/L				
6370556	Dissolved Cobalt (Co)	2019/10/03	105	80 - 120	98	80 - 120	<0.20	ug/L				
6370556	Dissolved Copper (Cu)	2019/10/03	79 (1)	80 - 120	96	80 - 120	<0.20	ug/L				
6370556	Dissolved Iron (Fe)	2019/10/03	112	80 - 120	98	80 - 120	<5.0	ug/L				
6370556	Dissolved Lead (Pb)	2019/10/03	112	80 - 120	102	80 - 120	<0.20	ug/L				
6370556	Dissolved Lithium (Li)	2019/10/03	104	80 - 120	95	80 - 120	<2.0	ug/L				
6370556	Dissolved Manganese (Mn)	2019/10/03	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6370556	Dissolved Molybdenum (Mo)	2019/10/03	NC	80 - 120	94	80 - 120	<1.0	ug/L				
6370556	Dissolved Nickel (Ni)	2019/10/03	105	80 - 120	99	80 - 120	<1.0	ug/L				
6370556	Dissolved Silicon (Si)	2019/10/03	109	80 - 120	94	80 - 120	<100	ug/L				
6370556	Dissolved Silver (Ag)	2019/10/03	25 (1)	80 - 120	97	80 - 120	<0.020	ug/L				
6370556	Dissolved Strontium (Sr)	2019/10/03	NC	80 - 120	95	80 - 120	<1.0	ug/L				
6370556	Dissolved Thallium (Tl)	2019/10/03	109	80 - 120	97	80 - 120	<0.010	ug/L				
6370556	Dissolved Tin (Sn)	2019/10/03	100	80 - 120	89	80 - 120	<5.0	ug/L				
6370556	Dissolved Titanium (Ti)	2019/10/03	112	80 - 120	98	80 - 120	<5.0	ug/L				
6370556	Dissolved Uranium (U)	2019/10/03	116	80 - 120	100	80 - 120	<0.10	ug/L				
6370556	Dissolved Vanadium (V)	2019/10/03	107	80 - 120	95	80 - 120	<5.0	ug/L				
6370556	Dissolved Zinc (Zn)	2019/10/03	104	80 - 120	105	80 - 120	<5.0	ug/L				
6370556	Dissolved Zirconium (Zr)	2019/10/03	110	80 - 120	96	80 - 120	<0.10	ug/L				
6371592	Dissolved Selenium (Se)	2019/10/04	101	80 - 120	100	80 - 120	<0.10	ug/L				



BUREAU
VERITAS

BV Labs Job #: B9R1304
Report Date: 2019/10/17

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

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
6377543	Radium-226	2019/10/15			98	85 - 115	<0.0050	Bq/L	31	N/A		

N/A = Not Applicable

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 $\leq 2 \times \text{RDL}$).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9R1304
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: LH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Harry (Peng) Liang, Senior Analyst

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

BV Labs 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

BV Labs Job #: B9R1304

Report Date: 2019/10/17

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: LH

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/10/17
Report #: R5925341
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9R7358

Received: 2019/10/03, 10:15

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/10/06	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/10/07	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	1	2019/10/04	2019/10/09	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry (1)	1	N/A	2019/10/07	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	1	N/A	2019/10/06	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/10/09	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/10/09	2019/10/09	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/10/04	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/10/04	2019/10/04	CAM SOP-00427	SM 23 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2019/10/08	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	1	2019/10/09	2019/10/10	CAM SOP-00316	CCME PHC-CWS m
Dissolved Mercury (low level) (1)	1	2019/10/08	2019/10/08	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/10/09	2019/10/09	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 7)	1	N/A	2019/10/11	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/10/08	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/10/08	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/10/08	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/10/03	2019/10/11	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/10/10	2019/10/10	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/10/07	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/10/08	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/10/06	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/10/04	2019/10/06	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/10/07	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/10/16	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/10/07	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/10/07	2019/10/08	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/10/05	2019/10/09	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/10/06	CAM SOP-00446	SM 23 5310B m



Your P.O. #: OL-762849
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/10/17
Report #: R5925341
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9R7358

Received: 2019/10/03, 10:15

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Reference
	Quantity	Extracted			
Total Phosphorus (Colourimetric) (1)	1	2019/10/07	2019/10/07	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/10/07	2019/10/08	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/10/04	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

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

(7) "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).



Your P.O. #: OL-762849
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/10/17
Report #: R5925341
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9R7358

Received: 2019/10/03, 10:15

- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) Radium-226 results have not been corrected for blanks.
(10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Alisha Williamson
Project Manager
17 Oct 2019 17:43:07

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

BV Labs 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

BV Labs Job #: B9R7358
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

CCME PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		KYF708			KYF708		
Sampling Date		2019/10/01 06:00			2019/10/01 06:00		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
BTEX & F1 Hydrocarbons							
Benzene	ug/L	<0.20	0.20	6376380	<0.20	0.20	6376380
Toluene	ug/L	<0.20	0.20	6376380	<0.20	0.20	6376380
Ethylbenzene	ug/L	<0.20	0.20	6376380	<0.20	0.20	6376380
o-Xylene	ug/L	<0.20	0.20	6376380	<0.20	0.20	6376380
p+m-Xylene	ug/L	<0.40	0.40	6376380	<0.40	0.40	6376380
Total Xylenes	ug/L	<0.40	0.40	6376380	<0.40	0.40	6376380
F1 (C6-C10)	ug/L	<25	25	6376380	<25	25	6376380
F1 (C6-C10) - BTEX	ug/L	<25	25	6376380	<25	25	6376380
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	6378589			
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	6378589			
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	6378589			
Reached Baseline at C50	ug/L	Yes		6378589			
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	102		6376380	104		6376380
4-Bromofluorobenzene	%	100		6376380	100		6376380
D10-Ethylbenzene	%	106		6376380	108		6376380
D4-1,2-Dichloroethane	%	98		6376380	98		6376380
o-Terphenyl	%	90		6378589			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: B9R7358

Report Date: 2019/10/17

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KYF708		
Sampling Date		2019/10/01 06:00		
	UNITS	MEL-14	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	385	0.50	6376859
Metals				
Dissolved Aluminum (Al)	ug/L	19.2	3.0	6381161
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	6381161
Dissolved Arsenic (As)	ug/L	0.84	0.10	6381161
Dissolved Barium (Ba)	ug/L	49.9	1.0	6381161
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	6381161
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	6381161
Dissolved Boron (B)	ug/L	339	50	6381161
Dissolved Cadmium (Cd)	ug/L	0.023	0.010	6381161
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	6381161
Dissolved Cobalt (Co)	ug/L	0.48	0.20	6381161
Dissolved Copper (Cu)	ug/L	0.68	0.20	6381161
Dissolved Iron (Fe)	ug/L	44.4	5.0	6381161
Dissolved Lead (Pb)	ug/L	<0.20	0.20	6381161
Dissolved Lithium (Li)	ug/L	70.0	2.0	6381161
Dissolved Manganese (Mn)	ug/L	30.9	1.0	6381161
Dissolved Molybdenum (Mo)	ug/L	1.2	1.0	6381161
Dissolved Nickel (Ni)	ug/L	3.4	1.0	6381161
Dissolved Selenium (Se)	ug/L	0.12	0.10	6381161
Dissolved Silicon (Si)	ug/L	529	100	6381161
Dissolved Silver (Ag)	ug/L	<0.020	0.020	6381161
Dissolved Strontium (Sr)	ug/L	2070	1.0	6381161
Dissolved Tin (Sn)	ug/L	<5.0	5.0	6381161
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	6381161
Dissolved Uranium (U)	ug/L	0.25	0.10	6381161
Dissolved Vanadium (V)	ug/L	<5.0	5.0	6381161
Dissolved Zinc (Zn)	ug/L	13.2	5.0	6381161
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	6381161
Dissolved Calcium (Ca)	mg/L	108	0.050	6376860
Dissolved Magnesium (Mg)	mg/L	28.0	0.050	6376860
Dissolved Potassium (K)	mg/L	14.1	0.050	6376860
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9R7358
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KYF708		
Sampling Date		2019/10/01 06:00		
	UNITS	MEL-14	RDL	QC Batch
Dissolved Sodium (Na)	mg/L	214	0.050	6376860
Dissolved Sulphur (S)	mg/L	28.4	3.0	6376860
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9R7358

Report Date: 2019/10/17

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KYF708		
Sampling Date		2019/10/01 06:00		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	117	3.0	6383677
Total Antimony (Sb)	ug/L	<0.50	0.50	6383677
Total Arsenic (As)	ug/L	1.04	0.10	6383677
Total Barium (Ba)	ug/L	55.4	1.0	6383677
Total Beryllium (Be)	ug/L	<0.10	0.10	6383677
Total Bismuth (Bi)	ug/L	<1.0	1.0	6383677
Total Boron (B)	ug/L	353	50	6383677
Total Cadmium (Cd)	ug/L	0.025	0.010	6383677
Total Chromium (Cr)	ug/L	<1.0	1.0	6383677
Total Cobalt (Co)	ug/L	0.52	0.20	6383677
Total Copper (Cu)	ug/L	0.72	0.50	6383677
Total Iron (Fe)	ug/L	80	10	6383677
Total Lead (Pb)	ug/L	<0.20	0.20	6383677
Total Lithium (Li)	ug/L	82.2	2.0	6383677
Total Manganese (Mn)	ug/L	38.0	1.0	6383677
Total Molybdenum (Mo)	ug/L	1.4	1.0	6383677
Total Nickel (Ni)	ug/L	3.4	1.0	6383677
Total Selenium (Se)	ug/L	0.14	0.10	6383677
Total Silicon (Si)	ug/L	659	100	6383677
Total Silver (Ag)	ug/L	<0.020	0.020	6383677
Total Strontium (Sr)	ug/L	2150	1.0	6383677
Total Thallium (Tl)	ug/L	0.024	0.010	6383677
Total Tin (Sn)	ug/L	<5.0	5.0	6383677
Total Titanium (Ti)	ug/L	<5.0	5.0	6383677
Total Uranium (U)	ug/L	0.28	0.10	6383677
Total Vanadium (V)	ug/L	<5.0	5.0	6383677
Total Zinc (Zn)	ug/L	14.5	5.0	6383677
Total Zirconium (Zr)	ug/L	<0.10	0.10	6383677
Total Calcium (Ca)	ug/L	124000	50	6376864
Total Magnesium (Mg)	ug/L	27500	50	6376864
Total Potassium (K)	ug/L	15300	50	6376864
Total Sodium (Na)	ug/L	215000	50	6376864
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9R7358
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KYF708		
Sampling Date		2019/10/01 06:00		
	UNITS	MEL-14	RDL	QC Batch
Total Sulphur (S)	ug/L	32700	3000	6376864
Calculated Parameters				
Total Hardness (CaCO ₃)	ug/L	422000	500	6376863
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9R7358
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

RESULTS OF ANALYSES OF WATER

BV Labs ID		KYF708			KYF708		
Sampling Date		2019/10/01 06:00			2019/10/01 06:00		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	24	1.0	6368094			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6368094			
Inorganics							
Total Ammonia-N	mg/L	4.0	0.050	6373889			
Total BOD	mg/L	<2	2	6369768			
Conductivity	umho/cm	2100	1.0	6370869	2000	1.0	6370869
Free Cyanide (CN)	ug/L	<1.0 (1)	1.0	6381435			
Total Dissolved Solids	mg/L	860	10	6374062			
Total Kjeldahl Nitrogen (TKN)	mg/L	4.3	0.50	6372220			
Dissolved Organic Carbon	mg/L	3.6	0.50	6370090			
Total Organic Carbon (TOC)	mg/L	3.6	0.50	6372221			
Orthophosphate (P)	mg/L	<0.010	0.010	6370191			
Dissolved Oxygen	mg/L	10.5		6370568			
pH	pH	7.36		6370884	7.35		6370884
Total Phosphorus	mg/L	<0.020	0.020	6373234			
Reactive Silica (SiO ₂)	mg/L	0.68	0.050	6381436			
Total Suspended Solids	mg/L	2	1	6371954			
Dissolved Sulphate (SO ₄)	mg/L	74	1.0	6370180			
Total Cyanide (CN)	mg/L	0.0054	0.0050	6378880			
Turbidity	NTU	0.2	0.1	6369987			
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6378894			
Alkalinity (Total as CaCO ₃)	mg/L	24	1.0	6370851	23	1.0	6370851
Dissolved Chloride (Cl ⁻)	mg/L	530	5.0	6370157			
Nitrite (N)	mg/L	0.366	0.010	6370567			
Nitrate (N)	mg/L	13.6	0.10	6370567			
Nitrate + Nitrite (N)	mg/L	14.0	0.10	6370567			
Metals							
Dissolved Thallium (Tl)	ug/L	0.022	0.010	6384534			
RADIONUCLIDE							
Radium-226	Bq/L	<0.0050	0.0050	6382911			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W							



BUREAU
VERITAS

BV Labs Job #: B9R7358
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KYF708		
Sampling Date		2019/10/01 06:00		
	UNITS	MEL-14	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6377981
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6375572
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9R7358
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: KYF708
Sample ID: MEL-14
Matrix: Water

Collected: 2019/10/01
Shipped:
Received: 2019/10/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6370851	N/A	2019/10/06	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	6368094	N/A	2019/10/07	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	6369768	2019/10/04	2019/10/09	Navjot Kaur Gill
Chloride by Automated Colourimetry	KONE	6370157	N/A	2019/10/07	Deonarine Ramnarine
Conductivity	AT	6370869	N/A	2019/10/06	Yogesh Patel
Free (WAD) Cyanide	SKAL/CN	6378894	N/A	2019/10/09	Gnana Thomas
Total Cyanide	SKAL/CN	6378880	2019/10/09	2019/10/09	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6370090	N/A	2019/10/04	Mandeep Kaur
Dissolved Oxygen	DO	6370568	2019/10/04	2019/10/04	Nusrat Naz
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6376380	N/A	2019/10/08	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	6378589	2019/10/09	2019/10/10	Prabhjot Gulati
Dissolved Mercury (low level)	CV/AA	6375572	2019/10/08	2019/10/08	Medhat Nasr
Mercury (low level)	CV/AA	6377981	2019/10/09	2019/10/09	Medhat Nasr
Cyanide (Free)	SPEC	6381435	2019/10/08	2019/10/08	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6376863	N/A	2019/10/11	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6376859	N/A	2019/10/08	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6376860	N/A	2019/10/08	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6381161	N/A	2019/10/08	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6376864	2019/10/11	2019/10/11	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6383677	2019/10/10	2019/10/10	Vanessa Chan
Silica (Reactive)	KONE	6381436	N/A	2019/10/07	Serena Tian
Total Ammonia-N	LACH/NH ₄	6373889	N/A	2019/10/08	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6370567	N/A	2019/10/06	Amanpreet Sappal
pH	AT	6370884	2019/10/04	2019/10/06	Yogesh Patel
Orthophosphate	KONE	6370191	N/A	2019/10/07	Alina Dobreanu
Radium-226 Low Level	AS	6382911	N/A	2019/10/16	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6370180	N/A	2019/10/07	Alina Dobreanu
Total Dissolved Solids	BAL	6374062	2019/10/07	2019/10/08	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	6372220	2019/10/05	2019/10/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6372221	N/A	2019/10/06	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6373234	2019/10/07	2019/10/07	Shivani Shivani
Low Level Total Suspended Solids	BAL	6371954	2019/10/07	2019/10/08	Mandeep Kaur
Turbidity	AT	6369987	N/A	2019/10/04	Kazzandra Adeva

BV Labs ID: KYF708 Dup
Sample ID: MEL-14
Matrix: Water

Collected: 2019/10/01
Shipped:
Received: 2019/10/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6370851	N/A	2019/10/06	Yogesh Patel
Conductivity	AT	6370869	N/A	2019/10/06	Yogesh Patel
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	6376380	N/A	2019/10/08	Georgeta Rusu
pH	AT	6370884	2019/10/04	2019/10/06	Yogesh Patel



GENERAL COMMENTS

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

Package 1	4.3°C

Sample KYF708 [MEL-14] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Matrix Spike Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required

Sample KYF708, Elements by CRC ICPMS (dissolved): Test repeated.

Results relate only to the items tested.



BV Labs Job #: B9R7358
Report Date: 2019/10/17

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6376380	1,4-Difluorobenzene	2019/10/08	105	70 - 130	104	70 - 130	103	%				
6376380	4-Bromofluorobenzene	2019/10/08	104	70 - 130	103	70 - 130	99	%				
6376380	D10-Ethylbenzene	2019/10/08	107	70 - 130	106	70 - 130	108	%				
6376380	D4-1,2-Dichloroethane	2019/10/08	97	70 - 130	96	70 - 130	97	%				
6378589	o-Terphenyl	2019/10/09	92	60 - 130	87	60 - 130	88	%				
6369768	Total BOD	2019/10/09					<2	mg/L	7.5	30	99	80 - 120
6369987	Turbidity	2019/10/04			95	85 - 115	<0.1	NTU	3.5	20		
6370090	Dissolved Organic Carbon	2019/10/04	94	80 - 120	97	80 - 120	<0.50	mg/L	0.42	20		
6370157	Dissolved Chloride (Cl-)	2019/10/07	NC	80 - 120	103	80 - 120	<1.0	mg/L	1.3	20		
6370180	Dissolved Sulphate (SO4)	2019/10/07	NC	75 - 125	97	80 - 120	<1.0	mg/L	0.026	20		
6370191	Orthophosphate (P)	2019/10/07	101	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
6370567	Nitrate (N)	2019/10/06	NC	80 - 120	93	80 - 120	<0.10	mg/L	0.12	20		
6370567	Nitrite (N)	2019/10/06	105	80 - 120	99	80 - 120	<0.010	mg/L	0.53	20		
6370851	Alkalinity (Total as CaCO3)	2019/10/06			97	85 - 115	<1.0	mg/L	6.2	20		
6370869	Conductivity	2019/10/06			102	85 - 115	<1.0	umho/cm	3.6	25		
6370884	pH	2019/10/06			102	98 - 103			0.086	N/A		
6371954	Total Suspended Solids	2019/10/08					<1	mg/L	8.0	25	98	85 - 115
6372220	Total Kjeldahl Nitrogen (TKN)	2019/10/08	NC	80 - 120	98	80 - 120	<0.10	mg/L	0.48	20	95	80 - 120
6372221	Total Organic Carbon (TOC)	2019/10/06	93	80 - 120	97	80 - 120	<0.50	mg/L	1.5	20		
6373234	Total Phosphorus	2019/10/07	96	80 - 120	97	80 - 120	<0.020	mg/L	0.017	20	97	80 - 120
6373889	Total Ammonia-N	2019/10/08	94	75 - 125	99	80 - 120	<0.050	mg/L	0.75	20		
6374062	Total Dissolved Solids	2019/10/08					<10	mg/L	NC	25	102	90 - 110
6375572	Dissolved Mercury (Hg)	2019/10/08	96	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6376380	Benzene	2019/10/08	94	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
6376380	Ethylbenzene	2019/10/08	99	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
6376380	F1 (C6-C10) - BTEX	2019/10/08					<25	ug/L	NC	30		
6376380	F1 (C6-C10)	2019/10/08	95	70 - 130	99	70 - 130	<25	ug/L	NC	30		
6376380	o-Xylene	2019/10/08	96	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
6376380	p+m-Xylene	2019/10/08	98	70 - 130	98	70 - 130	<0.40	ug/L	NC	30		
6376380	Toluene	2019/10/08	89	70 - 130	89	70 - 130	<0.20	ug/L	NC	30		
6376380	Total Xylenes	2019/10/08					<0.40	ug/L	NC	30		



BV Labs Job #: B9R7358
Report Date: 2019/10/17

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6377981	Mercury (Hg)	2019/10/09	98	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6378589	F2 (C10-C16 Hydrocarbons)	2019/10/10	109	50 - 130	92	60 - 130	<100	ug/L	NC	30		
6378589	F3 (C16-C34 Hydrocarbons)	2019/10/10	103	50 - 130	95	60 - 130	<200	ug/L	NC	30		
6378589	F4 (C34-C50 Hydrocarbons)	2019/10/10	83	50 - 130	76	60 - 130	<200	ug/L	NC	30		
6378880	Total Cyanide (CN)	2019/10/09	79 (1)	80 - 120	92	80 - 120	<0.0050	mg/L	7.7	20		
6378894	WAD Cyanide (Free)	2019/10/09	95	80 - 120	100	80 - 120	<0.0010	mg/L	4.9	20		
6381161	Dissolved Aluminum (Al)	2019/10/08	101	80 - 120	102	80 - 120	<3.0	ug/L				
6381161	Dissolved Antimony (Sb)	2019/10/08	101	80 - 120	104	80 - 120	<0.50	ug/L				
6381161	Dissolved Arsenic (As)	2019/10/08	104	80 - 120	101	80 - 120	<0.10	ug/L				
6381161	Dissolved Barium (Ba)	2019/10/08	100	80 - 120	107	80 - 120	<1.0	ug/L				
6381161	Dissolved Beryllium (Be)	2019/10/08	99	80 - 120	101	80 - 120	<0.10	ug/L				
6381161	Dissolved Bismuth (Bi)	2019/10/08	101	80 - 120	105	80 - 120	<1.0	ug/L				
6381161	Dissolved Boron (B)	2019/10/08	93	80 - 120	96	80 - 120	<50	ug/L				
6381161	Dissolved Cadmium (Cd)	2019/10/08	104	80 - 120	107	80 - 120	<0.010	ug/L				
6381161	Dissolved Chromium (Cr)	2019/10/08	103	80 - 120	105	80 - 120	<1.0	ug/L				
6381161	Dissolved Cobalt (Co)	2019/10/08	100	80 - 120	103	80 - 120	<0.20	ug/L				
6381161	Dissolved Copper (Cu)	2019/10/08	102	80 - 120	105	80 - 120	<0.20	ug/L				
6381161	Dissolved Iron (Fe)	2019/10/08	102	80 - 120	105	80 - 120	<5.0	ug/L				
6381161	Dissolved Lead (Pb)	2019/10/08	103	80 - 120	106	80 - 120	<0.20	ug/L				
6381161	Dissolved Lithium (Li)	2019/10/08	96	80 - 120	101	80 - 120	<2.0	ug/L				
6381161	Dissolved Manganese (Mn)	2019/10/08	103	80 - 120	105	80 - 120	<1.0	ug/L				
6381161	Dissolved Molybdenum (Mo)	2019/10/08	103	80 - 120	106	80 - 120	<1.0	ug/L				
6381161	Dissolved Nickel (Ni)	2019/10/08	103	80 - 120	105	80 - 120	<1.0	ug/L				
6381161	Dissolved Selenium (Se)	2019/10/08	104	80 - 120	102	80 - 120	<0.10	ug/L				
6381161	Dissolved Silicon (Si)	2019/10/08	99	80 - 120	103	80 - 120	<100	ug/L				
6381161	Dissolved Silver (Ag)	2019/10/08	102	80 - 120	106	80 - 120	<0.020	ug/L				
6381161	Dissolved Strontium (Sr)	2019/10/08	103	80 - 120	105	80 - 120	<1.0	ug/L				
6381161	Dissolved Tin (Sn)	2019/10/08	94	80 - 120	99	80 - 120	<5.0	ug/L				
6381161	Dissolved Titanium (Ti)	2019/10/08	100	80 - 120	106	80 - 120	<5.0	ug/L				
6381161	Dissolved Uranium (U)	2019/10/08	104	80 - 120	108	80 - 120	<0.10	ug/L				
6381161	Dissolved Vanadium (V)	2019/10/08	102	80 - 120	104	80 - 120	<5.0	ug/L				
6381161	Dissolved Zinc (Zn)	2019/10/08	108	80 - 120	108	80 - 120	<5.0	ug/L				



BV Labs Job #: B9R7358
Report Date: 2019/10/17

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6381161	Dissolved Zirconium (Zr)	2019/10/08	101	80 - 120	103	80 - 120	<0.10	ug/L				
6381435	Free Cyanide (CN)	2019/10/08	76 (1)	80 - 120	97	80 - 120	<1.0	ug/L	1.6	20		
6381436	Reactive Silica (SiO ₂)	2019/10/07	101	80 - 120	101	80 - 120	<0.050	mg/L				
6382911	Radium-226	2019/10/16			102	85 - 115	<0.0050	Bq/L	NC	N/A		
6383677	Total Aluminum (Al)	2019/10/10	102	80 - 120	106	80 - 120	<3.0	ug/L				
6383677	Total Antimony (Sb)	2019/10/10	NC	80 - 120	104	80 - 120	<0.50	ug/L				
6383677	Total Arsenic (As)	2019/10/10	111	80 - 120	101	80 - 120	<0.10	ug/L				
6383677	Total Barium (Ba)	2019/10/10	102	80 - 120	104	80 - 120	<1.0	ug/L				
6383677	Total Beryllium (Be)	2019/10/10	99	80 - 120	108	80 - 120	<0.10	ug/L				
6383677	Total Bismuth (Bi)	2019/10/10	82	80 - 120	105	80 - 120	<1.0	ug/L				
6383677	Total Boron (B)	2019/10/10	95	80 - 120	105	80 - 120	<50	ug/L				
6383677	Total Cadmium (Cd)	2019/10/10	100	80 - 120	106	80 - 120	<0.010	ug/L				
6383677	Total Chromium (Cr)	2019/10/10	98	80 - 120	96	80 - 120	<1.0	ug/L				
6383677	Total Cobalt (Co)	2019/10/10	94	80 - 120	96	80 - 120	<0.20	ug/L				
6383677	Total Copper (Cu)	2019/10/10	73 (1)	80 - 120	94	80 - 120	<0.50	ug/L				
6383677	Total Iron (Fe)	2019/10/10	101	80 - 120	102	80 - 120	<10	ug/L				
6383677	Total Lead (Pb)	2019/10/10	99	80 - 120	107	80 - 120	<0.20	ug/L				
6383677	Total Lithium (Li)	2019/10/10	103	80 - 120	109	80 - 120	<2.0	ug/L				
6383677	Total Manganese (Mn)	2019/10/10	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6383677	Total Molybdenum (Mo)	2019/10/10	NC	80 - 120	104	80 - 120	<1.0	ug/L				
6383677	Total Nickel (Ni)	2019/10/10	90	80 - 120	95	80 - 120	<1.0	ug/L				
6383677	Total Selenium (Se)	2019/10/10	106	80 - 120	103	80 - 120	<0.10	ug/L				
6383677	Total Silicon (Si)	2019/10/10	109	80 - 120	106	80 - 120	<100	ug/L				
6383677	Total Silver (Ag)	2019/10/10	93	80 - 120	106	80 - 120	<0.020	ug/L				
6383677	Total Strontium (Sr)	2019/10/10	NC	80 - 120	112	80 - 120	<1.0	ug/L				
6383677	Total Thallium (Tl)	2019/10/10	103	80 - 120	107	80 - 120	<0.010	ug/L				
6383677	Total Tin (Sn)	2019/10/10	94	80 - 120	95	80 - 120	<5.0	ug/L				
6383677	Total Titanium (Ti)	2019/10/10	105	80 - 120	104	80 - 120	<5.0	ug/L				
6383677	Total Uranium (U)	2019/10/10	115	80 - 120	112	80 - 120	<0.10	ug/L				
6383677	Total Vanadium (V)	2019/10/10	98	80 - 120	95	80 - 120	<5.0	ug/L				
6383677	Total Zinc (Zn)	2019/10/10	91	80 - 120	100	80 - 120	<5.0	ug/L				
6383677	Total Zirconium (Zr)	2019/10/10	108	80 - 120	106	80 - 120	<0.10	ug/L				



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VERITAS

BV Labs Job #: B9R7358

Report Date: 2019/10/17

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

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
6384534	Dissolved Thallium (TI)	2019/10/11	89	80 - 120	100	80 - 120	<0.010	ug/L				

N/A = Not Applicable

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 $\leq$ 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9R7358
Report Date: 2019/10/17

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Harry (Peng) Liang, Senior Analyst

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

Rob Reinert, B.Sc., Scientific Specialist

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VERITAS

BV Labs Job #: B9R7358

Report Date: 2019/10/17

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						

Your C.O.C. #: N-A

Attention: Roger Turmel

H2LAB-Val d'Or
900, 5^e Avenue
Val d'or, QC
Canada J9P 1B9

Report Date: 2019/07/02

Report #: R2451972

Version: 1 - Final

CERTIFICATE OF ANALYSIS

LAB BV JOB #: B926554

Received: 2019/06/26, 10:00

Sample Matrix: Waste Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Primary Reference
	Quantity	Extracted			
Daphnia - LC50 (acute-48h)-Federal	1	N/A	2019/06/27	QUE SOP-00406	EPS1/RM/14
Hardness by ICP-MS	1	2019/06/26	2019/06/27	QUE SOP-00132	MA.200-Mét. 1.2 R5 m
Rainbow Trout - LC50 (acute-96h)	1	N/A	2019/06/27	QUE SOP - 00408	EPS1/RM/13

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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.

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

Note: All parameters included in the present certificate are accredited by the MELCC unless stated otherwise.

Your C.O.C. #: N-A

Attention: Roger Turmel

H2LAB-Val d'Or
900, 5^e Avenue
Val d'or, QC
Canada J9P 1B9

Report Date: 2019/07/02

Report #: R2451972

Version: 1 - Final

CERTIFICATE OF ANALYSIS

LAB BV JOB #: B926554

Received: 2019/06/26, 10:00

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Laboratoires Bureau Veritas

02 Jul 2019 08:28:09

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

Alexe Martineau,

Email: Alexe.MARTINEAU@bvlab.com

Phone# (418) 658-5784

=====

This report has been generated and distributed using a secure automated process.

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ECOTOXICOLOGY (WASTE WATER)

Lab BV ID		GP4558	
Sampling Date		2019/06/24 07:00	
COC Number		N-A	
Received Temperature (°C)		19.3	
	Units	87738 MEL-14	QC Batch
Daphnia Magna - Can			
LC50	%v/v	ATTACHED	2003009
Rainbow Trout			
LC50	%v/v	ATTACHED	2003012
QC Batch = Quality Control Batch			
N/A = Not Applicable			



Lab BV Job #: B926554
Report Date: 2019/07/02

H2LAB-Val d'Or
Sampler Initials: BH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, reading "Roxane Champagne".

Roxane Champagne, B.Sc. Biologist, Analyst 2

Lab BV has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005 (E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



RESULTS OF RAINBOW TROUT - LC50 (ACUTE-96H)

Client : 6088 H2LAB

Job Number: B926554

Client Project Name & Number: -

Test Result:

96 hrs LC50 %v/v (95% CL): >100 (N/A) Statistical Method: Visual

Toxic unit: <1

Comment: Pass

Sample Name : 87738 MEL-14

Description: Beige, translucent, no suspended solids

Sample Collected: Jun 24, 2019 07:00 AM Sampling Method : Grab

Sample Collected By: BH/MG Volume Received: 40L

Sample Received: Jun 26, 2019 10:00 AM pH: 6.6

Analysis Start : Jun 27, 2019 11:25 AM Temperature : 16 °C

Sample Matrix : Waste Water

Sample Number: GP4558-01

Site Collection: MEL-14

Temp.Upon Arrival: 19 °C Storage: 2-6°C

Dissolved Oxygen: 91.0 mg/L

Sample Conductance: 1780 µS/cm

Concentration	Temperature (°C)	pH (pH)	Conductivity (uS/cm)	Dissolved oxygen (%)	Temperature (°C)	pH (pH)	Dissolved oxygen (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
%v/v	0 hr	0 hr	0 hr	0 hr	96 hrs	96 hr	96 hrs	24 hrs	24 hrs	24 hrs	24 hrs	48 hrs
0	16	6.9	173	102.0	15	7.1	97.0	0	0	0	0	0
6.25	16	7.0	269	101.0	15	7.1	98.0	0	0	0	0	0
12.5	16	7.0	379	100.0	15	7.0	95.0	0	0	0	0	0
25	16	7.0	594	91.0	15	7.0	96.0	0	0	0	0	0
50	16	7.0	968	94.0	15	7.1	98.0	0	0	0	0	0
100	16	6.9	1727	103.0	15	7.0	98.0	0	0	0	0	0

Concentration	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)
%v/v	48 hrs	48 hrs	48 hrs	72 hrs	72 hrs	72 hrs	72 hrs	96 hrs	96 hrs	96 hrs	96 hrs
0	0	0	0	0	0	0	0	0	0	0	0
6.25	0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0

Comments :

Culture/Control/Dilution Water

Dechlorinated municipal tap water

Hardness:

48 mg/l CaCO₃

Other parameters available on request.

Test Conditions

Test concentration : 0,6.25,12.5,25,50,100 (%v/v)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : 35 cm
 Total # of Organisms Used : 60 Pre-aeration Time : 30 min. Rate of Aeration : 6.5±1 mL/min/L
 Test Volume : 16 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.4 g/L Photoperiod : 16 hours of light; 8 hours of darkness
 Test vessel: Plastic container with polyethylene bag.

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Piscicultures Les Arpents Verts

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.7 ± 0.2 g Length (Mean) +- SD : 4.21 ± 0.30 cm
 Culture Water Renewal : 2 liters/min Weight (Range) : 0.4 – 0.9 g Length (Range) : 3.60 – 4.70 cm
 Culture Photoperiod : 16 hours of light; 8 hours of darkness % Mortality within 7 days : 0%
 Feeding rate and frequency : 1-2x a day; 1-5% of the body weights. Acclimation Time: >14 days

The results contained in this report refer only to the testing of the sample submitted. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Laboratoires Bureau Veritas 2690, avenue Dalton, Sainte-Foy, Quebec G1P 3S4 Tél: (418) 658-5784 Télécopieur: (418) 658-6594 www.bvlabs.com



RESULTS OF RAINBOW TROUT - LC50 (ACUTE-96H)

Client : 6088 H2LAB
Client Project Name & Number: -

Job Number: B926554
Sample Number: GP4558-01

Reference chemical:

Phenol

Test Date:

Jun 27, 2019

Test Endpoint 96 hrs LC50 (95% confidence interval) :

9.00 (6.00, 13.0)mg/L

Statistical Method :

Binomial

Historical Mean LC50 (warning limits) :

10.4 (9.09, 11.9) mg/L

Concentration : 0,4,6,9,13,18 mg/L

Test Method

QUE SOP - 00408. Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout.
EPS1/RM/13 - Second Edition. Environment Canada. 2000. (Including Amendments: May 2007).

This is essentially a 96H static test. Ten individuals are submitted to different effluent concentrations in order to measure the LC50 in controlled temperature, light intensity and loading density.

Method Deviations :

No change

Analyst : Andriy Bukhtiyarov, Jennifer Tremblay

Verified By : Roxane Champagne, Analyst 2

Date: Jul 01, 2019 03:49 PM



RESULTS OF DAPHNIA - LC50 (ACUTE-48H)-FEDERAL

Client : 6088 H2LAB

Job Number: B926554

Client Project Name & Number: -

No. d'échantillon : GP4558-02

Test Result:

48 hrs LC50 %v/v (95% CL): >100 (N/A) Statistical Method: Visual

Toxic unit: <1

48 hrs EC50 %v/v (95% CL): >100 (N/A) Statistical Method: Visual

Comment: Pass

Sample Name : 87738 MEL-14

Sample Matrix : Waste Water

Description: Colorless, translucent, no suspended solids

Sample Prior to Analysis:

Sample Collected: Jun 24, 2019 07:00 AM

Sampling Method : Grab

pH: 7.0

Sample Collected By: BH/MG

Site Collection: MEL-14

Temperature : 20 °C

Sample Received: Jun 26, 2019 10:00 AM

Volume Received: 1L

Dissolved Oxygen: 98.0 mg/L

Analysis Start : Jun 27, 2019 11:00 AM

Temp.Upon Arrival: 19 °C

Sample Conductance: 1788 µS/cm

End : Jun 29, 2019 11:00 AM

Storage: 2-6°C

Hardness: 353 mg CaCO₃/L

Concentration	Temperature (°C)	pH (pH)	Conductivity (µS/cm)	Dissolved oxygen (%)	Temperature (°C)	pH (pH)	Dissolved oxygen (%)	Immobility (#)	Immobility (%)	Mortality (#)	Mortality (%)
%v/v	0 hr	0 hr	0 hr	0 hr	48 hrs	48 hr	48 hrs	48 hrs	48 hrs	48 hrs	48 hrs
0	21	7.8	499	97.0	19	7.9	94.0	0	0	1	10.0
6.25	21	7.8	587	96.0	19	7.9	95.0	0	0	1	10.0
12.5	21	7.7	668	97.0	18	7.9	96.0	0	0	0	0
25	20	7.7	835	98.0	19	7.8	95.0	0	0	1	10.0
50	20	7.5	1152	98.0	19	7.7	97.0	0	0	1	10.0
100	20	7.2	1800	99.0	19	7.4	96.0	0	0	0	0

Comments :

Culture/Control/Dilution Water:

Reconstituted water for Daphnia

Hardness:

170 mg/l CaCO₃

Other parameters available on request.

Test Conditions

Test concentration : 0,6.25,12.5,25,50,100 (%v/v)

Organisms per Vessel :

10

Pre-aeration Time :

0 min

Rate of Pre-aeration :

40±5 mL/min/L

Total # of Organisms Used :

60

Test Temperature :

20 ± 2 °C

Test Hardness Adjusted :

No

Test Volume :

150 mL

Vessel Volume :

200 ml

Test pH Adjusted:

No

Loading Density :

15.0 mL/Daphnia

Photoperiod :

16 hours of light; 8 hours of darkness

Test Organism :

Daphnia magna

Source : BV Lab Culture

Age at Test Initiation :

<24 hres

Average Brood Size :

27.9

Culture Photoperiod :

16 hours of light; 8 hours of darkness

% Mortality within 7 days :

0

Culture Temperature :

20 ± 2 °C

Time To First Brood :

11 Days

Culture Diet

Fed once a day.

Reference chemical:

Potassium Dichromate

Test Date:

Jun 18, 2019

Test Endpoint 48 hrs LC50 (95% confidence interval) :

0.15 (<0.0625, 0.25)mg/L

Statistical Method :

Binomial

Historical Mean LC50 (warning limits) :

0.17 (0.13, 0.23) mg/L

Concentration : 0,0.0625,0.125,0.25,0.5,1 mg/L

Test Method

QUE SOP-00406. Reference Method for Determining Acute Lethality of Effluents to Daphnia magna. EPS1/RM/14 - Second Edition. Environment Canada. 2000.

This is essentially a 48H static test. Ten individuals are submitted to different effluent concentrations in order to measure the LC50 in controlled temperature, light intensity and loading density.

Method Deviations:

No change

The results contained in this report refer only to the testing of the sample submitted. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

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RESULTS OF DAPHNIA - LC50 (ACUTE-48H)-FEDERAL

Client : 6088 H2LAB

Job Number: B926554

Client Project Name & Number: -

No. d'échantillon : GP4558-02

Analyst : Roxane Champagne

A handwritten signature in black ink, reading "Roxane Champagne", written over a horizontal line.

Verified By : Roxane Champagne, Analyst 2

Date: Jul 01, 2019 03:56 PM

The results contained in this report refer only to the testing of the sample submitted. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

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Your C.O.C. #: N-A

Attention: Roger Turmel

H2LAB-Val d'Or
900, 5^e Avenue
Val d'Or, QC
Canada J9P 1B9

Report Date: 2019/07/26

Report #: R2459448

Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

LAB BV JOB #: B930060

Received: 2019/07/11, 09:30

Sample Matrix: Waste Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Primary Reference
	Quantity	Extracted			
Daphnia - LC50 (acute-48h)-Federal	1	N/A	2019/07/13	QUE SOP-00406	EPS1/RM/14
Hardness by ICP-MS	1	2019/07/11	2019/07/11	QUE SOP-00132	MA.200–Mét. 1.2 R5 m
Rainbow Trout - LC50 (acute-96h)	1	N/A	2019/07/12	QUE SOP - 00408	EPS1/RM/13

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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.

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

Note: All parameters included in the present certificate are accredited by the MELCC unless stated otherwise.

Your C.O.C. #: N-A

Attention: Roger Turmel

H2LAB-Val d'Or
900, 5^e Avenue
Val d'or, QC
Canada J9P 1B9

Report Date: 2019/07/26

Report #: R2459448

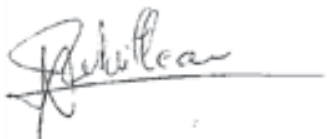
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

LAB BV JOB #: B930060

Received: 2019/07/11, 09:30

Encryption Key



Sophie Retailleau
Project Manager
26 Jul 2019 10:19:20

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

Sophie Retailleau, Project Manager

Email: Sophie.RETAILLEAU@bvlabs.com

Phone# (514)448-9001 Ext:7066232

=====

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ECOTOXICOLOGY (WASTE WATER)

Lab BV ID		GR2607	
Sampling Date		2019/07/09 06:41	
COC Number		N-A	
Received Temperature (°C)		22	
	Units	88662 MEL-14	QC Batch

Daphnia Magna - Can			
LC50	%v/v	CI-JOINT	2008105
Rainbow Trout			
LC50	%v/v	CI-JOINT	2007647
QC Batch = Quality Control Batch			
N/A = Not Applicable			



BUREAU
VERITAS

Lab BV Job #: B930060

Report Date: 2019/07/26

H2LAB-Val d'Or

Sampler Initials: DM

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

Lab BV Job #: B930060

Report Date: 2019/07/26

H2LAB-Val d'Or

Sampler Initials: DM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Angela Paquet-Walsh, M.Sc. Biologist, Senior Analyst

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RESULTS OF RAINBOW TROUT - LC50 (ACUTE-96H)

Client : 6088 H2LAB

Job Number: B930060

Client Project Name & Number: -

Test Result:

96 hrs LC50 %v/v (95% CL): >100 (N/A) Statistical Method: Visual

Toxic unit: <1

Comment: Non-toxic

Sample Name : 88662 MEL-14

Description: Beige, translucent, no suspended solids

Sample Collected: Jul 09, 2019 06:41 AM Sampling Method : Grab

Sample Collected By: DM/AG Volume Received: 40L

Sample Received: Jul 11, 2019 09:30 AM pH: 6.7

Analysis Start : Jul 12, 2019 11:30 AM Temperature : 16 °C

Sample Matrix : Waste Water

Sample Number: GR2607-01

Site Collection: MELIADINE PROJECT

Temp.Upon Arrival: 22 °C Storage: 2-6 °C

Dissolved Oxygen: 91.0 mg/L

Sample Conductance: 1653 µS/cm

Concentration	Temperature (°C)	pH (pH)	Conductivity (µS/cm)	Dissolved oxygen (%)	Temperature (°C)	pH (pH)	Dissolved oxygen (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
%v/v	0 hr	0 hr	0 hr	0 hr	96 hrs	96 hr	96 hrs	24 hrs	24 hrs	24 hrs	24 hrs	48 hrs
0	16	7.0	200	98.0	15	7.1	93.0	0	0	0	0	0
6.25	16	7.0	294	97.0	15	7.1	95.0	0	0	0	0	0
12.5	16	7.0	390	97.0	15	7.1	94.0	0	0	0	0	0
25	16	7.0	581	98.0	15	7.1	95.0	0	0	0	0	0
50	16	6.9	953	97.0	15	7.1	95.0	0	0	0	0	0
100	16	6.8	1652	95.0	15	7.0	96.0	0	0	0	0	0

Concentration	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)
%v/v	48 hrs	48 hrs	48 hrs	72 hrs	72 hrs	72 hrs	72 hrs	96 hrs	96 hrs	96 hrs	96 hrs
0	0	0	0	0	0	0	0	0	0	0	0
6.25	0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0

Comments : Note that all dissolved oxygen values are in%, although for the result before analysis the unit entered is in mg / L.
V2 rapport: anglais

Culture/Control/Dilution Water

Dechlorinated municipal tap water

Hardness:

54 mg/l CaCO₃

Other parameters available on request.

Test Conditions

Test concentration : 0,6.25,12.5,25,50,100 (%v/v)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : 35 cm
Total # of Organisms Used : 60 Pre-aeration Time : 30 min. Rate of Aeration : 6.5±1 mL/min/L
Test Volume : 16 L Vessel Volume : 20L Test pH Adjusted: No
Loading Density : 0.2 g/L Photoperiod : 16 hours of light; 8 hours of darkness
Test vessel: Plastic container with polyethylene bag.

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*)

Source : Piscicultures Les Arpents Verts

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.3 ± 0.1 g Length (Mean) +- SD : 3.37 ± 0.35 cm

Culture Water Renewal : 2 liters/min Weight (Range) : 0.2 – 0.6 g Length (Range) : 2.90 – 4.10 cm

Culture Photoperiod : 16 hours of light; 8 hours of darkness % Mortality within 7 days : 0%

Feeding rate and frequency : 1-2x a day; 1-5% of the body weights. Acclimation Time: >14 days

The results contained in this report refer only to the testing of the sample submitted. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.



RESULTS OF RAINBOW TROUT - LC50 (ACUTE-96H)

Client : 6088 H2LAB
Client Project Name & Number: -

Job Number: B930060
Sample Number: GR2607-01

Reference chemical:	Phenol	Test Date:	Jul 18, 2019
Test Endpoint 96 hrs LC50 (95% confidence interval) :	10.1 (6.00, 13.0)mg/L	Statistical Method :	Binomial
Historical Mean LC50 (warning limits) :	10.3 (8.93, 11.8) mg/L	Concentration :	0,4,6,9,13,18 mg/L

Test Method QUE SOP - 00408. Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout. EPS1/RM/13 - Second Edition. Environment Canada. 2000. (Including Amendments: May 2007).

This is essentially a 96H static test. Ten individuals are submitted to different effluent concentrations in order to measure the LC50 in controlled temperature, light intensity and loading density.

Method Deviations : No change was made to the method.

Analyst : Andriy Bukhtiyarov, Jennifer Tremblay, Vincent Langevin

Verified By : Angela Paquet-Walsh, Senior Analyst

Date: Jul 26, 2019 10:11 AM



RESULTS OF DAPHNIA - LC50 (ACUTE-48H)-FEDERAL

Client : 6088 H2LAB

Job Number: B930060

Client Project Name & Number: -

No. d'échantillon : GR2607-02

Test Result:

48 hrs LC50 %v/v (95% CL): >100 (N/A) Statistical Method: Visual

Toxic unit: <1

48 hrs EC50 %v/v (95% CL): >100 (N/A) Statistical Method: Visual

Comment: Non-toxic

Sample Name : 88662 MEL-14

Sample Matrix : Waste Water

Description: Colorless, translucent, no suspended solids

Sample Prior to Analysis:

Sample Collected: Jul 09, 2019 06:41 AM

Sampling Method : Grab

pH: 6.9

Sample Collected By: DM

Site Collection: MELIADINE PROJECT

Temperature : 19 °C

Sample Received: Jul 11, 2019 09:30 AM

Volume Received: 1L

Dissolved Oxygen: 93.0 mg/L

Analysis Start : Jul 13, 2019 12:40 PM

Temp.Upon Arrival: 22 °C

Sample Conductance: 1849 µS/cm

End : Jul 15, 2019 12:45 PM

Storage: 2-6°C

Hardness: 361 mg CaCO₃/L

Concentration	Temperature (°C)	pH (pH)	Conductivity (µS/cm)	Dissolved oxygen (%)	Temperature (°C)	pH (pH)	Dissolved oxygen (%)	Immobility (#)	Immobility (%)	Mortality (#)	Mortality (%)
%v/v	0 hr	0 hr	0 hr	0 hr	48 hrs	48 hr	48 hrs	48 hrs	48 hrs	48 hrs	48 hrs
0	20	7.9	497	94.0	20	7.9	93.0	0	0	0	0
6.25	20	7.9	570	96.0	20	7.9	94.0	0	0	0	0
12.5	20	7.8	657	94.0	20	7.9	94.0	0	0	0	0
25	20	7.7	834	96.0	20	7.8	93.0	0	0	0	0
50	20	7.6	1173	95.0	20	7.7	95.0	0	0	0	0
100	19	7.1	1857	94.0	20	7.5	92.0	0	0	0	0

Comments : Note that all dissolved oxygen values are in%, although for the result before analysis the unit entered is in mg / L.
V2 rapport: anglais

Culture/Control/Dilution Water:

Reconstituted water for Daphnia

Hardness: 180 mg/l CaCO₃

Other parameters available on request.

Test Conditions

Test concentration : 0,6.25,12.5,25,50,100 (%v/v)

Organisms per Vessel : 10 Pre-aeration Time : 0 min Rate of Pre-aeration : 40±5 mL/min/L

Total # of Organisms Used : 60 Test Temperature : 20 ± 2 °C Test Hardness Adjusted : No

Test Volume : 150 mL Vessel Volume : 200 ml Test pH Adjusted: No

Loading Density : 15.0 mL/Daphnia Photoperiod : 16 hours of light; 8 hours of darkness

Test Organism :

Daphnia magna

Source : BV Lab Culture

Age at Test Initiation : <24 hres Average Brood Size : 31.9

Culture Photoperiod : 16 hours of light; 8 hours of darkness % Mortality within 7 days : 1.0

Culture Temperature : 20 ± 2 °C Time To First Brood : 8 Days

Culture Diet Fed once a day.

Reference chemical:

Potassium Dichromate

Test Date: Jul 18, 2019

Test Endpoint 48 hrs LC50 (95% confidence interval) : 0.090 (0.070, 0.13)mg/L

Statistical Method : Probit

Historical Mean LC50 (warning limits) : 0.14 (0.078, 0.25) mg/L

Concentration : 0,0.0625,0.125,0.25,0.5,1 mg/L

Test Method

QUE SOP-00406. Reference Method for Determining Acute Lethality of Effluents to Daphnia magna. EPS1/RM/14 - Second Edition. Environment Canada. 2000.

This is essentially a 48H static test. Ten individuals are submitted to different effluent concentrations in order to measure the LC50 in controlled temperature, light intensity and loading density.

Method Deviations: No change was made to the method.

The results contained in this report refer only to the testing of the sample submitted. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

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RESULTS OF DAPHNIA - LC50 (ACUTE-48H)-FEDERAL

Client : 6088 H2LAB

Job Number: B930060

Client Project Name & Number: -

No. d'échantillon : GR2607-02

Analyst : Angela Paquet-Walsh, Mariem Barhoumi, Pierre Chabot, Sarah Derosby

A handwritten signature in blue ink that reads "Angela PW".

Verified By : Angela Paquet-Walsh, Senior Analyst

Date: Jul 26, 2019 10:13 AM

Your C.O.C. #: N-A

Attention: Roger TurmelH2LAB-Val d'Or
900, 5^e Avenue
Val d'Or, QC
Canada J9P 1B9**Report Date: 2019/08/26**

Report #: R2495403

Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT**LAB BV JOB #: B936249****Received: 2019/08/08, 09:30**Sample Matrix: Waste Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Primary Reference
	Quantity	Extracted			
Daphnia - LC50 (acute-48h)-Federal	1	N/A	2019/08/09	QUE SOP-00406	EPS1/RM/14
Hardness by ICP-MS	1	2019/08/08	2019/08/08	QUE SOP-00132	MA.200–Mét. 1.2 R5 m
Rainbow Trout - LC50 (acute-96h)	1	N/A	2019/08/09	QUE SOP - 00408	EPS1/RM/13

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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.

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

Note: All parameters included in the present certificate are accredited by the MELCC unless stated otherwise.

Your C.O.C. #: N-A

Attention: Roger Turmel

H2LAB-Val d'Or
900, 5^e Avenue
Val d'or, QC
Canada J9P 1B9

Report Date: 2019/08/26

Report #: R2495403

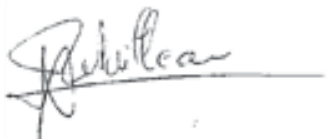
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

LAB BV JOB #: B936249

Received: 2019/08/08, 09:30

Encryption Key



Sophie Retailleau
Project Manager
27 Aug 2019 16:42:31

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

Alexe Martineau,

Email: Alexe.MARTINEAU@bvlabs.com

Phone# (418) 658-5784

=====

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BUREAU
VERITAS

Lab BV Job #: B936249

Report Date: 2019/08/26

H2LAB-Val d'Or

Sampler Initials: N/D

ECOTOXICOLOGY (WASTE WATER)

Lab BV ID		GU7354	
Sampling Date		2019/08/06 07:00	
COC Number		N-A	
Received Temperature (°C)		21.7	
	Units	89906 MEL-14	QC Batch

Daphnia Magna - Can			
LC50	%v/v	CI-JOINT	2016939
Rainbow Trout			
LC50	%v/v	CI-JOINT	2016892
QC Batch = Quality Control Batch			
N/A = Not Applicable			



Lab BV Job #: B936249
Report Date: 2019/08/26

H2LAB-Val d'Or
Sampler Initials: N/D

GENERAL COMMENTS

Version 2 : the client asked this report in english.

Results relate only to the items tested.



BUREAU
VERITAS

Lab BV Job #: B936249

Report Date: 2019/08/26

H2LAB-Val d'Or

Sampler Initials: N/D

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Olivier Roberge, B.Sc. Biologist, Analyst 2

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RESULTS OF DAPHNIA - LC50 (ACUTE-48H)-FEDERAL

BUREAU
VERITAS

Client : 6088 H2LAB

Job Number: B936249

Client Project Name & Number: -

No. d'échantillon : GU7354-02

Test Result:

48 hrs LC50 %v/v (95% CL): >100 (N/A) Statistical Method: Visual

Toxic unit: <1

48 hrs EC50 %v/v (95% CL): >100 (N/A) Statistical Method: Visual

Comment: non-toxic

Sample Name : 89906 MEL-14

Sample Matrix : Waste Water

Description: Colorless, translucent, no suspended solids

Sample Prior to Analysis:

Sample Collected: Aug 06, 2019 07:00 AM

Sampling Method : Grab

pH: 7.3

Sample Collected By: N/D

Site Collection: N/D

Temperature : 19 °C

Sample Received: Aug 08, 2019 09:30 AM

Volume Received: 1L

Dissolved Oxygen: 93.0 mg/L

Analysis Start : Aug 09, 2019 12:30 PM

Temp.Upon Arrival: 22 °C

Sample Conductance: 1421 µS/cm

End : Aug 11, 2019 11:30 AM

Storage: 2-6°C

Hardness: 211 mg CaCO₃/L

Concentration	Temperature (°C)	pH (pH)	Conductivity (µS/cm)	Dissolved oxygen (%)	Temperature (°C)	pH (pH)	Dissolved oxygen (%)	Immobility (#)	Immobility (%)	Mortality (#)	Mortality (%)
%v/v	0 hr	0 hr	0 hr	0 hr	48 hrs	48 hr	48 hrs	48 hrs	48 hrs	48 hrs	48 hrs
0	19	7.9	475	95.0	21	7.9	86.0	0	0	1	10.0
6.25	20	7.9	569	95.0	21	7.9	87.0	0	0	0	0
12.5	20	7.9	626	97.0	20	7.9	88.0	0	0	0	0
25	20	7.9	743	96.0	21	7.8	88.0	0	0	0	0
50	20	7.8	963	97.0	21	7.8	87.0	0	0	1	10.0
100	19	7.6	1425	98.0	21	7.5	87.0	0	0	0	0

Comments : Please note that all dissolved oxygen data are in %, even if the result before analysis is expressed in mg/L.

Culture/Control/Dilution Water:

Reconstituted water for Daphnia

Hardness:

180 mg/l CaCO₃

Other parameters available on request.

Test Conditions

Test concentration : 0,6.25,12.5,25,50,100 (%v/v)

Organisms per Vessel :

10

Pre-aeration Time :

0 min

Rate of Pre-aeration :

40±5 mL/min/L

Total # of Organisms Used :

60

Test Temperature :

20 ± 2 °C

Test Hardness Adjusted :

No

Test Volume :

150 mL

Vessel Volume :

200 ml

Test pH Adjusted:

No

Loading Density :

15.0 mL/Daphnia

Photoperiod :

16 hours of light; 8 hours of darkness

Test Organism :

Daphnia magna

Source : BV Lab Culture

Age at Test Initiation :

<24 hres

Average Brood Size :

29.6

Culture Photoperiod :

16 hours of light; 8 hours of darkness

% Mortality within 7 days :

1

Culture Temperature :

20 ± 2 °C

Time To First Brood :

9 Days

Culture Diet

Fed once a day.

Reference chemical:

Potassium Dichromate

Test Date:

Aug 05, 2019

Test Endpoint 48 hrs LC50 (95% confidence interval) :

0.11 (0.080, 0.14)mg/L

Statistical Method :

Probit

Historical Mean LC50 (warning limits) :

0.13 (0.073, 0.23) mg/L

Concentration : 0,0.0625,0.125,0.25,0.5,1 mg/L

Test Method

QUE SOP-00406. Reference Method for Determining Acute Lethality of Effluents to Daphnia magna. EPS1/RM/14 - Second Edition. Environment Canada. 2000.

This is essentially a 48H static test. Ten individuals are submitted to different effluent concentrations in order to measure the LC50 in controlled temperature, light intensity and loading density.

Method Deviations:

Aucune

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RESULTS OF DAPHNIA - LC50 (ACUTE-48H)-FEDERAL

Client : 6088 H2LAB

Job Number: B936249

Client Project Name & Number: -

No. d'échantillon : GU7354-02

Analyst : Clement Balac, Pierre Chabot, Roxane Champagne

Verified By : Olivier Roberge, Analyst 2

Date: Aug 26, 2019 12:21 PM

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RESULTS OF RAINBOW TROUT - LC50 (ACUTE-96H)

Client : 6088 H2LAB

Job Number: B936249

Client Project Name & Number: -

Test Result:

96 hrs LC50 %v/v (95% CL): >100 (N/A) Statistical Method: Visual

Toxic unit: <1

Comment: Non-Toxic

Sample Name : 89906 MEL-14

Description: Colorless, translucent, no suspended solids

Sample Matrix : Waste Water

Sample Collected: Aug 06, 2019 07:00 AM Sampling Method : Grab

Sample Number: GU7354-01

Sample Collected By: N/D Volume Received: 40l

Site Collection: N/D

Sample Received: Aug 08, 2019 09:30 AM pH: 6.9

Temp. Upon Arrival: 22 °C Storage: 2-6 °C

Analysis Start : Aug 09, 2019 11:30 AM Temperature : 16 °C

Dissolved Oxygen: 96.0 mg/L

Sample Conductance: 1449 µS/cm

Concentration	Temperature (°C)	pH (pH)	Conductivity (µS/cm)	Dissolved oxygen (%)	Temperature (°C)	pH (pH)	Dissolved oxygen (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
%v/v	0 hr	0 hr	0 hr	0 hr	96 hrs	96 hr	96 hrs	24 hrs	24 hrs	24 hrs	24 hrs	48 hrs
0	15	7.1	228	100.0	15	7.2	98.0	0	0	0	0	0
6.25	15	7.1	301	100.0	15	7.2	98.0	0	0	0	0	0
12.5	15	7.1	384	101.0	15	7.3	99.0	0	0	0	0	0
25	15	7.1	550	100.0	15	7.3	99.0	0	0	0	0	0
50	16	7.1	845	100.0	15	7.2	99.0	0	0	0	0	0
100	16	6.9	1447	99.0	15	7.1	98.0	0	0	0	0	0

Concentration	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)
%v/v	48 hrs	48 hrs	48 hrs	72 hrs	72 hrs	72 hrs	72 hrs	96 hrs	96 hrs	96 hrs	96 hrs
0	0	0	0	0	0	0	0	0	0	0	0
6.25	0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0

Comments : Please note that all dissolved oxygen data are in %, even if the result before analysis is expressed in mg/L.

Culture/Control/Dilution Water

Dechlorinated municipal tap water

Hardness:

55.4 mg/l CaCO₃

Other parameters available on request.

Test Conditions

Test concentration : 0,6.25,12.5,25,50,100 (%v/v)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : 35 cm
 Total # of Organisms Used : 60 Pre-aeration Time : 30 min. Rate of Aeration : 6.5±1 mL/min/L
 Test Volume : 16 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.3 g/L Photoperiod : 16 hours of light; 8 hours of darkness
 Test vessel: Plastic container with polyethylene bag.

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Piscicultures Les Arpents Verts

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.4 ± 0.1 g Length (Mean) +- SD : 3.29 ± 0.23 cm
 Culture Water Renewal : 2 liters/min Weight (Range) : 0.3 – 0.6 g Length (Range) : 3.00 – 3.50 cm
 Culture Photoperiod : 16 hours of light; 8 hours of darkness % Mortality within 7 days : 0.0%
 Feeding rate and frequency : 1-2x a day; 1-5% of the body weights. Acclimation Time: >14 days

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RESULTS OF RAINBOW TROUT - LC50 (ACUTE-96H)

Client : 6088 H2LAB
Client Project Name & Number: -

Job Number: B936249
Sample Number: GU7354-01

Reference chemical:

Phenol

Test Date:

Aug 08, 2019

Test Endpoint 96 hrs LC50 (95% confidence interval) :

9.00 (6.00, 13.0)mg/L

Statistical Method :

Binomial

Historical Mean LC50 (warning limits) :

10.2 (8.84, 11.7) mg/L

Concentration : 0,4,6,9,13,18 mg/L

Test Method

QUE SOP - 00408. Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout.
EPS1/RM/13 - Second Edition. Environment Canada. 2000. (Including Amendments: May 2007).

This is essentially a 96H static test. Ten individuals are submitted to different effluent concentrations in order to measure the LC50 in controlled temperature, light intensity and loading density.

Method Deviations :

Aucune

Analyst : Andriy Bukhtiyarov, Jennifer Tremblay, Olivier Roberge, Pierre Chabot

Verified By : Olivier Roberge, Analyst 2

Date: Aug 26, 2019 12:19 PM



RESULTS OF DAPHNIA - LC50 (ACUTE-48H)-FEDERAL

BUREAU
VERITAS

Client : 6088 H2LAB

Job Number: B948016

Client Project Name & Number: -

No. d'échantillon : HB4060-01

Test Result:

48 hrs LC50 %v/v (95% CL): > 100 (N/A) Statistical Method: Visual

Toxic unit: < 1

48 hrs EC50 %v/v (95% CL): > 100 (N/A) Statistical Method: Visual

Comment: Non Toxique

Sample Name : 92753 MEL-14

Sample Matrix : Waste Water

Description: Colorless, translucent, no suspended solids

Sample Prior to Analysis:

Sample Collected: Oct 01, 2019 06:00 AM

Sampling Method : Grab

pH: 7.3

Sample Collected By: RS

Site Collection: Meliadine

Temperature : 21 °C

Sample Received: Oct 03, 2019 10:00 AM

Volume Received: 1L

Dissolved Oxygen: 109.0 %

Analysis Start : Oct 06, 2019 12:30 PM

Temp. Upon Arrival: 13 °C

Sample Conductance: 2005 µS/cm

End : Oct 08, 2019 11:25 AM

Storage: 2-6°C

Hardness: 410 mg CaCO₃/L

Concentration	Temperature (°C)	pH (pH)	Conductivity (µS/cm)	Dissolved oxygen (%)	Temperature (°C)	pH (pH)	Dissolved oxygen (%)	Immobility (#)	Immobility (%)	Mortality (#)	Mortality (%)
%v/v	0 hr	0 hr	0 hr	0 hr	48 hrs	48 hr	48 hrs	48 hrs	48 hrs	48 hrs	48 hrs
0	20	7.8	463	95.0	20	7.7	94.0	0	0	0	0
6.25	20	7.7	582	96.0	21	7.8	97.0	0	0	0	0
12.5	20	7.7	685	95.0	21	7.8	97.0	0	0	0	0
25	20	7.7	872	95.0	20	7.7	96.0	0	0	0	0
50	20	7.6	1256	95.0	20	7.7	97.0	0	0	0	0
100	21	7.5	2012	94.0	20	7.5	97.0	0	0	0	0

Comments : No discrepancies observed during the test. No change was made to the method.

Culture/Control/Dilution Water:

Reconstituted water for Daphnia

Hardness:

170 mg/l CaCO₃

Other parameters available on request.

Test Conditions

Test concentration : 0,6.25,12.5,25,50,100 (%v/v)

Organisms per Vessel :

10

Pre-aeration Time :

30 min

Rate of Pre-aeration :

40±5 mL/min/L

Total # of Organisms Used :

60

Test Temperature :

20 ± 2 °C

Test Hardness Adjusted :

No

Test Volume :

150 mL

Vessel Volume :

200 ml

Test pH Adjusted:

No

Loading Density :

15.0 mL/Daphnia

Photoperiod :

16 hours of light; 8 hours of darkness

Test Organism :

Daphnia magna

Source : BV Lab Culture

Age at Test Initiation :

<24 hres

Average Brood Size :

34.1

Culture Photoperiod :

16 hours of light; 8 hours of darkness

% Mortality within 7 days :

8.1

Culture Temperature :

20 ± 2 °C

Time To First Brood :

8 Days

Culture Diet

Fed once a day.

Reference chemical:

Potassium Dichromate

Test Date:

Oct 09, 2019

Test Endpoint 48 hrs LC50 (95% confidence interval) :

0.11 (0.070, 0.15)mg/L

Statistical Method :

Probit

Historical Mean LC50 (warning limits) :

0.11 (0.073, 0.18) mg/L

Concentration : 0,0.0625,0.125,0.25,0.5,1 mg/L

Test Method

QUE SOP-00406. Reference Method for Determining Acute Lethality of Effluents to Daphnia magna. EPS1/RM/14 - Second Edition. Environment Canada. 2000.

This is essentially a 48H static test. Ten individuals are submitted to different effluent concentrations in order to measure the LC50 in controlled temperature, light intensity and loading density.

Method Deviations:

Aucune

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RESULTS OF DAPHNIA - LC50 (ACUTE-48H)-FEDERAL

Client : 6088 H2LAB

Job Number: B948016

Client Project Name & Number: -

No. d'échantillon : HB4060-01

Analyst : Aurore Becker, Jennifer Tremblay, Mariem Barhoumi, Maude Marcoux, Olivier Roberge

Verified By : 
Aurélie Lebel, Ecotoxicologist

Date: Nov 05, 2019 02:23 PM

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RESULTS OF RAINBOW TROUT - LC50 (ACUTE-96H)

Client : 6088 H2LAB

Job Number: B948016

Client Project Name & Number: -

Test Result:

96 hrs LC50 %v/v (95% CL): >100 (N/A) Statistical Method: Visual

Toxic unit: <1

Comment: Non-toxique

Sample Name : 92753 MEL-14

Description: Beige, translucent, no suspended solids

Sample Matrix : Waste Water

Sample Collected: Oct 01, 2019 06:00 AM Sampling Method : Grab

Sample Number: HB4060-02

Sample Collected By: RS Volume Received: 40 L

Site Collection: Meliadine

Sample Received: Oct 03, 2019 10:00 AM pH: 7.0

Temp. Upon Arrival: 13 °C Storage: 2-6 °C

Analysis Start : Oct 04, 2019 02:18 PM Temperature : 15 °C

Dissolved Oxygen: 99.0 %

Sample Conductance: 1963 µS/cm

Concentration	Temperature (°C)	pH (pH)	Conductivity (µS/cm)	Dissolved oxygen (%)	Temperature (°C)	pH (pH)	Dissolved oxygen (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
%v/v	0 hr	0 hr	0 hr	0 hr	96 hrs	96 hr	96 hrs	24 hrs	24 hrs	24 hrs	24 hrs	48 hrs
0	15	7.3	192	99.0	15	7.1	99.0	0	0	0	0	0
6.25	15	7.2	301	98.0	15	7.2	99.0	0	0	0	0	0
12.5	15	7.2	422	99.0	15	7.2	99.0	0	0	0	0	0
25	15	7.2	642	98.0	15	7.2	99.0	0	0	0	0	0
50	15	7.2	1100	99.0	15	7.2	98.0	0	0	0	0	0
100	15	7.1	1960	99.0	15	7.2	99.0	0	0	0	0	0

Concentration	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)
%v/v	48 hrs	48 hrs	48 hrs	72 hrs	72 hrs	72 hrs	72 hrs	96 hrs	96 hrs	96 hrs	96 hrs
0	0	0	0	0	0	0	0	0	0	0	0
6.25	0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0

Comments : No discrepancies observed during the test. No change was made to the method.

Culture/Control/Dilution Water

Dechlorinated municipal tap water

Hardness:

49.2 mg/l CaCO₃

Other parameters available on request.

Test Conditions

Test concentration : 0,6.25,12.5,25,50,100 (%v/v)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : 35 cm
 Total # of Organisms Used : 60 Pre-aeration Time : 30 min. Rate of Aeration : 6.5±1 mL/min/L
 Test Volume : 16 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.3 g/L Photoperiod : 16 hours of light; 8 hours of darkness
 Test vessel: Plastic container with polyethylene bag.

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Piscicultures Les Arpents Verts

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.5 ± 0.1 g Length (Mean) +- SD : 3.59 ± 0.31 cm
 Culture Water Renewal : 2 liters/min Weight (Range) : 0.3 – 0.7 g Length (Range) : 3.20 – 4.20 cm
 Culture Photoperiod : 16 hours of light; 8 hours of darkness % Mortality within 7 days : 0.0%
 Feeding rate and frequency : 1-2x a day; 1-5% of the body weights. Acclimation Time: >14 days

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RESULTS OF RAINBOW TROUT - LC50 (ACUTE-96H)

Client : 6088 H2LAB
Client Project Name & Number: -

Job Number: B948016
Sample Number: HB4060-02

Reference chemical:	Phenol	Test Date:	Oct 04, 2019
Test Endpoint 96 hrs LC50 (95% confidence interval) :	10.1 (6.00, 13.0)mg/L	Statistical Method :	Binomial
Historical Mean LC50 (warning limits) :	10.2 (8.78, 11.7) mg/L	Concentration :	0,4,6,9,13,18 mg/L

Test Method QUE SOP - 00408. Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout. EPS1/RM/13 - Second Edition. Environment Canada. 2000. (Including Amendments: May 2007).

This is essentially a 96H static test. Ten individuals are submitted to different effluent concentrations in order to measure the LC50 in controlled temperature, light intensity and loading density.

Method Deviations : Aucune

Analyst : Andriy Bukhtiyarov, Jennifer Tremblay, Simon-Pierre Tchang

Verified By : Aurélie Lebel, Ecotoxicologist

Date: Nov 05, 2019 02:24 PM



AquaTox Testing & Consulting Inc.
B-11 Nicholas Beaver Road
Puslinch, ON N0B 2J0
Tel. (519) 763-4412
Fax. (519) 763-4419

August 12, 2019

Martin Theriault
Agnico Eagle Mines Limited - Meliadine Project
Meliadine Division
Rankin Inlet NU
X0C 0G0

Dear Martin,

Re: Report on Sublethal Toxicity Analysis of Wastewater for MDMER - July 2019

Enclosed are the reports for sublethal testing conducted on the sample of Mel-14d collected 2019-07-09 .
Data are presented in electronic format.

Sublethal toxicity reporting for facilities subject to the MDMER has been modernized in the new Mining Effluent Reporting System (MERS). As part of our services, for a fee, we would be pleased to enter this sublethal toxicity information on your behalf via SWIM/MERS. In an email to reporter@aquatox.ca, please provide an 'ECCC Key', which is supplied to you by SWIM (Single Window Information Manager). In addition, you must have your facility information registered, and you must create a report (Information Related to Effluent and Water Quality Monitoring Studies) in MERS.

We will notify you by email once data entry has been completed, however you are responsible for final submission of the data, as we do not have permissions to release the report.

If you have any questions about the results, do not hesitate to contact me.

Sincerely,

AQUATOX TESTING & CONSULTING INC.

A handwritten signature in black ink, appearing to read "Nancy Kreager".

Nancy Kreager
Project Manager

NK/jl



AquaTox Testing & Consulting Inc.
B-11 Nicholas Beaver Road
Puslinch, ON N0B 2J0
Tel. (519) 763-4412
Fax. (519) 763-4419

TOXICITY TEST REPORT

Lemna minor
EPS 1/RM/37
Page 1 of 4

Work Order : 239745
Sample Number : 59893

SAMPLE IDENTIFICATION

Company :	Agnico Eagle Mines Limited - Meliadine Project	Date Collected :	2019-07-09
Location :	Rankin Inlet NU	Time Collected :	06:41
Substance :	Mel-14d	Date Received :	2019-07-12
Sampling Method :	Grab	Time Received :	15:35
Sampled By :	C. DeForge/ R. Shwandt	Date Tested :	2019-07-12
Temp. on arrival :	23.0°C		
Sample Description :	Clear, colourless, moderate odour.		
Test Method :	Test for Measuring the Inhibition of Growth using the Freshwater Macrophyte, <i>Lemna minor</i> . Method Development and Application Section, Environmental Technology Centre, Environment Canada. Ottawa, Ontario. Report EPS 1/RM/37, 2nd ed. (January 2007) with deviation(s) as noted below.		

TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
IC25 (Weight)	>97.0%	-	Nonlinear Regression (CETIS) a
IC25 (Frond Production)	>97.0%	-	-

The results reported relate only to the sample tested and as received.

POTASSIUM CHLORIDE REFERENCE TOXICANT DATA

Date Tested :	2019-07-24	Statistical Method :	Non-Linear Regression (CETIS) ^a
Analyst(s) :	RK	Historical Mean IC25 :	2.23 g/L
Test Duration :	7 days	Warning Limits ($\pm$ 2SD) :	1.59 - 3.13 g/L
IC25 (Frond Production) :	2.61 g/L	Growth Medium :	Modified APHA
95% Confidence Limits :	2.20 - 3.01 g/L		

The reference toxicant test was performed under the same experimental conditions as those used with the test sample.

TEST CONDITIONS

Test Organism :	<i>Lemna minor</i> L., Strain 7730	Test Type :	Static (no sub-samples required)
Organism Batch :	Lm19-07	Control/Dilution Medium :	Modified APHA
Culture Origin :	UTCC 492	Medium Preparation Water :	Distilled Water
Test Organism Source :	Axenic in-house culture	Source of Water :	Morning Mist
Culture Medium :	Modified Hoaglands E+	Medium Preparation Chemicals :	Modified APHA stocks A, B, C (10 mL/L)
Age (on Test Day 0) :	10 days	Nutrient Spiking of Sample :	Modified APHA stocks A, B, C (10 mL/L)
Health Criteria (in APHA) :	17-fold frond increase in 7 days	Replicates per Concentration :	4
Organism Acclimation :	25 h in APHA medium	Test Volume per Replicate :	100 mL
Inoculum (Test Day 0) :	2 plants (3 fronds per plant)	Test Vessel :	210 mL glass jar
Sample Filtration :	1 μ m (Whatman GF/C)	Depth of Test Solution :	4.0 cm
Sample Pre-aeration :	20 min. at $\leq$ 100 bubbles/min.	Photoperiod/Light Intensity :	Continuous, 5100 - 5520 lux
pH Adjustment :	None	Test Method Deviation(s) :	See 'Comments'
Hardness Adjustment :	None		

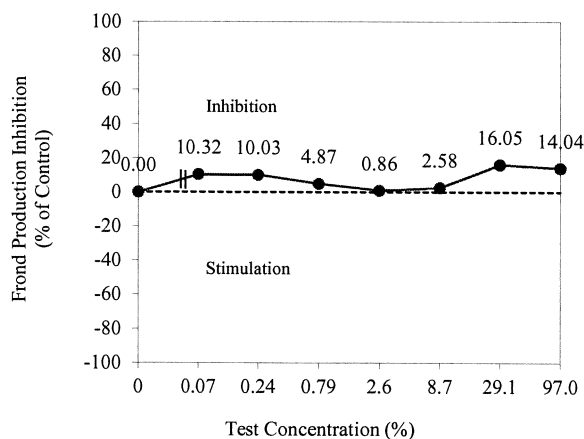
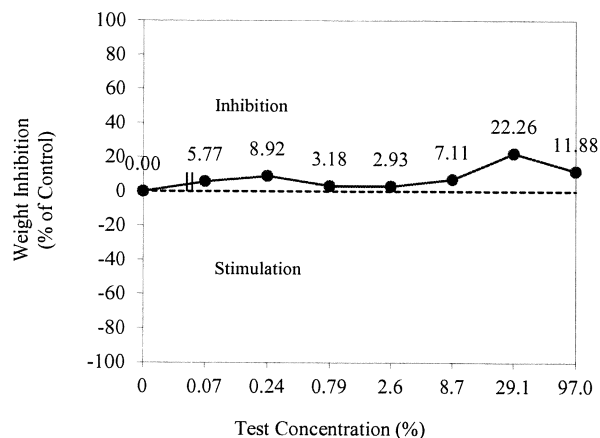
COMMENTS

•All test validity criteria as specified in the test method cited above were satisfied.

Noted Deviation(s) : Acclimation of test organisms exceeded the maximum of 24 hours allowed by the test method. Organisms were acclimated for 25 hours. Testing was conducted with the knowledge and consent of the client.

Work Order : 239745

Sample Number : 59893

Lemna minor Growth Inhibition

TEST MONITORING

Initiation Date : 2019-07-12

Initiation Time : 17:20

Initiated By : RK/NK

Termination Date : 2019-07-19

Termination Time : 15:45

Terminated By : NK/RK

Temperature Monitoring

Test Day	Date	Temperature (°C)
0 (unmodified sample)	2019-07-12	24.0
0	2019-07-12	26.0
1	2019-07-13	26.0
2	2019-07-14	26.0
3	2019-07-15	25.0
4	2019-07-16	25.0
5	2019-07-17	25.0
6	2019-07-18	25.5
7	2019-07-19	24.5

pH Monitoring

Concentration (%)	Day 0	Day 7
100 (unmodified sample)	6.7	—
Control	8.2	8.5
0.07	8.2	8.6
0.24	—	—
0.79	—	—
2.6	8.2	8.6
8.7	—	—
29.1	—	—
97.0	7.9	8.3

"—" = not required

REFERENCES

^a CETIS™, © 2000-2018. V.1.9.4.7. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, LLC, McKinleyville, CA 95519 [Program on disk and printed User's Guide].

^b Grubbs, F.E., 1969. Procedures for detecting outlying observations in samples. *Technometrics*, 11:1-21.

Date : 2019-08-12
yyyy-mm-dd

Approved By: Nancy Shup
Project Manager

Work Order : 239745

Sample Number : 59893

***Lemna minor* Frond Increase**

Test Concentration (%)	Replicate	Frond Count Day 0*	Frond Count Day 7	Frond Increase	Mean Frond Increase	Standard Deviation	CV (%)	Frond/Root Appearance (Day 7)
Control	A	6	89	83	87.25	8.26	9.5	Fronds healthy, appearance normal in all replicates.
	B	6	95	89				
	C	6	104	98				
	D	6	85	79				
0.07	A	6	83	77	78.25	1.89	2.4	Fronds healthy, appearance normal in all replicates.
	B	6	87	81				
	C	6	84	78				
	D	6	83	77				
0.24	A	6	82	76	78.50	5.69	7.2	Fronds healthy, appearance normal in all replicates.
	B	6	82	76				
	C	6	81	75				
	D	6	93	87				
0.79	A	6	88	82	83.00	5.77	7.0	Fronds healthy, appearance normal in all replicates.
	B	6	96	90				
	C	6	90	84				
	D	6	82	76				
2.6	A	6	94	88	86.50	8.10	9.4	Fronds healthy, appearance normal in all replicates.
	B	6	84	78				
	C	6	89	83				
	D	6	103	97				
8.7	A	6	83	77	85.00	6.27	7.4	Fronds healthy, appearance normal in all replicates.
	B	6	93	87				
	C	6	90	84				
	D	6	98	92				
29.1	A	6	82	76	73.25	7.27	9.9	Fronds healthy, appearance normal in all replicates.
	B	6	86	80				
	C	6	69	63				
	D	6	80	74				
97.0	A	6	80	74	75.00	2.58	3.4	Fronds healthy, appearance normal in all replicates.
	B	6	78	72				
	C	6	82	76				
	D	6	84	78				

NOTES: *No unusual appearance or treatment of culture prior to testing. Test inoculated with healthy plants.

•No stimulation of frond increase compared to the control was observed at any test level.

•A 15.5-fold increase in frond number was observed in the control over the testing period.

•No outlying data points were detected according to Grubbs Test^b.

"-" = not available/not required

Test Data Reviewed By : AW

Date : 2019-08-09

Work Order : 239745
Sample Number : 59893

Lemna minor
EPS 1/RM/37
Page 4 of 4

***Lemna minor* Frond Weight Data**

Test Concentration (%)	Replicate	Dry Weight of Fronds (mg)	Treatment Mean Dry Weight (mg)	Standard Deviation
Control	A	8.02	8.19	0.59
	B	8.94		
	C	8.26		
	D	7.53		
0.07	A	7.16	7.72	0.37
	B	7.94		
	C	7.88		
	D	7.88		
0.24	A	7.57	7.46	0.47
	B	7.19		
	C	7.00		
	D	8.07		
0.79	A	7.67	7.93	0.51
	B	8.67		
	C	7.84		
	D	7.53		
2.6	A	8.23	7.95	0.59
	B	7.25		
	C	7.72		
	D	8.59		
8.7	A	7.25	7.61	0.29
	B	7.50		
	C	7.77		
	D	7.90		
29.1	A	6.83	6.37	0.39
	B	6.53		
	C	5.96		
	D	6.14		
97.0	A	7.17	7.22	0.16
	B	7.08		
	C	7.17		
	D	7.44		

NOTES :
 •No stimulation of weight compared to the control was observed at any test level.
 •No outlying data points were detected according to Grubbs Test (CETIS)^a.

"—" = not available/not required

Test Data Reviewed By : IL
Date : 2019-08-09

CHAIN OF CUSTODY RECORD



AquaTox Work Order No:
039745

Shipping Address: AquaTox Testing & Consulting Inc.
B-11 Nicholas Beaver Road,
Puslinch, Ontario, Canada
N0B2J0
Voice: (519) 763-4412 Fax: (519) 763-4419

P.O. Number: 644699

Field Sampler Name (print): Cassandra DeForge / Randy Shwandt

Signature: _____

Affiliation: Agnico Eagle Mines Ltd. - Meliadine Division

Sample Storage (prior to shipping): Shipped immediately after

Custody Relinquished by: Sampling Cassandra DeForge

Date/Time Shipped: 2019-07-09

Client: Agnico Eagle Mines Limited
Meliadine Project
Kamke Inlet, Nunavut, Canada
XDC 060

Phone: (819) 759-3555 (ext 3996)

Fax: _____

Contact: Dan Gorton or Sean Aruda

Sample Identification				Analyses Requested										Sample Method and Volume			
Date Collected (yyyy-mm-dd)	Time Collected (e.g. 14:30, 24 hr clock)	Sample Name	AquaTox Sample Number	Temp. on arrival	Rainbow Trout Single Concentration	Rainbow Trout LC50	Daphnia magna Single Concentration	Daphnia magna LC50	Fathead Minnow Survival & Growth	Ceriodaphnia dubia Survival & Reproduction	Lemna minor Growth	Pseudokirchnerella subcapitata Growth	RISS Data Entry	Other (please specify below)	Grab	Composite	# of Containers and Volume (eg. 2 x 1L, 3 x 10L, etc.)
2019-07-09	06:41	Mel-14d	59893	23.0							X				X		4 L
</																	

For Lab Use Only

Received By: mw/TA

Date: 2019-07-10

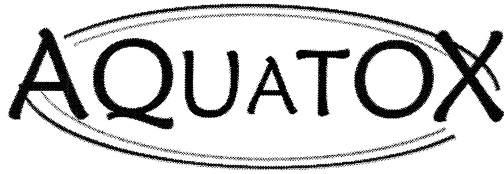
Time: 15:35

Storage Location: _____

Storage Temp.(°C): _____

Please list any special requests or instructions:

NK



AquaTox Testing & Consulting Inc.
B-11 Nicholas Beaver Road
Puslinch, ON N0B 2J0
Tel. (519) 763-4412
Fax. (519) 763-4419

September 11, 2019

Martin Theriault
Agnico Eagle Mines Limited - Meliadine Project
Meliadine Division
Rankin Inlet NU
X0C 0G0

Dear Martin,

Re: Report on Sublethal Toxicity Analysis of Wastewater for MDMER - August 2019

Enclosed are the reports for sublethal testing conducted on the sample of MEL-14d collected 2019-08-13. Data are presented in electronic format.

Sublethal toxicity reporting for facilities subject to the MDMER has been modernized in the new Mining Effluent Reporting System (MERS). As part of our services, for a fee, we would be pleased to enter this sublethal toxicity information on your behalf via SWIM/MERS. In an email to reporter@aquatox.ca, please provide an 'ECCC Key', which is supplied to you by SWIM (Single Window Information Manager). In addition, you must have your facility information registered, and you must create a report (Information Related to Effluent and Water Quality Monitoring Studies) in MERS.

We will notify you by email once data entry has been completed, however you are responsible for final submission of the data, as we do not have permissions to release the report.

If you have any questions about the results, do not hesitate to contact me.

Sincerely,

AQUATOX TESTING & CONSULTING INC.

A handwritten signature in cursive script that reads "Nancy Kreager".

Nancy Kreager
Project Manager

NK/jl



AquaTox Testing & Consulting Inc.
B-11 Nicholas Beaver Road
Puslinch, ON N0B 2J0
Tel. (519) 763-4412
Fax. (519) 763-4419

TOXICITY TEST REPORT

Lemna minor
EPS 1/RM/37
Page 1 of 4

Work Order : 240044
Sample Number : 60334

SAMPLE IDENTIFICATION

Company : Agnico Eagle Mines Limited - Meliadine Project
Location : Rankin Inlet NU
Substance : MEL-14d
Sampling Method : Grab
Sampled By : B. Hodgins
Temp. on arrival : 19.0°C
Sample Description : Clear, colourless, odourless.
Date Collected : 2019-08-13
Time Collected : 07:15
Date Received : 2019-08-16
Time Received : 09:45
Date Tested : 2019-08-16
Test Method : Test for Measuring the Inhibition of Growth using the Freshwater Macrophyte, *Lemna minor*.
Method Development and Application Section, Environmental Technology Centre, Environment
Canada. Ottawa, Ontario. Report EPS 1/RM/37, 2nd ed. (January 2007).

TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
IC25 (Weight)	>97.0%	-	-
IC25 (Frond Production)	>97.0%	-	-

The results reported relate only to the sample tested and as received.

POTASSIUM CHLORIDE REFERENCE TOXICANT DATA

Date Tested : 2019-08-22
Analyst(s) : MJT, AS
Test Duration : 7 days
IC25 (Frond Production) : 1.99 g/L
95% Confidence Limits : 1.63 - 2.36 g/L
Statistical Method : Non-Linear Regression (CETIS)^a
Historical Mean IC25 : 2.25 g/L
Warning Limits ($\pm$ 2SD) : 1.59 - 3.18 g/L
Growth Medium : Modified APHA

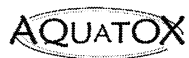
The reference toxicant test was performed under the same experimental conditions as those used with the test sample.

TEST CONDITIONS

Test Organism : *Lemna minor* L., Strain 7730
Organism Batch : Lm19-08
Culture Origin : UTCC 492
Test Organism Source : Axenic in-house culture
Culture Medium : Modified Hoaglands E+
Age (on Test Day 0) : 10 days
Health Criteria (in APHA) : 23.33-fold frond increase in 7 days
Organism Acclimation : 21:05 h in APHA medium
Inoculum (Test Day 0) : 2 plants (3 fronds per plant)
Sample Filtration : 1 μ m (Whatman GF/C)
Sample Pre-aeration : 20 min. at $\leq$ 100 bubbles/min.
pH Adjustment : None
Hardness Adjustment : None
Test Type : Static (no sub-samples required)
Control/Dilution Medium : Modified APHA
Medium Preparation Water : Distilled Water
Source of Water : Morning Mist
Medium Preparation Chemicals : Modified APHA stocks A, B, C (10 mL/L)
Nutrient Spiking of Sample : Modified APHA stocks A, B, C (10 mL/L)
Replicates per Concentration : 4
Test Volume per Replicate : 100 mL
Test Vessel : 210 mL glass jar
Depth of Test Solution : 4.0 cm
Photoperiod/Light Intensity : Continuous, 4900 - 5410 lux
Test Method Deviation(s) : None

COMMENTS

•All test validity criteria as specified in the test method cited above were satisfied.



TOXICITY TEST REPORT

Lemna minor

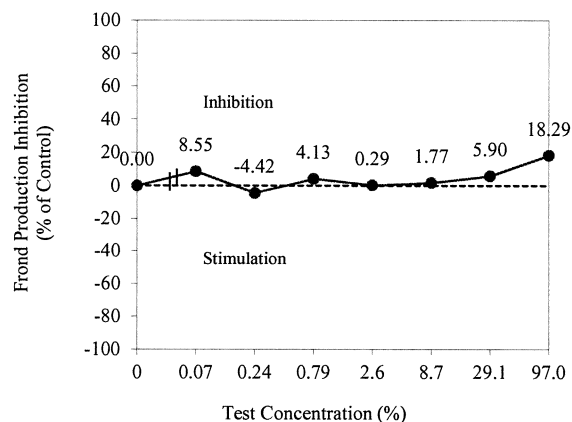
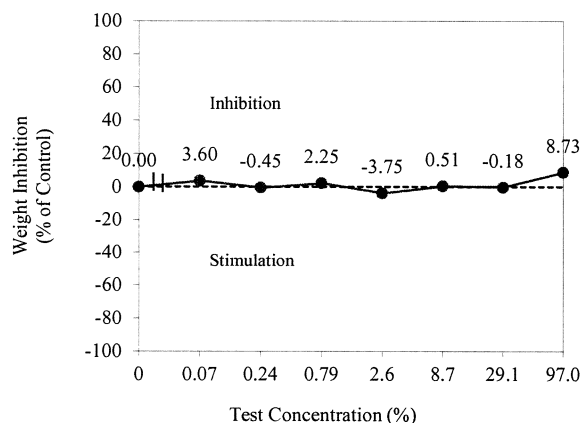
EPS 1/RM/37

Page 2 of 4

Work Order : 240044

Sample Number : 60334

Lemna minor Growth Inhibition



TEST MONITORING

Initiation Date : 2019-08-16

Initiation Time : 12:50

Initiated By : MDH

Termination Date : 2019-08-23

Termination Time : 15:00

Terminated By : MJT

Temperature Monitoring

Test Day	Date	Temperature (°C)
0 (unmodified sample)	2019-08-16	25.0
0	2019-08-16	25.0
1	2019-08-17	25.0
2	2019-08-18	25.0
3	2019-08-19	25.0
4	2019-08-20	24.5
5	2019-08-21	24.5
6	2019-08-22	24.5
7	2019-08-23	24.5

pH Monitoring

Concentration (%)	Day 0	Day 7
100 (unmodified sample)	7.1	—
Control	8.3	8.3
0.07	8.3	8.5
0.24	—	—
0.79	—	—
2.6	8.3	8.9
8.7	—	—
29.1	—	—
97.0	7.8	9.6

"—" = not required

REFERENCES

^a CETISTM, © 2000-2018. V.1.9.4.7. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, LLC, McKinleyville, CA 95519 [Program on disk and printed User's Guide].

Date :

2019-09-11

yyyy-mm-dd

Approved By:

Nancy Kropf
Project Manager

Work Order : 240044
Sample Number : 60334

Lemna minor
EPS 1/RM/37
Page 3 of 4

***Lemna minor* Frond Increase**

Test Concentration (%)	Replicate	Frond Count Day 0*	Frond Count Day 7	Frond Increase	Mean Frond Increase	Standard Deviation	CV (%)	Frond/Root Appearance (Day 7)
Control	A	6	72	66	84.75	17.17	20.3	Fronds healthy, appearance normal in all replicates.
	B	6	85	79				
	C	6	93	87				
	D	6	113	107				
0.07	A	6	87	81	77.50	8.50	11.0	Fronds healthy, appearance normal in all replicates.
	B	6	71	65				
	C	6	86	80				
	D	6	90	84				
0.24	A	6	109	103	88.50	10.02	11.3	Fronds healthy, appearance normal in all replicates.
	B	6	86	80				
	C	6	91	85				
	D	6	92	86				
0.79	A	6	89	83	81.25	8.81	10.8	Fronds healthy, appearance normal in all replicates.
	B	6	81	75				
	C	6	99	93				
	D	6	80	74				
2.6	A	6	90	84	84.50	6.61	7.8	Fronds healthy, appearance normal in all replicates.
	B	6	92	86				
	C	6	98	92				
	D	6	82	76				
8.7	A	6	79	73	83.25	8.26	9.9	Fronds healthy, appearance normal in all replicates.
	B	6	88	82				
	C	6	99	93				
	D	6	91	85				
29.1	A	6	93	87	79.75	5.12	6.4	Fronds healthy, appearance normal in all replicates.
	B	6	85	79				
	C	6	84	78				
	D	6	81	75				
97.0	A	6	68	62	69.25	11.30	16.3	Fronds healthy, appearance normal in all replicates.
	B	6	78	72				
	C	6	90	84				
	D	6	65	59				

NOTES: *No unusual appearance or treatment of culture prior to testing. Test inoculated with healthy plants.

•No significant stimulation ($\alpha=0.05$) of frond increase was detected by ANOVA-Dunnett Multiple Comparison Test (CETIS)^a at any test level compared to the control.

•A 15.1-fold increase in frond number was observed in the control over the testing period.

•No outlying data points were detected according to Grubbs Test (CETIS)^a.

"—" = not available/not required

Test Data Reviewed By : *IL*
Date : 2019-09-11

Work Order : 240044
Sample Number : 60334

Lemna minor
EPS 1/RM/37
Page 4 of 4

***Lemna minor* Frond Weight Data**

Test Concentration (%)	Replicate	Dry Weight of Fronds (mg)	Treatment Mean Dry Weight (mg)	Standard Deviation
Control	A	6.48	8.33	1.44
	B	8.12		
	C	8.78		
	D	9.94		
0.07	A	8.22	8.03	0.35
	B	7.56		
	C	7.97		
	D	8.37		
0.24	A	9.53	8.37	0.89
	B	7.56		
	C	7.80		
	D	8.58		
0.79	A	7.98	8.14	0.98
	B	7.33		
	C	9.55		
	D	7.71		
2.6	A	8.15	8.64	0.39
	B	8.51		
	C	8.94		
	D	8.97		
8.7	A	7.26	8.29	0.82
	B	8.11		
	C	9.19		
	D	8.59		
29.1	A	8.79	8.34	0.31
	B	8.30		
	C	8.23		
	D	8.06		
97.0	A	7.03	7.60	1.61
	B	7.76		
	C	9.73		
	D	5.89		

NOTES :

- No significant stimulation ($\alpha=0.05$) of frond weight was detected by ANOVA-Dunnnett Multiple Comparison Test (CETIS)^a at any test level compared to the control.
- No outlying data points were detected according to Grubbs Test (CETIS)^a.

"—" = not available/not required

Test Data Reviewed By : *TC*
Date : 2019-09-11

CHAIN OF CUSTODY RECORD



Aquatox Work Order No:

240044

P.O. Number:	644699
Field Sampler Name (print):	*
Signature:	
Affiliation:	Agnico Eagle Mines Ltd. - Meliadine Division
Sample Storage (prior to shipping):	Shipped immediately after sampling
Custody Relinquished by:	
Date/Time Shipped:	

Shipping Address: Aquatox Testing & Consulting Inc.
B-11 Nicholas Beaver Road,
Puslinch, Ontario, Canada
N0B2J0

Voice: (519) 763-4412 Fax: (519) 763-4419

Client:	Agnico Eagle Mines Limited Meliadine Project Rankin Inlet, Nunavut, Canada XOC 0G0
Phone:	819-759-3555 ext 3996
Fax:	
Contact:	Dan Gorton or Sean Arruda

Sample Identification					Analyses Requested										Sample Method and Volume		
Date Collected (yyyy-mm-dd)	Time Collected (e.g. 14:30, 24 hr clock)	Sample Name	AquaTox Sample Number	Temp. on arrival	Rainbow Trout Single Concentration	Rainbow Trout LC50	Daphnia magna Single Concentration	Daphnia magna LC50	Fathead Minnow Survival & Growth	Ceriodaphnia dubia Survival & Reproduction	Lemna minor Growth	Pseudokirchnerella subcapitata Growth	RISS Data Entry	Other (please specify below)	Grab	Composite	# of Containers and Volume (eg. 2 x 1L, 3 x 10L, etc.)
2019-08-13	7:15	MEL-14d	6033A	19.0							✓				✓		2L

For Lab Use Only	
Received By:	KLAS
Date:	2019-08-16
Time:	9:45
Storage Location:	
Storage Temp. (°C):	

Please list any special requests or instructions:

* Field Sampler name Bethany Hodgins as per
Client email (NB) 2019-08-16



AquaTox Testing & Consulting Inc.
B-11 Nicholas Beaver Road
Puslinch, ON N0B 2J0
Tel. (519) 763-4412
Fax. (519) 763-4419

November 27, 2019

Martin Theriault
Agnico Eagle Mines Limited - Meliadine Project
Meliadine Division
Rankin Inlet NU
X0C 0G0

Dear Martin,

Re: Report on Sublethal Toxicity Analysis of Wastewater for MDMER - October 2019

Enclosed are the reports for sublethal testing conducted on the sample of MEL-14d collected 2019-10-01. Data are presented in electronic format.

Sublethal toxicity reporting for facilities subject to the MDMER has been modernized in the new Mining Effluent Reporting System (MERS). As part of our services, for a fee, we would be pleased to enter this sublethal toxicity information on your behalf via SWIM/MERS. In an email to reporter@aquatox.ca, please provide an 'ECCC Key', which is supplied to you by SWIM (Single Window Information Manager). In addition, you must have your facility information registered, and you must create a report (Information Related to Effluent and Water Quality Monitoring Studies) in MERS.

We will notify you by email once data entry has been completed, however you are responsible for final submission of the data, as we do not have permissions to release the report.

If you have any questions about the results, do not hesitate to contact me.

Sincerely,

AQUATOX TESTING & CONSULTING INC.

A handwritten signature in black ink, appearing to read "Martina Rendas", with a stylized flourish at the end.

Martina Rendas
Project Manager

MR/jl



AquaTox Testing & Consulting Inc.
B-11 Nicholas Beaver Road
Puslinch, ON N0B 2J0
Tel. (519) 763-4412
Fax. (519) 763-4419

TOXICITY TEST REPORT

Lemna minor

EPS 1/RM/37

Page 1 of 4

Work Order : 240444

Sample Number : 60909

SAMPLE IDENTIFICATION

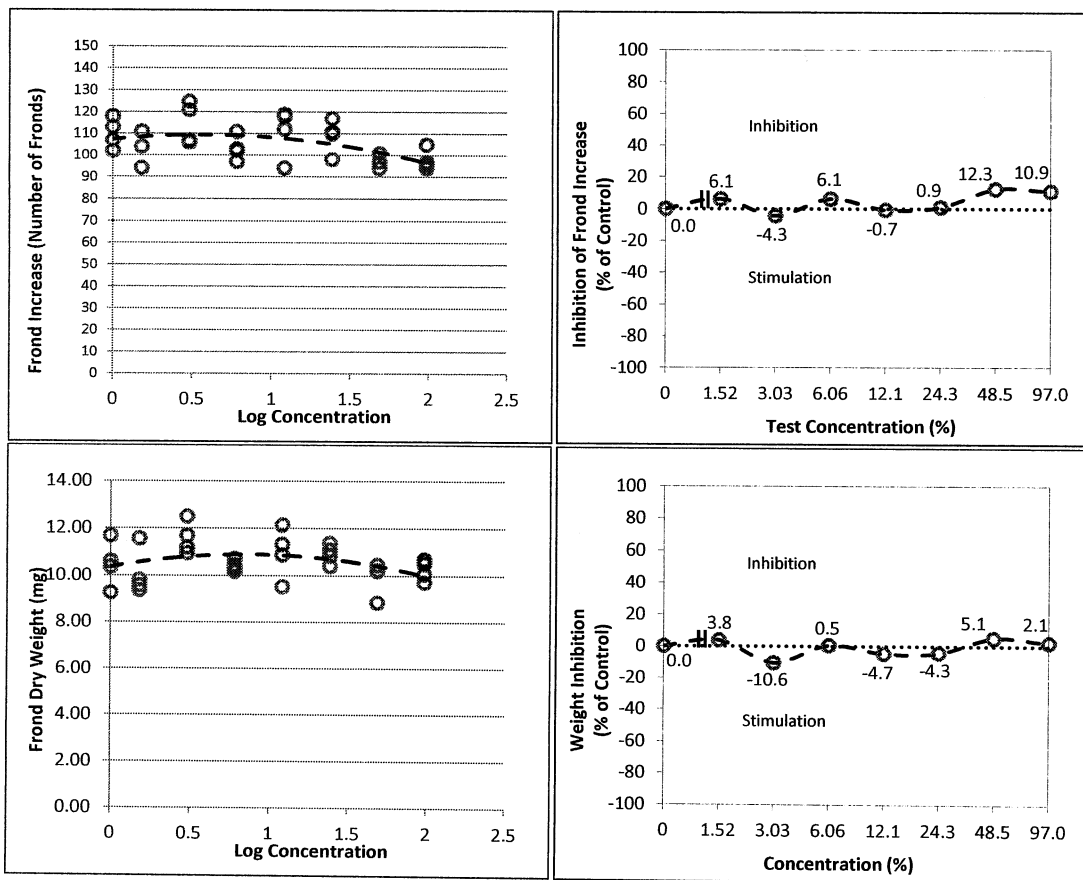
Company :	Agnico Eagle Mines Limited - Meliadine Project	Date Collected :	2019-10-01
Location :	Rankin Inlet NU	Time Collected :	6:00
Substance :	MEL-14d	Date Received :	2019-10-03
Sampling Method :	Grab	Time Received :	10:00
Sampled By :	R. Schwandt/D. Mornin	Temperature on Receipt :	8.0 °C
Sample Description :	Clear, colourless, odourless.	Date Tested :	2019-10-03

Test Method : Test for Measuring the Inhibition of Growth using the Freshwater Macrophyte, *Lemna minor*. Method Development and Application Section, Environmental Technology Centre, Environment Canada. Ottawa, Ontario. Report EPS 1/RM/37, 2nd ed. (January 2007).

7-DAY TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
IC25 (FronD Increase)	>97.0%	—	—
IC25 (Dry Weight)	>97.0%	—	—

The results reported relate only to the sample tested and as received.



COMMENTS

•All test validity criteria as specified in the test method cited above were satisfied.

Date : 2019-11-27
yyyy-mm-dd

Approved By :

Project Manager

Work Order : 240444
Sample Number : 60909

TEST ORGANISM

Test Organism :	<i>Lemna minor</i> L., Strain 7730	Age (on Test Day 0) :	9 days
Organism Batch :	Lm19-09	Inoculum (Test Day 0) :	2 plants (3 fronds per plant)
Culture Origin :	UTCC 492	Culture Medium :	Modified Hoaglands E+
Test Organism Source :	Axenic in-house culture	Health Criteria (in APHA) :	16.3-fold frond increase in 7 days
Organism Acclimation :	22:05 hours (in APHA medium)		

No unusual appearance or treatment of culture prior to testing. Test inoculated with healthy plants.

TEST CONDITIONS

Test Type :	Static (no sub-samples required)	Sample Pre-aeration :	20 min. at ≤ 100 bubbles/min.
Control/Dilution Medium :	Modified APHA	pH Adjustment :	None
Source of Water :	Morning Mist	Hardness Adjustment :	None
Medium Preparation Water :	Distilled Water	Replicates per Concentration :	4
Medium Preparation Chemicals :	Modified APHA ²	Test Volume per Replicate :	100 mL
Nutrient Spiking of Sample :	Modified APHA ²	Test Vessel :	200 mL glass jar
Initial pH (100% sample) :	7.6	Depth of Test Solution :	4.0 cm
Initial temperature (100% sample) :	25 °C	Photoperiod/Light Intensity :	Continuous, 4200 - 4780 lux
Sample Filtration :	1 μ m (Whatman GF/C)	Test Method Deviation(s) :	None

²stocks A, B, C (10 mL/L)

REFERENCE TOXICANT DATA

Date Tested :	2019-10-17	Statistical Method :	Non-Linear Regression ¹ (CETIS) ^a
Analyst(s) :	RK, MDH	Historical Mean IC25 :	2.25 g/L
Test Duration :	7 days	Warning Limits ($\pm$ 2SD) :	1.60 - 3.15 g/L
IC25 (Frond Production) :	2.46 g/L	Growth Medium :	Modified APHA
95% Confidence Limits :	2.06 - 2.85 g/L		

¹Box-Cox weighting (CETIS)^a was applied

The reference toxicity test was performed under the same experimental conditions as those used with the test sample.

TEST MONITORING

Initiation Time :	14:25	Termination Time :	14:25
Initiated By :	AS	Terminated By :	MDH

Test Day :	0	1	2	3	4	5	6	7
Date :	2019-10-03	2019-10-04	2019-10-05	2019-10-06	2019-10-07	2019-10-08	2019-10-09	2019-10-10
Temperature (°C) :	26.5	25.0	26.0	26.0	26.5	26.0	26.0	26.5
pH	Control	8.4	—	—	—	—	—	8.6
	1.52	8.3	—	—	—	—	—	8.6
	3.03	—	—	—	—	—	—	—
	6.06	—	—	—	—	—	—	—
	12.13	8.2	—	—	—	—	—	8.6
	24.25	—	—	—	—	—	—	—
	48.5	—	—	—	—	—	—	—
	97	7.9	—	—	—	—	—	8.6

"—" = not required

REFERENCES

^a CETIS™, © 2000-2013. V.1.8.7.17. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, LLC, McKinleyville, CA 95519 [Program on disk and printed User's Guide].

Work Order : 240444
Sample Number : 60909

Lemna minor
EPS 1/RM/37
Page 3 of 4

DAY 7 FROND COUNT DATA

Test Concentration %	Replicate	Frond Count	Frond Increase	Mean Frond Increase	Standard Deviation	Stimulation (%)	Frond/Root Appearance
Control	A	119	113	110.00	7.0	-	Fronds healthy, appearance normal in all replicates.
	B	113	107				
	C	108	102				
	D	124	118				
1.52	A	110	104	103.25	7.0	-6.1	Fronds healthy, appearance normal in all replicates.
	B	110	104				
	C	117	111				
	D	100	94				
3.03	A	127	121	114.75	9.7	4.3	Fronds healthy, appearance normal in all replicates.
	B	112	106				
	C	131	125				
	D	113	107				
6.06	A	117	111	103.25	5.8	-6.1	Fronds healthy, appearance normal in all replicates.
	B	103	97				
	C	109	103				
	D	108	102				
12.13	A	100	94	110.75	11.6	0.7	Fronds healthy, appearance normal in all replicates.
	B	124	118				
	C	118	112				
	D	125	119				
24.25	A	123	117	109.00	8.0	-0.9	Fronds healthy, appearance normal in all replicates.
	B	116	110				
	C	104	98				
	D	117	111				
48.5	A	103	97	96.50	3.3	-12.3	Fronds healthy, appearance normal in all replicates.
	B	107	101				
	C	100	94				
	D	100	94				
97.0	A	111	105	98.00	4.8	-10.9	Fronds healthy, appearance normal in all replicates.
	B	103	97				
	C	102	96				
	D	100	94				

NOTES: •No statistically significant stimulation ($\alpha=0.05$) was detected by ANOVA-Dunnett Multiple Comparison Test (CETIS)^a at any test level compared to the control.

•A 18.3-fold increase in frond number was observed in the control over the testing period.

•No outlying data points were detected according to Grubbs Test (CETIS)^a.

"-" = not available/not required

Test Data Reviewed By : AW
Date : 2019-11-15

Work Order : 240444

Sample Number : 60909

DAY 7 FROND WEIGHT DATA

Test Concentration %	Replicate	Dry Weight of Fronds (mg)	Treatment Mean Dry Weight (mg)	Standard Deviation	Stimulation (%)
Control	A	10.36	10.47	1.0	—
	B	10.60			
	C	9.25			
	D	11.67			
1.52	A	9.57	10.07	1.0	-3.8
	B	9.81			
	C	11.55			
	D	9.36			
3.03	A	11.67	11.58	0.7	10.6
	B	10.95			
	C	12.49			
	D	11.19			
6.06	A	10.17	10.42	0.2	-0.5
	B	10.33			
	C	10.45			
	D	10.71			
12.13	A	9.52	10.96	1.1	4.7
	B	12.13			
	C	10.87			
	D	11.32			
24.25	A	11.37	10.93	0.4	4.3
	B	11.09			
	C	10.41			
	D	10.83			
48.5	A	10.46	9.94	0.7	-5.1
	B	10.21			
	C	10.24			
	D	8.84			
97.0	A	10.51	10.25	0.4	-2.1
	B	10.69			
	C	10.06			
	D	9.72			

NOTES :

•No statistically significant stimulation ($\alpha=0.05$) was detected by ANOVA-Dunnett Multiple Comparison Test (CETIS)^a at any test level compared to the control.

•No outlying data points were detected according to Grubbs Test (CETIS)^a.

"—" = not available/not required

Test Data Reviewed By : AW

Date : 2019-11-15

CHAIN OF CUSTODY RECORD



Shipping Address: AquaTox Testing & Consulting Inc.
B-11 Nicholas Beaver Road,
Puslinch, Ontario, Canada
N0B2J0

Voice: (519) 763-4412 **Fax:** (519) 763-4419

P.O. Number:	644699
Field Sampler Name (print):	Randy Schwandt/ Daphne Mornin
Signature:	
Affiliation:	Agnico Eagle Mines Ltd. - Meliadine Division
Sample Storage (prior to shipping):	Shipped immediately after sampling
Custody Relinquished by:	
Date/Time Shipped:	2019-10-01

Client:	Agnico Eagle Mines Limited Meliadine Project Rankin Inlet, Nunavut, Canada X0C 0G0
Phone:	819-759-3555 ext 3996
Fax:	
Contact:	Dan Gorton or Sean Arruda

Sample Identification				Analyses Requested										Sample Method and Volume			
Date Collected (yyyy-mm-dd)	Time Collected (e.g. 14:30, 24 hr clock)	Sample Name	AquaTox Sample Number	Temp. on arrival	Rainbow Trout Single Concentration	Rainbow Trout LC50	Daphnia magna Single Concentration	Daphnia magna LC50	Fathead Minnow Survival & Growth	Ceriodaphnia dubia Survival & Reproduction	Lemna minor Growth	Pseudokirchnerella subcapitata Growth	RISS Data Entry	Other (please specify below)	Grab	Composite	# of Containers and Volume (eg. 2 x 1L, 3 x 10L, etc.)
2019-10-01	6:00	MEL-14d	60909	8.0							✓				✓		2L

For Lab Use Only	
Received By:	21/10/2019
Date:	2019-10-03
Time:	10:00
Storage Location:	
Storage Temp. (°C):	

Please list any special requests or instructions: TOXICOLOGY analysis required	
ADD ON CERTIFICATE GPS LOCATION 63°02'45.5" 92°13'06.3"	



Your P.O. #: OL-762849
 Site#: 62°48'01.99" 92°06'00.05"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/01
 Report #: R5822101
 Version: 3 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9K5086

Received: 2019/07/25, 09:30

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/07/26	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/07/26	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	1	N/A	2019/07/26	CAM SOP-00463	SM 4500-Cl E m
Conductivity (1)	1	N/A	2019/07/26	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/07/25	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/07/26	2019/07/26	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/07/26	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/07/26	2019/07/26	CAM SOP-00427	SM 23 4500 O G m
Dissolved Mercury (low level) (1)	1	2019/07/26	2019/07/26	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/07/26	2019/07/26	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 6)	1	N/A	2019/07/30	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/07/29	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/07/29	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/07/28	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/07/25	2019/07/30	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/07/28	2019/07/29	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/07/30	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/07/27	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 7)	1	N/A	2019/07/26	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/07/26	2019/07/26	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/07/26	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 8)	1	N/A	2019/07/30	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/07/26	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/07/26	2019/07/27	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/07/26	2019/07/26	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 9)	1	N/A	2019/07/26	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	1	2019/07/26	2019/07/26	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/07/26	2019/07/26	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/07/26	CAM SOP-00417	SM 23 2130 B m



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/01
Report #: R5822101
Version: 3 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9K5086

Received: 2019/07/25, 09:30

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(6) "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).

(7) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(8) Radium-226 results have not been corrected for blanks.

(9) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/01
Report #: R5822101
Version: 3 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9K5086
Received: 2019/07/25, 09:30

Encryption Key

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

BV Labs 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

BV Labs Job #: B9K5086
Report Date: 2019/08/01

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KIY034		
Sampling Date		2019/07/22 06:30		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	4790	0.50	6254787
Metals				
Dissolved Aluminum (Al)	ug/L	<150	150	6254789
Dissolved Antimony (Sb)	ug/L	<25	25	6254789
Dissolved Arsenic (As)	ug/L	5.6	5.0	6254789
Dissolved Barium (Ba)	ug/L	143	50	6254789
Dissolved Beryllium (Be)	ug/L	<5.0	5.0	6254789
Dissolved Bismuth (Bi)	ug/L	<50	50	6254789
Dissolved Boron (B)	ug/L	<2500	2500	6254789
Dissolved Cadmium (Cd)	ug/L	<0.50	0.50	6254789
Dissolved Chromium (Cr)	ug/L	<50	50	6254789
Dissolved Cobalt (Co)	ug/L	<10	10	6254789
Dissolved Copper (Cu)	ug/L	<10	10	6254789
Dissolved Iron (Fe)	ug/L	<250	250	6254789
Dissolved Lead (Pb)	ug/L	<10	10	6254789
Dissolved Lithium (Li)	ug/L	260	100	6254789
Dissolved Manganese (Mn)	ug/L	125	50	6254789
Dissolved Molybdenum (Mo)	ug/L	<50	50	6254789
Dissolved Nickel (Ni)	ug/L	<50	50	6254789
Dissolved Selenium (Se)	ug/L	<5.0	5.0	6254789
Dissolved Silicon (Si)	ug/L	<5000	5000	6254789
Dissolved Silver (Ag)	ug/L	<1.0	1.0	6254789
Dissolved Strontium (Sr)	ug/L	19100	50	6254789
Dissolved Thallium (Tl)	ug/L	<0.50	0.50	6254789
Dissolved Tin (Sn)	ug/L	<250	250	6254789
Dissolved Titanium (Ti)	ug/L	<250	250	6254789
Dissolved Uranium (U)	ug/L	<5.0	5.0	6254789
Dissolved Vanadium (V)	ug/L	<250	250	6254789
Dissolved Zinc (Zn)	ug/L	<250	250	6254789
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	6254789
Dissolved Calcium (Ca)	mg/L	798	2.5	6254788
Dissolved Magnesium (Mg)	mg/L	679	2.5	6254788
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9K5086
Report Date: 2019/08/01

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KIY034		
Sampling Date		2019/07/22 06:30		
	UNITS	MEL-26	RDL	QC Batch
Dissolved Potassium (K)	mg/L	210	2.5	6254788
Dissolved Sodium (Na)	mg/L	5840	2.5	6254788
Dissolved Sulphur (S)	mg/L	412	150	6254788
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9K5086
Report Date: 2019/08/01

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KIY034		
Sampling Date		2019/07/22 06:30		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	130	30	6254786
Total Antimony (Sb)	ug/L	<5.0	5.0	6254786
Total Arsenic (As)	ug/L	6.3	1.0	6254786
Total Barium (Ba)	ug/L	143	10	6254786
Total Beryllium (Be)	ug/L	<1.0	1.0	6254786
Total Bismuth (Bi)	ug/L	<10	10	6254786
Total Boron (B)	ug/L	771	500	6254786
Total Cadmium (Cd)	ug/L	<0.10	0.10	6254786
Total Chromium (Cr)	ug/L	<10	10	6254786
Total Cobalt (Co)	ug/L	2.2	2.0	6254786
Total Copper (Cu)	ug/L	<5.0	5.0	6254786
Total Iron (Fe)	ug/L	121	100	6254786
Total Lead (Pb)	ug/L	<2.0	2.0	6254786
Total Lithium (Li)	ug/L	255	20	6254786
Total Manganese (Mn)	ug/L	126	10	6254786
Total Molybdenum (Mo)	ug/L	20	10	6254786
Total Nickel (Ni)	ug/L	<10	10	6254786
Total Selenium (Se)	ug/L	<1.0	1.0	6254786
Total Silicon (Si)	ug/L	1370	1000	6254786
Total Silver (Ag)	ug/L	<0.20	0.20	6254786
Total Strontium (Sr)	ug/L	21400	10	6254786
Total Thallium (Tl)	ug/L	<0.10	0.10	6254786
Total Tin (Sn)	ug/L	<50	50	6254786
Total Titanium (Ti)	ug/L	<50	50	6254786
Total Uranium (U)	ug/L	1.2	1.0	6254786
Total Vanadium (V)	ug/L	<50	50	6254786
Total Zinc (Zn)	ug/L	<50	50	6254786
Total Zirconium (Zr)	ug/L	<1.0	1.0	6254786
Total Calcium (Ca)	ug/L	836000	500	6253516
Total Magnesium (Mg)	ug/L	693000	500	6253516
Total Potassium (K)	ug/L	215000	500	6253516
Total Sodium (Na)	ug/L	6230000	500	6253516
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9K5086
Report Date: 2019/08/01

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KIY034		
Sampling Date		2019/07/22 06:30		
	UNITS	MEL-26	RDL	QC Batch
Total Sulphur (S)	ug/L	427000	30000	6253516
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	4940000	500	6250442
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				

BUREAU
VERITASBV Labs Job #: B9K5086
Report Date: 2019/08/01Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

RESULTS OF ANALYSES OF WATER

BV Labs ID		KIY034			KIY034		
Sampling Date		2019/07/22 06:30			2019/07/22 06:30		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	110	1.0	6247170			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	2.2	1.0	6247170			
Inorganics							
Total Ammonia-N	mg/L	7.4	0.050	6248307			
Conductivity	umho/cm	36000	1.0	6249061	36000	1.0	6249061
Free Cyanide (CN)	ug/L	<1.0 (1)	1.0	6257633			
Total Dissolved Solids	mg/L	24400	20	6250059	24300	20	6250059
Total Kjeldahl Nitrogen (TKN)	mg/L	15	2.0	6248932			
Dissolved Organic Carbon	mg/L	4.5	0.50	6248878			
Total Organic Carbon (TOC)	mg/L	5.2	0.50	6248930	5.2	0.50	6248930
Orthophosphate (P)	mg/L	0.014	0.010	6248886			
Dissolved Oxygen	mg/L	9.54		6249738	9.55		6249738
pH	pH	8.35		6249059	8.38		6249059
Total Phosphorus	mg/L	0.074 (2)	0.040	6248733			
Reactive Silica (SiO ₂)	mg/L	2.7 (3)	0.50	6256922			
Total Suspended Solids	mg/L	17	1	6248818			
Dissolved Sulphate (SO ₄)	mg/L	1200	5.0	6248887			
Total Cyanide (CN)	mg/L	0.12	0.025	6246901			
Turbidity	NTU	0.2	0.1	6248199			
WAD Cyanide (Free)	mg/L	0.0011	0.0010	6247313			
Alkalinity (Total as CaCO ₃)	mg/L	110	1.0	6249054	110	1.0	6249054
Dissolved Chloride (Cl ⁻)	mg/L	14000	120	6248884			
Nitrite (N)	mg/L	0.27	0.10	6249062	0.27	0.10	6249062
Nitrate (N)	mg/L	57.9	1.0	6249062	54.1	1.0	6249062
Nitrate + Nitrite (N)	mg/L	58.2	1.0	6249062	54.4	1.0	6249062
RADIONUCLIDE							
Radium-226	Bq/L	0.20	0.0050	6247909			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly. (3) Detection limits raised due to matrix interference.							



BUREAU
VERITAS

BV Labs Job #: B9K5086
Report Date: 2019/08/01

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KIY034	KIY034		
Sampling Date		2019/07/22 06:30	2019/07/22 06:30		
	UNITS	MEL-26	MEL-26 Lab-Dup	RDL	QC Batch
Metals					
Mercury (Hg)	mg/L	<0.00001	<0.00001	0.00001	6248953
Dissolved Mercury (Hg)	mg/L	<0.00001	<0.00001	0.00001	6248962
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
Lab-Dup = Laboratory Initiated Duplicate					



BV Labs Job #: B9K5086
Report Date: 2019/08/01

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TEST SUMMARY

BV Labs ID: KIY034
Sample ID: MEL-26
Matrix: Water

Collected: 2019/07/22
Shipped:
Received: 2019/07/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6249054	N/A	2019/07/26	Neil Dassanayake
Carbonate, Bicarbonate and Hydroxide	CALC	6247170	N/A	2019/07/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	6248884	N/A	2019/07/26	Deonarine Ramnarine
Conductivity	AT	6249061	N/A	2019/07/26	Neil Dassanayake
Free (WAD) Cyanide	SKAL/CN	6247313	N/A	2019/07/25	Gnana Thomas
Total Cyanide	SKAL/CN	6246901	2019/07/26	2019/07/26	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6248878	N/A	2019/07/26	Mandeep Kaur
Dissolved Oxygen	DO	6249738	2019/07/26	2019/07/26	Nusrat Naz
Dissolved Mercury (low level)	CV/AA	6248962	2019/07/26	2019/07/26	Medhat Nasr
Mercury (low level)	CV/AA	6248953	2019/07/26	2019/07/26	Medhat Nasr
Cyanide (Free)	SPEC	6257633	2019/07/30	2019/07/30	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6250442	N/A	2019/07/30	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6254787	N/A	2019/07/29	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6254788	N/A	2019/07/29	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6254789	N/A	2019/07/28	Valentina Balada
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6253516	2019/07/30	2019/07/30	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6254786	2019/07/28	2019/07/29	Andrew An
Silica (Reactive)	KONE	6256922	N/A	2019/07/30	Zafar Iqbal
Total Ammonia-N	LACH/NH ₄	6248307	N/A	2019/07/27	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6249062	N/A	2019/07/26	Bernard Antwi
pH	AT	6249059	2019/07/26	2019/07/26	Neil Dassanayake
Orthophosphate	KONE	6248886	N/A	2019/07/26	Alina Dobreanu
Radium-226 Low Level	AS	6247909	N/A	2019/07/30	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6248887	N/A	2019/07/26	Alina Dobreanu
Total Dissolved Solids	BAL	6250059	2019/07/26	2019/07/27	Nilam Borole
Total Kjeldahl Nitrogen in Water	SKAL	6248932	2019/07/26	2019/07/26	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6248930	N/A	2019/07/26	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6248733	2019/07/26	2019/07/26	Nimarta Singh
Low Level Total Suspended Solids	BAL	6248818	2019/07/26	2019/07/26	Massarat Jan
Turbidity	AT	6248199	N/A	2019/07/26	Kazzandra Adeva

BV Labs ID: KIY034 Dup
Sample ID: MEL-26
Matrix: Water

Collected: 2019/07/22
Shipped:
Received: 2019/07/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6249054	N/A	2019/07/26	Neil Dassanayake
Conductivity	AT	6249061	N/A	2019/07/26	Neil Dassanayake
Dissolved Oxygen	DO	6249738	2019/07/26	2019/07/26	Nusrat Naz
Dissolved Mercury (low level)	CV/AA	6248962	2019/07/26	2019/07/26	Medhat Nasr
Mercury (low level)	CV/AA	6248953	2019/07/26	2019/07/26	Medhat Nasr
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6249062	N/A	2019/07/26	Bernard Antwi
pH	AT	6249059	2019/07/26	2019/07/26	Neil Dassanayake
Total Dissolved Solids	BAL	6250059	2019/07/26	2019/07/27	Nilam Borole
Total Organic Carbon (TOC)	TOCV/NDIR	6248930	N/A	2019/07/26	Mandeep Kaur



GENERAL COMMENTS

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

Package 1	19.7°C

Sample KIY034 [MEL-26] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Matrix Spike Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

Sample KIY034 [MEL-26] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Sample KIY034 [MEL-26] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B9K5086

Report Date: 2019/08/01

QUALITY ASSURANCE REPORT

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

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
6246901	Total Cyanide (CN)	2019/07/25	86	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
6247313	WAD Cyanide (Free)	2019/07/25	105	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20		
6247909	Radium-226	2019/07/30			98	85 - 115	<0.0050	Bq/L	NC	N/A		
6248199	Turbidity	2019/07/26			93	85 - 115	<0.1	NTU	18	20		
6248307	Total Ammonia-N	2019/07/27	99	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
6248733	Total Phosphorus	2019/07/26	95	80 - 120	94	80 - 120	<0.020	mg/L	1.6	20	95	80 - 120
6248818	Total Suspended Solids	2019/07/26					<1	mg/L	5.1	25	100	85 - 115
6248878	Dissolved Organic Carbon	2019/07/26	91	80 - 120	98	80 - 120	<0.50	mg/L	1.6	20		
6248884	Dissolved Chloride (Cl-)	2019/07/26	111	80 - 120	103	80 - 120	<1.0	mg/L	0.85	20		
6248886	Orthophosphate (P)	2019/07/26	100	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
6248887	Dissolved Sulphate (SO4)	2019/07/26	120	75 - 125	104	80 - 120	<1.0	mg/L	NC	20		
6248930	Total Organic Carbon (TOC)	2019/07/26	91	80 - 120	97	80 - 120	<0.50	mg/L	0.56	20		
6248932	Total Kjeldahl Nitrogen (TKN)	2019/07/26	90	80 - 120	98	80 - 120	<0.10	mg/L	NC (1)	20	100	80 - 120
6248953	Mercury (Hg)	2019/07/26	102	75 - 125	101	80 - 120	<0.00001	mg/L	NC	20		
6248962	Dissolved Mercury (Hg)	2019/07/26	94	75 - 125	101	80 - 120	<0.00001	mg/L	NC	20		
6249054	Alkalinity (Total as CaCO3)	2019/07/26			96	85 - 115	<1.0	mg/L	0.051	20		
6249059	pH	2019/07/26			102	98 - 103			0.39	N/A		
6249061	Conductivity	2019/07/26			102	85 - 115	<1.0	umho/cm	0.29	25		
6249062	Nitrate (N)	2019/07/26	NC	80 - 120	100	80 - 120	<0.10	mg/L	6.7	20		
6249062	Nitrite (N)	2019/07/26	119	80 - 120	102	80 - 120	<0.010	mg/L	0.30	20		
6250059	Total Dissolved Solids	2019/07/27					<10	mg/L	0.49	25	100	90 - 110
6254786	Total Aluminum (Al)	2019/07/29	104	80 - 120	102	80 - 120	<3.0	ug/L				
6254786	Total Antimony (Sb)	2019/07/29	102	80 - 120	99	80 - 120	<0.50	ug/L				
6254786	Total Arsenic (As)	2019/07/29	104	80 - 120	103	80 - 120	<0.10	ug/L				
6254786	Total Barium (Ba)	2019/07/29	104	80 - 120	101	80 - 120	<1.0	ug/L				
6254786	Total Beryllium (Be)	2019/07/29	102	80 - 120	102	80 - 120	<0.10	ug/L				
6254786	Total Bismuth (Bi)	2019/07/29	104	80 - 120	104	80 - 120	<1.0	ug/L				
6254786	Total Boron (B)	2019/07/29	103	80 - 120	104	80 - 120	<50	ug/L				
6254786	Total Cadmium (Cd)	2019/07/29	104	80 - 120	102	80 - 120	<0.010	ug/L				
6254786	Total Chromium (Cr)	2019/07/29	103	80 - 120	101	80 - 120	<1.0	ug/L				
6254786	Total Cobalt (Co)	2019/07/29	100	80 - 120	100	80 - 120	<0.20	ug/L				



**BUREAU
VERITAS**

BV Labs Job #: B9K5086

Report Date: 2019/08/01

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

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
6254786	Total Copper (Cu)	2019/07/29	101	80 - 120	99	80 - 120	<0.50	ug/L				
6254786	Total Iron (Fe)	2019/07/29	106	80 - 120	106	80 - 120	<10	ug/L				
6254786	Total Lead (Pb)	2019/07/29	107	80 - 120	106	80 - 120	<0.20	ug/L				
6254786	Total Lithium (Li)	2019/07/29	107	80 - 120	104	80 - 120	<2.0	ug/L				
6254786	Total Manganese (Mn)	2019/07/29	105	80 - 120	104	80 - 120	<1.0	ug/L				
6254786	Total Molybdenum (Mo)	2019/07/29	105	80 - 120	105	80 - 120	<1.0	ug/L				
6254786	Total Nickel (Ni)	2019/07/29	103	80 - 120	101	80 - 120	<1.0	ug/L				
6254786	Total Selenium (Se)	2019/07/29	103	80 - 120	106	80 - 120	<0.10	ug/L				
6254786	Total Silicon (Si)	2019/07/29	104	80 - 120	106	80 - 120	<100	ug/L				
6254786	Total Silver (Ag)	2019/07/29	106	80 - 120	104	80 - 120	<0.020	ug/L				
6254786	Total Strontium (Sr)	2019/07/29	103	80 - 120	101	80 - 120	<1.0	ug/L				
6254786	Total Thallium (Tl)	2019/07/29	104	80 - 120	103	80 - 120	<0.010	ug/L				
6254786	Total Tin (Sn)	2019/07/29	104	80 - 120	102	80 - 120	<5.0	ug/L				
6254786	Total Titanium (Ti)	2019/07/29	104	80 - 120	102	80 - 120	<5.0	ug/L				
6254786	Total Uranium (U)	2019/07/29	106	80 - 120	104	80 - 120	<0.10	ug/L				
6254786	Total Vanadium (V)	2019/07/29	103	80 - 120	101	80 - 120	<5.0	ug/L				
6254786	Total Zinc (Zn)	2019/07/29	102	80 - 120	103	80 - 120	<5.0	ug/L				
6254786	Total Zirconium (Zr)	2019/07/29	104	80 - 120	101	80 - 120	<0.10	ug/L				
6254789	Dissolved Aluminum (Al)	2019/07/28	88	80 - 120	99	80 - 120	<3.0	ug/L				
6254789	Dissolved Antimony (Sb)	2019/07/28	77 (2)	80 - 120	98	80 - 120	<0.50	ug/L				
6254789	Dissolved Arsenic (As)	2019/07/28	92	80 - 120	99	80 - 120	<0.10	ug/L				
6254789	Dissolved Barium (Ba)	2019/07/28	NC	80 - 120	98	80 - 120	<1.0	ug/L				
6254789	Dissolved Beryllium (Be)	2019/07/28	89	80 - 120	98	80 - 120	<0.10	ug/L				
6254789	Dissolved Bismuth (Bi)	2019/07/28	84	80 - 120	101	80 - 120	<1.0	ug/L				
6254789	Dissolved Boron (B)	2019/07/28	88	80 - 120	95	80 - 120	<50	ug/L				
6254789	Dissolved Cadmium (Cd)	2019/07/28	88	80 - 120	100	80 - 120	<0.010	ug/L				
6254789	Dissolved Chromium (Cr)	2019/07/28	85	80 - 120	98	80 - 120	<1.0	ug/L				
6254789	Dissolved Cobalt (Co)	2019/07/28	83	80 - 120	100	80 - 120	<0.20	ug/L				
6254789	Dissolved Copper (Cu)	2019/07/28	79 (2)	80 - 120	96	80 - 120	<0.20	ug/L				
6254789	Dissolved Iron (Fe)	2019/07/28	NC	80 - 120	103	80 - 120	<5.0	ug/L				
6254789	Dissolved Lead (Pb)	2019/07/28	89	80 - 120	102	80 - 120	<0.20	ug/L				
6254789	Dissolved Lithium (Li)	2019/07/28	89	80 - 120	98	80 - 120	<2.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: B9K5086

Report Date: 2019/08/01

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

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
6254789	Dissolved Manganese (Mn)	2019/07/28	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6254789	Dissolved Molybdenum (Mo)	2019/07/28	95	80 - 120	100	80 - 120	<1.0	ug/L				
6254789	Dissolved Nickel (Ni)	2019/07/28	80	80 - 120	97	80 - 120	<1.0	ug/L				
6254789	Dissolved Selenium (Se)	2019/07/28	94	80 - 120	98	80 - 120	<0.10	ug/L				
6254789	Dissolved Silicon (Si)	2019/07/28	NC	80 - 120	102	80 - 120	<100	ug/L				
6254789	Dissolved Silver (Ag)	2019/07/28	76 (2)	80 - 120	100	80 - 120	<0.020	ug/L				
6254789	Dissolved Strontium (Sr)	2019/07/28	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6254789	Dissolved Thallium (Tl)	2019/07/28	88	80 - 120	101	80 - 120	<0.010	ug/L				
6254789	Dissolved Tin (Sn)	2019/07/28	90	80 - 120	101	80 - 120	<5.0	ug/L				
6254789	Dissolved Titanium (Ti)	2019/07/28	81	80 - 120	100	80 - 120	<5.0	ug/L				
6254789	Dissolved Uranium (U)	2019/07/28	91	80 - 120	101	80 - 120	<0.10	ug/L				
6254789	Dissolved Vanadium (V)	2019/07/28	89	80 - 120	100	80 - 120	<5.0	ug/L				
6254789	Dissolved Zinc (Zn)	2019/07/28	22 (2)	80 - 120	101	80 - 120	<5.0	ug/L				
6254789	Dissolved Zirconium (Zr)	2019/07/28	94	80 - 120	100	80 - 120	<0.10	ug/L				
6256922	Reactive Silica (SiO ₂)	2019/07/30	107	80 - 120	108	80 - 120	<0.050	mg/L	0.24	20		
6257633	Free Cyanide (CN)	2019/07/31	84	80 - 120	99	80 - 120	<1.0	ug/L	2.5	20		

N/A = Not Applicable

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.

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 <= 2x RDL).

(1) Due to a high concentration of NO_x, the sample required dilution. The detection limit was adjusted accordingly.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9K5086
Report Date: 2019/08/01

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Harry (Peng) Liang, Senior Analyst

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

BV Labs 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

BV Labs Job #: B9K5086

Report Date: 2019/08/01

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your Project #: MB9K5086
Site Location: MELIADINE
Your C.O.C. #: 1 of 1

Attention: Alisha Williamson

Agnico-Eagle
Meliadine
Rankin Inlet, NU
Canada X0C 0G0

Report Date: 2019/07/29
Report #: R2759650
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B961336

Received: 2019/07/27, 12:30

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Chloride/Sulphate by Auto Colourimetry	1	N/A	2019/07/28	AB SOP-00020 / AB SOP-00018	SM23-4500-Cl/SO4-E m
Conductivity @25C	1	N/A	2019/07/29	AB SOP-00005	SM 23 2510 B m
Elements by ICP-Dissolved-Lab Filtered (1)	1	N/A	2019/07/28	AB SOP-00042	EPA 6010d R5 m
pH @25°C (2)	1	N/A	2019/07/29	AB SOP-00005	SM 23 4500-H+B m
Total Dissolved Solids (Filt. Residue)	1	2019/07/28	2019/07/28	AB SOP-00065	SM 23 2540 C m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(2) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.



Your Project #: MB9K5086
Site Location: MELIADINE
Your C.O.C. #: 1 of 1

Attention: Alisha Williamson

Agnico-Eagle
Meliadine
Rankin Inlet, NU
Canada X0C 0G0

Report Date: 2019/07/29
Report #: R2759650
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B961336
Received: 2019/07/27, 12:30

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Solutions, Western Canada Customer Experience Team
Email: customersolutionswest@bvlabs.com
Phone# (403) 291-3077

=====

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BV Labs 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.



SALINITY - WATER - FIILTERED (WATER)

BV Labs ID		WE4910			WE4910		
Sampling Date							
COC Number		1 of 1			1 of 1		
	UNITS	MEL-26(KIY034)	RDL	QC Batch	MEL-26(KIY034) Lab-Dup	RDL	QC Batch
Misc. Inorganics							
Conductivity	uS/cm	36000	2.0	9525647	36000	2.0	9525647
pH	pH	8.44	N/A	9525646	8.48	N/A	9525646
Total Dissolved Solids	mg/L	>20000 (1)	10	9525406			
Anions							
Dissolved Chloride (Cl)	mg/L	12000 (2)	100	9525418			
Dissolved Sulphate (SO4)	mg/L	1200 (2)	10	9525418			
Lab Filtered Elements							
Dissolved Calcium (Ca)	mg/L	810 (2)	6.0	9525382			
Dissolved Magnesium (Mg)	mg/L	730 (2)	4.0	9525382			
Dissolved Potassium (K)	mg/L	240	0.30	9525382			
Dissolved Sodium (Na)	mg/L	6500 (2)	10	9525382			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Sample exceeds calibration range. (2) Detection limits raised due to dilution to bring analyte within the calibrated range.							



BUREAU
VERITAS

BV Labs Job #: B961336
Report Date: 2019/07/29

Agnico-Eagle
Client Project #: MB9K5086
Site Location: MELIADINE

TEST SUMMARY

BV Labs ID: WE4910
Sample ID: MEL-26(KIY034)
Matrix: Water

Collected:
Shipped:
Received: 2019/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride/Sulphate by Auto Colourimetry	KONE	9525418	N/A	2019/07/28	Serena Tian
Conductivity @25C	COND	9525647	N/A	2019/07/29	Ilonka Kovac
Elements by ICP-Dissolved-Lab Filtered	ICPA	9525382	N/A	2019/07/28	Harry (Peng) Liang
pH @25°C	AT/ALK	9525646	N/A	2019/07/29	Ilonka Kovac
Total Dissolved Solids (Filt. Residue)	BAL	9525406	2019/07/28	2019/07/28	Haydee Estilong

BV Labs ID: WE4910 Dup
Sample ID: MEL-26(KIY034)
Matrix: Water

Collected:
Shipped:
Received: 2019/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity @25C	COND	9525647	N/A	2019/07/29	Ilonka Kovac
pH @25°C	AT/ALK	9525646	N/A	2019/07/29	Ilonka Kovac



GENERAL COMMENTS

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

Package 1	4.0°C

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B961336

Report Date: 2019/07/29

QUALITY ASSURANCE REPORT

Agnico-Eagle

Client Project #: MB9K5086

Site Location: MELIADINE

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9525382	Dissolved Calcium (Ca)	2019/07/29	93	80 - 120	98	80 - 120	<0.30	mg/L	0.82	20
9525382	Dissolved Magnesium (Mg)	2019/07/29	96	80 - 120	101	80 - 120	<0.20	mg/L	1.6	20
9525382	Dissolved Potassium (K)	2019/07/29	98	80 - 120	99	80 - 120	<0.30	mg/L	0.65	20
9525382	Dissolved Sodium (Na)	2019/07/29	99	80 - 120	103	80 - 120	<0.50	mg/L	2.4	20
9525406	Total Dissolved Solids	2019/07/28	94	80 - 120	96	80 - 120	<10	mg/L	1.3	20
9525418	Dissolved Chloride (Cl)	2019/07/28	110	80 - 120	105	80 - 120	<1.0	mg/L	4.2	20
9525418	Dissolved Sulphate (SO ₄)	2019/07/28	98	80 - 120	98	80 - 120	<1.0	mg/L	4.9	20
9525646	pH	2019/07/29			100	97 - 103			0.41	N/A
9525647	Conductivity	2019/07/29			101	90 - 110	<2.0	uS/cm	0	10

N/A = Not Applicable

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.

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.



BUREAU
VERITAS

BV Labs Job #: B961336
Report Date: 2019/07/29

Agnico-Eagle
Client Project #: MB9K5086
Site Location: MELIADINE

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Harry (Peng) Liang, Senior Analyst

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Your P.O. #: B9L6967
Your Project #: MB9L6967
Site Location: MELIADINE
Your C.O.C. #: B9L6967-M060-01-01

Attention: Alisha Williamson

Agnico-Eagle
Meliadine
Rankin Inlet, NU
Canada X0C 0G0

Report Date: 2019/08/12
Report #: R2765613
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B965468

Received: 2019/08/09, 09:50

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Chloride/Sulphate by Auto Colourimetry	1	N/A	2019/08/11	AB SOP-00020 / AB SOP-00018	SM23-4500-Cl/SO4-E m
Conductivity @25C	1	N/A	2019/08/12	AB SOP-00005	SM 23 2510 B m
Elements by ICP-Dissolved-Lab Filtered (1)	1	N/A	2019/08/12	AB SOP-00042	EPA 6010d R5 m
pH @25°C (2)	1	N/A	2019/08/12	AB SOP-00005	SM 23 4500-H+B m
Sodium Adsorption Ratio	1	N/A	2019/08/12		Auto Calc
Total Dissolved Solids (Calc. from EC)	1	N/A	2019/08/12		Auto Calc

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(2) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.



Attention: Alisha Williamson

Agnico-Eagle
Meliadine
Rankin Inlet, NU
Canada X0C 0G0

Your P.O. #: B9L6967
Your Project #: MB9L6967
Site Location: MELIADINE
Your C.O.C. #: B9L6967-M060-01-01

Report Date: 2019/08/12
Report #: R2765613
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B965468
Received: 2019/08/09, 09:50

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Solutions, Western Canada Customer Experience Team
Email: customersolutionswest@bvlabs.com
Phone# (403) 291-3077

=====

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BUREAU
VERITAS

BV Labs Job #: B965468
Report Date: 2019/08/12

Agnico-Eagle
Client Project #: MB9L6967
Site Location: MELIADINE
Your P.O. #: B9L6967
Sampler Initials: RS

SALINITY WATER (WATER)

BV Labs ID		WG4586		
Sampling Date		2019/08/03 05:30		
COC Number		B9L6967-M060-01-01		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	35	0.10	9541054
Total dissolved solids (calc., EC)	mg/L	33000	10	9541058
Misc. Inorganics				
Conductivity	uS/cm	34000	2.0	9543388
pH	pH	7.73	N/A	9543386
Anions				
Dissolved Chloride (Cl)	mg/L	11000 (1)	100	9543256
Dissolved Sulphate (SO4)	mg/L	1100 (1)	10	9543256
Lab Filtered Elements				
Dissolved Calcium (Ca)	mg/L	780	6.0	9543263
Dissolved Magnesium (Mg)	mg/L	730	4.0	9543263
Dissolved Potassium (K)	mg/L	190	6.0	9543263
Dissolved Sodium (Na)	mg/L	5700	10	9543263
RDL = Reportable Detection Limit N/A = Not Applicable (1) Detection limits raised due to dilution to bring analyte within the calibrated range.				



BUREAU
VERITAS

BV Labs Job #: B965468
Report Date: 2019/08/12

Agnico-Eagle
Client Project #: MB9L6967
Site Location: MELIADINE
Your P.O. #: B9L6967
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: WG4586
Sample ID: MEL-26
Matrix: Water

Collected: 2019/08/03
Shipped:
Received: 2019/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride/Sulphate by Auto Colourimetry	KONE	9543256	N/A	2019/08/11	Serena Tian
Conductivity @25C	COND	9543388	N/A	2019/08/12	Ilonka Kovac
Elements by ICP-Dissolved-Lab Filtered	ICPA	9543263	N/A	2019/08/12	Harry (Peng) Liang
pH @25°C	AT/ALK	9543386	N/A	2019/08/12	Ilonka Kovac
Sodium Adsorption Ratio	CALC	9541054	N/A	2019/08/12	Automated Statchk
Total Dissolved Solids (Calc. from EC)	CALC	9541058	N/A	2019/08/12	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: B965468
Report Date: 2019/08/12

Agnico-Eagle
Client Project #: MB9L6967
Site Location: MELIADINE
Your P.O. #: B9L6967
Sampler Initials: RS

GENERAL COMMENTS

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

Package 1	2.3°C

SALINITY WATER (WATER) Comments

Sample WG4586 [MEL-26] Elements by ICP-Dissolved-Lab Filtered: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B965468

Report Date: 2019/08/12

QUALITY ASSURANCE REPORT

Agnico-Eagle

Client Project #: MB9L6967

Site Location: MELIADINE

Your P.O. #: B9L6967

Sampler Initials: RS

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9543256	Dissolved Chloride (Cl)	2019/08/11	105	80 - 120	99	80 - 120	<1.0	mg/L	5.0	20
9543256	Dissolved Sulphate (SO ₄)	2019/08/11	NC	80 - 120	102	80 - 120	<1.0	mg/L	8.2	20
9543263	Dissolved Calcium (Ca)	2019/08/11	NC	80 - 120	100	80 - 120	<0.30	mg/L	0.48	20
9543263	Dissolved Magnesium (Mg)	2019/08/11	91	80 - 120	100	80 - 120	<0.20	mg/L	0.15	20
9543263	Dissolved Potassium (K)	2019/08/11	91	80 - 120	93	80 - 120	<0.30	mg/L	0.55	20
9543263	Dissolved Sodium (Na)	2019/08/11	89	80 - 120	100	80 - 120	<0.50	mg/L	0.98	20
9543386	pH	2019/08/12			100	97 - 103			0.38	N/A
9543388	Conductivity	2019/08/12			100	90 - 110	<2.0	uS/cm	0	10

N/A = Not Applicable

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.

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.

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)



BUREAU
VERITAS

BV Labs Job #: B965468
Report Date: 2019/08/12

Agnico-Eagle
Client Project #: MB9L6967
Site Location: MELIADINE
Your P.O. #: B9L6967
Sampler Initials: RS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Harry (Peng) Liang, Senior Analyst

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Your P.O. #: OL-762849
 Site#: 62°48'01.99" 92°06'00.05"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/16
 Report #: R5842179
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9L6967

Received: 2019/08/07, 11:30

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/08/08	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/08/08	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	1	N/A	2019/08/08	CAM SOP-00463	SM 4500-Cl E m
Conductivity (1)	1	N/A	2019/08/08	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/08/08	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/08/08	2019/08/08	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/08/08	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/08/08	2019/08/08	CAM SOP-00427	SM 23 4500 O G m
Dissolved Mercury (low level) (1)	1	2019/08/08	2019/08/08	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/08/08	2019/08/08	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 6)	1	N/A	2019/08/12	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/08/12	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/08/12	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/08/10	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/08/07	2019/08/12	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/08/09	2019/08/12	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/08/11	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/08/08	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 7)	1	N/A	2019/08/08	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/08/08	2019/08/08	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/08/08	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 8)	1	N/A	2019/08/13	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/08/08	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/08/08	2019/08/09	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/08/08	2019/08/08	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 9)	1	N/A	2019/08/08	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	1	2019/08/08	2019/08/08	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/08/08	2019/08/08	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/08/08	CAM SOP-00417	SM 23 2130 B m



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/16

Report #: R5842179

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9L6967

Received: 2019/08/07, 11:30

Remarks:

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(6) "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).

(7) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(8) Radium-226 results have not been corrected for blanks.

(9) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/16
Report #: R5842179
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9L6967

Received: 2019/08/07, 11:30

Encryption Key

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

Alisha Williamson, Project Manager

Email: Alisha.Williamson@bvlabs.com

Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B9L6967

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KLK799		
Sampling Date		2019/08/03 05:30		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	5080	0.50	6276030
Metals				
Dissolved Aluminum (Al)	ug/L	76	30	6276032
Dissolved Antimony (Sb)	ug/L	<5.0	5.0	6276032
Dissolved Arsenic (As)	ug/L	14.8	1.0	6276032
Dissolved Barium (Ba)	ug/L	128	10	6276032
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	6276032
Dissolved Bismuth (Bi)	ug/L	<10	10	6276032
Dissolved Boron (B)	ug/L	864	500	6276032
Dissolved Cadmium (Cd)	ug/L	<0.10	0.10	6276032
Dissolved Chromium (Cr)	ug/L	<10	10	6276032
Dissolved Cobalt (Co)	ug/L	<2.0	2.0	6276032
Dissolved Copper (Cu)	ug/L	<2.0	2.0	6276032
Dissolved Iron (Fe)	ug/L	<50	50	6276032
Dissolved Lead (Pb)	ug/L	<2.0	2.0	6276032
Dissolved Lithium (Li)	ug/L	350	20	6276032
Dissolved Manganese (Mn)	ug/L	84	10	6276032
Dissolved Molybdenum (Mo)	ug/L	16	10	6276032
Dissolved Nickel (Ni)	ug/L	<10	10	6276032
Dissolved Selenium (Se)	ug/L	<1.0	1.0	6276032
Dissolved Silicon (Si)	ug/L	<1000	1000	6276032
Dissolved Silver (Ag)	ug/L	<0.20	0.20	6276032
Dissolved Strontium (Sr)	ug/L	22100	10	6276032
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	6276032
Dissolved Tin (Sn)	ug/L	<50	50	6276032
Dissolved Titanium (Ti)	ug/L	<50	50	6276032
Dissolved Uranium (U)	ug/L	1.0	1.0	6276032
Dissolved Vanadium (V)	ug/L	<50	50	6276032
Dissolved Zinc (Zn)	ug/L	<50	50	6276032
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	6276032
Dissolved Calcium (Ca)	mg/L	846	0.50	6276031
Dissolved Magnesium (Mg)	mg/L	720	0.50	6276031
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9L6967

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KLK799		
Sampling Date		2019/08/03 05:30		
	UNITS	MEL-26	RDL	QC Batch
Dissolved Potassium (K)	mg/L	193	0.50	6276031
Dissolved Sodium (Na)	mg/L	6010	0.50	6276031
Dissolved Sulphur (S)	mg/L	441	30	6276031
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9L6967

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KLK799		
Sampling Date		2019/08/03 05:30		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	102	60	6276033
Total Antimony (Sb)	ug/L	<10	10	6276033
Total Arsenic (As)	ug/L	15.0	2.0	6276033
Total Barium (Ba)	ug/L	125	20	6276033
Total Beryllium (Be)	ug/L	<2.0	2.0	6276033
Total Bismuth (Bi)	ug/L	<20	20	6276033
Total Boron (B)	ug/L	<1000	1000	6276033
Total Cadmium (Cd)	ug/L	<0.20	0.20	6276033
Total Chromium (Cr)	ug/L	<20	20	6276033
Total Cobalt (Co)	ug/L	<4.0	4.0	6276033
Total Copper (Cu)	ug/L	<10	10	6276033
Total Iron (Fe)	ug/L	<200	200	6276033
Total Lead (Pb)	ug/L	<4.0	4.0	6276033
Total Lithium (Li)	ug/L	350	40	6276033
Total Manganese (Mn)	ug/L	108	20	6276033
Total Molybdenum (Mo)	ug/L	<20	20	6276033
Total Nickel (Ni)	ug/L	<20	20	6276033
Total Selenium (Se)	ug/L	<2.0	2.0	6276033
Total Silicon (Si)	ug/L	<2000	2000	6276033
Total Silver (Ag)	ug/L	<0.40	0.40	6276033
Total Strontium (Sr)	ug/L	21500	20	6276033
Total Thallium (Tl)	ug/L	<0.20	0.20	6276033
Total Tin (Sn)	ug/L	<100	100	6276033
Total Titanium (Ti)	ug/L	<100	100	6276033
Total Uranium (U)	ug/L	<2.0	2.0	6276033
Total Vanadium (V)	ug/L	<100	100	6276033
Total Zinc (Zn)	ug/L	<100	100	6276033
Total Zirconium (Zr)	ug/L	<2.0	2.0	6276033
Total Calcium (Ca)	ug/L	800000	1000	6270820
Total Magnesium (Mg)	ug/L	723000	1000	6270820
Total Potassium (K)	ug/L	195000	1000	6270820
Total Sodium (Na)	ug/L	5780000	1000	6270820
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9L6967

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KLK799		
Sampling Date		2019/08/03 05:30		
	UNITS	MEL-26	RDL	QC Batch
Total Sulphur (S)	ug/L	437000	60000	6270820
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	4970000	500	6270819
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9L6967

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

RESULTS OF ANALYSES OF WATER

BV Labs ID		KLK799			KLK799		
Sampling Date		2019/08/03 05:30			2019/08/03 05:30		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	82	1.0	6267066			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6267066			
Inorganics							
Total Ammonia-N	mg/L	4.1	0.050	6269155			
Conductivity	umho/cm	34000	1.0	6267358			
Free Cyanide (CN)	ug/L	2.5 (1)	1.0	6277129	1.8	1.0	6277129
Total Dissolved Solids	mg/L	22000	20	6270030			
Total Kjeldahl Nitrogen (TKN)	mg/L	13	2.0	6269150			
Dissolved Organic Carbon	mg/L	4.3	0.50	6267975			
Total Organic Carbon (TOC)	mg/L	5.0	0.50	6269147	4.8	0.50	6269147
Orthophosphate (P)	mg/L	<0.010	0.010	6269158	<0.010	0.010	6269158
Dissolved Oxygen	mg/L	9.67		6269531			
pH	pH	7.82		6266043			
Total Phosphorus	mg/L	0.068	0.020	6269100			
Reactive Silica (SiO ₂)	mg/L	2.1	0.050	6277130			
Total Suspended Solids	mg/L	27	1	6269129			
Dissolved Sulphate (SO ₄)	mg/L	1100	5.0	6269161	1100	5.0	6269161
Total Cyanide (CN)	mg/L	0.0064	0.0050	6269409			
Turbidity	NTU	1.7	0.1	6268047			
WAD Cyanide (Free)	mg/L	0.0014	0.0010	6269415			
Alkalinity (Total as CaCO ₃)	mg/L	82	1.0	6266040			
Dissolved Chloride (Cl ⁻)	mg/L	12000	100	6269157	12000	100	6269157
Nitrite (N)	mg/L	0.387	0.010	6269168			
Nitrate (N)	mg/L	41.0	0.50	6269168			
Nitrate + Nitrite (N)	mg/L	41.4	0.50	6269168			
RADIONUCLIDE							
Radium-226	Bq/L	0.12	0.0050	6264949			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W							



BUREAU
VERITAS

BV Labs Job #: B9L6967

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KLK799		
Sampling Date		2019/08/03 05:30		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6268815
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6268817
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9L6967
Report Date: 2019/08/16

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: KLK799
Sample ID: MEL-26
Matrix: Water

Collected: 2019/08/03
Shipped:
Received: 2019/08/07

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6266040	N/A	2019/08/08	Neil Dassanayake
Carbonate, Bicarbonate and Hydroxide	CALC	6267066	N/A	2019/08/08	Automated Statchk
Chloride by Automated Colourimetry	KONE	6269157	N/A	2019/08/08	Deonarine Ramnarine
Conductivity	AT	6267358	N/A	2019/08/08	Neil Dassanayake
Free (WAD) Cyanide	SKAL/CN	6269415	N/A	2019/08/08	Gnana Thomas
Total Cyanide	SKAL/CN	6269409	2019/08/08	2019/08/08	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6267975	N/A	2019/08/08	Nimarta Singh
Dissolved Oxygen	DO	6269531	2019/08/08	2019/08/08	Nusrat Naz
Dissolved Mercury (low level)	CV/AA	6268817	2019/08/08	2019/08/08	Ron Morrison
Mercury (low level)	CV/AA	6268815	2019/08/08	2019/08/08	Ron Morrison
Cyanide (Free)	SPEC	6277129	2019/08/12	2019/08/12	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6270819	N/A	2019/08/12	Report Automation Engine
Hardness (calculated as CaCO ₃)	CALC	6276030	N/A	2019/08/12	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6276031	N/A	2019/08/12	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6276032	N/A	2019/08/10	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6270820	2019/08/12	2019/08/12	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6276033	2019/08/09	2019/08/12	Valentina Balada
Silica (Reactive)	KONE	6277130	N/A	2019/08/11	Serena Tian
Total Ammonia-N	LACH/NH ₄	6269155	N/A	2019/08/08	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6269168	N/A	2019/08/08	Chandra Nandlal
pH	AT	6266043	2019/08/08	2019/08/08	Neil Dassanayake
Orthophosphate	KONE	6269158	N/A	2019/08/08	Alina Dobreanu
Radium-226 Low Level	AS	6264949	N/A	2019/08/13	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6269161	N/A	2019/08/08	Alina Dobreanu
Total Dissolved Solids	BAL	6270030	2019/08/08	2019/08/09	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6269150	2019/08/08	2019/08/08	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6269147	N/A	2019/08/08	Nimarta Singh
Total Phosphorus (Colourimetric)	LACH/P	6269100	2019/08/08	2019/08/08	Nimarta Singh
Low Level Total Suspended Solids	BAL	6269129	2019/08/08	2019/08/08	Massarat Jan
Turbidity	AT	6268047	N/A	2019/08/08	Kazzandra Adeva

BV Labs ID: KLK799 Dup
Sample ID: MEL-26
Matrix: Water

Collected: 2019/08/03
Shipped:
Received: 2019/08/07

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	6269157	N/A	2019/08/08	Deonarine Ramnarine
Cyanide (Free)	SPEC	6277129	2019/08/12	2019/08/12	Taylor Mullings
Orthophosphate	KONE	6269158	N/A	2019/08/08	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	6269161	N/A	2019/08/08	Alina Dobreanu
Total Organic Carbon (TOC)	TOCV/NDIR	6269147	N/A	2019/08/08	Nimarta Singh



GENERAL COMMENTS

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

Package 1	16.0°C

Sample KLK799 [MEL-26] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Sample KLK799 [MEL-26] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Sample KLK799 [MEL-26] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required.

Results relate only to the items tested.

BUREAU
VERITAS

BV Labs Job #: B9L6967

Report Date: 2019/08/16

QUALITY ASSURANCE REPORT

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6264949	Radium-226	2019/08/13			91	85 - 115	<0.0050	Bq/L	8.7	N/A		
6266040	Alkalinity (Total as CaCO ₃)	2019/08/08			97	85 - 115	<1.0	mg/L	NC	20		
6266043	pH	2019/08/08			102	98 - 103			0.54	N/A		
6267358	Conductivity	2019/08/08			101	85 - 115	<1.0	umho/cm	0.29	25		
6267975	Dissolved Organic Carbon	2019/08/08	91	80 - 120	94	80 - 120	<0.50	mg/L	NC	20		
6268047	Turbidity	2019/08/08			95	85 - 115	<0.1	NTU	6.9	20		
6268815	Mercury (Hg)	2019/08/08	100	75 - 125	102	80 - 120	<0.00001	mg/L	NC	20		
6268817	Dissolved Mercury (Hg)	2019/08/08	107	75 - 125	98	80 - 120	<0.00001	mg/L	NC	20		
6269100	Total Phosphorus	2019/08/08	104	80 - 120	101	80 - 120	<0.020	mg/L	3.4	20	102	80 - 120
6269129	Total Suspended Solids	2019/08/08					<1	mg/L	5.1	25	99	85 - 115
6269147	Total Organic Carbon (TOC)	2019/08/08	95	80 - 120	97	80 - 120	<0.50	mg/L	2.9	20		
6269150	Total Kjeldahl Nitrogen (TKN)	2019/08/08	NC	80 - 120	98	80 - 120	<0.10	mg/L	16	20	93	80 - 120
6269155	Total Ammonia-N	2019/08/08	100	75 - 125	101	80 - 120	<0.050	mg/L	7.0	20		
6269157	Dissolved Chloride (Cl ⁻)	2019/08/08	NC	80 - 120	103	80 - 120	<1.0	mg/L	2.3	20		
6269158	Orthophosphate (P)	2019/08/08	104	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
6269161	Dissolved Sulphate (SO ₄)	2019/08/08	NC	75 - 125	99	80 - 120	<1.0	mg/L	0.38	20		
6269168	Nitrate (N)	2019/08/08	94	80 - 120	98	80 - 120	<0.10	mg/L	1.6	20		
6269168	Nitrite (N)	2019/08/08	96	80 - 120	101	80 - 120	<0.010	mg/L	2.6	20		
6269409	Total Cyanide (CN)	2019/08/08	68 (1)	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
6269415	WAD Cyanide (Free)	2019/08/08	68 (1)	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
6270030	Total Dissolved Solids	2019/08/09					<10	mg/L	0.55	25	95	90 - 110
6276032	Dissolved Aluminum (Al)	2019/08/10	95	80 - 120	100	80 - 120	<3.0	ug/L				
6276032	Dissolved Antimony (Sb)	2019/08/10	97	80 - 120	100	80 - 120	<0.50	ug/L				
6276032	Dissolved Arsenic (As)	2019/08/10	104	80 - 120	101	80 - 120	<0.10	ug/L				
6276032	Dissolved Barium (Ba)	2019/08/10	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6276032	Dissolved Beryllium (Be)	2019/08/10	93	80 - 120	100	80 - 120	<0.10	ug/L				
6276032	Dissolved Bismuth (Bi)	2019/08/10	93	80 - 120	105	80 - 120	<1.0	ug/L				
6276032	Dissolved Boron (B)	2019/08/10	95	80 - 120	103	80 - 120	<50	ug/L				
6276032	Dissolved Cadmium (Cd)	2019/08/10	92	80 - 120	100	80 - 120	<0.010	ug/L				
6276032	Dissolved Chromium (Cr)	2019/08/10	93	80 - 120	102	80 - 120	<1.0	ug/L				
6276032	Dissolved Cobalt (Co)	2019/08/10	90	80 - 120	100	80 - 120	<0.20	ug/L				

BUREAU
VERITAS

BV Labs Job #: B9L6967

Report Date: 2019/08/16

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6276032	Dissolved Copper (Cu)	2019/08/10	86	80 - 120	100	80 - 120	<0.20	ug/L				
6276032	Dissolved Iron (Fe)	2019/08/10	94	80 - 120	102	80 - 120	<5.0	ug/L				
6276032	Dissolved Lead (Pb)	2019/08/10	99	80 - 120	105	80 - 120	<0.20	ug/L				
6276032	Dissolved Lithium (Li)	2019/08/10	NC	80 - 120	99	80 - 120	<2.0	ug/L				
6276032	Dissolved Manganese (Mn)	2019/08/10	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6276032	Dissolved Molybdenum (Mo)	2019/08/10	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6276032	Dissolved Nickel (Ni)	2019/08/10	86	80 - 120	102	80 - 120	<1.0	ug/L				
6276032	Dissolved Selenium (Se)	2019/08/10	103	80 - 120	98	80 - 120	<0.10	ug/L				
6276032	Dissolved Silicon (Si)	2019/08/10	96	80 - 120	105	80 - 120	<100	ug/L				
6276032	Dissolved Silver (Ag)	2019/08/10	93	80 - 120	102	80 - 120	<0.020	ug/L				
6276032	Dissolved Strontium (Sr)	2019/08/10	NC	80 - 120	104	80 - 120	<1.0	ug/L				
6276032	Dissolved Thallium (Tl)	2019/08/10	99	80 - 120	105	80 - 120	<0.010	ug/L				
6276032	Dissolved Tin (Sn)	2019/08/10	95	80 - 120	101	80 - 120	<5.0	ug/L				
6276032	Dissolved Titanium (Ti)	2019/08/10	98	80 - 120	104	80 - 120	<5.0	ug/L				
6276032	Dissolved Uranium (U)	2019/08/10	105	80 - 120	107	80 - 120	<0.10	ug/L				
6276032	Dissolved Vanadium (V)	2019/08/10	97	80 - 120	100	80 - 120	<5.0	ug/L				
6276032	Dissolved Zinc (Zn)	2019/08/10	84	80 - 120	101	80 - 120	<5.0	ug/L				
6276032	Dissolved Zirconium (Zr)	2019/08/10	110	80 - 120	103	80 - 120	<0.10	ug/L				
6276033	Total Aluminum (Al)	2019/08/10	101	80 - 120	102	80 - 120	<3.0	ug/L				
6276033	Total Antimony (Sb)	2019/08/10	101	80 - 120	100	80 - 120	<0.50	ug/L				
6276033	Total Arsenic (As)	2019/08/10	101	80 - 120	99	80 - 120	<0.10	ug/L				
6276033	Total Barium (Ba)	2019/08/10	99	80 - 120	100	80 - 120	<1.0	ug/L				
6276033	Total Beryllium (Be)	2019/08/10	100	80 - 120	101	80 - 120	<0.10	ug/L				
6276033	Total Bismuth (Bi)	2019/08/10	98	80 - 120	101	80 - 120	<1.0	ug/L				
6276033	Total Boron (B)	2019/08/10	103	80 - 120	102	80 - 120	<50	ug/L				
6276033	Total Cadmium (Cd)	2019/08/10	99	80 - 120	100	80 - 120	<0.010	ug/L				
6276033	Total Chromium (Cr)	2019/08/10	98	80 - 120	99	80 - 120	<1.0	ug/L				
6276033	Total Cobalt (Co)	2019/08/10	95	80 - 120	97	80 - 120	<0.20	ug/L				
6276033	Total Copper (Cu)	2019/08/10	94	80 - 120	99	80 - 120	<0.50	ug/L				
6276033	Total Iron (Fe)	2019/08/10	98	80 - 120	101	80 - 120	<10	ug/L				
6276033	Total Lead (Pb)	2019/08/10	100	80 - 120	103	80 - 120	<0.20	ug/L				
6276033	Total Lithium (Li)	2019/08/10	99	80 - 120	100	80 - 120	<2.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: B9L6967

Report Date: 2019/08/16

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6276033	Total Manganese (Mn)	2019/08/10	99	80 - 120	100	80 - 120	<1.0	ug/L				
6276033	Total Molybdenum (Mo)	2019/08/10	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6276033	Total Nickel (Ni)	2019/08/10	95	80 - 120	99	80 - 120	<1.0	ug/L				
6276033	Total Selenium (Se)	2019/08/10	100	80 - 120	100	80 - 120	<0.10	ug/L				
6276033	Total Silicon (Si)	2019/08/10	NC	80 - 120	105	80 - 120	<100	ug/L				
6276033	Total Silver (Ag)	2019/08/10	98	80 - 120	100	80 - 120	<0.020	ug/L				
6276033	Total Strontium (Sr)	2019/08/10	NC	80 - 120	101	80 - 120	<1.0	ug/L				
6276033	Total Thallium (Tl)	2019/08/10	101	80 - 120	101	80 - 120	<0.010	ug/L				
6276033	Total Tin (Sn)	2019/08/10	101	80 - 120	101	80 - 120	<5.0	ug/L				
6276033	Total Titanium (Ti)	2019/08/10	99	80 - 120	100	80 - 120	<5.0	ug/L				
6276033	Total Uranium (U)	2019/08/10	103	80 - 120	102	80 - 120	<0.10	ug/L				
6276033	Total Vanadium (V)	2019/08/10	100	80 - 120	100	80 - 120	<5.0	ug/L				
6276033	Total Zinc (Zn)	2019/08/10	95	80 - 120	100	80 - 120	<5.0	ug/L				
6276033	Total Zirconium (Zr)	2019/08/10	103	80 - 120	102	80 - 120	<0.10	ug/L				
6277129	Free Cyanide (CN)	2019/08/12	89	80 - 120	91	80 - 120	<1.0	ug/L	NC	20		
6277130	Reactive Silica (SiO ₂)	2019/08/11	100	80 - 120	102	80 - 120	<0.050	mg/L	NC	20		

N/A = Not Applicable

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.

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 <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9L6967

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Brad Newman, Scientific Service Specialist

Harry (Peng) Liang, Senior Analyst

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

Rob Reinert, B.Sc., Scientific Specialist

Steven Simpson, Lab Director

BV Labs 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

BV Labs Job #: B9L6967

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: B9L6974
 Your Project #: MB9L6974
 Site Location: MELIADINE
 Your C.O.C. #: B9L6974-M060-01-01

Attention: Alisha Williamson

Agnico-Eagle
 Meliadine
 Rankin Inlet, NU
 Canada X0C 0G0

Report Date: 2019/08/12
 Report #: R2765615
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B965472

Received: 2019/08/09, 09:50

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride/Sulphate by Auto Colourimetry	1	N/A	2019/08/11	AB SOP-00020 / AB SOP-00018	SM23-4500-Cl/SO4-E m
Conductivity @25C	1	N/A	2019/08/12	AB SOP-00005	SM 23 2510 B m
Elements by ICP-Dissolved-Lab Filtered (1)	1	N/A	2019/08/12	AB SOP-00042	EPA 6010d R5 m
pH @25°C (2)	1	N/A	2019/08/12	AB SOP-00005	SM 23 4500-H+B m
Sodium Adsorption Ratio	1	N/A	2019/08/12		Auto Calc
Total Dissolved Solids (Calc. from EC)	1	N/A	2019/08/12		Auto Calc

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(2) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.



Your P.O. #: B9L6974
Your Project #: MB9L6974
Site Location: MELIADINE
Your C.O.C. #: B9L6974-M060-01-01

Attention: Alisha Williamson

Agnico-Eagle
Meliadine
Rankin Inlet, NU
Canada X0C 0G0

Report Date: 2019/08/12
Report #: R2765615
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B965472
Received: 2019/08/09, 09:50

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Solutions, Western Canada Customer Experience Team
Email: customersolutionswest@bvlabs.com
Phone# (403) 291-3077

=====

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BUREAU
VERITAS

BV Labs Job #: B965472
Report Date: 2019/08/12

Agnico-Eagle
Client Project #: MB9L6974
Site Location: MELIADINE
Your P.O. #: B9L6974
Sampler Initials: RS

SALINITY WATER (WATER)

BV Labs ID		WG4597		
Sampling Date		2019/08/05 06:14		
COC Number		B9L6974-M060-01-01		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	31	0.10	9541054
Total dissolved solids (calc., EC)	mg/L	30000	10	9541058
Misc. Inorganics				
Conductivity	uS/cm	30000	2.0	9543388
pH	pH	7.60	N/A	9543386
Anions				
Dissolved Chloride (Cl)	mg/L	9700 (1)	100	9543256
Dissolved Sulphate (SO4)	mg/L	1000 (1)	10	9543256
Lab Filtered Elements				
Dissolved Calcium (Ca)	mg/L	930	6.0	9543263
Dissolved Magnesium (Mg)	mg/L	640	4.0	9543263
Dissolved Potassium (K)	mg/L	180	6.0	9543263
Dissolved Sodium (Na)	mg/L	5000	10	9543263
RDL = Reportable Detection Limit N/A = Not Applicable (1) Detection limits raised due to dilution to bring analyte within the calibrated range.				



BUREAU
VERITAS

BV Labs Job #: B965472
Report Date: 2019/08/12

Agnico-Eagle
Client Project #: MB9L6974
Site Location: MELIADINE
Your P.O. #: B9L6974
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: WG4597
Sample ID: MEL-26
Matrix: Water

Collected: 2019/08/05
Shipped:
Received: 2019/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride/Sulphate by Auto Colourimetry	KONE	9543256	N/A	2019/08/11	Serena Tian
Conductivity @25C	COND	9543388	N/A	2019/08/12	Ilonka Kovac
Elements by ICP-Dissolved-Lab Filtered	ICPA	9543263	N/A	2019/08/12	Harry (Peng) Liang
pH @25°C	AT/ALK	9543386	N/A	2019/08/12	Ilonka Kovac
Sodium Adsorption Ratio	CALC	9541054	N/A	2019/08/12	Automated Statchk
Total Dissolved Solids (Calc. from EC)	CALC	9541058	N/A	2019/08/12	Report Automation Engine



BUREAU
VERITAS

BV Labs Job #: B965472
Report Date: 2019/08/12

Agnico-Eagle
Client Project #: MB9L6974
Site Location: MELIADINE
Your P.O. #: B9L6974
Sampler Initials: RS

GENERAL COMMENTS

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

Package 1	2.3°C

SALINITY WATER (WATER) Comments

Sample WG4597 [MEL-26] Elements by ICP-Dissolved-Lab Filtered: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B965472

Report Date: 2019/08/12

QUALITY ASSURANCE REPORT

Agnico-Eagle

Client Project #: MB9L6974

Site Location: MELIADINE

Your P.O. #: B9L6974

Sampler Initials: RS

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9543256	Dissolved Chloride (Cl)	2019/08/11	105	80 - 120	99	80 - 120	<1.0	mg/L	5.0	20
9543256	Dissolved Sulphate (SO ₄)	2019/08/11	NC	80 - 120	102	80 - 120	<1.0	mg/L	8.2	20
9543263	Dissolved Calcium (Ca)	2019/08/11	NC	80 - 120	100	80 - 120	<0.30	mg/L	0.48	20
9543263	Dissolved Magnesium (Mg)	2019/08/11	91	80 - 120	100	80 - 120	<0.20	mg/L	0.15	20
9543263	Dissolved Potassium (K)	2019/08/11	91	80 - 120	93	80 - 120	<0.30	mg/L	0.55	20
9543263	Dissolved Sodium (Na)	2019/08/11	89	80 - 120	100	80 - 120	<0.50	mg/L	0.98	20
9543386	pH	2019/08/12			100	97 - 103			0.38	N/A
9543388	Conductivity	2019/08/12			100	90 - 110	<2.0	uS/cm	0	10

N/A = Not Applicable

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.

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.

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)



BUREAU
VERITAS

BV Labs Job #: B965472
Report Date: 2019/08/12

Agnico-Eagle
Client Project #: MB9L6974
Site Location: MELIADINE
Your P.O. #: B9L6974
Sampler Initials: RS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Harry (Peng) Liang, Senior Analyst

BV Labs 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.



Your P.O. #: OL-762849
 Site#: 62°48'01.99" 92°06'00.05"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/16
 Report #: R5842146
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9L6974

Received: 2019/08/07, 11:30

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/08/08	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/08/08	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	1	N/A	2019/08/08	CAM SOP-00463	SM 4500-Cl E m
Conductivity (1)	1	N/A	2019/08/08	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/08/08	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/08/08	2019/08/08	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/08/08	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/08/08	2019/08/08	CAM SOP-00427	SM 23 4500 O G m
Dissolved Mercury (low level) (1)	1	2019/08/08	2019/08/08	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/08/08	2019/08/08	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 6)	1	N/A	2019/08/12	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/08/12	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/08/12	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/08/10	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/08/07	2019/08/12	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/08/09	2019/08/10	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/08/11	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/08/08	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 7)	1	N/A	2019/08/08	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/08/08	2019/08/08	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/08/08	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 8)	1	N/A	2019/08/13	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/08/08	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/08/08	2019/08/09	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/08/08	2019/08/08	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 9)	1	N/A	2019/08/08	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	1	2019/08/08	2019/08/08	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/08/08	2019/08/08	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/08/08	CAM SOP-00417	SM 23 2130 B m



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/16
Report #: R5842146
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9L6974

Received: 2019/08/07, 11:30

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Laboratory Method	Reference
	Quantity	Extracted		
Low Level Volatile Suspended Solids (1)	1	2019/08/08	2019/08/08 CAM SOP-00428	SM 23 2540

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(6) "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).

(7) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(8) Radium-226 results have not been corrected for blanks.

(9) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/16
Report #: R5842146
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9L6974

Received: 2019/08/07, 11:30

Encryption Key

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B9L6974

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KLK830		
Sampling Date		2019/08/05 06:14		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	4900	0.50	6276030
Metals				
Dissolved Aluminum (Al)	ug/L	46	30	6276032
Dissolved Antimony (Sb)	ug/L	<5.0	5.0	6276032
Dissolved Arsenic (As)	ug/L	11.2	1.0	6276032
Dissolved Barium (Ba)	ug/L	180	10	6276032
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	6276032
Dissolved Bismuth (Bi)	ug/L	<10	10	6276032
Dissolved Boron (B)	ug/L	863	500	6276032
Dissolved Cadmium (Cd)	ug/L	<0.10	0.10	6276032
Dissolved Chromium (Cr)	ug/L	<10	10	6276032
Dissolved Cobalt (Co)	ug/L	<2.0	2.0	6276032
Dissolved Copper (Cu)	ug/L	<2.0	2.0	6276032
Dissolved Iron (Fe)	ug/L	<50	50	6276032
Dissolved Lead (Pb)	ug/L	<2.0	2.0	6276032
Dissolved Lithium (Li)	ug/L	499	20	6276032
Dissolved Manganese (Mn)	ug/L	62	10	6276032
Dissolved Molybdenum (Mo)	ug/L	12	10	6276032
Dissolved Nickel (Ni)	ug/L	<10	10	6276032
Dissolved Selenium (Se)	ug/L	<1.0	1.0	6276032
Dissolved Silicon (Si)	ug/L	<1000	1000	6276032
Dissolved Silver (Ag)	ug/L	<0.20	0.20	6276032
Dissolved Strontium (Sr)	ug/L	24700	10	6276032
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	6276032
Dissolved Tin (Sn)	ug/L	<50	50	6276032
Dissolved Titanium (Ti)	ug/L	<50	50	6276032
Dissolved Uranium (U)	ug/L	<1.0	1.0	6276032
Dissolved Vanadium (V)	ug/L	<50	50	6276032
Dissolved Zinc (Zn)	ug/L	<50	50	6276032
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	6276032
Dissolved Calcium (Ca)	mg/L	943	0.50	6276031
Dissolved Magnesium (Mg)	mg/L	618	0.50	6276031
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9L6974

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KLK830		
Sampling Date		2019/08/05 06:14		
	UNITS	MEL-26	RDL	QC Batch
Dissolved Potassium (K)	mg/L	182	0.50	6276031
Dissolved Sodium (Na)	mg/L	5240	0.50	6276031
Dissolved Sulphur (S)	mg/L	379	30	6276031
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9L6974

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KLK830		
Sampling Date		2019/08/05 06:14		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	74	30	6276033
Total Antimony (Sb)	ug/L	5.9	5.0	6276033
Total Arsenic (As)	ug/L	12.0	1.0	6276033
Total Barium (Ba)	ug/L	176	10	6276033
Total Beryllium (Be)	ug/L	<1.0	1.0	6276033
Total Bismuth (Bi)	ug/L	<10	10	6276033
Total Boron (B)	ug/L	827	500	6276033
Total Cadmium (Cd)	ug/L	<0.10	0.10	6276033
Total Chromium (Cr)	ug/L	<10	10	6276033
Total Cobalt (Co)	ug/L	2.1	2.0	6276033
Total Copper (Cu)	ug/L	8.7	5.0	6276033
Total Iron (Fe)	ug/L	<100	100	6276033
Total Lead (Pb)	ug/L	<2.0	2.0	6276033
Total Lithium (Li)	ug/L	470	20	6276033
Total Manganese (Mn)	ug/L	71	10	6276033
Total Molybdenum (Mo)	ug/L	15	10	6276033
Total Nickel (Ni)	ug/L	<10	10	6276033
Total Selenium (Se)	ug/L	1.1	1.0	6276033
Total Silicon (Si)	ug/L	<1000	1000	6276033
Total Silver (Ag)	ug/L	<0.20	0.20	6276033
Total Strontium (Sr)	ug/L	23000	10	6276033
Total Thallium (Tl)	ug/L	<0.10	0.10	6276033
Total Tin (Sn)	ug/L	<50	50	6276033
Total Titanium (Ti)	ug/L	<50	50	6276033
Total Uranium (U)	ug/L	1.0	1.0	6276033
Total Vanadium (V)	ug/L	<50	50	6276033
Total Zinc (Zn)	ug/L	<50	50	6276033
Total Zirconium (Zr)	ug/L	<1.0	1.0	6276033
Total Calcium (Ca)	ug/L	922000	500	6270820
Total Magnesium (Mg)	ug/L	604000	500	6270820
Total Potassium (K)	ug/L	175000	500	6270820
Total Sodium (Na)	ug/L	4820000	500	6270820
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9L6974

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KLK830		
Sampling Date		2019/08/05 06:14		
	UNITS	MEL-26	RDL	QC Batch
Total Sulphur (S)	ug/L	393000	30000	6270820
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	4790000	500	6270819
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9L6974

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

RESULTS OF ANALYSES OF WATER

BV Labs ID		KLK830			KLK830		
Sampling Date		2019/08/05 06:14			2019/08/05 06:14		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	79	1.0	6267066			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6267066			
Inorganics							
Total Ammonia-N	mg/L	3.1	0.050	6269155			
Conductivity	umho/cm	30000	1.0	6267358			
Free Cyanide (CN)	ug/L	1.1 (1)	1.0	6277129			
Total Dissolved Solids	mg/L	20000	20	6270030	19900	20	6270030
Total Kjeldahl Nitrogen (TKN)	mg/L	9.3	2.0	6269150	11	2.0	6269150
Dissolved Organic Carbon	mg/L	5.3	0.50	6267975			
Total Organic Carbon (TOC)	mg/L	6.1	0.50	6269147			
Orthophosphate (P)	mg/L	<0.010	0.010	6269158			
Dissolved Oxygen	mg/L	9.52		6269531			
pH	pH	7.69		6266043			
Total Phosphorus	mg/L	0.054	0.020	6269100			
Reactive Silica (SiO ₂)	mg/L	2.1 (2)	0.50	6277130	1.1	0.50	6277130
Total Suspended Solids	mg/L	19	1	6269129	20	1	6269129
Dissolved Sulphate (SO ₄)	mg/L	980	5.0	6269161			
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6269409	<0.0050	0.0050	6269409
Turbidity	NTU	0.7	0.1	6268047			
Volatile Suspended Solids	mg/L	10	1	6269134	10	1	6269134
WAD Cyanide (Free)	mg/L	<0.0010	0.0010	6269415	<0.0010	0.0010	6269415
Alkalinity (Total as CaCO ₃)	mg/L	80	1.0	6266040			
Dissolved Chloride (Cl ⁻)	mg/L	11000	100	6269157			
Nitrite (N)	mg/L	0.296	0.010	6269168			
Nitrate (N)	mg/L	46.2	0.50	6269168			
Nitrate + Nitrite (N)	mg/L	46.5	0.50	6269168			
RADIONUCLIDE							
Radium-226	Bq/L	0.17	0.0050	6264949			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.							



BUREAU
VERITAS

BV Labs Job #: B9L6974

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KLK830		
Sampling Date		2019/08/05 06:14		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6268815
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6268817
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: B9L6974
Report Date: 2019/08/16

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: KLK830
Sample ID: MEL-26
Matrix: Water

Collected: 2019/08/05
Shipped:
Received: 2019/08/07

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6266040	N/A	2019/08/08	Neil Dassanayake
Carbonate, Bicarbonate and Hydroxide	CALC	6267066	N/A	2019/08/08	Automated Statchk
Chloride by Automated Colourimetry	KONE	6269157	N/A	2019/08/08	Deonarine Ramnarine
Conductivity	AT	6267358	N/A	2019/08/08	Neil Dassanayake
Free (WAD) Cyanide	SKAL/CN	6269415	N/A	2019/08/08	Gnana Thomas
Total Cyanide	SKAL/CN	6269409	2019/08/08	2019/08/08	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6267975	N/A	2019/08/08	Nimarta Singh
Dissolved Oxygen	DO	6269531	2019/08/08	2019/08/08	Nusrat Naz
Dissolved Mercury (low level)	CV/AA	6268817	2019/08/08	2019/08/08	Ron Morrison
Mercury (low level)	CV/AA	6268815	2019/08/08	2019/08/08	Ron Morrison
Cyanide (Free)	SPEC	6277129	2019/08/12	2019/08/12	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6270819	N/A	2019/08/12	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6276030	N/A	2019/08/12	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6276031	N/A	2019/08/12	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6276032	N/A	2019/08/10	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6270820	2019/08/12	2019/08/12	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6276033	2019/08/09	2019/08/10	Valentina Balada
Silica (Reactive)	KONE	6277130	N/A	2019/08/11	Serena Tian
Total Ammonia-N	LACH/NH ₄	6269155	N/A	2019/08/08	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6269168	N/A	2019/08/08	Chandra Nandlal
pH	AT	6266043	2019/08/08	2019/08/08	Neil Dassanayake
Orthophosphate	KONE	6269158	N/A	2019/08/08	Alina Dobreanu
Radium-226 Low Level	AS	6264949	N/A	2019/08/13	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6269161	N/A	2019/08/08	Alina Dobreanu
Total Dissolved Solids	BAL	6270030	2019/08/08	2019/08/09	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6269150	2019/08/08	2019/08/08	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6269147	N/A	2019/08/08	Nimarta Singh
Total Phosphorus (Colourimetric)	LACH/P	6269100	2019/08/08	2019/08/08	Nimarta Singh
Low Level Total Suspended Solids	BAL	6269129	2019/08/08	2019/08/08	Massarat Jan
Turbidity	AT	6268047	N/A	2019/08/08	Kazzandra Adeva
Low Level Volatile Suspended Solids	BAL	6269134	2019/08/08	2019/08/08	Massarat Jan

BV Labs ID: KLK830 Dup
Sample ID: MEL-26
Matrix: Water

Collected: 2019/08/05
Shipped:
Received: 2019/08/07

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	6269415	N/A	2019/08/08	Gnana Thomas
Total Cyanide	SKAL/CN	6269409	2019/08/08	2019/08/08	Gnana Thomas
Silica (Reactive)	KONE	6277130	N/A	2019/08/11	Serena Tian
Total Dissolved Solids	BAL	6270030	2019/08/08	2019/08/09	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6269150	2019/08/08	2019/08/08	Shivani Shivani
Low Level Total Suspended Solids	BAL	6269129	2019/08/08	2019/08/08	Massarat Jan
Low Level Volatile Suspended Solids	BAL	6269134	2019/08/08	2019/08/08	Massarat Jan



GENERAL COMMENTS

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

Package 1	16.0°C

Sample KLK830 [MEL-26] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Sample KLK830 [MEL-26] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Sample KLK830 [MEL-26] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required.

Results relate only to the items tested.

BUREAU
VERITAS

BV Labs Job #: B9L6974

Report Date: 2019/08/16

QUALITY ASSURANCE REPORT

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6264949	Radium-226	2019/08/13			91	85 - 115	<0.0050	Bq/L	8.7	N/A		
6266040	Alkalinity (Total as CaCO ₃)	2019/08/08			97	85 - 115	<1.0	mg/L	NC	20		
6266043	pH	2019/08/08			102	98 - 103			0.54	N/A		
6267358	Conductivity	2019/08/08			101	85 - 115	<1.0	umho/cm	0.29	25		
6267975	Dissolved Organic Carbon	2019/08/08	91	80 - 120	94	80 - 120	<0.50	mg/L	NC	20		
6268047	Turbidity	2019/08/08			95	85 - 115	<0.1	NTU	6.9	20		
6268815	Mercury (Hg)	2019/08/08	100	75 - 125	102	80 - 120	<0.00001	mg/L	NC	20		
6268817	Dissolved Mercury (Hg)	2019/08/08	107	75 - 125	98	80 - 120	<0.00001	mg/L	NC	20		
6269100	Total Phosphorus	2019/08/08	104	80 - 120	101	80 - 120	<0.020	mg/L	3.4	20	102	80 - 120
6269129	Total Suspended Solids	2019/08/08					<1	mg/L	5.1	25	99	85 - 115
6269134	Volatile Suspended Solids	2019/08/08					<1	mg/L	3.9	25		
6269147	Total Organic Carbon (TOC)	2019/08/08	95	80 - 120	97	80 - 120	<0.50	mg/L	2.9	20		
6269150	Total Kjeldahl Nitrogen (TKN)	2019/08/08	NC	80 - 120	98	80 - 120	<0.10	mg/L	16	20	93	80 - 120
6269155	Total Ammonia-N	2019/08/08	100	75 - 125	101	80 - 120	<0.050	mg/L	7.0	20		
6269157	Dissolved Chloride (Cl ⁻)	2019/08/08	NC	80 - 120	103	80 - 120	<1.0	mg/L	2.3	20		
6269158	Orthophosphate (P)	2019/08/08	104	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
6269161	Dissolved Sulphate (SO ₄)	2019/08/08	NC	75 - 125	99	80 - 120	<1.0	mg/L	0.38	20		
6269168	Nitrate (N)	2019/08/08	94	80 - 120	98	80 - 120	<0.10	mg/L	1.6	20		
6269168	Nitrite (N)	2019/08/08	96	80 - 120	101	80 - 120	<0.010	mg/L	2.6	20		
6269409	Total Cyanide (CN)	2019/08/08	68 (1)	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
6269415	WAD Cyanide (Free)	2019/08/08	68 (1)	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
6270030	Total Dissolved Solids	2019/08/09					<10	mg/L	0.55	25	95	90 - 110
6276032	Dissolved Aluminum (Al)	2019/08/10	95	80 - 120	100	80 - 120	<3.0	ug/L				
6276032	Dissolved Antimony (Sb)	2019/08/10	97	80 - 120	100	80 - 120	<0.50	ug/L				
6276032	Dissolved Arsenic (As)	2019/08/10	104	80 - 120	101	80 - 120	<0.10	ug/L				
6276032	Dissolved Barium (Ba)	2019/08/10	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6276032	Dissolved Beryllium (Be)	2019/08/10	93	80 - 120	100	80 - 120	<0.10	ug/L				
6276032	Dissolved Bismuth (Bi)	2019/08/10	93	80 - 120	105	80 - 120	<1.0	ug/L				
6276032	Dissolved Boron (B)	2019/08/10	95	80 - 120	103	80 - 120	<50	ug/L				
6276032	Dissolved Cadmium (Cd)	2019/08/10	92	80 - 120	100	80 - 120	<0.010	ug/L				
6276032	Dissolved Chromium (Cr)	2019/08/10	93	80 - 120	102	80 - 120	<1.0	ug/L				

BUREAU
VERITAS

BV Labs Job #: B9L6974

Report Date: 2019/08/16

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6276032	Dissolved Cobalt (Co)	2019/08/10	90	80 - 120	100	80 - 120	<0.20	ug/L				
6276032	Dissolved Copper (Cu)	2019/08/10	86	80 - 120	100	80 - 120	<0.20	ug/L				
6276032	Dissolved Iron (Fe)	2019/08/10	94	80 - 120	102	80 - 120	<5.0	ug/L				
6276032	Dissolved Lead (Pb)	2019/08/10	99	80 - 120	105	80 - 120	<0.20	ug/L				
6276032	Dissolved Lithium (Li)	2019/08/10	NC	80 - 120	99	80 - 120	<2.0	ug/L				
6276032	Dissolved Manganese (Mn)	2019/08/10	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6276032	Dissolved Molybdenum (Mo)	2019/08/10	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6276032	Dissolved Nickel (Ni)	2019/08/10	86	80 - 120	102	80 - 120	<1.0	ug/L				
6276032	Dissolved Selenium (Se)	2019/08/10	103	80 - 120	98	80 - 120	<0.10	ug/L				
6276032	Dissolved Silicon (Si)	2019/08/10	96	80 - 120	105	80 - 120	<100	ug/L				
6276032	Dissolved Silver (Ag)	2019/08/10	93	80 - 120	102	80 - 120	<0.020	ug/L				
6276032	Dissolved Strontium (Sr)	2019/08/10	NC	80 - 120	104	80 - 120	<1.0	ug/L				
6276032	Dissolved Thallium (Tl)	2019/08/10	99	80 - 120	105	80 - 120	<0.010	ug/L				
6276032	Dissolved Tin (Sn)	2019/08/10	95	80 - 120	101	80 - 120	<5.0	ug/L				
6276032	Dissolved Titanium (Ti)	2019/08/10	98	80 - 120	104	80 - 120	<5.0	ug/L				
6276032	Dissolved Uranium (U)	2019/08/10	105	80 - 120	107	80 - 120	<0.10	ug/L				
6276032	Dissolved Vanadium (V)	2019/08/10	97	80 - 120	100	80 - 120	<5.0	ug/L				
6276032	Dissolved Zinc (Zn)	2019/08/10	84	80 - 120	101	80 - 120	<5.0	ug/L				
6276032	Dissolved Zirconium (Zr)	2019/08/10	110	80 - 120	103	80 - 120	<0.10	ug/L				
6276033	Total Aluminum (Al)	2019/08/10	101	80 - 120	102	80 - 120	<3.0	ug/L				
6276033	Total Antimony (Sb)	2019/08/10	101	80 - 120	100	80 - 120	<0.50	ug/L				
6276033	Total Arsenic (As)	2019/08/10	101	80 - 120	99	80 - 120	<0.10	ug/L				
6276033	Total Barium (Ba)	2019/08/10	99	80 - 120	100	80 - 120	<1.0	ug/L				
6276033	Total Beryllium (Be)	2019/08/10	100	80 - 120	101	80 - 120	<0.10	ug/L				
6276033	Total Bismuth (Bi)	2019/08/10	98	80 - 120	101	80 - 120	<1.0	ug/L				
6276033	Total Boron (B)	2019/08/10	103	80 - 120	102	80 - 120	<50	ug/L				
6276033	Total Cadmium (Cd)	2019/08/10	99	80 - 120	100	80 - 120	<0.010	ug/L				
6276033	Total Chromium (Cr)	2019/08/10	98	80 - 120	99	80 - 120	<1.0	ug/L				
6276033	Total Cobalt (Co)	2019/08/10	95	80 - 120	97	80 - 120	<0.20	ug/L				
6276033	Total Copper (Cu)	2019/08/10	94	80 - 120	99	80 - 120	<0.50	ug/L				
6276033	Total Iron (Fe)	2019/08/10	98	80 - 120	101	80 - 120	<10	ug/L				
6276033	Total Lead (Pb)	2019/08/10	100	80 - 120	103	80 - 120	<0.20	ug/L				

BUREAU
VERITAS

BV Labs Job #: B9L6974

Report Date: 2019/08/16

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6276033	Total Lithium (Li)	2019/08/10	99	80 - 120	100	80 - 120	<2.0	ug/L				
6276033	Total Manganese (Mn)	2019/08/10	99	80 - 120	100	80 - 120	<1.0	ug/L				
6276033	Total Molybdenum (Mo)	2019/08/10	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6276033	Total Nickel (Ni)	2019/08/10	95	80 - 120	99	80 - 120	<1.0	ug/L				
6276033	Total Selenium (Se)	2019/08/10	100	80 - 120	100	80 - 120	<0.10	ug/L				
6276033	Total Silicon (Si)	2019/08/10	NC	80 - 120	105	80 - 120	<100	ug/L				
6276033	Total Silver (Ag)	2019/08/10	98	80 - 120	100	80 - 120	<0.020	ug/L				
6276033	Total Strontium (Sr)	2019/08/10	NC	80 - 120	101	80 - 120	<1.0	ug/L				
6276033	Total Thallium (Tl)	2019/08/10	101	80 - 120	101	80 - 120	<0.010	ug/L				
6276033	Total Tin (Sn)	2019/08/10	101	80 - 120	101	80 - 120	<5.0	ug/L				
6276033	Total Titanium (Ti)	2019/08/10	99	80 - 120	100	80 - 120	<5.0	ug/L				
6276033	Total Uranium (U)	2019/08/10	103	80 - 120	102	80 - 120	<0.10	ug/L				
6276033	Total Vanadium (V)	2019/08/10	100	80 - 120	100	80 - 120	<5.0	ug/L				
6276033	Total Zinc (Zn)	2019/08/10	95	80 - 120	100	80 - 120	<5.0	ug/L				
6276033	Total Zirconium (Zr)	2019/08/10	103	80 - 120	102	80 - 120	<0.10	ug/L				
6277129	Free Cyanide (CN)	2019/08/12	89	80 - 120	91	80 - 120	<1.0	ug/L	NC	20		
6277130	Reactive Silica (SiO ₂)	2019/08/11	100	80 - 120	102	80 - 120	<0.050	mg/L	NC	20		

N/A = Not Applicable

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.

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 <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9L6974

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Harry (Peng) Liang, Senior Analyst

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

Rob Reinert, B.Sc., Scientific Specialist

Steven Simpson, Lab Director

BV Labs 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

BV Labs Job #: B9L6974

Report Date: 2019/08/16

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your Project #: MB9M5773
Site Location: MELIADINE
Your C.O.C. #: 1 of 1

Attention: Alisha Williamson

Agnico-Eagle
Meliadine
Rankin Inlet, NU
Canada X0C 0G0

Report Date: 2019/08/21
Report #: R2770317
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B968223

Received: 2019/08/17, 10:30

Sample Matrix: Agua
Samples Received: 1

Analyses	Quantity	DateDEL Extraido	Date Analyzed	Analytical Method	Reference
Chloride/Sulphate by AC	1	N/A	2019/08/21	AB SOP-00020 / AB SOP-00018	SM23-4500-Cl/SO4-E m
Conductivity @25C	1	N/A	2019/08/20	AB SOP-00005	SM 23 2510 B m
Elements by ICP-Dissolved-Lab Filtered	1	N/A	2019/08/20	AB SOP-00042	EPA 6010d R5 m
pH @25°C	1	N/A	2019/08/20	AB SOP-00005	SM 23 4500-H+B m
Sodium Adsorption Ratio	1	N/A	2019/08/21		Auto Calc
Total Dissolved Solids (Calc. from EC)	1	N/A	2019/08/21		Auto Calc

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

* RPDCOMMENT

Encryption Key

COVERPAGECOMMENT1

Customer Solutions,
Email: customersolutionswest@bvlabs.com
Phone# (403) 291-3077

EAUTOSEND1

ESIGCOMMENT1



BUREAU
VERITAS

BV Labs Job #: B968223
Report Date: 2019/08/21

Agnico-Eagle
Client Project #: MB9M5773
Site Location: MELIADINE
Sampler Initials: DM

SALINITY WATER (AGUA)

BV Labs ID		WH8382			WH8382		
Sampling Date		2019/08/12 06:15			2019/08/12 06:15		
COC Number		1 of 1			1 of 1		
	Units	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup.	RDL	QC Batch
Sodium Adsorption Ratio	N/A	29	0.10	9552742			
Total dissolved solids (calc., EC)	mg/L	34000	10	9552743			
Conductivity	uS/cm	34000	2.0	9555018			
pH	pH	7.75	N/A	9555013			
Chloride (Cl)	mg/L	11000 (1)	100	9556637	11000	100	9556637
Sulphate (SO4)	mg/L	1300 (1)	10	9556637	1400	10	9556637
Calcium (Ca)	mg/L	1500	6.0	9554339	1500	6.0	9554339
Magnesium (Mg)	mg/L	740	4.0	9554339	750	4.0	9554339
Potassium (K)	mg/L	220	6.0	9554339	220	6.0	9554339
Sodium (Na)	mg/L	5400	10	9554339	5500	10	9554339
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							
(1) Detection limits raised due to dilution to bring analyte within the calibrated range.							



BUREAU
VERITAS

BV Labs Job #: B968223
Report Date: 2019/08/21

Agnico-Eagle
Client Project #: MB9M5773
Site Location: MELIADINE
Sampler Initials: DM

TEST SUMMARY

BV Labs ID: WH8382
Sample ID: MEL-26
Matrix: Agua

Collected: 2019/08/12
Shipped:
Received: 2019/08/17

Test Description	Instrumentation	Batch		Date Analyzed	Analyst
Chloride/Sulphate by AC	KONE	9556637	N/A	2019/08/21	Zafar Iqbal
Conductivity @25C	COND	9555018	N/A	2019/08/20	Ilonka Kovac
Elements by ICP-Dissolved-Lab Filtered	ICPA	9554339	N/A	2019/08/20	Mary Anne Dela Cruz
pH @25°C	AT/ALK	9555013	N/A	2019/08/20	Ilonka Kovac
Sodium Adsorption Ratio	CALC	9552742	N/A	2019/08/21	Report Automation Engine
Total Dissolved Solids (Calc. from EC)	CALC	9552743	N/A	2019/08/21	Report Automation Engine

BV Labs ID: WH8382 Dup
Sample ID: MEL-26
Matrix: Agua

Collected: 2019/08/12
Shipped:
Received: 2019/08/17

Test Description	Instrumentation	Batch		Date Analyzed	Analyst
Chloride/Sulphate by AC	KONE	9556637	N/A	2019/08/21	Zafar Iqbal
Elements by ICP-Dissolved-Lab Filtered	ICPA	9554339	N/A	2019/08/20	Mary Anne Dela Cruz



BUREAU
VERITAS

BV Labs Job #: B968223
Report Date: 2019/08/21

Agnico-Eagle
Client Project #: MB9M5773
Site Location: MELIADINE
Sampler Initials: DM

GENERAL COMMENTS

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

Package 1	3.3°C

SALINITY WATER (AGUA) Comments

Sample WH8382 [MEL-26] Elements by ICP-Dissolved-Lab Filtered: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B968223

Report Date: 2019/08/21

QUALITY ASSURANCE REPORT

Agnico-Eagle

Client Project #: MB9M5773

Site Location: MELIADINE

Sampler Initials: DM

QC Batch	Parameter	Date	MATRIX SPIKE		SPIKE		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
9554339	Calcium (Ca)	2019/08/20	NC	80 - 120	100	80 - 120	<0.30	mg/L	1.3	20
9554339	Magnesium (Mg)	2019/08/20	NC	80 - 120	104	80 - 120	<0.20	mg/L	1.2	20
9554339	Potassium (K)	2019/08/20	NC	80 - 120	104	80 - 120	<0.30	mg/L	1.2	20
9554339	Sodium (Na)	2019/08/20	NC	80 - 120	106	80 - 120	<0.50	mg/L	1.5	20
9555013	pH	2019/08/20			101	97 - 103			0.71	N/A
9555018	Conductivity	2019/08/20			99	90 - 110	<2.0	uS/cm	4.5	10
9556637	Chloride (Cl)	2019/08/21	NC	80 - 120	99	80 - 120	<1.0	mg/L	5.9	20
9556637	Sulphate (SO4)	2019/08/21	NC	80 - 120	101	80 - 120	<1.0	mg/L	8.7	20
CAMP_99992										
CAMP_99995										
CAMP_99998										
CAMP_99999										
CAMP_NCMATRIX										



BUREAU
VERITAS

BV Labs Job #: B968223

Report Date: 2019/08/21

Agnico-Eagle

Client Project #: MB9M5773

Site Location: MELIADINE

Sampler Initials: DM

VALIDATION SIGNATURE PAGE

SIGPAGECOMMENT1

Harry (Peng) Liang

ESIGCOMMENT1



Your P.O. #: OL-762849
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/26
Report #: R5854041
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9M5773

Received: 2019/08/15, 09:30

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/08/16	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/08/16	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	1	N/A	2019/08/16	CAM SOP-00463	SM 4500-Cl E m
Conductivity (1)	1	N/A	2019/08/16	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/08/16	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/08/16	2019/08/16	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/08/16	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/08/16	2019/08/16	CAM SOP-00427	SM 23 4500 O G m
Dissolved Mercury (low level) (1)	1	2019/08/16	2019/08/16	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/08/16	2019/08/16	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 6)	1	N/A	2019/08/20	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/08/20	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/08/20	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/08/20	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/08/15	2019/08/20	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/08/20	2019/08/20	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/08/20	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/08/16	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 7)	1	N/A	2019/08/16	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/08/16	2019/08/16	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/08/16	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 8)	1	N/A	2019/08/21	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/08/16	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/08/16	2019/08/19	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/08/16	2019/08/16	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 9)	1	N/A	2019/08/16	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	1	2019/08/16	2019/08/16	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/08/16	2019/08/16	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/08/16	CAM SOP-00417	SM 23 2130 B m



Your P.O. #: OL-762849
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/26
Report #: R5854041
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9M5773

Received: 2019/08/15, 09:30

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(6) "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).

(7) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(8) Radium-226 results have not been corrected for blanks.

(9) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your P.O. #: OL-762849
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/08/26
Report #: R5854041
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9M5773
Received: 2019/08/15, 09:30

Encryption Key

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

BV Labs 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

BV Labs Job #: B9M5773

Report Date: 2019/08/26

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KNG385		
Sampling Date		2019/08/12 06:15		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	6450	0.50	6288345
Metals				
Dissolved Aluminum (Al)	ug/L	188	60	6291712
Dissolved Antimony (Sb)	ug/L	<10	10	6291712
Dissolved Arsenic (As)	ug/L	12.4	2.0	6291712
Dissolved Barium (Ba)	ug/L	315	20	6291712
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	6291712
Dissolved Bismuth (Bi)	ug/L	<20	20	6291712
Dissolved Boron (B)	ug/L	<1000	1000	6291712
Dissolved Cadmium (Cd)	ug/L	<0.20	0.20	6291712
Dissolved Chromium (Cr)	ug/L	<20	20	6291712
Dissolved Cobalt (Co)	ug/L	4.5	4.0	6291712
Dissolved Copper (Cu)	ug/L	<4.0	4.0	6291712
Dissolved Iron (Fe)	ug/L	<100	100	6291712
Dissolved Lead (Pb)	ug/L	<4.0	4.0	6291712
Dissolved Lithium (Li)	ug/L	903	40	6291712
Dissolved Manganese (Mn)	ug/L	66	20	6291712
Dissolved Molybdenum (Mo)	ug/L	<20	20	6291712
Dissolved Nickel (Ni)	ug/L	37	20	6291712
Dissolved Selenium (Se)	ug/L	<2.0	2.0	6291712
Dissolved Silicon (Si)	ug/L	<2000	2000	6291712
Dissolved Silver (Ag)	ug/L	<0.40	0.40	6291712
Dissolved Strontium (Sr)	ug/L	33800	20	6291712
Dissolved Thallium (Tl)	ug/L	<0.20	0.20	6291712
Dissolved Tin (Sn)	ug/L	<100	100	6291712
Dissolved Titanium (Ti)	ug/L	<100	100	6291712
Dissolved Uranium (U)	ug/L	<2.0	2.0	6291712
Dissolved Vanadium (V)	ug/L	<100	100	6291712
Dissolved Zinc (Zn)	ug/L	<100	100	6291712
Dissolved Zirconium (Zr)	ug/L	<2.0	2.0	6291712
Dissolved Calcium (Ca)	mg/L	1450	1.0	6291711
Dissolved Magnesium (Mg)	mg/L	690	1.0	6291711
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9M5773

Report Date: 2019/08/26

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KNG385		
Sampling Date		2019/08/12 06:15		
	UNITS	MEL-26	RDL	QC Batch
Dissolved Potassium (K)	mg/L	215	1.0	6291711
Dissolved Sodium (Na)	mg/L	5420	1.0	6291711
Dissolved Sulphur (S)	mg/L	475	60	6291711
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: B9M5773

Report Date: 2019/08/26

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KNG385		
Sampling Date		2019/08/12 06:15		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	273	60	6291713
Total Antimony (Sb)	ug/L	<10	10	6291713
Total Arsenic (As)	ug/L	13.1	2.0	6291713
Total Barium (Ba)	ug/L	321	20	6291713
Total Beryllium (Be)	ug/L	<2.0	2.0	6291713
Total Bismuth (Bi)	ug/L	<20	20	6291713
Total Boron (B)	ug/L	<1000	1000	6291713
Total Cadmium (Cd)	ug/L	<0.20	0.20	6291713
Total Chromium (Cr)	ug/L	<20	20	6291713
Total Cobalt (Co)	ug/L	4.7	4.0	6291713
Total Copper (Cu)	ug/L	<10	10	6291713
Total Iron (Fe)	ug/L	215	200	6291713
Total Lead (Pb)	ug/L	<4.0	4.0	6291713
Total Lithium (Li)	ug/L	780	40	6291713
Total Manganese (Mn)	ug/L	92	20	6291713
Total Molybdenum (Mo)	ug/L	<20	20	6291713
Total Nickel (Ni)	ug/L	37	20	6291713
Total Selenium (Se)	ug/L	<2.0	2.0	6291713
Total Silicon (Si)	ug/L	<2000	2000	6291713
Total Silver (Ag)	ug/L	<0.40	0.40	6291713
Total Strontium (Sr)	ug/L	35000	20	6291713
Total Thallium (Tl)	ug/L	<0.20	0.20	6291713
Total Tin (Sn)	ug/L	<100	100	6291713
Total Titanium (Ti)	ug/L	<100	100	6291713
Total Uranium (U)	ug/L	<2.0	2.0	6291713
Total Vanadium (V)	ug/L	<100	100	6291713
Total Zinc (Zn)	ug/L	<100	100	6291713
Total Zirconium (Zr)	ug/L	<2.0	2.0	6291713
Total Calcium (Ca)	ug/L	1440000	1000	6288349
Total Magnesium (Mg)	ug/L	638000	1000	6288349
Total Potassium (K)	ug/L	208000	1000	6288349
Total Sodium (Na)	ug/L	4950000	1000	6288349
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: B9M5773

Report Date: 2019/08/26

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KNG385		
Sampling Date		2019/08/12 06:15		
	UNITS	MEL-26	RDL	QC Batch
Total Sulphur (S)	ug/L	454000	60000	6288349
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	6220000	500	6288348
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				

BUREAU
VERITAS

BV Labs Job #: B9M5773

Report Date: 2019/08/26

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

RESULTS OF ANALYSES OF WATER

BV Labs ID		KNG385			KNG385		
Sampling Date		2019/08/12 06:15			2019/08/12 06:15		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch

Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	91	1.0	6281848			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6281848			
Inorganics							
Total Ammonia-N	mg/L	4.6	0.050	6283592			
Conductivity	umho/cm	33000	1.0	6283784	34000	1.0	6283784
Free Cyanide (CN)	ug/L	<1.0 (1)	1.0	6290148			
Total Dissolved Solids	mg/L	22600	20	6284601			
Total Kjeldahl Nitrogen (TKN)	mg/L	11	5.0	6283752			
Dissolved Organic Carbon	mg/L	20	0.50	6283901			
Total Organic Carbon (TOC)	mg/L	20	0.50	6283745			
Orthophosphate (P)	mg/L	<0.010	0.010	6283779			
Dissolved Oxygen	mg/L	9.93		6284385			
pH	pH	7.69		6283785	7.73		6283785
Total Phosphorus	mg/L	0.078	0.040	6283708			
Reactive Silica (SiO ₂)	mg/L	1.7 (2)	0.50	6290149	1.8	0.50	6290149
Total Suspended Solids	mg/L	22	1	6283706			
Dissolved Sulphate (SO ₄)	mg/L	1200	5.0	6283777			
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6284036			
Turbidity	NTU	0.2	0.1	6283731			
WAD Cyanide (Free)	mg/L	0.017	0.0010	6284037			
Alkalinity (Total as CaCO ₃)	mg/L	91	1.0	6283781	92	1.0	6283781
Dissolved Chloride (Cl ⁻)	mg/L	12000	120	6283776			
Nitrite (N)	mg/L	0.087	0.010	6283765			
Nitrate (N)	mg/L	75.7	1.0	6283765			
Nitrate + Nitrite (N)	mg/L	75.8	1.0	6283765			
RADIONUCLIDE							
Radium-226	Bq/L	0.14	0.0050	6287025			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W (2) Detection limits raised due to matrix interference.							



BUREAU
VERITAS

BV Labs Job #: B9M5773

Report Date: 2019/08/26

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KNG385		
Sampling Date		2019/08/12 06:15		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6283696
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6283697
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9M5773

Report Date: 2019/08/26

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

TEST SUMMARY

BV Labs ID: KNG385

Sample ID: MEL-26

Matrix: Water

Collected: 2019/08/12

Shipped:

Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6283781	N/A	2019/08/16	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6281848	N/A	2019/08/16	Automated Statchk
Chloride by Automated Colourimetry	KONE	6283776	N/A	2019/08/16	Deonarine Ramnarine
Conductivity	AT	6283784	N/A	2019/08/16	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6284037	N/A	2019/08/16	Gnana Thomas
Total Cyanide	SKAL/CN	6284036	2019/08/16	2019/08/16	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6283901	N/A	2019/08/16	Mandeep Kaur
Dissolved Oxygen	DO	6284385	2019/08/16	2019/08/16	Nusrat Naz
Dissolved Mercury (low level)	CV/AA	6283697	2019/08/16	2019/08/16	Ron Morrison
Mercury (low level)	CV/AA	6283696	2019/08/16	2019/08/16	Ron Morrison
Cyanide (Free)	SPEC	6290148	2019/08/20	2019/08/20	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6288348	N/A	2019/08/20	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6288345	N/A	2019/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6291711	N/A	2019/08/20	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6291712	N/A	2019/08/20	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6288349	2019/08/20	2019/08/20	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6291713	2019/08/20	2019/08/20	Vanessa Chan
Silica (Reactive)	KONE	6290149	N/A	2019/08/20	Zafar Iqbal
Total Ammonia-N	LACH/NH ₄	6283592	N/A	2019/08/16	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6283765	N/A	2019/08/16	Chandra Nandlal
pH	AT	6283785	2019/08/16	2019/08/16	Surinder Rai
Orthophosphate	KONE	6283779	N/A	2019/08/16	Alina Dobreanu
Radium-226 Low Level	AS	6287025	N/A	2019/08/21	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6283777	N/A	2019/08/16	Alina Dobreanu
Total Dissolved Solids	BAL	6284601	2019/08/16	2019/08/19	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6283752	2019/08/16	2019/08/16	Shivani Shivani
Total Organic Carbon (TOC)	TOCV/NDIR	6283745	N/A	2019/08/16	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6283708	2019/08/16	2019/08/16	Nimarta Singh
Low Level Total Suspended Solids	BAL	6283706	2019/08/16	2019/08/16	Xinyue (Sarah) Hou
Turbidity	AT	6283731	N/A	2019/08/16	Kazzandra Adeva

BV Labs ID: KNG385 Dup

Sample ID: MEL-26

Matrix: Water

Collected: 2019/08/12

Shipped:

Received: 2019/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6283781	N/A	2019/08/16	Surinder Rai
Conductivity	AT	6283784	N/A	2019/08/16	Surinder Rai
Silica (Reactive)	KONE	6290149	N/A	2019/08/20	Zafar Iqbal
pH	AT	6283785	2019/08/16	2019/08/16	Surinder Rai



GENERAL COMMENTS

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

Package 1	17.0°C

Sample KNG385 [MEL-26] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

TOC < DOC: Both values fall within the method uncertainty for duplicates and are likely equivalent.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Sample KNG385 [MEL-26] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Sample KNG385 [MEL-26] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required.

Results relate only to the items tested.

BUREAU
VERITAS

BV Labs Job #: B9M5773

Report Date: 2019/08/26

QUALITY ASSURANCE REPORT

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

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
6283592	Total Ammonia-N	2019/08/16	99	75 - 125	102	80 - 120	<0.050	mg/L	NC	20		
6283696	Mercury (Hg)	2019/08/16	101	75 - 125	101	80 - 120	<0.00001	mg/L	NC	20		
6283697	Dissolved Mercury (Hg)	2019/08/16	84	75 - 125	103	80 - 120	<0.00001	mg/L	NC	20		
6283706	Total Suspended Solids	2019/08/16					<1	mg/L	NC	25	98	85 - 115
6283708	Total Phosphorus	2019/08/16	98	80 - 120	100	80 - 120	<0.020	mg/L	NC	20	101	80 - 120
6283731	Turbidity	2019/08/16			95	85 - 115	<0.1	NTU	2.8	20		
6283745	Total Organic Carbon (TOC)	2019/08/16	89	80 - 120	98	80 - 120	<0.50	mg/L	1.1	20		
6283752	Total Kjeldahl Nitrogen (TKN)	2019/08/16	91	80 - 120	99	80 - 120	<0.10	mg/L	NC (1)	20	103	80 - 120
6283765	Nitrate (N)	2019/08/16	NC	80 - 120	102	80 - 120	<0.10	mg/L	0.84	20		
6283765	Nitrite (N)	2019/08/16	107	80 - 120	107	80 - 120	<0.010	mg/L	3.4	20		
6283776	Dissolved Chloride (Cl-)	2019/08/16	NC	80 - 120	100	80 - 120	<1.0	mg/L	1.6	20		
6283777	Dissolved Sulphate (SO4)	2019/08/16	NC	75 - 125	101	80 - 120	<1.0	mg/L	0.044	20		
6283779	Orthophosphate (P)	2019/08/16	101	75 - 125	101	80 - 120	<0.010	mg/L	18	25		
6283781	Alkalinity (Total as CaCO3)	2019/08/16			96	85 - 115	<1.0	mg/L	0.53	20		
6283784	Conductivity	2019/08/16			101	85 - 115	<1.0	umho/cm	0.65	25		
6283785	pH	2019/08/16			102	98 - 103			0.57	N/A		
6283901	Dissolved Organic Carbon	2019/08/16	89	80 - 120	98	80 - 120	<0.50	mg/L	0.33	20		
6284036	Total Cyanide (CN)	2019/08/16	NC	80 - 120	99	80 - 120	<0.0050	mg/L	4.4	20		
6284037	WAD Cyanide (Free)	2019/08/16	67 (2)	80 - 120	98	80 - 120	<0.0010	mg/L	16	20		
6284601	Total Dissolved Solids	2019/08/19					<10	mg/L	0.98	25	100	90 - 110
6287025	Radium-226	2019/08/21			100	85 - 115	<0.0050	Bq/L	NC	N/A		
6290148	Free Cyanide (CN)	2019/08/20	93	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
6290149	Reactive Silica (SiO2)	2019/08/20	98	80 - 120	101	80 - 120	<0.050	mg/L	5.8	20		
6291712	Dissolved Aluminum (Al)	2019/08/20	99	80 - 120	104	80 - 120	<3.0	ug/L				
6291712	Dissolved Antimony (Sb)	2019/08/20	101	80 - 120	101	80 - 120	<0.50	ug/L				
6291712	Dissolved Arsenic (As)	2019/08/20	104	80 - 120	102	80 - 120	<0.10	ug/L				
6291712	Dissolved Barium (Ba)	2019/08/20	99	80 - 120	101	80 - 120	<1.0	ug/L				
6291712	Dissolved Beryllium (Be)	2019/08/20	101	80 - 120	100	80 - 120	<0.10	ug/L				
6291712	Dissolved Bismuth (Bi)	2019/08/20	67 (2)	80 - 120	104	80 - 120	<1.0	ug/L				
6291712	Dissolved Boron (B)	2019/08/20	100	80 - 120	102	80 - 120	<50	ug/L				
6291712	Dissolved Cadmium (Cd)	2019/08/20	103	80 - 120	103	80 - 120	<0.010	ug/L				

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VERITAS

BV Labs Job #: B9M5773

Report Date: 2019/08/26

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

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
6291712	Dissolved Chromium (Cr)	2019/08/20	91	80 - 120	98	80 - 120	<1.0	ug/L				
6291712	Dissolved Cobalt (Co)	2019/08/20	94	80 - 120	101	80 - 120	<0.20	ug/L				
6291712	Dissolved Copper (Cu)	2019/08/20	91	80 - 120	97	80 - 120	<0.20	ug/L				
6291712	Dissolved Iron (Fe)	2019/08/20	99	80 - 120	105	80 - 120	<5.0	ug/L				
6291712	Dissolved Lead (Pb)	2019/08/20	99	80 - 120	105	80 - 120	<0.20	ug/L				
6291712	Dissolved Lithium (Li)	2019/08/20	105	80 - 120	106	80 - 120	<2.0	ug/L				
6291712	Dissolved Manganese (Mn)	2019/08/20	92	80 - 120	98	80 - 120	<1.0	ug/L				
6291712	Dissolved Molybdenum (Mo)	2019/08/20	90	80 - 120	101	80 - 120	<1.0	ug/L				
6291712	Dissolved Nickel (Ni)	2019/08/20	95	80 - 120	103	80 - 120	<1.0	ug/L				
6291712	Dissolved Selenium (Se)	2019/08/20	104	80 - 120	103	80 - 120	<0.10	ug/L				
6291712	Dissolved Silicon (Si)	2019/08/20	103	80 - 120	105	80 - 120	<100	ug/L				
6291712	Dissolved Silver (Ag)	2019/08/20	81	80 - 120	102	80 - 120	<0.020	ug/L				
6291712	Dissolved Strontium (Sr)	2019/08/20	97	80 - 120	98	80 - 120	<1.0	ug/L				
6291712	Dissolved Thallium (Tl)	2019/08/20	99	80 - 120	103	80 - 120	<0.010	ug/L				
6291712	Dissolved Tin (Sn)	2019/08/20	99	80 - 120	104	80 - 120	<5.0	ug/L				
6291712	Dissolved Titanium (Ti)	2019/08/20	97	80 - 120	101	80 - 120	<5.0	ug/L				
6291712	Dissolved Uranium (U)	2019/08/20	99	80 - 120	106	80 - 120	<0.10	ug/L				
6291712	Dissolved Vanadium (V)	2019/08/20	92	80 - 120	98	80 - 120	<5.0	ug/L				
6291712	Dissolved Zinc (Zn)	2019/08/20	109	80 - 120	106	80 - 120	<5.0	ug/L				
6291712	Dissolved Zirconium (Zr)	2019/08/20	100	80 - 120	103	80 - 120	<0.10	ug/L				
6291713	Total Aluminum (Al)	2019/08/20	101	80 - 120	101	80 - 120	<3.0	ug/L	1.8	20		
6291713	Total Antimony (Sb)	2019/08/20	101	80 - 120	101	80 - 120	<0.50	ug/L	1.4	20		
6291713	Total Arsenic (As)	2019/08/20	104	80 - 120	100	80 - 120	<0.10	ug/L	12	20		
6291713	Total Barium (Ba)	2019/08/20	101	80 - 120	103	80 - 120	<1.0	ug/L	1.2	20		
6291713	Total Beryllium (Be)	2019/08/20	94	80 - 120	95	80 - 120	<0.10	ug/L	NC	20		
6291713	Total Bismuth (Bi)	2019/08/20	99	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
6291713	Total Boron (B)	2019/08/20	96	80 - 120	97	80 - 120	<50	ug/L	NC	20		
6291713	Total Cadmium (Cd)	2019/08/20	99	80 - 120	99	80 - 120	<0.010	ug/L	NC	20		
6291713	Total Chromium (Cr)	2019/08/20	99	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
6291713	Total Cobalt (Co)	2019/08/20	95	80 - 120	98	80 - 120	<0.20	ug/L	NC	20		
6291713	Total Copper (Cu)	2019/08/20	94	80 - 120	99	80 - 120	<0.50	ug/L	0.68	20		
6291713	Total Iron (Fe)	2019/08/20	96	80 - 120	102	80 - 120	<10	ug/L	NC	20		



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VERITAS

BV Labs Job #: B9M5773

Report Date: 2019/08/26

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

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
6291713	Total Lead (Pb)	2019/08/20	102	80 - 120	103	80 - 120	<0.20	ug/L	NC	20		
6291713	Total Lithium (Li)	2019/08/20	94	80 - 120	95	80 - 120	<2.0	ug/L	NC	20		
6291713	Total Manganese (Mn)	2019/08/20	98	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
6291713	Total Molybdenum (Mo)	2019/08/20	107	80 - 120	99	80 - 120	<1.0	ug/L	2.7	20		
6291713	Total Nickel (Ni)	2019/08/20	95	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
6291713	Total Selenium (Se)	2019/08/20	105	80 - 120	101	80 - 120	<0.10	ug/L	3.5	20		
6291713	Total Silicon (Si)	2019/08/20	97	80 - 120	102	80 - 120	<100	ug/L	0.18	20		
6291713	Total Silver (Ag)	2019/08/20	98	80 - 120	98	80 - 120	<0.020	ug/L	NC	20		
6291713	Total Strontium (Sr)	2019/08/20	NC	80 - 120	101	80 - 120	<1.0	ug/L	0.39	20		
6291713	Total Thallium (Tl)	2019/08/20	102	80 - 120	102	80 - 120	<0.010	ug/L	NC	20		
6291713	Total Tin (Sn)	2019/08/20	100	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
6291713	Total Titanium (Ti)	2019/08/20	102	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
6291713	Total Uranium (U)	2019/08/20	105	80 - 120	102	80 - 120	<0.10	ug/L	0.91	20		
6291713	Total Vanadium (V)	2019/08/20	101	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
6291713	Total Zinc (Zn)	2019/08/20	93	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
6291713	Total Zirconium (Zr)	2019/08/20	108	80 - 120	103	80 - 120	<0.10	ug/L	NC	20		

N/A = Not Applicable

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.

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 <= 2x RDL).

(1) Due to a high concentration of NO_x, the sample required dilution. The detection limit was adjusted accordingly.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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VERITAS

BV Labs Job #: B9M5773

Report Date: 2019/08/26

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Harry (Peng) Liang, Senior Analyst

Robert Allen, Scientific Specialist

Rob Reinert, B.Sc., Scientific Specialist

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VERITAS

BV Labs Job #: B9M5773

Report Date: 2019/08/26

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your Project #: MB9N3354
Site Location: MELIADINE
Your C.O.C. #: B9N3354-M060-01-01

Attention: Alisha Williamson

Agnico-Eagle
Meliadine
Rankin Inlet, NU
Canada X0C 0G0

Report Date: 2019/08/28
Report #: R2773554
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B970540

Received: 2019/08/24, 10:40

Sample Matrix: Water
Samples Received: 3

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Chloride/Sulphate by Auto Colourimetry	3	N/A	2019/08/27	AB SOP-00020 / AB SOP-00018	SM23-4500-Cl/SO4-E m
Conductivity @25C	3	N/A	2019/08/28	AB SOP-00005	SM 23 2510 B m
Elements by ICP-Dissolved-Lab Filtered (1)	3	N/A	2019/08/27	AB SOP-00042	EPA 6010d R5 m
pH @25°C (2)	3	N/A	2019/08/26	AB SOP-00005	SM 23 4500-H+B m
Sodium Adsorption Ratio	3	N/A	2019/08/28		Auto Calc
Total Dissolved Solids (Calc. from EC)	3	N/A	2019/08/28		Auto Calc

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(2) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.



Your Project #: MB9N3354
Site Location: MELIADINE
Your C.O.C. #: B9N3354-M060-01-01

Attention: Alisha Williamson

Agnico-Eagle
Meliadine
Rankin Inlet, NU
Canada X0C 0G0

Report Date: 2019/08/28
Report #: R2773554
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B970540
Received: 2019/08/24, 10:40

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Solutions, Western Canada Customer Experience Team
Email: customersolutionswest@bvlabs.com
Phone# (403) 291-3077

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VERITAS

BV Labs Job #: B970540

Report Date: 2019/08/28

Agnico-Eagle

Client Project #: MB9N3354

Site Location: MELIADINE

Sampler Initials: BH

SALINITY WATER (WATER)

BV Labs ID		WI9819			WI9819		
Sampling Date		2019/08/19 10:45			2019/08/19 10:45		
COC Number		B9N3354-M060-01-01			B9N3354-M060-01-01		
	UNITS	MEL-26 (KOV038)	RDL	QC Batch	MEL-26 (KOV038) Lab-Dup	RDL	QC Batch
Calculated Parameters							
Sodium Adsorption Ratio	N/A	38	0.10	9561577			
Total dissolved solids (calc., EC)	mg/L	46000	10	9561781			
Misc. Inorganics							
Conductivity	uS/cm	46000	2.0	9562929			
pH	pH	8.04	N/A	9562918			
Anions							
Dissolved Chloride (Cl)	mg/L	14000 (1)	100	9564057	17000	100	9564057
Dissolved Sulphate (SO4)	mg/L	1800 (1)	20	9564057	1800	20	9564057
Lab Filtered Elements							
Dissolved Calcium (Ca)	mg/L	1800 (1)	6.0	9564084			
Dissolved Magnesium (Mg)	mg/L	1100 (1)	4.0	9564084			
Dissolved Potassium (K)	mg/L	310	0.30	9564084			
Dissolved Sodium (Na)	mg/L	8200 (1)	10	9564084			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Detection limits raised due to dilution to bring analyte within the calibrated range.							



BUREAU
VERITAS

BV Labs Job #: B970540
Report Date: 2019/08/28

Agnico-Eagle
Client Project #: MB9N3354
Site Location: MELIADINE
Sampler Initials: BH

SALINITY WATER (WATER)

BV Labs ID		WI9820		WI9821		
Sampling Date		2019/08/19 10:55		2019/08/19 11:05		
COC Number		B9N3354-M060-01-01		B9N3354-M060-01-01		
	UNITS	MEL-26-DUP (KOV039)	RDL	MEL-26-FB (KOV040)	RDL	QC Batch
Calculated Parameters						
Sodium Adsorption Ratio	N/A	38	0.10	NC	0.10	9561577
Total dissolved solids (calc., EC)	mg/L	46000	10	<10	10	9561781
Misc. Inorganics						
Conductivity	uS/cm	46000	2.0	<2.0	2.0	9562929
pH	pH	8.01	N/A	7.84	N/A	9562918
Anions						
Dissolved Chloride (Cl)	mg/L	15000 (1)	100	<1.0	1.0	9564057
Dissolved Sulphate (SO4)	mg/L	1800 (1)	20	<1.0	1.0	9564057
Lab Filtered Elements						
Dissolved Calcium (Ca)	mg/L	1800 (1)	6.0	<0.30	0.30	9564084
Dissolved Magnesium (Mg)	mg/L	1100 (1)	4.0	<0.20	0.20	9564084
Dissolved Potassium (K)	mg/L	300	0.30	<0.30	0.30	9564084
Dissolved Sodium (Na)	mg/L	8200 (1)	10	<0.50	0.50	9564084
RDL = Reportable Detection Limit						
N/A = Not Applicable						
(1) Detection limits raised due to dilution to bring analyte within the calibrated range.						

BUREAU
VERITAS

BV Labs Job #: B970540
Report Date: 2019/08/28

Agnico-Eagle
Client Project #: MB9N3354
Site Location: MELIADINE
Sampler Initials: BH

TEST SUMMARY

BV Labs ID: WI9819
Sample ID: MEL-26 (KOV038)
Matrix: Water

Collected: 2019/08/19
Shipped:
Received: 2019/08/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride/Sulphate by Auto Colourimetry	KONE	9564057	N/A	2019/08/27	Zafar Iqbal
Conductivity @25C	COND	9562929	N/A	2019/08/28	Linda Zhang
Elements by ICP-Dissolved-Lab Filtered	ICPA	9564084	N/A	2019/08/27	Ahmed Loai
pH @25°C	AT/ALK	9562918	N/A	2019/08/26	Linda Zhang
Sodium Adsorption Ratio	CALC	9561577	N/A	2019/08/28	Automated Statchk
Total Dissolved Solids (Calc. from EC)	CALC	9561781	N/A	2019/08/28	Automated Statchk

BV Labs ID: WI9819 Dup
Sample ID: MEL-26 (KOV038)
Matrix: Water

Collected: 2019/08/19
Shipped:
Received: 2019/08/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride/Sulphate by Auto Colourimetry	KONE	9564057	N/A	2019/08/27	Zafar Iqbal

BV Labs ID: WI9820
Sample ID: MEL-26-DUP (KOV039)
Matrix: Water

Collected: 2019/08/19
Shipped:
Received: 2019/08/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride/Sulphate by Auto Colourimetry	KONE	9564057	N/A	2019/08/27	Zafar Iqbal
Conductivity @25C	COND	9562929	N/A	2019/08/28	Linda Zhang
Elements by ICP-Dissolved-Lab Filtered	ICPA	9564084	N/A	2019/08/27	Ahmed Loai
pH @25°C	AT/ALK	9562918	N/A	2019/08/26	Linda Zhang
Sodium Adsorption Ratio	CALC	9561577	N/A	2019/08/28	Automated Statchk
Total Dissolved Solids (Calc. from EC)	CALC	9561781	N/A	2019/08/28	Automated Statchk

BV Labs ID: WI9821
Sample ID: MEL-26-FB (KOV040)
Matrix: Water

Collected: 2019/08/19
Shipped:
Received: 2019/08/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride/Sulphate by Auto Colourimetry	KONE	9564057	N/A	2019/08/27	Zafar Iqbal
Conductivity @25C	COND	9562929	N/A	2019/08/28	Linda Zhang
Elements by ICP-Dissolved-Lab Filtered	ICPA	9564084	N/A	2019/08/27	Ahmed Loai
pH @25°C	AT/ALK	9562918	N/A	2019/08/26	Linda Zhang
Sodium Adsorption Ratio	CALC	9561577	N/A	2019/08/28	Automated Statchk
Total Dissolved Solids (Calc. from EC)	CALC	9561781	N/A	2019/08/28	Report Automation Engine



BUREAU
VERITAS

BV Labs Job #: B970540
Report Date: 2019/08/28

Agnico-Eagle
Client Project #: MB9N3354
Site Location: MELIADINE
Sampler Initials: BH

GENERAL COMMENTS

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

Package 1	11.3°C
Package 2	13.7°C

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B970540

Report Date: 2019/08/28

QUALITY ASSURANCE REPORT

Agnico-Eagle

Client Project #: MB9N3354

Site Location: MELIADINE

Sampler Initials: BH

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9562918	pH	2019/08/26			100	97 - 103			0.72	N/A
9562929	Conductivity	2019/08/26			99	90 - 110	<2.0	uS/cm	0	10
9564057	Dissolved Chloride (Cl)	2019/08/27	NC	80 - 120	100	80 - 120	<1.0	mg/L	14	20
9564057	Dissolved Sulphate (SO ₄)	2019/08/27	NC	80 - 120	99	80 - 120	<1.0	mg/L	3.1	20
9564084	Dissolved Calcium (Ca)	2019/08/27	NC	80 - 120	91	80 - 120	<0.30	mg/L	0.28	20
9564084	Dissolved Magnesium (Mg)	2019/08/27	NC	80 - 120	98	80 - 120	<0.20	mg/L	0.14	20
9564084	Dissolved Potassium (K)	2019/08/27	NC	80 - 120	97	80 - 120	<0.30	mg/L	1.0	20
9564084	Dissolved Sodium (Na)	2019/08/27	NC	80 - 120	100	80 - 120	<0.50	mg/L	0.96	20

N/A = Not Applicable

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.

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.

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)



BUREAU
VERITAS

BV Labs Job #: B970540
Report Date: 2019/08/28

Agnico-Eagle
Client Project #: MB9N3354
Site Location: MELIADINE
Sampler Initials: BH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

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Your P.O. #: OL-762849
 Site#: 62°48'01.99" 92°06'00.05"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/03
 Report #: R5864402
 Version: 3 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9N3354

Received: 2019/08/22, 11:45

Sample Matrix: Water
 # Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	3	N/A	2019/08/24	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	3	N/A	2019/08/26	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	3	N/A	2019/08/27	CAM SOP-00463	SM 4500-Cl E m
Conductivity (1)	3	N/A	2019/08/24	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	3	N/A	2019/08/23	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	3	2019/08/23	2019/08/23	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	3	N/A	2019/08/23	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	3	2019/08/23	2019/08/23	CAM SOP-00427	SM 23 4500 O G m
Dissolved Mercury (low level) (1)	3	2019/08/23	2019/08/23	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	3	2019/08/23	2019/08/23	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	3	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 6)	3	N/A	2019/08/27	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	3	N/A	2019/08/27	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	3	N/A	2019/08/27	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	3	N/A	2019/08/26	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	3	2019/08/22	2019/08/27	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	2	2019/08/26	2019/08/26	BBY7SOP-00003/02	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/08/26	2019/08/27	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	3	N/A	2019/08/26	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	3	N/A	2019/08/26	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 7)	3	N/A	2019/08/25	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	3	2019/08/23	2019/08/24	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	3	N/A	2019/08/26	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 8)	3	N/A	2019/08/29	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	3	N/A	2019/08/26	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	3	2019/08/24	2019/08/26	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	3	2019/08/23	2019/08/23	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 9)	3	N/A	2019/08/23	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	3	2019/08/23	2019/08/24	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	3	2019/08/23	2019/08/23	CAM SOP-00428	SM 23 2540D m



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE

Attention: Reporting

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

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CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9N3354

Received: 2019/08/22, 11:45

Sample Matrix: Water
Samples Received: 3

Analyses	Date		Date Analyzed	Laboratory Method	Reference
	Quantity	Extracted			
Turbidity (1)	3	N/A	2019/08/23	CAM SOP-00417	SM 23 2130 B m
Low Level Volatile Suspended Solids (1)	3	2019/08/23	2019/08/26	CAM SOP-00428	SM 23 2540

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga
- (2) This test was performed by Campo to Calgary - Offsite
- (3) This test was performed by Campo to Burnaby - Offsite
- (4) This test was performed by Bureau Veritas Laboratories Kitimat
- (5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
- (6) "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).
- (7) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (8) Radium-226 results have not been corrected for blanks.
- (9) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
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Encryption Key

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

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BV Labs 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.

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BV Labs Job #: B9N3354

Report Date: 2019/09/03

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KOV038	KOV039		KOV040		
Sampling Date		2019/08/19 10:45	2019/08/19 10:55		2019/08/19 11:05		
	UNITS	MEL-26	MEL-26-DUP	RDL	MEL-26-FB	RDL	QC Batch
Calculated Parameters							
Dissolved Hardness (CaCO ₃)	mg/L	8740	8580	0.50	<0.50	0.50	6295409
Metals							
Dissolved Aluminum (Al)	ug/L	<150	<150	150	<3.0	3.0	6302280
Dissolved Antimony (Sb)	ug/L	<25	<25	25	<0.50	0.50	6302280
Dissolved Arsenic (As)	ug/L	74.8	72.2	5.0	<0.10	0.10	6302280
Dissolved Barium (Ba)	ug/L	343	335	50	<1.0	1.0	6302280
Dissolved Beryllium (Be)	ug/L	<5.0	<5.0	5.0	<0.10	0.10	6302280
Dissolved Bismuth (Bi)	ug/L	<50	<50	50	<1.0	1.0	6302280
Dissolved Boron (B)	ug/L	<2500	<2500	2500	<50	50	6302280
Dissolved Cadmium (Cd)	ug/L	<0.50	<0.50	0.50	<0.010	0.010	6302280
Dissolved Chromium (Cr)	ug/L	<50	<50	50	<1.0	1.0	6302280
Dissolved Cobalt (Co)	ug/L	<10	<10	10	<0.20	0.20	6302280
Dissolved Copper (Cu)	ug/L	<10	18	10	<0.20	0.20	6302280
Dissolved Iron (Fe)	ug/L	<250	<250	250	<5.0	5.0	6302280
Dissolved Lead (Pb)	ug/L	<10	<10	10	<0.20	0.20	6302280
Dissolved Lithium (Li)	ug/L	911	920	100	<2.0	2.0	6302280
Dissolved Manganese (Mn)	ug/L	299	289	50	<1.0	1.0	6302280
Dissolved Molybdenum (Mo)	ug/L	<50	<50	50	<1.0	1.0	6302280
Dissolved Nickel (Ni)	ug/L	64	67	50	<1.0	1.0	6302280
Dissolved Selenium (Se)	ug/L	<5.0	<5.0	5.0	<0.10	0.10	6302280
Dissolved Silicon (Si)	ug/L	<5000	<5000	5000	<100	100	6302280
Dissolved Silver (Ag)	ug/L	<1.0	<1.0	1.0	<0.020	0.020	6302280
Dissolved Strontium (Sr)	ug/L	40900	39700	50	<1.0	1.0	6302280
Dissolved Thallium (Tl)	ug/L	<0.50	<0.50	0.50	<0.010	0.010	6302280
Dissolved Tin (Sn)	ug/L	<250	<250	250	<5.0	5.0	6302280
Dissolved Titanium (Ti)	ug/L	<250	<250	250	<5.0	5.0	6302280
Dissolved Uranium (U)	ug/L	6.8	6.8	5.0	<0.10	0.10	6302280
Dissolved Vanadium (V)	ug/L	<250	<250	250	<5.0	5.0	6302280
Dissolved Zinc (Zn)	ug/L	<250	<250	250	<5.0	5.0	6302280
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	5.0	<0.10	0.10	6302280
Dissolved Calcium (Ca)	mg/L	1760	1730	2.5	<0.050	0.050	6295410
Dissolved Magnesium (Mg)	mg/L	1060	1030	2.5	<0.050	0.050	6295410
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



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BV Labs Job #: B9N3354

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Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KOV038	KOV039		KOV040		
Sampling Date		2019/08/19 10:45	2019/08/19 10:55		2019/08/19 11:05		
	UNITS	MEL-26	MEL-26-DUP	RDL	MEL-26-FB	RDL	QC Batch
Dissolved Potassium (K)	mg/L	310	303	2.5	<0.050	0.050	6295410
Dissolved Sodium (Na)	mg/L	7960	7960	2.5	<0.050	0.050	6295410
Dissolved Sulphur (S)	mg/L	712	684	150	<3.0	3.0	6295410
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



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BV Labs Job #: B9N3354
Report Date: 2019/09/03

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KOV038		KOV039		KOV040		
Sampling Date		2019/08/19 10:45		2019/08/19 10:55		2019/08/19 11:05		
	UNITS	MEL-26	QC Batch	MEL-26-DUP	RDL	MEL-26-FB	RDL	QC Batch
Metals								
Total Aluminum (Al)	ug/L	268	6302282	286	150	<3.0	3.0	6302282
Total Antimony (Sb)	ug/L	<25	6302282	<25	25	<0.50	0.50	6302282
Total Arsenic (As)	ug/L	75.0	6302282	76.4	5.0	<0.10	0.10	6302282
Total Barium (Ba)	ug/L	331	6302282	325	50	<1.0	1.0	6302282
Total Beryllium (Be)	ug/L	<5.0	6302282	<5.0	5.0	<0.10	0.10	6302282
Total Bismuth (Bi)	ug/L	<50	6302282	<50	50	<1.0	1.0	6302282
Total Boron (B)	ug/L	<2500	6302282	<2500	2500	<50	50	6302282
Total Cadmium (Cd)	ug/L	<0.50	6302282	<0.50	0.50	<0.010	0.010	6302282
Total Chromium (Cr)	ug/L	<50	6302282	<50	50	<1.0	1.0	6302282
Total Cobalt (Co)	ug/L	<10	6302282	<10	10	<0.20	0.20	6302282
Total Copper (Cu)	ug/L	<25	6302282	<25	25	14.4	0.50	6302282
Total Iron (Fe)	ug/L	<500	6302282	<500	500	<10	10	6302282
Total Lead (Pb)	ug/L	<10	6302282	<10	10	<0.20	0.20	6302282
Total Lithium (Li)	ug/L	885	6302282	915	100	<2.0	2.0	6302282
Total Manganese (Mn)	ug/L	284	6302282	285	50	<1.0	1.0	6302282
Total Molybdenum (Mo)	ug/L	<50	6302282	<50	50	<1.0	1.0	6302282
Total Nickel (Ni)	ug/L	65	6302282	61	50	<1.0	1.0	6302282
Total Selenium (Se)	ug/L	<5.0	6302282	<5.0	5.0	<0.10	0.10	6302282
Total Silicon (Si)	ug/L	<5000	6302282	<5000	5000	<100	100	6302282
Total Silver (Ag)	ug/L	<1.0	6302282	<1.0	1.0	<0.020	0.020	6302282
Total Strontium (Sr)	ug/L	38900	6302282	38700	50	<1.0	1.0	6302282
Total Thallium (Tl)	ug/L	<0.50	6302282	<0.50	0.50	<0.010	0.010	6302282
Total Tin (Sn)	ug/L	<250	6302282	<250	250	<5.0	5.0	6302282
Total Titanium (Ti)	ug/L	<250	6302282	<250	250	<5.0	5.0	6302282
Total Uranium (U)	ug/L	7.0	6302282	7.0	5.0	<0.10	0.10	6302282
Total Vanadium (V)	ug/L	<250	6302282	<250	250	<5.0	5.0	6302282
Total Zinc (Zn)	ug/L	<250	6302282	<250	250	<5.0	5.0	6302282
Total Zirconium (Zr)	ug/L	<5.0	6302282	<5.0	5.0	<0.10	0.10	6302282
Total Calcium (Ca)	ug/L	1670000	6299778	1680000	2500	<50	50	6299778
Total Magnesium (Mg)	ug/L	976000	6299778	997000	2500	<50	50	6299778
Total Potassium (K)	ug/L	292000	6299778	296000	2500	<50	50	6299778
Total Sodium (Na)	ug/L	7440000	6299778	7500000	2500	<50	50	6299778
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



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VERITAS

BV Labs Job #: B9N3354

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Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KOV038		KOV039		KOV040		
Sampling Date		2019/08/19 10:45		2019/08/19 10:55		2019/08/19 11:05		
	UNITS	MEL-26	QC Batch	MEL-26-DUP	RDL	MEL-26-FB	RDL	QC Batch
Total Sulphur (S)	ug/L	672000	6299778	681000	150000	<3000	3000	6299778
Calculated Parameters								
Total Hardness (CaCO ₃)	ug/L	8190000	6302281	8310000	500	<500	500	6297656
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



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VERITAS

BV Labs Job #: B9N3354
Report Date: 2019/09/03

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

RESULTS OF ANALYSES OF WATER

BV Labs ID		KOV038			KOV038			KOV039		
Sampling Date		2019/08/19 10:45			2019/08/19 10:45			2019/08/19 10:55		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch	MEL-26-DUP	RDL	QC Batch

Calculated Parameters

Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	130	1.0	6293714				130	1.0	6293714
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	1.2	1.0	6293714				1.3	1.0	6293714

Inorganics

Total Ammonia-N	mg/L	39	0.50	6296387				38	0.50	6296387
Conductivity	umho/cm	46000	1.0	6296605				46000	1.0	6296605
Free Cyanide (CN)	ug/L	11 (1)	1.0	6305161	14	1.0	6305161	9.7 (1)	1.0	6305161
Total Dissolved Solids	mg/L	32000	20	6297229				31900	20	6297229
Total Kjeldahl Nitrogen (TKN)	mg/L	46	5.0	6296377				46	5.0	6296377
Dissolved Organic Carbon	mg/L	29	0.50	6296134				29	0.50	6296134
Total Organic Carbon (TOC)	mg/L	31	0.50	6296479				31	0.50	6296479
Orthophosphate (P)	mg/L	0.024	0.010	6296802				0.023	0.010	6296802
Dissolved Oxygen	mg/L	10.5		6296489				10.2		6296489
pH	pH	8.00		6296604				8.01		6296604
Total Phosphorus	mg/L	0.25	0.020	6296322				0.26	0.020	6296322
Reactive Silica (SiO ₂)	mg/L	8.1 (2)	0.10	6304154				4.1 (3)	0.50	6304154
Total Suspended Solids	mg/L	53	2	6296023	56	2	6296023	33	1	6296023
Dissolved Sulphate (SO ₄)	mg/L	1700	5.0	6296801				1700	5.0	6296801
Total Cyanide (CN)	mg/L	0.20	0.010	6296302	0.21	0.010	6296302	0.13	0.025	6296302
Turbidity	NTU	7.5	0.1	6295148				7.4	0.1	6295148
Volatile Suspended Solids	mg/L	24	2	6296026	26	2	6296026	16	1	6296026
WAD Cyanide (Free)	mg/L	0.035	0.0010	6296308	0.039	0.0010	6296308	0.037	0.0010	6296308
Alkalinity (Total as CaCO ₃)	mg/L	130	1.0	6296603				140	1.0	6296603
Dissolved Chloride (Cl ⁻)	mg/L	17000	120	6296793				17000	120	6296793
Nitrite (N)	mg/L	2.04	0.010	6296597	2.04	0.010	6296597	2.07	0.010	6296597
Nitrate (N)	mg/L	79.8	2.0	6296597	78.7	2.0	6296597	78.2	2.0	6296597
Nitrate + Nitrite (N)	mg/L	81.8	2.0	6296597	80.7	2.0	6296597	80.2	2.0	6296597

RADIONUCLIDE

Radium-226	Bq/L	0.30	0.0050	6299737				0.25	0.0050	6299737

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) See general comments for notes regarding CNFREE-W.

(2) Detection limits raised due to dilution to bring analyte within the calibrated range.

(3) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

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VERITAS

BV Labs Job #: B9N3354

Report Date: 2019/09/03

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

RESULTS OF ANALYSES OF WATER

BV Labs ID		KOV040		
Sampling Date		2019/08/19 11:05		
	UNITS	MEL-26-FB	RDL	QC Batch
Calculated Parameters				
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	1.0	1.0	6293714
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6293714
Inorganics				
Total Ammonia-N	mg/L	<0.050	0.050	6296387
Conductivity	umho/cm	3.2	1.0	6296605
Free Cyanide (CN)	ug/L	1.8 (1)	1.0	6305161
Total Dissolved Solids	mg/L	<10	10	6297229
Total Kjeldahl Nitrogen (TKN)	mg/L	<0.10	0.10	6296377
Dissolved Organic Carbon	mg/L	<0.50	0.50	6296134
Total Organic Carbon (TOC)	mg/L	<0.50	0.50	6296479
Orthophosphate (P)	mg/L	<0.010	0.010	6296802
Dissolved Oxygen	mg/L	10.6		6296489
pH	pH	6.44		6296604
Total Phosphorus	mg/L	<0.020	0.020	6296322
Reactive Silica (SiO ₂)	mg/L	0.15	0.050	6304154
Total Suspended Solids	mg/L	<1	1	6296023
Dissolved Sulphate (SO ₄)	mg/L	<1.0	1.0	6296801
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6296302
Turbidity	NTU	<0.1	0.1	6295148
Volatile Suspended Solids	mg/L	<1	1	6296026
WAD Cyanide (Free)	mg/L	0.0020	0.0010	6296308
Alkalinity (Total as CaCO ₃)	mg/L	1.0	1.0	6296603
Dissolved Chloride (Cl ⁻)	mg/L	<1.0	1.0	6296793
Nitrite (N)	mg/L	<0.010	0.010	6296597
Nitrate (N)	mg/L	<0.10	0.10	6296597
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	6296597
RADIONUCLIDE				
Radium-226	Bq/L	<0.0050	0.0050	6299737
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) See general comments for notes regarding CNFREE-W.				



BUREAU
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BV Labs Job #: B9N3354

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Site Location: MELIADINE

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Sampler Initials: BH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KOV038	KOV039	KOV040		
Sampling Date		2019/08/19 10:45	2019/08/19 10:55	2019/08/19 11:05		
	UNITS	MEL-26	MEL-26-DUP	MEL-26-FB	RDL	QC Batch
Metals						
Mercury (Hg)	mg/L	<0.00001	<0.00001	<0.00001	0.00001	6296535
Dissolved Mercury (Hg)	mg/L	<0.00001	<0.00001	<0.00001	0.00001	6296541
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

BV Labs Job #: B9N3354

Report Date: 2019/09/03

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

TEST SUMMARY

BV Labs ID: KOV038

Sample ID: MEL-26

Matrix: Water

Collected: 2019/08/19

Shipped:

Received: 2019/08/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6296603	N/A	2019/08/24	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6293714	N/A	2019/08/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	6296793	N/A	2019/08/27	Deonarine Ramnarine
Conductivity	AT	6296605	N/A	2019/08/24	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6296308	N/A	2019/08/23	Gnana Thomas
Total Cyanide	SKAL/CN	6296302	2019/08/23	2019/08/23	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6296134	N/A	2019/08/23	Mandeep Kaur
Dissolved Oxygen	DO	6296489	2019/08/23	2019/08/23	Nusrat Naz
Dissolved Mercury (low level)	CV/AA	6296541	2019/08/23	2019/08/23	Medhat Nasr
Mercury (low level)	CV/AA	6296535	2019/08/23	2019/08/23	Medhat Nasr
Cyanide (Free)	SPEC	6305161	2019/08/28	2019/08/28	Amy Phan
Hardness Total (calculated as CaCO ₃)	CALC	6302281	N/A	2019/08/27	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6295409	N/A	2019/08/27	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6295410	N/A	2019/08/27	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6302280	N/A	2019/08/26	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6299778	2019/08/27	2019/08/27	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6302282	2019/08/26	2019/08/26	Andrew An
Silica (Reactive)	KONE	6304154	N/A	2019/08/26	Serena Tian
Total Ammonia-N	LACH/NH ₄	6296387	N/A	2019/08/26	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6296597	N/A	2019/08/25	Amanpreet Sappal
pH	AT	6296604	2019/08/23	2019/08/24	Surinder Rai
Orthophosphate	KONE	6296802	N/A	2019/08/26	Alina Dobreanu
Radium-226 Low Level	AS	6299737	N/A	2019/08/29	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6296801	N/A	2019/08/26	Alina Dobreanu
Total Dissolved Solids	BAL	6297229	2019/08/24	2019/08/26	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6296377	2019/08/23	2019/08/23	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6296479	N/A	2019/08/23	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6296322	2019/08/23	2019/08/24	Shivani Shivani
Low Level Total Suspended Solids	BAL	6296023	2019/08/23	2019/08/23	Xinyue (Sarah) Hou
Turbidity	AT	6295148	N/A	2019/08/23	Kazzandra Adeva
Low Level Volatile Suspended Solids	BAL	6296026	2019/08/23	2019/08/26	Xinyue (Sarah) Hou

BV Labs ID: KOV038 Dup

Sample ID: MEL-26

Matrix: Water

Collected: 2019/08/19

Shipped:

Received: 2019/08/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	6296308	N/A	2019/08/23	Gnana Thomas
Total Cyanide	SKAL/CN	6296302	2019/08/23	2019/08/23	Gnana Thomas
Cyanide (Free)	SPEC	6305161	2019/08/28	2019/08/28	Amy Phan
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6296597	N/A	2019/08/25	Amanpreet Sappal
Low Level Total Suspended Solids	BAL	6296023	2019/08/23	2019/08/23	Xinyue (Sarah) Hou
Low Level Volatile Suspended Solids	BAL	6296026	2019/08/23	2019/08/26	Xinyue (Sarah) Hou



BUREAU
VERITAS

BV Labs Job #: B9N3354
Report Date: 2019/09/03

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: BH

TEST SUMMARY

BV Labs ID: KOV039
Sample ID: MEL-26-DUP
Matrix: Water

Collected: 2019/08/19
Shipped:
Received: 2019/08/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6296603	N/A	2019/08/24	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6293714	N/A	2019/08/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	6296793	N/A	2019/08/27	Deonarine Ramnarine
Conductivity	AT	6296605	N/A	2019/08/24	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6296308	N/A	2019/08/23	Gnana Thomas
Total Cyanide	SKAL/CN	6296302	2019/08/23	2019/08/23	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6296134	N/A	2019/08/23	Mandeep Kaur
Dissolved Oxygen	DO	6296489	2019/08/23	2019/08/23	Nusrat Naz
Dissolved Mercury (low level)	CV/AA	6296541	2019/08/23	2019/08/23	Medhat Nasr
Mercury (low level)	CV/AA	6296535	2019/08/23	2019/08/23	Medhat Nasr
Cyanide (Free)	SPEC	6305161	2019/08/28	2019/08/28	Amy Phan
Hardness Total (calculated as CaCO ₃)	CALC	6297656	N/A	2019/08/27	Report Automation Engine
Hardness (calculated as CaCO ₃)	CALC	6295409	N/A	2019/08/27	Report Automation Engine
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6295410	N/A	2019/08/27	Report Automation Engine
Elements by CRC ICPMS (dissolved)	ICP/MS	6302280	N/A	2019/08/26	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6299778	2019/08/27	2019/08/27	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6302282	2019/08/26	2019/08/27	Andrew An
Silica (Reactive)	KONE	6304154	N/A	2019/08/26	Serena Tian
Total Ammonia-N	LACH/NH ₄	6296387	N/A	2019/08/26	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6296597	N/A	2019/08/25	Amanpreet Sappal
pH	AT	6296604	2019/08/23	2019/08/24	Surinder Rai
Orthophosphate	KONE	6296802	N/A	2019/08/26	Alina Dobreanu
Radium-226 Low Level	AS	6299737	N/A	2019/08/29	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6296801	N/A	2019/08/26	Alina Dobreanu
Total Dissolved Solids	BAL	6297229	2019/08/24	2019/08/26	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6296377	2019/08/23	2019/08/23	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6296479	N/A	2019/08/23	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6296322	2019/08/23	2019/08/24	Shivani Shivani
Low Level Total Suspended Solids	BAL	6296023	2019/08/23	2019/08/23	Xinyue (Sarah) Hou
Turbidity	AT	6295148	N/A	2019/08/23	Kazzandra Adeva
Low Level Volatile Suspended Solids	BAL	6296026	2019/08/23	2019/08/26	Xinyue (Sarah) Hou

BV Labs ID: KOV040
Sample ID: MEL-26-FB
Matrix: Water

Collected: 2019/08/19
Shipped:
Received: 2019/08/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6296603	N/A	2019/08/24	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6293714	N/A	2019/08/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	6296793	N/A	2019/08/27	Deonarine Ramnarine
Conductivity	AT	6296605	N/A	2019/08/24	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6296308	N/A	2019/08/23	Gnana Thomas
Total Cyanide	SKAL/CN	6296302	2019/08/23	2019/08/23	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6296134	N/A	2019/08/23	Mandeep Kaur
Dissolved Oxygen	DO	6296489	2019/08/23	2019/08/23	Nusrat Naz



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VERITAS

BV Labs Job #: B9N3354

Report Date: 2019/09/03

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

TEST SUMMARY

BV Labs ID: KOV040
Sample ID: MEL-26-FB
Matrix: Water

Collected: 2019/08/19
Shipped:
Received: 2019/08/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury (low level)	CV/AA	6296541	2019/08/23	2019/08/23	Medhat Nasr
Mercury (low level)	CV/AA	6296535	2019/08/23	2019/08/23	Medhat Nasr
Cyanide (Free)	SPEC	6305161	2019/08/28	2019/08/28	Amy Phan
Hardness Total (calculated as CaCO ₃)	CALC	6297656	N/A	2019/08/27	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6295409	N/A	2019/08/27	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6295410	N/A	2019/08/27	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6302280	N/A	2019/08/26	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6299778	2019/08/27	2019/08/27	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6302282	2019/08/26	2019/08/26	Andrew An
Silica (Reactive)	KONE	6304154	N/A	2019/08/26	Serena Tian
Total Ammonia-N	LACH/NH ₄	6296387	N/A	2019/08/26	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6296597	N/A	2019/08/25	Amanpreet Sappal
pH	AT	6296604	2019/08/23	2019/08/24	Surinder Rai
Orthophosphate	KONE	6296802	N/A	2019/08/26	Alina Dobreanu
Radium-226 Low Level	AS	6299737	N/A	2019/08/29	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6296801	N/A	2019/08/26	Alina Dobreanu
Total Dissolved Solids	BAL	6297229	2019/08/24	2019/08/26	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6296377	2019/08/23	2019/08/23	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6296479	N/A	2019/08/23	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6296322	2019/08/23	2019/08/24	Shivani Shivani
Low Level Total Suspended Solids	BAL	6296023	2019/08/23	2019/08/23	Xinyue (Sarah) Hou
Turbidity	AT	6295148	N/A	2019/08/23	Kazzandra Adeva
Low Level Volatile Suspended Solids	BAL	6296026	2019/08/23	2019/08/26	Xinyue (Sarah) Hou



GENERAL COMMENTS

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

Package 1	7.7°C

Sample KOV038 [MEL-26] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

Sample KOV039 [MEL-26-DUP] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

Sample KOV040 [MEL-26-FB] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

Total Cyanide < Free Cyanide: Both values fall within the method uncertainty for duplicates and are likely equivalent.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Sample KOV038 [MEL-26] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

Sample KOV039 [MEL-26-DUP] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Sample KOV038 [MEL-26] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required.

Sample KOV039 [MEL-26-DUP] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required.

Results relate only to the items tested.

BUREAU
VERITAS

BV Labs Job #: B9N3354

Report Date: 2019/09/03

QUALITY ASSURANCE REPORT

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

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
6295148	Turbidity	2019/08/23			109	85 - 115	<0.1	NTU	8.9	20		
6296023	Total Suspended Solids	2019/08/23					<1	mg/L	5.9	25	101	85 - 115
6296026	Volatile Suspended Solids	2019/08/26					<1	mg/L	4.8	25		
6296134	Dissolved Organic Carbon	2019/08/23	97	80 - 120	99	80 - 120	<0.50	mg/L	3.0	20		
6296302	Total Cyanide (CN)	2019/08/23	NC	80 - 120	107	80 - 120	<0.0050	mg/L	3.4	20		
6296308	WAD Cyanide (Free)	2019/08/23	56 (1)	80 - 120	107	80 - 120	<0.0010	mg/L	10	20		
6296322	Total Phosphorus	2019/08/24	102	80 - 120	100	80 - 120	<0.020	mg/L	3.7	20	102	80 - 120
6296377	Total Kjeldahl Nitrogen (TKN)	2019/08/23	NC	80 - 120	107	80 - 120	<0.10	mg/L	0.090	20	99	80 - 120
6296387	Total Ammonia-N	2019/08/26	100	75 - 125	103	80 - 120	<0.050	mg/L	NC	20		
6296479	Total Organic Carbon (TOC)	2019/08/23	93	80 - 120	98	80 - 120	<0.50	mg/L	2.5	20		
6296535	Mercury (Hg)	2019/08/23	101	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6296541	Dissolved Mercury (Hg)	2019/08/23	99	75 - 125	99	80 - 120	<0.00001	mg/L	NC	20		
6296597	Nitrate (N)	2019/08/25	NC	80 - 120	103	80 - 120	<0.10	mg/L	1.4	20		
6296597	Nitrite (N)	2019/08/25	NC	80 - 120	105	80 - 120	<0.010	mg/L	0.23	20		
6296603	Alkalinity (Total as CaCO3)	2019/08/24			98	85 - 115	<1.0	mg/L	0.73	20		
6296604	pH	2019/08/24			102	98 - 103			0.29	N/A		
6296605	Conductivity	2019/08/24			100	85 - 115	<1.0	umho/cm	0.32	25		
6296793	Dissolved Chloride (Cl-)	2019/08/27	NC	80 - 120	101	80 - 120	<1.0	mg/L	0.12	20		
6296801	Dissolved Sulphate (SO4)	2019/08/26	NC	75 - 125	97	80 - 120	<1.0	mg/L	1.3	20		
6296802	Orthophosphate (P)	2019/08/26	NC	75 - 125	101	80 - 120	<0.010	mg/L	1.5	25		
6297229	Total Dissolved Solids	2019/08/26					<10	mg/L	3.9	25	102	90 - 110
6299737	Radium-226	2019/08/29			92	85 - 115	<0.0050	Bq/L	NC	N/A		
6302280	Dissolved Aluminum (Al)	2019/08/26	99	80 - 120	105	80 - 120	<3.0	ug/L				
6302280	Dissolved Antimony (Sb)	2019/08/26	99	80 - 120	104	80 - 120	<0.50	ug/L				
6302280	Dissolved Arsenic (As)	2019/08/26	99	80 - 120	104	80 - 120	<0.10	ug/L				
6302280	Dissolved Barium (Ba)	2019/08/26	97	80 - 120	103	80 - 120	<1.0	ug/L				
6302280	Dissolved Beryllium (Be)	2019/08/26	97	80 - 120	102	80 - 120	<0.10	ug/L				
6302280	Dissolved Bismuth (Bi)	2019/08/26	99	80 - 120	107	80 - 120	<1.0	ug/L				
6302280	Dissolved Boron (B)	2019/08/26	99	80 - 120	102	80 - 120	<50	ug/L				
6302280	Dissolved Cadmium (Cd)	2019/08/26	99	80 - 120	103	80 - 120	<0.010	ug/L				
6302280	Dissolved Chromium (Cr)	2019/08/26	95	80 - 120	99	80 - 120	<1.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: B9N3354

Report Date: 2019/09/03

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

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
6302280	Dissolved Cobalt (Co)	2019/08/26	96	80 - 120	101	80 - 120	<0.20	ug/L				
6302280	Dissolved Copper (Cu)	2019/08/26	96	80 - 120	100	80 - 120	<0.20	ug/L				
6302280	Dissolved Iron (Fe)	2019/08/26	99	80 - 120	107	80 - 120	<5.0	ug/L				
6302280	Dissolved Lead (Pb)	2019/08/26	101	80 - 120	106	80 - 120	<0.20	ug/L				
6302280	Dissolved Lithium (Li)	2019/08/26	94	80 - 120	99	80 - 120	<2.0	ug/L				
6302280	Dissolved Manganese (Mn)	2019/08/26	99	80 - 120	103	80 - 120	<1.0	ug/L				
6302280	Dissolved Molybdenum (Mo)	2019/08/26	100	80 - 120	107	80 - 120	<1.0	ug/L				
6302280	Dissolved Nickel (Ni)	2019/08/26	98	80 - 120	102	80 - 120	<1.0	ug/L				
6302280	Dissolved Selenium (Se)	2019/08/26	99	80 - 120	103	80 - 120	<0.10	ug/L				
6302280	Dissolved Silicon (Si)	2019/08/26	96	80 - 120	105	80 - 120	<100	ug/L				
6302280	Dissolved Silver (Ag)	2019/08/26	97	80 - 120	102	80 - 120	<0.020	ug/L				
6302280	Dissolved Strontium (Sr)	2019/08/26	96	80 - 120	100	80 - 120	<1.0	ug/L				
6302280	Dissolved Thallium (Tl)	2019/08/26	99	80 - 120	106	80 - 120	<0.010	ug/L				
6302280	Dissolved Tin (Sn)	2019/08/26	98	80 - 120	103	80 - 120	<5.0	ug/L				
6302280	Dissolved Titanium (Ti)	2019/08/26	101	80 - 120	104	80 - 120	<5.0	ug/L				
6302280	Dissolved Uranium (U)	2019/08/26	99	80 - 120	104	80 - 120	<0.10	ug/L				
6302280	Dissolved Vanadium (V)	2019/08/26	99	80 - 120	102	80 - 120	<5.0	ug/L				
6302280	Dissolved Zinc (Zn)	2019/08/26	103	80 - 120	105	80 - 120	<5.0	ug/L				
6302280	Dissolved Zirconium (Zr)	2019/08/26	102	80 - 120	105	80 - 120	<0.10	ug/L				
6302282	Total Aluminum (Al)	2019/08/26	102	80 - 120	103	80 - 120	<3.0	ug/L				
6302282	Total Antimony (Sb)	2019/08/26	101	80 - 120	100	80 - 120	<0.50	ug/L				
6302282	Total Arsenic (As)	2019/08/26	102	80 - 120	99	80 - 120	<0.10	ug/L				
6302282	Total Barium (Ba)	2019/08/26	102	80 - 120	100	80 - 120	<1.0	ug/L				
6302282	Total Beryllium (Be)	2019/08/26	102	80 - 120	101	80 - 120	<0.10	ug/L				
6302282	Total Bismuth (Bi)	2019/08/26	102	80 - 120	103	80 - 120	<1.0	ug/L				
6302282	Total Boron (B)	2019/08/26	105	80 - 120	105	80 - 120	<50	ug/L				
6302282	Total Cadmium (Cd)	2019/08/26	100	80 - 120	100	80 - 120	<0.010	ug/L				
6302282	Total Chromium (Cr)	2019/08/26	95	80 - 120	97	80 - 120	<1.0	ug/L				
6302282	Total Cobalt (Co)	2019/08/26	96	80 - 120	98	80 - 120	<0.20	ug/L				
6302282	Total Copper (Cu)	2019/08/26	95	80 - 120	98	80 - 120	<0.50	ug/L				
6302282	Total Iron (Fe)	2019/08/26	102	80 - 120	103	80 - 120	<10	ug/L				
6302282	Total Lead (Pb)	2019/08/26	105	80 - 120	104	80 - 120	<0.20	ug/L				



BUREAU
VERITAS

BV Labs Job #: B9N3354

Report Date: 2019/09/03

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

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
6302282	Total Lithium (Li)	2019/08/26	101	80 - 120	99	80 - 120	<2.0	ug/L				
6302282	Total Manganese (Mn)	2019/08/26	99	80 - 120	101	80 - 120	<1.0	ug/L				
6302282	Total Molybdenum (Mo)	2019/08/26	106	80 - 120	101	80 - 120	<1.0	ug/L				
6302282	Total Nickel (Ni)	2019/08/26	97	80 - 120	101	80 - 120	<1.0	ug/L				
6302282	Total Selenium (Se)	2019/08/26	102	80 - 120	100	80 - 120	<0.10	ug/L				
6302282	Total Silicon (Si)	2019/08/26	NC	80 - 120	102	80 - 120	<100	ug/L				
6302282	Total Silver (Ag)	2019/08/26	98	80 - 120	99	80 - 120	<0.020	ug/L				
6302282	Total Strontium (Sr)	2019/08/26	NC	80 - 120	96	80 - 120	<1.0	ug/L				
6302282	Total Thallium (Tl)	2019/08/26	103	80 - 120	101	80 - 120	<0.010	ug/L				
6302282	Total Tin (Sn)	2019/08/26	98	80 - 120	100	80 - 120	<5.0	ug/L				
6302282	Total Titanium (Ti)	2019/08/26	100	80 - 120	100	80 - 120	<5.0	ug/L				
6302282	Total Uranium (U)	2019/08/26	105	80 - 120	101	80 - 120	<0.10	ug/L				
6302282	Total Vanadium (V)	2019/08/26	101	80 - 120	100	80 - 120	<5.0	ug/L				
6302282	Total Zinc (Zn)	2019/08/26	98	80 - 120	100	80 - 120	<5.0	ug/L				
6302282	Total Zirconium (Zr)	2019/08/26	106	80 - 120	101	80 - 120	<0.10	ug/L				
6304154	Reactive Silica (SiO ₂)	2019/08/27	94	80 - 120	98	80 - 120	<0.050	mg/L	18	20		
6305161	Free Cyanide (CN)	2019/08/28	80	80 - 120	97	80 - 120	<1.0	ug/L	19	20		

N/A = Not Applicable

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.

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 <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9N3354

Report Date: 2019/09/03

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Brad Newman, Scientific Service Specialist

Marjolen Busslinger, Scientific Specialist



Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

Rob Reinert, B.Sc., Scientific Specialist

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BUREAU
VERITAS

BV Labs Job #: B9N3354

Report Date: 2019/09/03

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: BH

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your Project #: Campobello job# B9O0837

Attention: Alisha Williamson

BUREAU VERITAS
CAMPOBELLO
6740 CAMPOBELLO ROAD
MISSISSAUGA, ON
CANADA L5N 2L8

Report Date: 2019/09/16

Report #: R2781426

Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: B972023

Received: 2019/08/29, 12:39

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Chloride/Sulphate by Auto Colourimetry	1	N/A	2019/09/13	AB SOP-00020 / AB SOP-00018	SM23-4500-Cl/SO4-E m
Cyanide (Free)	1	2019/09/03	2019/09/03	CAL SOP-00266	EPA 9016d R0 m
Conductivity @25C	1	N/A	2019/09/13	AB SOP-00005	SM 23 2510 B m
Elements by ICP-Dissolved-Lab Filtered (1)	1	N/A	2019/09/14	AB SOP-00042	EPA 6010d R5 m
pH @25°C (2)	1	N/A	2019/09/13	AB SOP-00005	SM 23 4500-H+B m
Silica (Reactive)	1	N/A	2019/09/05	AB SOP-00011	EPA 370.1 R1978 m
Total Dissolved Solids (Filt. Residue)	1	2019/09/12	2019/09/12	AB SOP-00065	SM 23 2540 C m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(2) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.



Your Project #: Campobello job# B9O0837

Attention: Alisha Williamson

BUREAU VERITAS
CAMPOBELLO
6740 CAMPOBELLO ROAD
MISSISSAUGA, ON
CANADA L5N 2L8

Report Date: 2019/09/16

Report #: R2781426

Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: B972023

Received: 2019/08/29, 12:39

Encryption Key

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

Customer Solutions, Western Canada Customer Experience Team

Email: customersolutionswest@bvlabs.com

Phone# (403) 291-3077

=====

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**SALINITY - WATER - FIILTERED (WATER)**

BV Labs ID		WJ7306			WJ7306		
Sampling Date		2019/08/26 11:30			2019/08/26 11:30		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch
Misc. Inorganics							
Conductivity	uS/cm	27000	2.0	9585740			
pH	pH	7.18	N/A	9585739			
Total Dissolved Solids	mg/L	>8000 (1)	10	9585163			
Anions							
Dissolved Chloride (Cl)	mg/L	8500 (2)	100	9586943	7900	100	9586943
Dissolved Sulphate (SO ₄)	mg/L	980 (2)	10	9586943	980	10	9586943
Lab Filtered Elements							
Dissolved Calcium (Ca)	mg/L	900 (2)	6.0	9588030			
Dissolved Magnesium (Mg)	mg/L	560 (2)	4.0	9588030			
Dissolved Potassium (K)	mg/L	160	0.30	9588030			
Dissolved Sodium (Na)	mg/L	4300 (2)	10	9588030			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Sample exceeds calibration range. (2) Detection limits raised due to dilution to bring analyte within the calibrated range.							



BUREAU
VERITAS

BV Labs Job #: B972023
Report Date: 2019/09/16

BUREAU VERITAS
Client Project #: Campobello job# B9O0837
Sampler Initials: KB

RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID		WJ7306			WJ7306		
Sampling Date		2019/08/26 11:30			2019/08/26 11:30		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch
Misc. Inorganics							
Free Cyanide (CN)	ug/L	<1.0 (1)	1.0	9572721			
Reactive Silica	mg/L	4.4	0.050	9576053	4.7	0.050	9576053
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							
(1) See general comments for notes regarding CNFREE-W.							



BUREAU
VERITAS

BV Labs Job #: B972023
Report Date: 2019/09/16

BUREAU VERITAS
Client Project #: Campobello job# B9O0837
Sampler Initials: KB

TEST SUMMARY

BV Labs ID: WJ7306
Sample ID: MEL-26
Matrix: Water

Collected: 2019/08/26
Shipped:
Received: 2019/08/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride/Sulphate by Auto Colourimetry	KONE	9586943	N/A	2019/09/13	Zafar Iqbal
Cyanide (Free)	SPEC	9572721	2019/09/03	2019/09/03	Amy Phan
Conductivity @25C	COND	9585740	N/A	2019/09/13	Ilonka Kovac
Elements by ICP-Dissolved-Lab Filtered	ICPA	9588030	N/A	2019/09/14	Ahmed Loai
pH @25°C	AT/ALK	9585739	N/A	2019/09/13	Ilonka Kovac
Silica (Reactive)	KONE/SL	9576053	N/A	2019/09/05	Serena Tian
Total Dissolved Solids (Filt. Residue)	BAL	9585163	2019/09/12	2019/09/12	Haydee Estilong

BV Labs ID: WJ7306 Dup
Sample ID: MEL-26
Matrix: Water

Collected: 2019/08/26
Shipped:
Received: 2019/08/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride/Sulphate by Auto Colourimetry	KONE	9586943	N/A	2019/09/13	Zafar Iqbal
Silica (Reactive)	KONE/SL	9576053	N/A	2019/09/05	Serena Tian



GENERAL COMMENTS

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

Package 1	6.7°C

V2: Report re-issued with salinity results for sample MEL-26. 2019/09/16

Sample WJ7306 [MEL-26] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely. Sample was analyzed past method specified hold time for Total Dissolved Solids (Filt. Residue). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B972023

Report Date: 2019/09/16

QUALITY ASSURANCE REPORT

BUREAU VERITAS

Client Project #: Campobello job# B9O0837

Sampler Initials: KB

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9572721	Free Cyanide (CN)	2019/09/03	83	80 - 120	94	80 - 120	<1.0	ug/L	4.7	20
9576053	Reactive Silica	2019/09/05	92	80 - 120	99	80 - 120	<0.050	mg/L	6.4	20
9585163	Total Dissolved Solids	2019/09/12	98	80 - 120	99	80 - 120	<10	mg/L	6.4	20
9585739	pH	2019/09/13			100	97 - 103			1.0	N/A
9585740	Conductivity	2019/09/13			102	90 - 110	<2.0	uS/cm	3.0	10
9586943	Dissolved Chloride (Cl)	2019/09/13	NC	80 - 120	101	80 - 120	<1.0	mg/L	7.4	20
9586943	Dissolved Sulphate (SO4)	2019/09/13	NC	80 - 120	99	80 - 120	<1.0	mg/L	0.29	20
9588030	Dissolved Calcium (Ca)	2019/09/13	92	80 - 120	97	80 - 120	<0.30	mg/L	1.1	20
9588030	Dissolved Magnesium (Mg)	2019/09/13	98	80 - 120	102	80 - 120	<0.20	mg/L	0.90	20
9588030	Dissolved Potassium (K)	2019/09/13	97	80 - 120	99	80 - 120	<0.30	mg/L	0.28	20
9588030	Dissolved Sodium (Na)	2019/09/13	98	80 - 120	103	80 - 120	<0.50	mg/L	1.4	20

N/A = Not Applicable

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.

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.

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)



BUREAU
VERITAS

BV Labs Job #: B972023
Report Date: 2019/09/16

BUREAU VERITAS
Client Project #: Campobello job# B9O0837
Sampler Initials: KB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Harry (Peng) Liang, Senior Analyst

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Your P.O. #: OL-762849
 Site#: 62°48'01.99" 92°06'00.05"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/18
 Report #: R5884395
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9O0837

Received: 2019/08/30, 09:10

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/09/03	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/09/04	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	1	N/A	2019/09/04	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	1	N/A	2019/09/03	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/08/30	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/08/30	2019/08/30	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/08/30	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/08/30	2019/08/30	CAM SOP-00427	SM 23 4500 O G m
Dissolved Mercury (low level) (1)	1	2019/08/30	2019/08/30	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/08/30	2019/08/30	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 6)	1	N/A	2019/09/05	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/09/05	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/09/05	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/09/04	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/08/29	2019/09/05	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/09/04	2019/09/05	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/09/05	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/08/30	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 7)	1	N/A	2019/09/01	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/08/30	2019/09/03	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/09/03	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 8)	1	N/A	2019/09/16	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/09/03	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/08/30	2019/08/31	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/08/30	2019/09/03	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 9)	1	N/A	2019/08/30	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	1	2019/08/30	2019/08/30	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/08/30	2019/08/30	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/08/30	CAM SOP-00417	SM 23 2130 B m



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/18
Report #: R5884395
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9O0837

Received: 2019/08/30, 09:10

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Laboratory Method	Reference
	Quantity	Extracted Analyzed		
Low Level Volatile Suspended Solids (1)	1	2019/08/30 2019/09/03	CAM SOP-00428	SM 23 2540

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(6) "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).

(7) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(8) Radium-226 results have not been corrected for blanks.

(9) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/18
Report #: R5884395
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9O0837
Received: 2019/08/30, 09:10

Encryption Key

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B900837

Report Date: 2019/09/18

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: KB

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KQL384		
Sampling Date		2019/08/26 11:30		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	4480	0.50	6316497
Metals				
Dissolved Aluminum (Al)	ug/L	161	30	6316499
Dissolved Antimony (Sb)	ug/L	<5.0	5.0	6316499
Dissolved Arsenic (As)	ug/L	10.2	1.0	6316499
Dissolved Barium (Ba)	ug/L	181	10	6316499
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	6316499
Dissolved Bismuth (Bi)	ug/L	<10	10	6316499
Dissolved Boron (B)	ug/L	628	500	6316499
Dissolved Cadmium (Cd)	ug/L	<0.10	0.10	6316499
Dissolved Chromium (Cr)	ug/L	<10	10	6316499
Dissolved Cobalt (Co)	ug/L	3.6	2.0	6316499
Dissolved Copper (Cu)	ug/L	5.0	2.0	6316499
Dissolved Iron (Fe)	ug/L	<50	50	6316499
Dissolved Lead (Pb)	ug/L	<2.0	2.0	6316499
Dissolved Lithium (Li)	ug/L	432	20	6316499
Dissolved Manganese (Mn)	ug/L	15	10	6316499
Dissolved Molybdenum (Mo)	ug/L	13	10	6316499
Dissolved Nickel (Ni)	ug/L	19	10	6316499
Dissolved Selenium (Se)	ug/L	<1.0	1.0	6316499
Dissolved Silicon (Si)	ug/L	<1000	1000	6316499
Dissolved Silver (Ag)	ug/L	<0.20	0.20	6316499
Dissolved Strontium (Sr)	ug/L	20800	10	6316499
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	6316499
Dissolved Tin (Sn)	ug/L	<50	50	6316499
Dissolved Titanium (Ti)	ug/L	<50	50	6316499
Dissolved Uranium (U)	ug/L	4.1	1.0	6316499
Dissolved Vanadium (V)	ug/L	<50	50	6316499
Dissolved Zinc (Zn)	ug/L	67	50	6316499
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	6316499
Dissolved Calcium (Ca)	mg/L	875	0.50	6316498
Dissolved Magnesium (Mg)	mg/L	557	0.50	6316498
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9O0837

Report Date: 2019/09/18

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: KB

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KQL384		
Sampling Date		2019/08/26 11:30		
	UNITS	MEL-26	RDL	QC Batch
Dissolved Potassium (K)	mg/L	162	0.50	6316498
Dissolved Sodium (Na)	mg/L	4550	0.50	6316498
Dissolved Sulphur (S)	mg/L	368	30	6316498
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B900837

Report Date: 2019/09/18

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: KB

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KQL384		
Sampling Date		2019/08/26 11:30		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	351	300	6317652
Total Antimony (Sb)	ug/L	<50	50	6317652
Total Arsenic (As)	ug/L	12	10	6317652
Total Barium (Ba)	ug/L	181	100	6317652
Total Beryllium (Be)	ug/L	<10	10	6317652
Total Bismuth (Bi)	ug/L	<100	100	6317652
Total Boron (B)	ug/L	<5000	5000	6317652
Total Cadmium (Cd)	ug/L	<1.0	1.0	6317652
Total Chromium (Cr)	ug/L	<100	100	6317652
Total Cobalt (Co)	ug/L	<20	20	6317652
Total Copper (Cu)	ug/L	<50	50	6317652
Total Iron (Fe)	ug/L	<1000	1000	6317652
Total Lead (Pb)	ug/L	<20	20	6317652
Total Lithium (Li)	ug/L	498	200	6317652
Total Manganese (Mn)	ug/L	<100	100	6317652
Total Molybdenum (Mo)	ug/L	<100	100	6317652
Total Nickel (Ni)	ug/L	<100	100	6317652
Total Selenium (Se)	ug/L	<10	10	6317652
Total Silicon (Si)	ug/L	<10000	10000	6317652
Total Silver (Ag)	ug/L	<2.0	2.0	6317652
Total Strontium (Sr)	ug/L	20200	100	6317652
Total Thallium (Tl)	ug/L	<1.0	1.0	6317652
Total Tin (Sn)	ug/L	<500	500	6317652
Total Titanium (Ti)	ug/L	<500	500	6317652
Total Uranium (U)	ug/L	<10	10	6317652
Total Vanadium (V)	ug/L	<500	500	6317652
Total Zinc (Zn)	ug/L	<500	500	6317652
Total Zirconium (Zr)	ug/L	<10	10	6317652
Total Calcium (Ca)	ug/L	866000	5000	6317651
Total Magnesium (Mg)	ug/L	555000	5000	6317651
Total Potassium (K)	ug/L	170000	5000	6317651
Total Sodium (Na)	ug/L	4380000	5000	6317651
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9O0837

Report Date: 2019/09/18

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: KB

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KQL384		
Sampling Date		2019/08/26 11:30		
	UNITS	MEL-26	RDL	QC Batch
Total Sulphur (S)	ug/L	375000	300000	6317651
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	4450000	500	6317650
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B900837
Report Date: 2019/09/18

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: KB

RESULTS OF ANALYSES OF WATER

BV Labs ID		KQL384			KQL384		
Sampling Date		2019/08/26 11:30			2019/08/26 11:30		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	57	1.0	6306459			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6306459			
Inorganics							
Total Ammonia-N	mg/L	3.8	0.050	6308627			
Conductivity	umho/cm	27000	1.0	6309972	27000	1.0	6309972
Free Cyanide (CN)	ug/L	<1.0 (1)	1.0	6316470			
Total Dissolved Solids	mg/L	17800	20	6308855			
Total Kjeldahl Nitrogen (TKN)	mg/L	14	2.0	6308760			
Dissolved Organic Carbon	mg/L	17	0.50	6307745			
Total Organic Carbon (TOC)	mg/L	17	0.50	6309575			
Orthophosphate (P)	mg/L	0.012	0.010	6310908			
Dissolved Oxygen	mg/L	9.44		6309668	9.46		6309668
pH	pH	7.32		6309976	7.35		6309976
Total Phosphorus	mg/L	0.080	0.020	6308656			
Reactive Silica (SiO ₂)	mg/L	4.4	0.050	6321220	4.7	0.050	6321220
Total Suspended Solids	mg/L	14	1	6308560	14	1	6308560
Dissolved Sulphate (SO ₄)	mg/L	870	5.0	6310910			
Total Cyanide (CN)	mg/L	<0.0050	0.0050	6308850	<0.0050	0.0050	6308850
Turbidity	NTU	0.5	0.1	6307644			
Volatile Suspended Solids	mg/L	8	1	6307169	8	1	6307169
WAD Cyanide (Free)	mg/L	0.0035	0.0010	6308856	0.0033	0.0010	6308856
Alkalinity (Total as CaCO ₃)	mg/L	57	1.0	6309970	58	1.0	6309970
Dissolved Chloride (Cl ⁻)	mg/L	9500	100	6310907			
Nitrite (N)	mg/L	<0.010	0.010	6309619			
Nitrate (N)	mg/L	43.5	0.50	6309619			
Nitrate + Nitrite (N)	mg/L	43.5	0.50	6309619			
RADIONUCLIDE							
Radium-226	Bq/L	0.16	0.0050	6318584			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W.							



BUREAU
VERITAS

BV Labs Job #: B9O0837

Report Date: 2019/09/18

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: KB

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KQL384		
Sampling Date		2019/08/26 11:30		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6308649
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6308661
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B900837
Report Date: 2019/09/18

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: KB

TEST SUMMARY

BV Labs ID: KQL384
Sample ID: MEL-26
Matrix: Water

Collected: 2019/08/26
Shipped:
Received: 2019/08/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6309970	N/A	2019/09/03	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6306459	N/A	2019/09/04	Automated Statchk
Chloride by Automated Colourimetry	KONE	6310907	N/A	2019/09/04	Deonarine Ramnarine
Conductivity	AT	6309972	N/A	2019/09/03	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6308856	N/A	2019/08/30	Barbara Kalbasi Esfahani
Total Cyanide	SKAL/CN	6308850	2019/08/30	2019/08/30	Barbara Kalbasi Esfahani
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6307745	N/A	2019/08/30	Mandeep Kaur
Dissolved Oxygen	DO	6309668	2019/08/30	2019/08/30	Prakash Piya
Dissolved Mercury (low level)	CV/AA	6308661	2019/08/30	2019/08/30	Ron Morrison
Mercury (low level)	CV/AA	6308649	2019/08/30	2019/08/30	Ron Morrison
Cyanide (Free)	SPEC	6316470	2019/09/03	2019/09/03	Amy Phan
Hardness Total (calculated as CaCO ₃)	CALC	6317650	N/A	2019/09/05	Report Automation Engine
Hardness (calculated as CaCO ₃)	CALC	6316497	N/A	2019/09/05	Report Automation Engine
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6316498	N/A	2019/09/05	Report Automation Engine
Elements by CRC ICPMS (dissolved)	ICP/MS	6316499	N/A	2019/09/04	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6317651	2019/09/05	2019/09/05	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6317652	2019/09/04	2019/09/05	Andrew An
Silica (Reactive)	KONE	6321220	N/A	2019/09/05	Serena Tian
Total Ammonia-N	LACH/NH ₄	6308627	N/A	2019/08/30	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6309619	N/A	2019/09/01	Amanpreet Sappal
pH	AT	6309976	2019/08/30	2019/09/03	Surinder Rai
Orthophosphate	KONE	6310908	N/A	2019/09/03	Alina Doboreanu
Radium-226 Low Level	AS	6318584	N/A	2019/09/16	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6310910	N/A	2019/09/03	Alina Doboreanu
Total Dissolved Solids	BAL	6308855	2019/08/30	2019/08/31	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6308760	2019/08/30	2019/09/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6309575	N/A	2019/08/30	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6308656	2019/08/30	2019/08/30	Shivani Shivani
Low Level Total Suspended Solids	BAL	6308560	2019/08/30	2019/08/30	Xinyue (Sarah) Hou
Turbidity	AT	6307644	N/A	2019/08/30	Kazzandra Adeva
Low Level Volatile Suspended Solids	BAL	6307169	2019/08/30	2019/09/03	Xinyue (Sarah) Hou

BV Labs ID: KQL384 Dup
Sample ID: MEL-26
Matrix: Water

Collected: 2019/08/26
Shipped:
Received: 2019/08/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6309970	N/A	2019/09/03	Surinder Rai
Conductivity	AT	6309972	N/A	2019/09/03	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6308856	N/A	2019/08/30	Barbara Kalbasi Esfahani
Total Cyanide	SKAL/CN	6308850	2019/08/30	2019/08/30	Barbara Kalbasi Esfahani
Dissolved Oxygen	DO	6309668	2019/08/30	2019/08/30	Prakash Piya
Silica (Reactive)	KONE	6321220	N/A	2019/09/05	Serena Tian
pH	AT	6309976	2019/08/30	2019/09/03	Surinder Rai
Low Level Total Suspended Solids	BAL	6308560	2019/08/30	2019/08/30	Xinyue (Sarah) Hou



BUREAU
VERITAS

BV Labs Job #: B9O0837

Report Date: 2019/09/18

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: KB

TEST SUMMARY

BV Labs ID: KQL384 Dup

Sample ID: MEL-26

Matrix: Water

Collected: 2019/08/26

Shipped:

Received: 2019/08/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low Level Volatile Suspended Solids	BAL	6307169	2019/08/30	2019/09/03	Xinyue (Sarah) Hou



GENERAL COMMENTS

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

Package 1	10.0°C

Sample KQL384 [MEL-26] : Total Cyanide < Free Cyanide: Both values fall within the method uncertainty for duplicates and are likely equivalent. Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely. Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely. Sample was analyzed past method specified hold time for Total Dissolved Solids (Filt. Residue). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. V2: Report re-issued with salinity results for sample MEL-26. 2019/09/16

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Sample KQL384 [MEL-26] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Sample KQL384 [MEL-26] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B9O0837

Report Date: 2019/09/18

QUALITY ASSURANCE REPORT

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: KB

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
6307169	Volatile Suspended Solids	2019/09/03					<1	mg/L	2.4	25		
6307644	Turbidity	2019/08/30			96	85 - 115	<0.1	NTU	1.7	20		
6307745	Dissolved Organic Carbon	2019/08/30	93	80 - 120	95	80 - 120	<0.50	mg/L	3.1	20		
6308560	Total Suspended Solids	2019/08/30					<1	mg/L	4.3	25	95	85 - 115
6308627	Total Ammonia-N	2019/08/30	101	75 - 125	99	80 - 120	<0.050	mg/L	NC	20		
6308649	Mercury (Hg)	2019/08/30	109	75 - 125	99	80 - 120	<0.00001	mg/L	NC	20		
6308656	Total Phosphorus	2019/08/30	100	80 - 120	101	80 - 120	<0.020	mg/L	3.5	20	99	80 - 120
6308661	Dissolved Mercury (Hg)	2019/08/30	102	75 - 125	104	80 - 120	<0.00001	mg/L	NC	20		
6308760	Total Kjeldahl Nitrogen (TKN)	2019/08/30	102	80 - 120	97	80 - 120	<0.10	mg/L	10	20	94	80 - 120
6308850	Total Cyanide (CN)	2019/08/30	-0.10 (1)	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20		
6308855	Total Dissolved Solids	2019/08/31					<10	mg/L	0	25	100	90 - 110
6308856	WAD Cyanide (Free)	2019/08/30	0.30 (1)	80 - 120	105	80 - 120	<0.0010	mg/L	5.9	20		
6309575	Total Organic Carbon (TOC)	2019/08/30	92	80 - 120	96	80 - 120	<0.50	mg/L	0.061	20		
6309619	Nitrate (N)	2019/09/01	99	80 - 120	101	80 - 120	<0.10	mg/L	1.7	20		
6309619	Nitrite (N)	2019/09/01	103	80 - 120	105	80 - 120	<0.010	mg/L	NC	20		
6309970	Alkalinity (Total as CaCO3)	2019/09/03			99	85 - 115	<1.0	mg/L	1.1	20		
6309972	Conductivity	2019/09/03			101	85 - 115	<1.0	umho/cm	0.000014	25		
6309976	pH	2019/09/03			102	98 - 103			0.36	N/A		
6310907	Dissolved Chloride (Cl-)	2019/09/04	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.12	20		
6310908	Orthophosphate (P)	2019/09/03	107	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
6310910	Dissolved Sulphate (SO4)	2019/09/03	NC	75 - 125	103	80 - 120	<1.0	mg/L	0.51	20		
6316470	Free Cyanide (CN)	2019/09/03	83	80 - 120	94	80 - 120	<1.0	ug/L	4.7	20		
6316499	Dissolved Aluminum (Al)	2019/09/04	98	80 - 120	103	80 - 120	<3.0	ug/L				
6316499	Dissolved Antimony (Sb)	2019/09/04	97	80 - 120	101	80 - 120	<0.50	ug/L				
6316499	Dissolved Arsenic (As)	2019/09/04	105	80 - 120	100	80 - 120	<0.10	ug/L				
6316499	Dissolved Barium (Ba)	2019/09/04	95	80 - 120	104	80 - 120	<1.0	ug/L				
6316499	Dissolved Beryllium (Be)	2019/09/04	92	80 - 120	97	80 - 120	<0.10	ug/L				
6316499	Dissolved Bismuth (Bi)	2019/09/04	95	80 - 120	103	80 - 120	<1.0	ug/L				
6316499	Dissolved Boron (B)	2019/09/04	92	80 - 120	99	80 - 120	<50	ug/L				
6316499	Dissolved Cadmium (Cd)	2019/09/04	94	80 - 120	100	80 - 120	<0.010	ug/L				
6316499	Dissolved Chromium (Cr)	2019/09/04	91	80 - 120	99	80 - 120	<1.0	ug/L				

BUREAU
VERITAS

BV Labs Job #: B9O0837

Report Date: 2019/09/18

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: KB

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
6316499	Dissolved Cobalt (Co)	2019/09/04	91	80 - 120	100	80 - 120	<0.20	ug/L				
6316499	Dissolved Copper (Cu)	2019/09/04	86	80 - 120	99	80 - 120	<0.20	ug/L				
6316499	Dissolved Iron (Fe)	2019/09/04	96	80 - 120	106	80 - 120	<5.0	ug/L				
6316499	Dissolved Lead (Pb)	2019/09/04	100	80 - 120	106	80 - 120	<0.20	ug/L				
6316499	Dissolved Lithium (Li)	2019/09/04	93	80 - 120	101	80 - 120	<2.0	ug/L				
6316499	Dissolved Manganese (Mn)	2019/09/04	93	80 - 120	103	80 - 120	<1.0	ug/L				
6316499	Dissolved Molybdenum (Mo)	2019/09/04	NC	80 - 120	104	80 - 120	<1.0	ug/L				
6316499	Dissolved Nickel (Ni)	2019/09/04	90	80 - 120	102	80 - 120	<1.0	ug/L				
6316499	Dissolved Selenium (Se)	2019/09/04	100	80 - 120	98	80 - 120	<0.10	ug/L				
6316499	Dissolved Silicon (Si)	2019/09/04	NC	80 - 120	102	80 - 120	<100	ug/L				
6316499	Dissolved Silver (Ag)	2019/09/04	94	80 - 120	101	80 - 120	<0.020	ug/L				
6316499	Dissolved Strontium (Sr)	2019/09/04	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6316499	Dissolved Thallium (Tl)	2019/09/04	99	80 - 120	104	80 - 120	<0.010	ug/L				
6316499	Dissolved Tin (Sn)	2019/09/04	96	80 - 120	104	80 - 120	<5.0	ug/L				
6316499	Dissolved Titanium (Ti)	2019/09/04	97	80 - 120	101	80 - 120	<5.0	ug/L				
6316499	Dissolved Uranium (U)	2019/09/04	106	80 - 120	105	80 - 120	<0.10	ug/L				
6316499	Dissolved Vanadium (V)	2019/09/04	96	80 - 120	100	80 - 120	<5.0	ug/L				
6316499	Dissolved Zinc (Zn)	2019/09/04	91	80 - 120	101	80 - 120	<5.0	ug/L				
6316499	Dissolved Zirconium (Zr)	2019/09/04	108	80 - 120	105	80 - 120	<0.10	ug/L				
6317652	Total Aluminum (Al)	2019/09/05	101	80 - 120	100	80 - 120	<3.0	ug/L				
6317652	Total Antimony (Sb)	2019/09/05	100	80 - 120	99	80 - 120	<0.50	ug/L				
6317652	Total Arsenic (As)	2019/09/05	106	80 - 120	100	80 - 120	<0.10	ug/L				
6317652	Total Barium (Ba)	2019/09/05	101	80 - 120	100	80 - 120	<1.0	ug/L				
6317652	Total Beryllium (Be)	2019/09/05	97	80 - 120	98	80 - 120	<0.10	ug/L				
6317652	Total Bismuth (Bi)	2019/09/05	97	80 - 120	102	80 - 120	<1.0	ug/L				
6317652	Total Boron (B)	2019/09/05	101	80 - 120	104	80 - 120	<50	ug/L				
6317652	Total Cadmium (Cd)	2019/09/05	97	80 - 120	98	80 - 120	<0.010	ug/L				
6317652	Total Chromium (Cr)	2019/09/05	96	80 - 120	97	80 - 120	<1.0	ug/L				
6317652	Total Cobalt (Co)	2019/09/05	92	80 - 120	96	80 - 120	<0.20	ug/L				
6317652	Total Copper (Cu)	2019/09/05	89	80 - 120	96	80 - 120	<0.50	ug/L				
6317652	Total Iron (Fe)	2019/09/05	101	80 - 120	103	80 - 120	<10	ug/L				
6317652	Total Lead (Pb)	2019/09/05	101	80 - 120	104	80 - 120	<0.20	ug/L				



BUREAU
VERITAS

BV Labs Job #: B9O0837

Report Date: 2019/09/18

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: KB

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
6317652	Total Lithium (Li)	2019/09/05	95	80 - 120	102	80 - 120	<2.0	ug/L				
6317652	Total Manganese (Mn)	2019/09/05	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6317652	Total Molybdenum (Mo)	2019/09/05	114	80 - 120	101	80 - 120	<1.0	ug/L				
6317652	Total Nickel (Ni)	2019/09/05	92	80 - 120	99	80 - 120	<1.0	ug/L				
6317652	Total Selenium (Se)	2019/09/05	102	80 - 120	98	80 - 120	<0.10	ug/L				
6317652	Total Silicon (Si)	2019/09/05	NC	80 - 120	105	80 - 120	<100	ug/L				
6317652	Total Silver (Ag)	2019/09/05	96	80 - 120	98	80 - 120	<0.020	ug/L				
6317652	Total Strontium (Sr)	2019/09/05	NC	80 - 120	98	80 - 120	<1.0	ug/L				
6317652	Total Thallium (Tl)	2019/09/05	100	80 - 120	102	80 - 120	<0.010	ug/L				
6317652	Total Tin (Sn)	2019/09/05	103	80 - 120	100	80 - 120	<5.0	ug/L				
6317652	Total Titanium (Ti)	2019/09/05	101	80 - 120	98	80 - 120	<5.0	ug/L				
6317652	Total Uranium (U)	2019/09/05	103	80 - 120	100	80 - 120	<0.10	ug/L				
6317652	Total Vanadium (V)	2019/09/05	100	80 - 120	98	80 - 120	<5.0	ug/L				
6317652	Total Zinc (Zn)	2019/09/05	NC	80 - 120	99	80 - 120	<5.0	ug/L				
6317652	Total Zirconium (Zr)	2019/09/05	109	80 - 120	103	80 - 120	<0.10	ug/L				
6318584	Radium-226	2019/09/16			86	85 - 115	<0.0050	Bq/L				
6321220	Reactive Silica (SiO2)	2019/09/05	92	80 - 120	99	80 - 120	<0.050	mg/L	6.4	20		

N/A = Not Applicable

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.

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 <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B900837

Report Date: 2019/09/18

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: KB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Harry (Peng) Liang, Senior Analyst

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Rob Reinert, B.Sc., Scientific Specialist

Steven Simpson, Lab Director

BV Labs 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

BV Labs Job #: B9O0837

Report Date: 2019/09/18

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: KB

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your Project #: Campobello job# B9P4257

Attention: Alisha Williamson

BUREAU VERITAS
CAMPOBELLO
6740 CAMPOBELLO ROAD
MISSISSAUGA, ON
CANADA L5N 2L8

Report Date: 2019/10/04

Report #: R2791755

Version: 4 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: B976449

Received: 2019/09/12, 10:55

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride/Sulphate by Auto Colourimetry	2	N/A	2019/10/04	AB SOP-00020 / AB SOP-00018	SM23-4500-Cl/SO4-E m
Cyanide (Free)	2	2019/09/16	2019/09/16	CAL SOP-00266	EPA 9016d R0 m
Conductivity @25C	2	N/A	2019/10/02	AB SOP-00005	SM 23 2510 B m
Elements by ICP-Dissolved-Lab Filtered (1)	2	N/A	2019/10/04	AB SOP-00042	EPA 6010d R5 m
pH @25°C (2)	2	N/A	2019/10/04	AB SOP-00005	SM 23 4500-H+B m
Salinity by Conductivity Method	2	N/A	2019/10/03		Auto Calc
Sodium Adsorption Ratio	2	N/A	2019/10/04		Auto Calc
Silica (Reactive)	2	N/A	2019/09/15	AB SOP-00011	EPA 370.1 R1978 m
Total Dissolved Solids (Calc. from EC)	2	N/A	2019/10/04		Auto Calc

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(2) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are



Your Project #: Campobello job# B9P4257

Attention: Alisha Williamson

BUREAU VERITAS
CAMPOBELLO
6740 CAMPOBELLO ROAD
MISSISSAUGA, ON
CANADA L5N 2L8

Report Date: 2019/10/04

Report #: R2791755

Version: 4 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: B976449

Received: 2019/09/12, 10:55

reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.

Encryption Key

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

Customer Solutions, Western Canada Customer Experience Team

Email: customersolutionswest@bvlabs.com

Phone# (403) 291-3077

=====

BV Labs 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.

**SALINITY WATER (WATER)**

BV Labs ID		WL9125	WL9126			WL9126	
Sampling Date		2019/08/23 14:10	2019/08/23 14:10			2019/08/23 14:10	
	UNITS	MEL-26	MEL-26 DUP	RDL	QC Batch	MEL-26 DUP Lab-Dup	QC Batch
Calculated Parameters							
Sodium Adsorption Ratio	N/A	26	26	0.10	9614118		
Total dissolved solids (calc., EC)	mg/L	22000	23000	10	9614378		
Misc. Inorganics							
pH	pH	7.39	7.30	N/A	9614595	7.43	9614595
Anions							
Dissolved Chloride (Cl)	mg/L	7400 (1)	7300 (1)	50	9614975		
Dissolved Sulphate (SO ₄)	mg/L	850 (1)	850 (1)	5.0	9614975		
Lab Filtered Elements							
Dissolved Calcium (Ca)	mg/L	860 (1)	860 (1)	3.0	9614643		
Dissolved Magnesium (Mg)	mg/L	440	440	0.20	9614643		
Dissolved Potassium (K)	mg/L	140	150	0.30	9614643		
Dissolved Sodium (Na)	mg/L	3800 (1)	3800 (1)	5.0	9614643		
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Detection limits raised due to dilution to bring analyte within the calibrated range.							



BUREAU
VERITAS

BV Labs Job #: B976449
Report Date: 2019/10/04

BUREAU VERITAS
Client Project #: Campobello job# B9P4257
Sampler Initials: SA

RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID		WL9125			WL9125			WL9126		
Sampling Date		2019/08/23 14:10			2019/08/23 14:10			2019/08/23 14:10		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch	MEL-26 DUP	RDL	QC Batch
Calculated Parameters										
Salinity	N/A	14	2.0	9612737				15	2.0	9612737
Misc. Inorganics										
Conductivity	uS/cm	22000	2.0	9611237				23000	2.0	9611237
Free Cyanide (CN)	ug/L	<1.0 (1)	1.0	9589403	<1.0	1.0	9589403	<1.0	1.0	9589403
Reactive Silica	mg/L	8.0	0.050	9589312	7.6	0.050	9589312	12 (2)	0.10	9589312
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W (2) Detection limits raised due to dilution to bring analyte within the calibrated range.										



BUREAU
VERITAS

BV Labs Job #: B976449

Report Date: 2019/10/04

BUREAU VERITAS

Client Project #: Campobello job# B9P4257

Sampler Initials: SA

TEST SUMMARY

BV Labs ID: WL9125

Sample ID: MEL-26

Matrix: Water

Collected: 2019/08/23

Shipped:

Received: 2019/09/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride/Sulphate by Auto Colourimetry	KONE	9614975	N/A	2019/10/04	Zafar Iqbal
Cyanide (Free)	SPEC	9589403	2019/09/16	2019/09/16	Taylor Mullings
Conductivity @25C	COND	9611237	N/A	2019/10/02	Ilonka Kovac
Elements by ICP-Dissolved-Lab Filtered	ICPA	9614643	N/A	2019/10/04	Mary Anne Dela Cruz
pH @25°C	AT/ALK	9614595	N/A	2019/10/04	Ilonka Kovac
Salinity by Conductivity Method	CALC	9612737	N/A	2019/10/03	Ghayasuddin Khan
Sodium Adsorption Ratio	CALC	9614118	N/A	2019/10/04	Automated Statchk
Silica (Reactive)	KONE/SL	9589312	N/A	2019/09/15	Serena Tian
Total Dissolved Solids (Calc. from EC)	CALC	9614378	N/A	2019/10/04	Automated Statchk

BV Labs ID: WL9125 Dup

Sample ID: MEL-26

Matrix: Water

Collected: 2019/08/23

Shipped:

Received: 2019/09/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (Free)	SPEC	9589403	2019/09/16	2019/09/16	Taylor Mullings
Silica (Reactive)	KONE/SL	9589312	N/A	2019/09/15	Serena Tian

BV Labs ID: WL9126

Sample ID: MEL-26 DUP

Matrix: Water

Collected: 2019/08/23

Shipped:

Received: 2019/09/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride/Sulphate by Auto Colourimetry	KONE	9614975	N/A	2019/10/04	Zafar Iqbal
Cyanide (Free)	SPEC	9589403	2019/09/16	2019/09/16	Taylor Mullings
Conductivity @25C	COND	9611237	N/A	2019/10/02	Ilonka Kovac
Elements by ICP-Dissolved-Lab Filtered	ICPA	9614643	N/A	2019/10/04	Mary Anne Dela Cruz
pH @25°C	AT/ALK	9614595	N/A	2019/10/04	Ilonka Kovac
Salinity by Conductivity Method	CALC	9612737	N/A	2019/10/03	Ghayasuddin Khan
Sodium Adsorption Ratio	CALC	9614118	N/A	2019/10/04	Automated Statchk
Silica (Reactive)	KONE/SL	9589312	N/A	2019/09/15	Serena Tian
Total Dissolved Solids (Calc. from EC)	CALC	9614378	N/A	2019/10/04	Automated Statchk

BV Labs ID: WL9126 Dup

Sample ID: MEL-26 DUP

Matrix: Water

Collected: 2019/08/23

Shipped:

Received: 2019/09/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH @25°C	AT/ALK	9614595	N/A	2019/10/04	Ilonka Kovac



GENERAL COMMENTS

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

Package 1	3.0°C

Sample WL9125 [MEL-26] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

Sample was analyzed past method specified hold time for Cyanide (Free). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample WL9126 [MEL-26 DUP] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

Sample was analyzed past method specified hold time for Cyanide (Free). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B976449

Report Date: 2019/10/04

QUALITY ASSURANCE REPORT

BUREAU VERITAS

Client Project #: Campobello job# B9P4257

Sampler Initials: SA

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9589312	Reactive Silica	2019/09/15	NC	80 - 120	101	80 - 120	<0.050	mg/L	5.5	20
9589403	Free Cyanide (CN)	2019/09/16	93	80 - 120	95	80 - 120	<1.0	ug/L	NC	20
9611237	Conductivity	2019/10/02			97	90 - 110	<2.0	uS/cm	0.88	10
9614595	pH	2019/10/04			100	97 - 103			1.8	N/A
9614643	Dissolved Calcium (Ca)	2019/10/04	94	80 - 120	100	80 - 120	<0.30	mg/L	0.43	20
9614643	Dissolved Magnesium (Mg)	2019/10/04	93	80 - 120	101	80 - 120	<0.20	mg/L	0.097	20
9614643	Dissolved Potassium (K)	2019/10/04	95	80 - 120	99	80 - 120	<0.30	mg/L	0.011	20
9614643	Dissolved Sodium (Na)	2019/10/04	NC	80 - 120	102	80 - 120	<0.50	mg/L	1.1	20
9614975	Dissolved Chloride (Cl)	2019/10/04	NC	80 - 120	104	80 - 120	<1.0	mg/L	0.21	20
9614975	Dissolved Sulphate (SO4)	2019/10/04	NC	80 - 120	103	80 - 120	<1.0	mg/L	1.4	20

N/A = Not Applicable

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.

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.

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 $\leq 2 \times \text{RDL}$).



BUREAU
VERITAS

BV Labs Job #: B976449
Report Date: 2019/10/04

BUREAU VERITAS
Client Project #: Campobello job# B9P4257
Sampler Initials: SA

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Harry (Peng) Liang, Senior Analyst

BV Labs 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.



Your P.O. #: OL-762849
 Site#: 62°48'01.99" 92°06'00.05"
 Site Location: MELIADINE
 Your C.O.C. #: N/A

Attention: Reporting

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

Report Date: 2019/10/08
 Report #: R5912435
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9P4257

Received: 2019/09/11, 10:35

Sample Matrix: Water
 # Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	2	N/A	2019/09/13	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	2	N/A	2019/09/16	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	2	N/A	2019/09/13	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	2	N/A	2019/09/13	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	2	N/A	2019/09/12	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	2	2019/09/12	2019/09/12	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	2	N/A	2019/09/13	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	2	2019/09/12	2019/09/12	CAM SOP-00427	SM 23 4500 O G m
Dissolved Mercury (low level) (1)	2	2019/09/12	2019/09/12	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	2	2019/09/12	2019/09/12	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	2	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 6)	2	N/A	2019/09/16	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	2	N/A	2019/09/16	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	2	N/A	2019/09/16	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	2	N/A	2019/09/16	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	2	2019/09/12	2019/09/16	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	2	2019/09/16	2019/09/16	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	2	N/A	2019/09/15	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	2	N/A	2019/09/17	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 7)	2	N/A	2019/09/16	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	2	2019/09/12	2019/09/13	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	2	N/A	2019/09/13	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 8)	2	N/A	2019/09/17	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	2	N/A	2019/09/13	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	2	2019/09/12	2019/09/13	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	2	2019/09/12	2019/09/17	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 9)	1	N/A	2019/09/12	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (1, 9)	1	N/A	2019/09/13	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	2	2019/09/12	2019/09/12	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	2	2019/09/12	2019/09/12	CAM SOP-00428	SM 23 2540D m



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE
Your C.O.C. #: N/A

Attention: Reporting

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

Report Date: 2019/10/08
Report #: R5912435
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9P4257

Received: 2019/09/11, 10:35

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Turbidity (1)	2	N/A	2019/09/12	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(6) "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).

(7) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(8) Radium-226 results have not been corrected for blanks.

(9) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE
Your C.O.C. #: N/A

Attention: Reporting

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

Report Date: 2019/10/08
Report #: R5912435
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9P4257
Received: 2019/09/11, 10:35

Encryption Key

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

BV Labs 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

BV Labs Job #: B9P4257
Report Date: 2019/10/08

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KTH941	KTH942		
Sampling Date		2019/09/09 06:00	2019/09/09 06:00		
COC Number		N/A	N/A		
	UNITS	MEL-26	MEL-26 DUP	RDL	QC Batch
Calculated Parameters					
Dissolved Hardness (CaCO ₃)	mg/L	4010	4040	0.50	6337845
Metals					
Dissolved Aluminum (Al)	ug/L	166	168	30	6337847
Dissolved Antimony (Sb)	ug/L	<5.0	<5.0	5.0	6337847
Dissolved Arsenic (As)	ug/L	13.7	12.8	1.0	6337847
Dissolved Barium (Ba)	ug/L	187	191	10	6337847
Dissolved Beryllium (Be)	ug/L	<1.0	<1.0	1.0	6337847
Dissolved Bismuth (Bi)	ug/L	<10	<10	10	6337847
Dissolved Boron (B)	ug/L	639	637	500	6337847
Dissolved Cadmium (Cd)	ug/L	0.13	0.11	0.10	6337847
Dissolved Chromium (Cr)	ug/L	<10	<10	10	6337847
Dissolved Cobalt (Co)	ug/L	4.1	4.2	2.0	6337847
Dissolved Copper (Cu)	ug/L	4.0	4.0	2.0	6337847
Dissolved Iron (Fe)	ug/L	<50	<50	50	6337847
Dissolved Lead (Pb)	ug/L	2.2	2.1	2.0	6337847
Dissolved Lithium (Li)	ug/L	428	441	20	6337847
Dissolved Manganese (Mn)	ug/L	42	43	10	6337847
Dissolved Molybdenum (Mo)	ug/L	17	15	10	6337847
Dissolved Nickel (Ni)	ug/L	22	22	10	6337847
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	1.0	6337847
Dissolved Silicon (Si)	ug/L	1360	1370	1000	6337847
Dissolved Silver (Ag)	ug/L	<0.20	<0.20	0.20	6337847
Dissolved Strontium (Sr)	ug/L	20800	20600	10	6337847
Dissolved Thallium (Tl)	ug/L	0.10	0.10	0.10	6337847
Dissolved Tin (Sn)	ug/L	<50	<50	50	6337847
Dissolved Titanium (Ti)	ug/L	<50	<50	50	6337847
Dissolved Uranium (U)	ug/L	4.8	4.8	1.0	6337847
Dissolved Vanadium (V)	ug/L	<50	<50	50	6337847
Dissolved Zinc (Zn)	ug/L	<50	<50	50	6337847
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	6337847
Dissolved Calcium (Ca)	mg/L	856	866	0.50	6337846
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

BV Labs Job #: B9P4257
Report Date: 2019/10/08

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KTH941	KTH942		
Sampling Date		2019/09/09 06:00	2019/09/09 06:00		
COC Number		N/A	N/A		
	UNITS	MEL-26	MEL-26 DUP	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	454	457	0.50	6337846
Dissolved Potassium (K)	mg/L	139	139	0.50	6337846
Dissolved Sodium (Na)	mg/L	3530	3570	0.50	6337846
Dissolved Sulphur (S)	mg/L	320	323	30	6337846
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

BV Labs Job #: B9P4257
Report Date: 2019/10/08

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KTH941	KTH942		
Sampling Date		2019/09/09 06:00	2019/09/09 06:00		
COC Number		N/A	N/A		
	UNITS	MEL-26	MEL-26 DUP	RDL	QC Batch
Metals					
Total Aluminum (Al)	ug/L	310	307	30	6337844
Total Antimony (Sb)	ug/L	<5.0	<5.0	5.0	6337844
Total Arsenic (As)	ug/L	10.7	10.8	1.0	6337844
Total Barium (Ba)	ug/L	182	192	10	6337844
Total Beryllium (Be)	ug/L	<1.0	<1.0	1.0	6337844
Total Bismuth (Bi)	ug/L	<10	<10	10	6337844
Total Boron (B)	ug/L	584	607	500	6337844
Total Cadmium (Cd)	ug/L	0.13	0.13	0.10	6337844
Total Chromium (Cr)	ug/L	<10	<10	10	6337844
Total Cobalt (Co)	ug/L	4.0	4.1	2.0	6337844
Total Copper (Cu)	ug/L	<5.0	<5.0	5.0	6337844
Total Iron (Fe)	ug/L	<100	<100	100	6337844
Total Lead (Pb)	ug/L	2.2	2.2	2.0	6337844
Total Lithium (Li)	ug/L	415	436	20	6337844
Total Manganese (Mn)	ug/L	46	47	10	6337844
Total Molybdenum (Mo)	ug/L	14	14	10	6337844
Total Nickel (Ni)	ug/L	22	22	10	6337844
Total Selenium (Se)	ug/L	<1.0	<1.0	1.0	6337844
Total Silicon (Si)	ug/L	1320	1410	1000	6337844
Total Silver (Ag)	ug/L	<0.20	<0.20	0.20	6337844
Total Strontium (Sr)	ug/L	20100	21100	10	6337844
Total Thallium (Tl)	ug/L	0.10	0.11	0.10	6337844
Total Tin (Sn)	ug/L	<50	<50	50	6337844
Total Titanium (Ti)	ug/L	<50	<50	50	6337844
Total Uranium (U)	ug/L	4.7	4.9	1.0	6337844
Total Vanadium (V)	ug/L	<50	<50	50	6337844
Total Zinc (Zn)	ug/L	<50	<50	50	6337844
Total Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	6337844
Total Calcium (Ca)	ug/L	832000	856000	500	6337843
Total Magnesium (Mg)	ug/L	441000	457000	500	6337843
Total Potassium (K)	ug/L	136000	142000	500	6337843
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

BV Labs Job #: B9P4257
Report Date: 2019/10/08

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KTH941	KTH942		
Sampling Date		2019/09/09 06:00	2019/09/09 06:00		
COC Number		N/A	N/A		
	UNITS	MEL-26	MEL-26 DUP	RDL	QC Batch
Total Sodium (Na)	ug/L	3380000	3530000	500	6337843
Total Sulphur (S)	ug/L	308000	324000	30000	6337843
Calculated Parameters					
Total Hardness (CaCO3)	ug/L	3890000	4020000	500	6337842
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

BV Labs Job #: B9P4257
Report Date: 2019/10/08

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

RESULTS OF ANALYSES OF WATER

BV Labs ID		KTH941			KTH941			KTH942		
Sampling Date		2019/09/09 06:00			2019/09/09 06:00			2019/09/09 06:00		
COC Number		N/A			N/A			N/A		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch	MEL-26 DUP	RDL	QC Batch

Calculated Parameters

Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	64	1.0	6328442				63	1.0	6328442
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6328442				<1.0	1.0	6328442

Inorganics

Total Ammonia-N	mg/L	6.0	0.050	6336357				5.7	0.050	6329171
Conductivity	umho/cm	23000	1.0	6329193				23000	1.0	6329193
Free Cyanide (CN)	ug/L	<1.0 (1)	1.0	6335522	<1.0	1.0	6335522	<1.0	1.0	6335522
Total Dissolved Solids	mg/L	15300	20	6329710				14900	20	6329710
Total Kjeldahl Nitrogen (TKN)	mg/L	16	2.0	6328648				16	2.0	6328648
Dissolved Organic Carbon	mg/L	18	0.50	6328740	18	0.50	6328740	18	0.50	6328740
Total Organic Carbon (TOC)	mg/L	19	0.50	6329207	19	0.50	6329207	19	0.50	6329207
Orthophosphate (P)	mg/L	0.017	0.010	6329603				0.018	0.010	6329603
Dissolved Oxygen	mg/L	10.2		6329337				9.85		6329337
pH	pH	7.44		6329194				7.44		6329194
Total Phosphorus	mg/L	0.071	0.020	6328611				0.082	0.020	6328611
Reactive Silica (SiO ₂)	mg/L	8.0	0.050	6335535	7.6	0.050	6335535	12 (2)	0.10	6335535
Total Suspended Solids	mg/L	11	1	6328304				11	1	6328304
Dissolved Sulphate (SO ₄)	mg/L	820	5.0	6329601				820	5.0	6329601
Total Cyanide (CN)	mg/L	0.0072	0.0050	6328646				0.0074	0.0050	6328646
Turbidity	NTU	0.3	0.1	6328434				0.3	0.1	6328434
WAD Cyanide (Free)	mg/L	0.0022	0.0010	6328655				0.0023	0.0010	6328655
Alkalinity (Total as CaCO ₃)	mg/L	64	1.0	6329140				63	1.0	6329140
Dissolved Chloride (Cl ⁻)	mg/L	8500	80	6329596				8000	80	6329596
Nitrite (N)	mg/L	<0.010	0.010	6329313				<0.010	0.010	6329313
Nitrate (N)	mg/L	48.7	0.50	6329313				48.5	0.50	6329313
Nitrate + Nitrite (N)	mg/L	48.7	0.50	6329313				48.5	0.50	6329313

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) See general comments for notes regarding CNFREE-W

(2) Detection limits raised due to dilution to bring analyte within the calibrated range.



BUREAU
VERITAS

BV Labs Job #: B9P4257
Report Date: 2019/10/08

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

RESULTS OF ANALYSES OF WATER

BV Labs ID		KTH941			KTH941			KTH942		
Sampling Date		2019/09/09 06:00			2019/09/09 06:00			2019/09/09 06:00		
COC Number		N/A			N/A			N/A		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch	MEL-26 DUP	RDL	QC Batch

RADIONUCLIDE

Radium-226	Bq/L	0.13	0.0050	6331710				0.10	0.0050	6331710

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

BV Labs ID		KTH942		
Sampling Date		2019/09/09 06:00		
COC Number		N/A		
	UNITS	MEL-26 DUP Lab-Dup	RDL	QC Batch

Inorganics

Total Ammonia-N	mg/L	5.7	0.050	6329171

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: B9P4257
Report Date: 2019/10/08

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KTH941	KTH942			KTH942		
Sampling Date		2019/09/09 06:00	2019/09/09 06:00			2019/09/09 06:00		
COC Number		N/A	N/A			N/A		
	UNITS	MEL-26	MEL-26 DUP	RDL	QC Batch	MEL-26 DUP Lab-Dup	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00001	<0.00001	0.00001	6328544	<0.00001	0.00001	6328544
Dissolved Mercury (Hg)	mg/L	<0.00001	<0.00001	0.00001	6328553			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								



BUREAU
VERITAS

BV Labs Job #: B9P4257
Report Date: 2019/10/08

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

TEST SUMMARY

BV Labs ID: KTH941
Sample ID: MEL-26
Matrix: Water

Collected: 2019/09/09
Shipped:
Received: 2019/09/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6329140	N/A	2019/09/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6328442	N/A	2019/09/16	Automated Statchk
Chloride by Automated Colourimetry	KONE	6329596	N/A	2019/09/13	Deonarine Ramnarine
Conductivity	AT	6329193	N/A	2019/09/13	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6328655	N/A	2019/09/12	Gnana Thomas
Total Cyanide	SKAL/CN	6328646	2019/09/12	2019/09/12	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6328740	N/A	2019/09/13	Mandeep Kaur
Dissolved Oxygen	DO	6329337	2019/09/12	2019/09/12	Nusrat Naz
Dissolved Mercury (low level)	CV/AA	6328553	2019/09/12	2019/09/12	Medhat Nasr
Mercury (low level)	CV/AA	6328544	2019/09/12	2019/09/12	Medhat Nasr
Cyanide (Free)	SPEC	6335522	2019/09/16	2019/09/16	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6337842	N/A	2019/09/16	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6337845	N/A	2019/09/16	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6337846	N/A	2019/09/16	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6337847	N/A	2019/09/16	Adnan Dzebic
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6337843	2019/09/16	2019/09/16	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6337844	2019/09/16	2019/09/16	Vanessa Chan
Silica (Reactive)	KONE	6335535	N/A	2019/09/15	Serena Tian
Total Ammonia-N	LACH/NH ₄	6336357	N/A	2019/09/17	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6329313	N/A	2019/09/16	Chandra Nandlal
pH	AT	6329194	2019/09/12	2019/09/13	Surinder Rai
Orthophosphate	KONE	6329603	N/A	2019/09/13	Alina Dobreanu
Radium-226 Low Level	AS	6331710	N/A	2019/09/17	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6329601	N/A	2019/09/13	Alina Dobreanu
Total Dissolved Solids	BAL	6329710	2019/09/12	2019/09/13	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6328648	2019/09/12	2019/09/17	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6329207	N/A	2019/09/12	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6328611	2019/09/12	2019/09/12	Shivani Shivani
Low Level Total Suspended Solids	BAL	6328304	2019/09/12	2019/09/12	Massarat Jan
Turbidity	AT	6328434	N/A	2019/09/12	Kazzandra Adeva

BV Labs ID: KTH941 Dup
Sample ID: MEL-26
Matrix: Water

Collected: 2019/09/09
Shipped:
Received: 2019/09/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6328740	N/A	2019/09/13	Mandeep Kaur
Cyanide (Free)	SPEC	6335522	2019/09/16	2019/09/16	Taylor Mullings
Silica (Reactive)	KONE	6335535	N/A	2019/09/15	Serena Tian
Total Organic Carbon (TOC)	TOCV/NDIR	6329207	N/A	2019/09/12	Mandeep Kaur



BUREAU
VERITAS

BV Labs Job #: B9P4257

Report Date: 2019/10/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SA

TEST SUMMARY

BV Labs ID: KTH942
Sample ID: MEL-26 DUP
Matrix: Water

Collected: 2019/09/09
Shipped:
Received: 2019/09/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6329140	N/A	2019/09/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6328442	N/A	2019/09/16	Automated Statchk
Chloride by Automated Colourimetry	KONE	6329596	N/A	2019/09/13	Deonarine Ramnarine
Conductivity	AT	6329193	N/A	2019/09/13	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6328655	N/A	2019/09/12	Gnana Thomas
Total Cyanide	SKAL/CN	6328646	2019/09/12	2019/09/12	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6328740	N/A	2019/09/13	Mandeep Kaur
Dissolved Oxygen	DO	6329337	2019/09/12	2019/09/12	Nusrat Naz
Dissolved Mercury (low level)	CV/AA	6328553	2019/09/12	2019/09/12	Medhat Nasr
Mercury (low level)	CV/AA	6328544	2019/09/12	2019/09/12	Medhat Nasr
Cyanide (Free)	SPEC	6335522	2019/09/16	2019/09/16	Taylor Mullings
Hardness Total (calculated as CaCO ₃)	CALC	6337842	N/A	2019/09/16	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6337845	N/A	2019/09/16	Report Automation Engine
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6337846	N/A	2019/09/16	Report Automation Engine
Elements by CRC ICPMS (dissolved)	ICP/MS	6337847	N/A	2019/09/16	Adnan Dzebic
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6337843	2019/09/16	2019/09/16	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6337844	2019/09/16	2019/09/16	Vanessa Chan
Silica (Reactive)	KONE	6335535	N/A	2019/09/15	Serena Tian
Total Ammonia-N	LACH/NH ₄	6329171	N/A	2019/09/17	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6329313	N/A	2019/09/16	Chandra Nandlal
pH	AT	6329194	2019/09/12	2019/09/13	Surinder Rai
Orthophosphate	KONE	6329603	N/A	2019/09/13	Alina Dobreanu
Radium-226 Low Level	AS	6331710	N/A	2019/09/17	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6329601	N/A	2019/09/13	Alina Dobreanu
Total Dissolved Solids	BAL	6329710	2019/09/12	2019/09/13	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6328648	2019/09/12	2019/09/17	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6329207	N/A	2019/09/13	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6328611	2019/09/12	2019/09/12	Shivani Shivani
Low Level Total Suspended Solids	BAL	6328304	2019/09/12	2019/09/12	Massarat Jan
Turbidity	AT	6328434	N/A	2019/09/12	Kazzandra Adeva

BV Labs ID: KTH942 Dup
Sample ID: MEL-26 DUP
Matrix: Water

Collected: 2019/09/09
Shipped:
Received: 2019/09/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury (low level)	CV/AA	6328544	2019/09/12	2019/09/12	Medhat Nasr
Total Ammonia-N	LACH/NH ₄	6329171	N/A	2019/09/17	Mazin Wakai



GENERAL COMMENTS

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

Package 1	3.3°C

Sample KTH941 [MEL-26] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

Sample was analyzed past method specified hold time for Cyanide (Free). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample KTH942 [MEL-26 DUP] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

Sample was analyzed past method specified hold time for Cyanide (Free). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Sample KTH941 [MEL-26] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

Sample KTH942 [MEL-26 DUP] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Sample KTH941 [MEL-26] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required.

Sample KTH942 [MEL-26 DUP] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required.

Results relate only to the items tested.

BUREAU
VERITAS

BV Labs Job #: B9P4257

Report Date: 2019/10/08

QUALITY ASSURANCE REPORT

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SA

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
6328304	Total Suspended Solids	2019/09/12					<1	mg/L	6.3	25	98	85 - 115
6328434	Turbidity	2019/09/12			97	85 - 115	<0.1	NTU	15	20		
6328544	Mercury (Hg)	2019/09/12	99	75 - 125	99	80 - 120	<0.00001	mg/L	NC	20		
6328553	Dissolved Mercury (Hg)	2019/09/12	96	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6328611	Total Phosphorus	2019/09/12	99	80 - 120	98	80 - 120	<0.020	mg/L	6.8	20	101	80 - 120
6328646	Total Cyanide (CN)	2019/09/12	98	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
6328648	Total Kjeldahl Nitrogen (TKN)	2019/09/16	95	80 - 120	100	80 - 120	<0.10	mg/L	5.3	20	97	80 - 120
6328655	WAD Cyanide (Free)	2019/09/12	100	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
6328740	Dissolved Organic Carbon	2019/09/13	95	80 - 120	98	80 - 120	<0.50	mg/L	0.39	20		
6329140	Alkalinity (Total as CaCO3)	2019/09/13			94	85 - 115	<1.0	mg/L	1.4	20		
6329171	Total Ammonia-N	2019/09/17	93	75 - 125	101	80 - 120	<0.050	mg/L	0.070	20		
6329193	Conductivity	2019/09/13			102	85 - 115	<1.0	umho/cm	0	25		
6329194	pH	2019/09/13			102	98 - 103			0.055	N/A		
6329207	Total Organic Carbon (TOC)	2019/09/12	94	80 - 120	97	80 - 120	<0.50	mg/L	0.27	20		
6329313	Nitrate (N)	2019/09/16	105	80 - 120	106	80 - 120	<0.10	mg/L	NC	20		
6329313	Nitrite (N)	2019/09/16	104	80 - 120	104	80 - 120	<0.010	mg/L	NC	20		
6329596	Dissolved Chloride (Cl-)	2019/09/13	NC	80 - 120	103	80 - 120	<1.0	mg/L	0.029	20		
6329601	Dissolved Sulphate (SO4)	2019/09/13	114	75 - 125	100	80 - 120	<1.0	mg/L	0.59	20		
6329603	Orthophosphate (P)	2019/09/13	107	75 - 125	98	80 - 120	<0.010	mg/L	NC	25		
6329710	Total Dissolved Solids	2019/09/13					<10	mg/L	5.1	25	102	90 - 110
6331710	Radium-226	2019/09/17			89	85 - 115	<0.0050	Bq/L	NC	N/A		
6335522	Free Cyanide (CN)	2019/09/16	93	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
6335535	Reactive Silica (SiO2)	2019/09/15	NC	80 - 120	101	80 - 120	<0.050	mg/L	5.5	20		
6336357	Total Ammonia-N	2019/09/17	101	75 - 125	100	80 - 120	<0.050	mg/L	3.8 (1)	20		
6337844	Total Aluminum (Al)	2019/09/16	99	80 - 120	100	80 - 120	<3.0	ug/L				
6337844	Total Antimony (Sb)	2019/09/16	102	80 - 120	102	80 - 120	<0.50	ug/L				
6337844	Total Arsenic (As)	2019/09/16	102	80 - 120	100	80 - 120	<0.10	ug/L				
6337844	Total Barium (Ba)	2019/09/16	98	80 - 120	100	80 - 120	<1.0	ug/L				
6337844	Total Beryllium (Be)	2019/09/16	97	80 - 120	98	80 - 120	<0.10	ug/L				
6337844	Total Bismuth (Bi)	2019/09/16	98	80 - 120	103	80 - 120	<1.0	ug/L				
6337844	Total Boron (B)	2019/09/16	95	80 - 120	98	80 - 120	<50	ug/L				



BUREAU
VERITAS

BV Labs Job #: B9P4257

Report Date: 2019/10/08

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SA

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
6337844	Total Cadmium (Cd)	2019/09/16	99	80 - 120	100	80 - 120	<0.010	ug/L				
6337844	Total Chromium (Cr)	2019/09/16	95	80 - 120	97	80 - 120	<1.0	ug/L				
6337844	Total Cobalt (Co)	2019/09/16	92	80 - 120	95	80 - 120	<0.20	ug/L				
6337844	Total Copper (Cu)	2019/09/16	91	80 - 120	95	80 - 120	<0.50	ug/L				
6337844	Total Iron (Fe)	2019/09/16	98	80 - 120	102	80 - 120	<10	ug/L				
6337844	Total Lead (Pb)	2019/09/16	100	80 - 120	104	80 - 120	<0.20	ug/L				
6337844	Total Lithium (Li)	2019/09/16	95	80 - 120	97	80 - 120	<2.0	ug/L				
6337844	Total Manganese (Mn)	2019/09/16	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6337844	Total Molybdenum (Mo)	2019/09/16	105	80 - 120	102	80 - 120	<1.0	ug/L				
6337844	Total Nickel (Ni)	2019/09/16	92	80 - 120	96	80 - 120	<1.0	ug/L				
6337844	Total Selenium (Se)	2019/09/16	101	80 - 120	100	80 - 120	<0.10	ug/L				
6337844	Total Silicon (Si)	2019/09/16	NC	80 - 120	107	80 - 120	<100	ug/L				
6337844	Total Silver (Ag)	2019/09/16	97	80 - 120	100	80 - 120	<0.020	ug/L				
6337844	Total Strontium (Sr)	2019/09/16	NC	80 - 120	103	80 - 120	<1.0	ug/L				
6337844	Total Thallium (Tl)	2019/09/16	100	80 - 120	102	80 - 120	<0.010	ug/L				
6337844	Total Tin (Sn)	2019/09/16	98	80 - 120	103	80 - 120	<5.0	ug/L				
6337844	Total Titanium (Ti)	2019/09/16	99	80 - 120	100	80 - 120	<5.0	ug/L				
6337844	Total Uranium (U)	2019/09/16	103	80 - 120	104	80 - 120	<0.10	ug/L				
6337844	Total Vanadium (V)	2019/09/16	98	80 - 120	100	80 - 120	<5.0	ug/L				
6337844	Total Zinc (Zn)	2019/09/16	96	80 - 120	98	80 - 120	<5.0	ug/L				
6337844	Total Zirconium (Zr)	2019/09/16	102	80 - 120	103	80 - 120	<0.10	ug/L				
6337847	Dissolved Aluminum (Al)	2019/09/16	102	80 - 120	103	80 - 120	<3.0	ug/L				
6337847	Dissolved Antimony (Sb)	2019/09/16	103	80 - 120	103	80 - 120	<0.50	ug/L				
6337847	Dissolved Arsenic (As)	2019/09/16	106	80 - 120	102	80 - 120	<0.10	ug/L				
6337847	Dissolved Barium (Ba)	2019/09/16	101	80 - 120	101	80 - 120	<1.0	ug/L				
6337847	Dissolved Beryllium (Be)	2019/09/16	102	80 - 120	102	80 - 120	<0.10	ug/L				
6337847	Dissolved Bismuth (Bi)	2019/09/16	101	80 - 120	103	80 - 120	<1.0	ug/L				
6337847	Dissolved Boron (B)	2019/09/16	97	80 - 120	99	80 - 120	<50	ug/L				
6337847	Dissolved Cadmium (Cd)	2019/09/16	101	80 - 120	102	80 - 120	<0.010	ug/L				
6337847	Dissolved Chromium (Cr)	2019/09/16	96	80 - 120	98	80 - 120	<1.0	ug/L				
6337847	Dissolved Cobalt (Co)	2019/09/16	95	80 - 120	97	80 - 120	<0.20	ug/L				
6337847	Dissolved Copper (Cu)	2019/09/16	94	80 - 120	97	80 - 120	<0.20	ug/L				



BUREAU
VERITAS

BV Labs Job #: B9P4257

Report Date: 2019/10/08

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: SA

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
6337847	Dissolved Iron (Fe)	2019/09/16	NC	80 - 120	103	80 - 120	<5.0	ug/L				
6337847	Dissolved Lead (Pb)	2019/09/16	103	80 - 120	104	80 - 120	<0.20	ug/L				
6337847	Dissolved Lithium (Li)	2019/09/16	100	80 - 120	101	80 - 120	<2.0	ug/L				
6337847	Dissolved Manganese (Mn)	2019/09/16	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6337847	Dissolved Molybdenum (Mo)	2019/09/16	106	80 - 120	104	80 - 120	<1.0	ug/L				
6337847	Dissolved Nickel (Ni)	2019/09/16	95	80 - 120	98	80 - 120	<1.0	ug/L				
6337847	Dissolved Selenium (Se)	2019/09/16	108	80 - 120	102	80 - 120	<0.10	ug/L				
6337847	Dissolved Silicon (Si)	2019/09/16	NC	80 - 120	107	80 - 120	<100	ug/L				
6337847	Dissolved Silver (Ag)	2019/09/16	100	80 - 120	101	80 - 120	<0.020	ug/L				
6337847	Dissolved Strontium (Sr)	2019/09/16	NC	80 - 120	104	80 - 120	<1.0	ug/L				
6337847	Dissolved Thallium (Tl)	2019/09/16	102	80 - 120	103	80 - 120	<0.010	ug/L				
6337847	Dissolved Tin (Sn)	2019/09/16	104	80 - 120	104	80 - 120	<5.0	ug/L				
6337847	Dissolved Titanium (Ti)	2019/09/16	101	80 - 120	98	80 - 120	<5.0	ug/L				
6337847	Dissolved Uranium (U)	2019/09/16	105	80 - 120	105	80 - 120	<0.10	ug/L				
6337847	Dissolved Vanadium (V)	2019/09/16	99	80 - 120	101	80 - 120	<5.0	ug/L				
6337847	Dissolved Zinc (Zn)	2019/09/16	102	80 - 120	104	80 - 120	<5.0	ug/L				
6337847	Dissolved Zirconium (Zr)	2019/09/16	104	80 - 120	104	80 - 120	<0.10	ug/L				

N/A = Not Applicable

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.

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 <= 2x RDL).

(1) Ammonia analysis was done from nutrient bottle



BUREAU
VERITAS

BV Labs Job #: B9P4257
Report Date: 2019/10/08

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

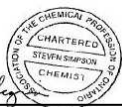
VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Harry (Peng) Liang, Senior Analyst

Rob Reinert, B.Sc., Scientific Specialist



Steven Simpson, Lab Director

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BUREAU
VERITAS

BV Labs Job #: B9P4257
Report Date: 2019/10/08

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: SA

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your Project #: MB905316
Site Location: MELIADINE
Your C.O.C. #: B905316-M060-01-01

Attention: Alisha Williamson

Agnico-Eagle
Meliadine
Rankin Inlet, NU
Canada X0C 0G0

Report Date: 2019/09/09
Report #: R2778415
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B974697

Received: 2019/09/06, 10:00

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Chloride/Sulphate by Auto Colourimetry	1	N/A	2019/09/08	AB SOP-00020 / AB SOP-00018	SM23-4500-Cl/SO4-E m
Conductivity @25C	1	N/A	2019/09/07	AB SOP-00005	SM 23 2510 B m
Elements by ICP-Dissolved-Lab Filtered (1)	1	N/A	2019/09/07	AB SOP-00042	EPA 6010d R5 m
pH @25°C (2)	1	N/A	2019/09/07	AB SOP-00005	SM 23 4500-H+B m
Sodium Adsorption Ratio	1	N/A	2019/09/09		Auto Calc
Total Dissolved Solids (Calc. from EC)	1	N/A	2019/09/09		Auto Calc

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(2) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.



Your Project #: MB905316
Site Location: MELIADINE
Your C.O.C. #: B905316-M060-01-01

Attention: Alisha Williamson

Agnico-Eagle
Meliadine
Rankin Inlet, NU
Canada X0C 0G0

Report Date: 2019/09/09
Report #: R2778415
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B974697
Received: 2019/09/06, 10:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Solutions, Western Canada Customer Experience Team
Email: customersolutionswest@bvlabs.com
Phone# (403) 291-3077

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Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: B974697
Report Date: 2019/09/09

Agnico-Eagle
Client Project #: MB9O5316
Site Location: MELIADINE
Sampler Initials: RS

SALINITY WATER (WATER)

BV Labs ID		WL1311		
Sampling Date		2019/09/02 06:50		
COC Number		B9O5316-M060-01-01		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	29	0.10	9578263
Total dissolved solids (calc., EC)	mg/L	30000	10	9578264
Misc. Inorganics				
Conductivity	uS/cm	30000	2.0	9578985
pH	pH	7.28	N/A	9578984
Anions				
Dissolved Chloride (Cl)	mg/L	9700 (1)	100	9579880
Dissolved Sulphate (SO ₄)	mg/L	1100 (1)	10	9579880
Lab Filtered Elements				
Dissolved Calcium (Ca)	mg/L	950 (1)	6.0	9579697
Dissolved Magnesium (Mg)	mg/L	630 (1)	4.0	9579697
Dissolved Potassium (K)	mg/L	190	0.30	9579697
Dissolved Sodium (Na)	mg/L	4700 (1)	10	9579697
RDL = Reportable Detection Limit N/A = Not Applicable (1) Detection limits raised due to dilution to bring analyte within the calibrated range.				



BUREAU
VERITAS

BV Labs Job #: B974697
Report Date: 2019/09/09

Agnico-Eagle
Client Project #: MB9O5316
Site Location: MELIADINE
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: WL1311
Sample ID: MEL-26
Matrix: Water

Collected: 2019/09/02
Shipped:
Received: 2019/09/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride/Sulphate by Auto Colourimetry	KONE	9579880	N/A	2019/09/08	Serena Tian
Conductivity @25C	COND	9578985	N/A	2019/09/07	Kathleen Dalton
Elements by ICP-Dissolved-Lab Filtered	ICPA	9579697	N/A	2019/09/07	Ahmed Loai
pH @25°C	AT/ALK	9578984	N/A	2019/09/07	Kathleen Dalton
Sodium Adsorption Ratio	CALC	9578263	N/A	2019/09/09	Automated Statchk
Total Dissolved Solids (Calc. from EC)	CALC	9578264	N/A	2019/09/09	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: B974697
Report Date: 2019/09/09

Agnico-Eagle
Client Project #: MB9O5316
Site Location: MELIADINE
Sampler Initials: RS

GENERAL COMMENTS

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

Package 1	4.7°C

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B974697

Report Date: 2019/09/09

QUALITY ASSURANCE REPORT

Agnico-Eagle

Client Project #: MB905316

Site Location: MELIADINE

Sampler Initials: RS

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9578984	pH	2019/09/07			100	97 - 103			1.4	N/A
9578985	Conductivity	2019/09/07			101	90 - 110	<2.0	uS/cm	0.059	10
9579697	Dissolved Calcium (Ca)	2019/09/07	93	80 - 120	93	80 - 120	<0.30	mg/L	NC	20
9579697	Dissolved Magnesium (Mg)	2019/09/07	98	80 - 120	99	80 - 120	<0.20	mg/L	NC	20
9579697	Dissolved Potassium (K)	2019/09/07	96	80 - 120	96	80 - 120	<0.30	mg/L	NC	20
9579697	Dissolved Sodium (Na)	2019/09/07	96	80 - 120	99	80 - 120	<0.50	mg/L	NC	20
9579880	Dissolved Chloride (Cl)	2019/09/08	101	80 - 120	101	80 - 120	<1.0	mg/L	NC	20
9579880	Dissolved Sulphate (SO ₄)	2019/09/08	100	80 - 120	101	80 - 120	<1.0	mg/L	NC	20

N/A = Not Applicable

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.

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.

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 $\leq 2 \times \text{RDL}$).



BUREAU
VERITAS

BV Labs Job #: B974697
Report Date: 2019/09/09

Agnico-Eagle
Client Project #: MB9O5316
Site Location: MELIADINE
Sampler Initials: RS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Harry (Peng) Liang, Senior Analyst

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Your P.O. #: OL-762849
Your Project #: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/18
Report #: R5884397
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9O5316

Received: 2019/09/04, 10:00

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/09/06	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/09/09	CAM SOP-00102	APHA 4500-CO2 D
Total Chlorine (1)	1	2019/09/05	2019/09/05	CAM SOP 00425	SM 23 4500-CL G m
Chloride by Automated Colourimetry (1)	1	N/A	2019/09/06	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	1	N/A	2019/09/06	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/09/05	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/09/05	2019/09/05	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/09/05	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/09/05	2019/09/05	CAM SOP-00427	SM 23 4500 O G m
Dissolved Mercury (low level) (1)	1	2019/09/05	2019/09/05	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/09/05	2019/09/05	CAM SOP-00453	EPA 7470 m
Cyanide (Free) (2)	1	N/A	N/A		
Hardness Total (calculated as CaCO3) (3, 6)	1	N/A	2019/09/10	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/09/09	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/09/09	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/09/09	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/09/04	2019/09/10	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/09/09	2019/09/09	BBY7SOP-00003/02	EPA 6020B R2 m
Silica (Reactive) (2)	1	N/A	2019/09/11	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2019/09/06	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 7)	1	N/A	2019/09/06	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/09/05	2019/09/06	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/09/06	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 8)	1	N/A	2019/09/16	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Sulphate by Automated Colourimetry (1)	1	N/A	2019/09/06	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/09/05	2019/09/06	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/09/05	2019/09/09	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 9)	1	N/A	2019/09/05	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	1	2019/09/05	2019/09/06	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/09/05	2019/09/05	CAM SOP-00428	SM 23 2540D m



Your P.O. #: OL-762849
Your Project #: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/18
Report #: R5884397
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B905316

Received: 2019/09/04, 10:00

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Reference
	Quantity	Extracted			
Turbidity (1)	1	N/A	2019/09/05	CAM SOP-00417	SM 23 2130 B m
Low Level Volatile Suspended Solids (1)	1	2019/09/05	2019/09/06	CAM SOP-00428	SM 23 2540

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga
- (2) This test was performed by Campo to Calgary - Offsite
- (3) This test was performed by Campo to Burnaby - Offsite
- (4) This test was performed by Bureau Veritas Laboratories Kitimat
- (5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
- (6) "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).
- (7) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (8) Radium-226 results have not been corrected for blanks.
- (9) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your P.O. #: OL-762849
Your Project #: MELIADINE

Attention: Reporting

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

Report Date: 2019/09/18
Report #: R5884397
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B905316
Received: 2019/09/04, 10:00

Encryption Key

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

Alisha Williamson, Project Manager
Email: Alisha.Williamson@bvlabs.com
Phone# (613)274-0573

=====

BV Labs 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

BV Labs Job #: B905316

Report Date: 2019/09/18

Agnico-Eagle

Client Project #: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KRJ918		
Sampling Date		2019/09/02 06:50		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	5370	0.50	6319131
Metals				
Dissolved Aluminum (Al)	ug/L	<150	150	6324820
Dissolved Antimony (Sb)	ug/L	<25	25	6324820
Dissolved Arsenic (As)	ug/L	9.0	5.0	6324820
Dissolved Barium (Ba)	ug/L	191	50	6324820
Dissolved Beryllium (Be)	ug/L	<5.0	5.0	6324820
Dissolved Bismuth (Bi)	ug/L	<50	50	6324820
Dissolved Boron (B)	ug/L	<2500	2500	6324820
Dissolved Cadmium (Cd)	ug/L	<0.50	0.50	6324820
Dissolved Chromium (Cr)	ug/L	<50	50	6324820
Dissolved Cobalt (Co)	ug/L	<10	10	6324820
Dissolved Copper (Cu)	ug/L	<10	10	6324820
Dissolved Iron (Fe)	ug/L	<250	250	6324820
Dissolved Lead (Pb)	ug/L	<10	10	6324820
Dissolved Lithium (Li)	ug/L	539	100	6324820
Dissolved Manganese (Mn)	ug/L	<50	50	6324820
Dissolved Molybdenum (Mo)	ug/L	<50	50	6324820
Dissolved Nickel (Ni)	ug/L	<50	50	6324820
Dissolved Selenium (Se)	ug/L	<5.0	5.0	6324820
Dissolved Silicon (Si)	ug/L	<5000	5000	6324820
Dissolved Silver (Ag)	ug/L	<1.0	1.0	6324820
Dissolved Strontium (Sr)	ug/L	23500	50	6324820
Dissolved Thallium (Tl)	ug/L	<0.50	0.50	6324820
Dissolved Tin (Sn)	ug/L	<250	250	6324820
Dissolved Titanium (Ti)	ug/L	<250	250	6324820
Dissolved Uranium (U)	ug/L	<5.0	5.0	6324820
Dissolved Vanadium (V)	ug/L	<250	250	6324820
Dissolved Zinc (Zn)	ug/L	<250	250	6324820
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	6324820
Dissolved Calcium (Ca)	mg/L	967	2.5	6319132
Dissolved Magnesium (Mg)	mg/L	718	2.5	6319132
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B905316

Report Date: 2019/09/18

Agnico-Eagle

Client Project #: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KRJ918		
Sampling Date		2019/09/02 06:50		
	UNITS	MEL-26	RDL	QC Batch
Dissolved Potassium (K)	mg/L	188	2.5	6319132
Dissolved Sodium (Na)	mg/L	5150	2.5	6319132
Dissolved Sulphur (S)	mg/L	437	150	6319132
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: B905316

Report Date: 2019/09/18

Agnico-Eagle

Client Project #: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KRJ918		
Sampling Date		2019/09/02 06:50		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	223	150	6324819
Total Antimony (Sb)	ug/L	<25	25	6324819
Total Arsenic (As)	ug/L	9.1	5.0	6324819
Total Barium (Ba)	ug/L	192	50	6324819
Total Beryllium (Be)	ug/L	<5.0	5.0	6324819
Total Bismuth (Bi)	ug/L	<50	50	6324819
Total Boron (B)	ug/L	<2500	2500	6324819
Total Cadmium (Cd)	ug/L	<0.50	0.50	6324819
Total Chromium (Cr)	ug/L	<50	50	6324819
Total Cobalt (Co)	ug/L	<10	10	6324819
Total Copper (Cu)	ug/L	<25	25	6324819
Total Iron (Fe)	ug/L	<500	500	6324819
Total Lead (Pb)	ug/L	<10	10	6324819
Total Lithium (Li)	ug/L	555	100	6324819
Total Manganese (Mn)	ug/L	<50	50	6324819
Total Molybdenum (Mo)	ug/L	<50	50	6324819
Total Nickel (Ni)	ug/L	<50	50	6324819
Total Selenium (Se)	ug/L	<5.0	5.0	6324819
Total Silicon (Si)	ug/L	<5000	5000	6324819
Total Silver (Ag)	ug/L	<1.0	1.0	6324819
Total Strontium (Sr)	ug/L	23600	50	6324819
Total Thallium (Tl)	ug/L	<0.50	0.50	6324819
Total Tin (Sn)	ug/L	<250	250	6324819
Total Titanium (Ti)	ug/L	<250	250	6324819
Total Uranium (U)	ug/L	<5.0	5.0	6324819
Total Vanadium (V)	ug/L	<250	250	6324819
Total Zinc (Zn)	ug/L	<250	250	6324819
Total Zirconium (Zr)	ug/L	<5.0	5.0	6324819
Total Calcium (Ca)	ug/L	974000	2500	6319128
Total Magnesium (Mg)	ug/L	747000	2500	6319128
Total Potassium (K)	ug/L	188000	2500	6319128
Total Sodium (Na)	ug/L	5090000	2500	6319128
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: B905316

Report Date: 2019/09/18

Agnico-Eagle

Client Project #: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KRJ918		
Sampling Date		2019/09/02 06:50		
	UNITS	MEL-26	RDL	QC Batch
Total Sulphur (S)	ug/L	448000	150000	6319128
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	5510000	500	6319127
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				

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VERITAS

BV Labs Job #: B905316

Report Date: 2019/09/18

Agnico-Eagle

Client Project #: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

RESULTS OF ANALYSES OF WATER

BV Labs ID		KRJ918			KRJ918		
Sampling Date		2019/09/02 06:50			2019/09/02 06:50		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	32	1.0	6313709			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6313709			
Inorganics							
Total Ammonia-N	mg/L	7.0	0.050	6316054	7.0	0.050	6316054
Total Chlorine	mg/L	9	1	6316665	9	1	6316665
Conductivity	umho/cm	30000	1.0	6316760			
Free Cyanide (CN)	ug/L	<1.0 (1)	1.0	6333734			
Total Dissolved Solids	mg/L	19500	20	6316534	19400	20	6316534
Total Kjeldahl Nitrogen (TKN)	mg/L	18	2.0	6316939			
Dissolved Organic Carbon	mg/L	16	0.50	6315226			
Total Organic Carbon (TOC)	mg/L	16	0.50	6316899			
Orthophosphate (P)	mg/L	0.011	0.010	6317705			
Dissolved Oxygen	mg/L	9.48		6317272			
pH	pH	7.14		6316764			
Total Phosphorus	mg/L	0.076	0.020	6316507			
Reactive Silica (SiO ₂)	mg/L	13 (2)	0.10	6330991			
Total Suspended Solids	mg/L	9	1	6316018			
Dissolved Sulphate (SO ₄)	mg/L	1000	5.0	6316762	990	5.0	6316762
Total Cyanide (CN)	mg/L	0.0084	0.0050	6316630	0.0077	0.0050	6316630
Turbidity	NTU	0.4	0.1	6315282			
Volatile Suspended Solids	mg/L	6	1	6316028			
WAD Cyanide (Free)	mg/L	0.0021	0.0010	6316641	0.0020	0.0010	6316641
Alkalinity (Total as CaCO ₃)	mg/L	32	1.0	6316755			
Dissolved Chloride (Cl ⁻)	mg/L	10000	100	6316753	11000	100	6316753
Nitrite (N)	mg/L	<0.010	0.010	6316749			
Nitrate (N)	mg/L	53.3	0.50	6316749			
Nitrate + Nitrite (N)	mg/L	53.3	0.50	6316749			
RADIONUCLIDE							
Radium-226	Bq/L	0.070	0.0050	6318584			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W. (2) Detection limits raised due to dilution to bring analyte within the calibrated range.							



BUREAU
VERITAS

BV Labs Job #: B905316

Report Date: 2019/09/18

Agnico-Eagle

Client Project #: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KRJ918			KRJ918		
Sampling Date		2019/09/02 06:50			2019/09/02 06:50		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch
Metals							
Mercury (Hg)	mg/L	<0.00001	0.00001	6316097			
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6316131	<0.00001	0.00001	6316131
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: B905316

Report Date: 2019/09/18

Agnico-Eagle

Client Project #: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TEST SUMMARY

BV Labs ID: KRJ918

Sample ID: MEL-26

Matrix: Water

Collected: 2019/09/02

Shipped:

Received: 2019/09/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6316755	N/A	2019/09/06	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6313709	N/A	2019/09/09	Automated Statchk
Total Chlorine	SPEC	6316665	2019/09/05	2019/09/05	Kazzandra Adeva
Chloride by Automated Colourimetry	KONE	6316753	N/A	2019/09/06	Deonarine Ramnarine
Conductivity	AT	6316760	N/A	2019/09/06	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6316641	N/A	2019/09/05	Barbara Kalbasi Esfahani
Total Cyanide	SKAL/CN	6316630	2019/09/05	2019/09/05	Barbara Kalbasi Esfahani
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6315226	N/A	2019/09/05	Mandeep Kaur
Dissolved Oxygen	DO	6317272	2019/09/05	2019/09/05	Navjot Kaur Gill
Dissolved Mercury (low level)	CV/AA	6316131	2019/09/05	2019/09/05	Medhat Nasr
Mercury (low level)	CV/AA	6316097	2019/09/05	2019/09/05	Medhat Nasr
Cyanide (Free)	SPEC	6333734	2019/09/09	2019/09/09	Amy Phan
Hardness Total (calculated as CaCO ₃)	CALC	6319127	N/A	2019/09/10	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	6319131	N/A	2019/09/09	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6319132	N/A	2019/09/09	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6324820	N/A	2019/09/09	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6319128	2019/09/10	2019/09/10	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6324819	2019/09/09	2019/09/09	Andrew An
Silica (Reactive)	KONE	6330991	N/A	2019/09/11	Serena Tian
Total Ammonia-N	LACH/NH ₄	6316054	N/A	2019/09/06	Mazin Wakai
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	6316749	N/A	2019/09/06	Chandra Nandlal
pH	AT	6316764	2019/09/05	2019/09/06	Surinder Rai
Orthophosphate	KONE	6317705	N/A	2019/09/06	Alina Dobreanu
Radium-226 Low Level	AS	6318584	N/A	2019/09/16	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6316762	N/A	2019/09/06	Alina Dobreanu
Total Dissolved Solids	BAL	6316534	2019/09/05	2019/09/06	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6316939	2019/09/05	2019/09/09	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6316899	N/A	2019/09/05	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6316507	2019/09/05	2019/09/06	Shivani Shivani
Low Level Total Suspended Solids	BAL	6316018	2019/09/05	2019/09/05	Nilam Borole
Turbidity	AT	6315282	N/A	2019/09/05	Kazzandra Adeva
Low Level Volatile Suspended Solids	BAL	6316028	2019/09/05	2019/09/06	Nilam Borole

BV Labs ID: KRJ918 Dup

Sample ID: MEL-26

Matrix: Water

Collected: 2019/09/02

Shipped:

Received: 2019/09/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Chlorine	SPEC	6316665	2019/09/05	2019/09/05	Kazzandra Adeva
Chloride by Automated Colourimetry	KONE	6316753	N/A	2019/09/06	Deonarine Ramnarine
Free (WAD) Cyanide	SKAL/CN	6316641	N/A	2019/09/05	Barbara Kalbasi Esfahani
Total Cyanide	SKAL/CN	6316630	2019/09/05	2019/09/05	Barbara Kalbasi Esfahani
Dissolved Mercury (low level)	CV/AA	6316131	2019/09/05	2019/09/05	Medhat Nasr
Total Ammonia-N	LACH/NH ₄	6316054	N/A	2019/09/06	Mazin Wakai
Sulphate by Automated Colourimetry	KONE	6316762	N/A	2019/09/06	Alina Dobreanu



BUREAU
VERITAS

BV Labs Job #: B905316

Report Date: 2019/09/18

Agnico-Eagle

Client Project #: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TEST SUMMARY

BV Labs ID: KRJ918 Dup

Sample ID: MEL-26

Matrix: Water

Collected: 2019/09/02

Shipped:

Received: 2019/09/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	6316534	2019/09/05	2019/09/06	Xinyue (Sarah) Hou



GENERAL COMMENTS

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

Package 1	14.3°C

Sample KRJ918 [MEL-26] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results.

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide.

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Sample KRJ918 [MEL-26] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Sample KRJ918 [MEL-26] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required.

Results relate only to the items tested.

BUREAU
VERITAS

BV Labs Job #: B905316

Report Date: 2019/09/18

QUALITY ASSURANCE REPORT

Agnico-Eagle

Client Project #: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6315226	Dissolved Organic Carbon	2019/09/05	97	80 - 120	98	80 - 120	<0.50	mg/L	6.0	20		
6315282	Turbidity	2019/09/05			93	85 - 115	<0.1	NTU	17	20		
6316018	Total Suspended Solids	2019/09/05					<1	mg/L	NC	25	100	85 - 115
6316028	Volatile Suspended Solids	2019/09/06					<1	mg/L	NC	25		
6316054	Total Ammonia-N	2019/09/06	91	75 - 125	101	80 - 120	<0.050	mg/L	0.80	20		
6316097	Mercury (Hg)	2019/09/05	99	75 - 125	102	80 - 120	<0.00001	mg/L	NC	20		
6316131	Dissolved Mercury (Hg)	2019/09/05	97	75 - 125	102	80 - 120	<0.00001	mg/L	NC	20		
6316507	Total Phosphorus	2019/09/06	95	80 - 120	99	80 - 120	<0.020	mg/L	0.85	20	101	80 - 120
6316534	Total Dissolved Solids	2019/09/06					<10	mg/L	0.67	25	100	90 - 110
6316630	Total Cyanide (CN)	2019/09/05	-0.10 (1)	80 - 120	96	80 - 120	<0.0050	mg/L	8.7	20		
6316641	WAD Cyanide (Free)	2019/09/05	0.30 (1)	80 - 120	97	80 - 120	<0.0010	mg/L	4.9	20		
6316665	Total Chlorine	2019/09/05	NC	85 - 115	97	85 - 115	<0.1	mg/L	0	25		
6316749	Nitrate (N)	2019/09/06	103	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
6316749	Nitrite (N)	2019/09/06	100	80 - 120	101	80 - 120	<0.010	mg/L	NC	20		
6316753	Dissolved Chloride (Cl-)	2019/09/06	NC	80 - 120	104	80 - 120	<1.0	mg/L	3.3	20		
6316755	Alkalinity (Total as CaCO3)	2019/09/06			94	85 - 115	<1.0	mg/L	1.4	20		
6316760	Conductivity	2019/09/06			101	85 - 115	<1.0	umho/cm	0.47	25		
6316762	Dissolved Sulphate (SO4)	2019/09/06	NC	75 - 125	105	80 - 120	<1.0	mg/L	1.8	20		
6316764	pH	2019/09/06			102	98 - 103			0.41	N/A		
6316899	Total Organic Carbon (TOC)	2019/09/05	94	80 - 120	97	80 - 120	<0.50	mg/L	0.64	20		
6316939	Total Kjeldahl Nitrogen (TKN)	2019/09/06	98	80 - 120	100	80 - 120	<0.10	mg/L	0.69	20	101	80 - 120
6317705	Orthophosphate (P)	2019/09/06	100	75 - 125	101	80 - 120	<0.010	mg/L	1.2	25		
6318584	Radium-226	2019/09/16			86	85 - 115	<0.0050	Bq/L				
6324819	Total Aluminum (Al)	2019/09/09	108	80 - 120	103	80 - 120	<3.0	ug/L				
6324819	Total Antimony (Sb)	2019/09/09	102	80 - 120	104	80 - 120	<0.50	ug/L				
6324819	Total Arsenic (As)	2019/09/09	101	80 - 120	102	80 - 120	<0.10	ug/L				
6324819	Total Barium (Ba)	2019/09/09	102	80 - 120	102	80 - 120	<1.0	ug/L				
6324819	Total Beryllium (Be)	2019/09/09	99	80 - 120	102	80 - 120	<0.10	ug/L				
6324819	Total Bismuth (Bi)	2019/09/09	101	80 - 120	103	80 - 120	<1.0	ug/L				
6324819	Total Boron (B)	2019/09/09	102	80 - 120	102	80 - 120	<50	ug/L				

BUREAU
VERITAS

BV Labs Job #: B905316

Report Date: 2019/09/18

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Client Project #: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6324819	Total Cadmium (Cd)	2019/09/09	100	80 - 120	102	80 - 120	<0.010	ug/L				
6324819	Total Chromium (Cr)	2019/09/09	99	80 - 120	102	80 - 120	<1.0	ug/L				
6324819	Total Cobalt (Co)	2019/09/09	99	80 - 120	99	80 - 120	<0.20	ug/L				
6324819	Total Copper (Cu)	2019/09/09	93	80 - 120	97	80 - 120	<0.50	ug/L				
6324819	Total Iron (Fe)	2019/09/09	105	80 - 120	104	80 - 120	<10	ug/L				
6324819	Total Lead (Pb)	2019/09/09	104	80 - 120	105	80 - 120	<0.20	ug/L				
6324819	Total Lithium (Li)	2019/09/09	106	80 - 120	106	80 - 120	<2.0	ug/L				
6324819	Total Manganese (Mn)	2019/09/09	99	80 - 120	102	80 - 120	<1.0	ug/L				
6324819	Total Molybdenum (Mo)	2019/09/09	105	80 - 120	102	80 - 120	<1.0	ug/L				
6324819	Total Nickel (Ni)	2019/09/09	96	80 - 120	100	80 - 120	<1.0	ug/L				
6324819	Total Selenium (Se)	2019/09/09	101	80 - 120	101	80 - 120	<0.10	ug/L				
6324819	Total Silicon (Si)	2019/09/09	104	80 - 120	107	80 - 120	<100	ug/L				
6324819	Total Silver (Ag)	2019/09/09	98	80 - 120	101	80 - 120	<0.020	ug/L				
6324819	Total Strontium (Sr)	2019/09/09	110	80 - 120	101	80 - 120	<1.0	ug/L				
6324819	Total Thallium (Tl)	2019/09/09	104	80 - 120	103	80 - 120	<0.010	ug/L				
6324819	Total Tin (Sn)	2019/09/09	104	80 - 120	103	80 - 120	<5.0	ug/L				
6324819	Total Titanium (Ti)	2019/09/09	102	80 - 120	102	80 - 120	<5.0	ug/L				
6324819	Total Uranium (U)	2019/09/09	106	80 - 120	104	80 - 120	<0.10	ug/L				
6324819	Total Vanadium (V)	2019/09/09	99	80 - 120	99	80 - 120	<5.0	ug/L				
6324819	Total Zinc (Zn)	2019/09/09	94	80 - 120	101	80 - 120	<5.0	ug/L				
6324819	Total Zirconium (Zr)	2019/09/09	105	80 - 120	103	80 - 120	<0.10	ug/L				
6324820	Dissolved Aluminum (Al)	2019/09/09	100	80 - 120	103	80 - 120	<3.0	ug/L				
6324820	Dissolved Antimony (Sb)	2019/09/09	97	80 - 120	100	80 - 120	<0.50	ug/L				
6324820	Dissolved Arsenic (As)	2019/09/09	102	80 - 120	98	80 - 120	<0.10	ug/L				
6324820	Dissolved Barium (Ba)	2019/09/09	94	80 - 120	101	80 - 120	<1.0	ug/L				
6324820	Dissolved Beryllium (Be)	2019/09/09	99	80 - 120	99	80 - 120	<0.10	ug/L				
6324820	Dissolved Bismuth (Bi)	2019/09/09	93	80 - 120	99	80 - 120	<1.0	ug/L				
6324820	Dissolved Boron (B)	2019/09/09	100	80 - 120	99	80 - 120	<50	ug/L				
6324820	Dissolved Cadmium (Cd)	2019/09/09	97	80 - 120	99	80 - 120	<0.010	ug/L				
6324820	Dissolved Chromium (Cr)	2019/09/09	94	80 - 120	98	80 - 120	<1.0	ug/L				
6324820	Dissolved Cobalt (Co)	2019/09/09	92	80 - 120	98	80 - 120	<0.20	ug/L				

BUREAU
VERITAS

BV Labs Job #: B905316

Report Date: 2019/09/18

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Client Project #: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6324820	Dissolved Copper (Cu)	2019/09/09	88	80 - 120	96	80 - 120	<0.20	ug/L				
6324820	Dissolved Iron (Fe)	2019/09/09	95	80 - 120	102	80 - 120	<5.0	ug/L				
6324820	Dissolved Lead (Pb)	2019/09/09	96	80 - 120	101	80 - 120	<0.20	ug/L				
6324820	Dissolved Lithium (Li)	2019/09/09	95	80 - 120	103	80 - 120	<2.0	ug/L				
6324820	Dissolved Manganese (Mn)	2019/09/09	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6324820	Dissolved Molybdenum (Mo)	2019/09/09	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6324820	Dissolved Nickel (Ni)	2019/09/09	91	80 - 120	98	80 - 120	<1.0	ug/L				
6324820	Dissolved Selenium (Se)	2019/09/09	103	80 - 120	97	80 - 120	<0.10	ug/L				
6324820	Dissolved Silicon (Si)	2019/09/09	NC	80 - 120	103	80 - 120	<100	ug/L				
6324820	Dissolved Silver (Ag)	2019/09/09	95	80 - 120	98	80 - 120	<0.020	ug/L				
6324820	Dissolved Strontium (Sr)	2019/09/09	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6324820	Dissolved Thallium (Tl)	2019/09/09	94	80 - 120	99	80 - 120	<0.010	ug/L				
6324820	Dissolved Tin (Sn)	2019/09/09	99	80 - 120	102	80 - 120	<5.0	ug/L				
6324820	Dissolved Titanium (Ti)	2019/09/09	100	80 - 120	98	80 - 120	<5.0	ug/L				
6324820	Dissolved Uranium (U)	2019/09/09	99	80 - 120	99	80 - 120	<0.10	ug/L				
6324820	Dissolved Vanadium (V)	2019/09/09	97	80 - 120	97	80 - 120	<5.0	ug/L				
6324820	Dissolved Zinc (Zn)	2019/09/09	97	80 - 120	100	80 - 120	<5.0	ug/L				
6324820	Dissolved Zirconium (Zr)	2019/09/09	103	80 - 120	100	80 - 120	<0.10	ug/L				
6330991	Reactive Silica (SiO ₂)	2019/09/11	93	80 - 120	101	80 - 120	<0.050	mg/L				
6333734	Free Cyanide (CN)	2019/09/09	96	80 - 120	95	80 - 120	<1.0	ug/L	0	20		

N/A = Not Applicable

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.

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 <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B905316

Report Date: 2019/09/18

Agnico-Eagle

Client Project #: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Brad Newman, Scientific Service Specialist

Harry (Peng) Liang, Senior Analyst



Steven Simpson, Lab Director

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VERITAS

BV Labs Job #: B9O5316

Report Date: 2019/09/18

Agnico-Eagle

Client Project #: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site#: 62°48'01.99" 92°06'00.05"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/10/15
 Report #: R5921003
 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: B9R3149

Received: 2019/09/30, 10:30

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/10/01	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/10/04	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	1	N/A	2019/10/01	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	1	N/A	2019/10/01	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/10/01	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/10/01	2019/10/01	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/10/01	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/10/01	2019/10/01	CAM SOP-00427	SM 23 4500 O G m
Dissolved Mercury (low level) (1)	1	2019/10/01	2019/10/01	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/10/01	2019/10/01	CAM SOP-00453	EPA 7470 m
Chloride & Sulphate by Auto Colorimetry (2)	1	N/A	2019/10/03	AB SOP-00020 / AB SOP-00018	SM23 4500-CL/SO4-E m
Cyanide (Free) (2)	1	N/A	N/A		
Conductivity @25C (2)	1	2019/10/02	2019/10/03	AB SOP-00005	SM 23 2510 B m
Hardness Total (calculated as CaCO3) (3, 6)	1	N/A	2019/10/04	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/10/03	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (2)	1	N/A	2019/10/02	AB SOP-00042	EPA 6010d R5 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/10/03	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/10/03	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/09/30	2019/10/04	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/10/03	2019/10/03	BBY7SOP-00003/02	EPA 6020B R2 m
pH @25°C (2, 7)	1	N/A	2019/10/03	AB SOP-00005	SM 23 4500-H+B m
Sodium Adsorption Ratio (2)	1	N/A	2019/10/03		Auto Calc
Silica (Reactive) (2)	1	N/A	2019/10/03	AB SOP-00011	EPA370.1 R1978 m
Total Dissolved Solids (Calc. from EC) (2)	1	N/A	2019/10/03		Auto Calc
Total Ammonia-N (1)	1	N/A	2019/10/01	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/10/01	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/10/01	2019/10/01	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/10/01	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/10/09	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry



Your P.O. #: OL-762849
 Site#: 62°48'01.99" 92°06'00.05"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/10/15
 Report #: R5921003
 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: B9R3149

Received: 2019/09/30, 10:30

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Sulphate by Automated Colourimetry (1)	1	N/A	2019/10/01	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/10/02	2019/10/03	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/10/01	2019/10/04	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/10/02	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	1	2019/10/02	2019/10/02	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/10/01	2019/10/01	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/10/01	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

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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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(6) "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).



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/10/15
Report #: R5921003
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: B9R3149

Received: 2019/09/30, 10:30

- (7) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.
- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (9) Radium-226 results have not been corrected for blanks.
- (10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

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

Alisha Williamson, Project Manager

Email: Alisha.Williamson@bvlabs.com

Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B9R3149
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

SALINITY IN WATER (WATER)

BV Labs ID		KXI127		
Sampling Date		2019/09/26 06:00		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	22	0.10	6368740
Total dissolved solids (calc., EC)	mg/L	22000	10	6368741
ELEMENTS				
Dissolved Calcium (Ca)	mg/L	930 (1)	3.0	6368738
Dissolved Magnesium (Mg)	mg/L	420	0.20	6368738
Dissolved Potassium (K)	mg/L	140	0.30	6368738
Dissolved Sodium (Na)	mg/L	3200 (1)	5.0	6368738
Inorganics				
Dissolved Chloride (Cl-)	mg/L	7000 (1)	50	6368736
Conductivity	uS/cm	22000	2.0	6368737
pH	pH	7.17	N/A	6368739
Dissolved Sulphate (SO4)	mg/L	830 (1)	5.0	6368736
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Detection limits raised due to dilution to bring analyte within the calibrated range.				



BUREAU
VERITAS

BV Labs Job #: B9R3149
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KXI127		
Sampling Date		2019/09/26 06:00		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	4170	0.50	6370534
Metals				
Dissolved Aluminum (Al)	ug/L	111	30	6370537
Dissolved Antimony (Sb)	ug/L	<5.0	5.0	6370537
Dissolved Arsenic (As)	ug/L	5.0	1.0	6370537
Dissolved Barium (Ba)	ug/L	226	10	6370537
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	6370537
Dissolved Bismuth (Bi)	ug/L	<10	10	6370537
Dissolved Boron (B)	ug/L	803	500	6370537
Dissolved Cadmium (Cd)	ug/L	0.17	0.10	6370537
Dissolved Chromium (Cr)	ug/L	<10	10	6370537
Dissolved Cobalt (Co)	ug/L	5.5	2.0	6370537
Dissolved Copper (Cu)	ug/L	4.9	2.0	6370537
Dissolved Iron (Fe)	ug/L	<50	50	6370537
Dissolved Lead (Pb)	ug/L	2.7	2.0	6370537
Dissolved Lithium (Li)	ug/L	477	20	6370537
Dissolved Manganese (Mn)	ug/L	223	10	6370537
Dissolved Molybdenum (Mo)	ug/L	13	10	6370537
Dissolved Nickel (Ni)	ug/L	32	10	6370537
Dissolved Selenium (Se)	ug/L	1.3	1.0	6370537
Dissolved Silicon (Si)	ug/L	2600	1000	6370537
Dissolved Silver (Ag)	ug/L	<0.20	0.20	6370537
Dissolved Strontium (Sr)	ug/L	19900	10	6370537
Dissolved Thallium (Tl)	ug/L	0.12	0.10	6370537
Dissolved Tin (Sn)	ug/L	<50	50	6370537
Dissolved Titanium (Ti)	ug/L	<50	50	6370537
Dissolved Uranium (U)	ug/L	4.2	1.0	6370537
Dissolved Vanadium (V)	ug/L	<50	50	6370537
Dissolved Zinc (Zn)	ug/L	<50	50	6370537
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	6370537
Dissolved Calcium (Ca)	mg/L	986	0.50	6370535
Dissolved Magnesium (Mg)	mg/L	415	0.50	6370535
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9R3149
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KXI127		
Sampling Date		2019/09/26 06:00		
	UNITS	MEL-26	RDL	QC Batch
Dissolved Potassium (K)	mg/L	134	0.50	6370535
Dissolved Sodium (Na)	mg/L	3150	0.50	6370535
Dissolved Sulphur (S)	mg/L	332	30	6370535
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9R3149
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KXI127		
Sampling Date		2019/09/26 06:00		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	178	30	6370497
Total Antimony (Sb)	ug/L	<5.0	5.0	6370497
Total Arsenic (As)	ug/L	4.7	1.0	6370497
Total Barium (Ba)	ug/L	223	10	6370497
Total Beryllium (Be)	ug/L	<1.0	1.0	6370497
Total Bismuth (Bi)	ug/L	<10	10	6370497
Total Boron (B)	ug/L	574	500	6370497
Total Cadmium (Cd)	ug/L	0.13	0.10	6370497
Total Chromium (Cr)	ug/L	<10	10	6370497
Total Cobalt (Co)	ug/L	5.1	2.0	6370497
Total Copper (Cu)	ug/L	<5.0	5.0	6370497
Total Iron (Fe)	ug/L	<100	100	6370497
Total Lead (Pb)	ug/L	2.5	2.0	6370497
Total Lithium (Li)	ug/L	466	20	6370497
Total Manganese (Mn)	ug/L	219	10	6370497
Total Molybdenum (Mo)	ug/L	<10	10	6370497
Total Nickel (Ni)	ug/L	31	10	6370497
Total Selenium (Se)	ug/L	1.1	1.0	6370497
Total Silicon (Si)	ug/L	2630	1000	6370497
Total Silver (Ag)	ug/L	<0.20	0.20	6370497
Total Strontium (Sr)	ug/L	19800	10	6370497
Total Thallium (Tl)	ug/L	0.11	0.10	6370497
Total Tin (Sn)	ug/L	<50	50	6370497
Total Titanium (Ti)	ug/L	<50	50	6370497
Total Uranium (U)	ug/L	3.8	1.0	6370497
Total Vanadium (V)	ug/L	<50	50	6370497
Total Zinc (Zn)	ug/L	<50	50	6370497
Total Zirconium (Zr)	ug/L	<1.0	1.0	6370497
Total Calcium (Ca)	ug/L	920000	500	6370496
Total Magnesium (Mg)	ug/L	406000	500	6370496
Total Potassium (K)	ug/L	130000	500	6370496
Total Sodium (Na)	ug/L	3010000	500	6370496
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9R3149

Report Date: 2019/10/15

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KXI127		
Sampling Date		2019/09/26 06:00		
	UNITS	MEL-26	RDL	QC Batch
Total Sulphur (S)	ug/L	313000	30000	6370496
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	3970000	500	6370494
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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BV Labs Job #: B9R3149

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Agnico-Eagle

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Your P.O. #: OL-762849

Sampler Initials: RS

RESULTS OF ANALYSES OF WATER

BV Labs ID		KXI127			KXI127		
Sampling Date		2019/09/26 06:00			2019/09/26 06:00		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	37	1.0	6359715			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6359715			
Inorganics							
Total Ammonia-N	mg/L	18	0.050	6361195			
Conductivity	umho/cm	21000	1.0	6360765			
Free Cyanide (CN)	ug/L	18 (1)	1.0	6368742			
Total Dissolved Solids	mg/L	12800	20	6366103			
Total Kjeldahl Nitrogen (TKN)	mg/L	29	5.0	6362304			
Dissolved Organic Carbon	mg/L	21	0.50	6362202			
Total Organic Carbon (TOC)	mg/L	22	0.50	6363108			
Orthophosphate (P)	mg/L	<0.010	0.010	6361234			
Dissolved Oxygen	mg/L	9.76		6362418	9.78		6362418
pH	pH	7.28		6360781			
Total Phosphorus	mg/L	0.062	0.020	6364688			
Reactive Silica (SiO ₂)	mg/L	4.5 (2)	0.50	6368743	4.8	0.50	6368743
Total Suspended Solids	mg/L	12	1	6362026			
Dissolved Sulphate (SO ₄)	mg/L	790	5.0	6358989			
Total Cyanide (CN)	mg/L	0.069	0.0050	6362288	0.065	0.0050	6362288
Turbidity	NTU	0.4	0.1	6361272			
WAD Cyanide (Free)	mg/L	0.0087	0.0010	6362290	0.0086	0.0010	6362290
Alkalinity (Total as CaCO ₃)	mg/L	37	1.0	6360764			
Dissolved Chloride (Cl ⁻)	mg/L	7100	100	6359976			
Nitrite (N)	mg/L	0.672	0.010	6362366	0.660	0.010	6362366
Nitrate (N)	mg/L	48.9	0.50	6362366	49.1	0.50	6362366
Nitrate + Nitrite (N)	mg/L	49.6	0.50	6362366	49.8	0.50	6362366
RADIONUCLIDE							
Radium-226	Bq/L	0.10	0.0050	6370167			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W (2) Detection limits raised due to matrix interference.							



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BV Labs Job #: B9R3149
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Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KXI127			KXI127		
Sampling Date		2019/09/26 06:00			2019/09/26 06:00		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch
Metals							
Mercury (Hg)	mg/L	<0.00001	0.00001	6362141			
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6362152	<0.00001	0.00001	6362152
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: B9R3149
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: KXI127
Sample ID: MEL-26
Matrix: Water

Collected: 2019/09/26
Shipped:
Received: 2019/09/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6360764	N/A	2019/10/01	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6359715	N/A	2019/10/04	Automated Statchk
Chloride by Automated Colourimetry	KONE	6359976	N/A	2019/10/01	Deonarine Ramnarine
Conductivity	AT	6360765	N/A	2019/10/01	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6362290	N/A	2019/10/01	Gnana Thomas
Total Cyanide	SKAL/CN	6362288	2019/10/01	2019/10/01	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6362202	N/A	2019/10/01	Mandeep Kaur
Dissolved Oxygen	DO	6362418	2019/10/01	2019/10/01	Nusrat Naz
Dissolved Mercury (low level)	CV/AA	6362152	2019/10/01	2019/10/01	Medhat Nasr
Mercury (low level)	CV/AA	6362141	2019/10/01	2019/10/01	Medhat Nasr
Chloride & Sulphate by Auto Colorimetry	KONE	6368736	N/A	2019/10/03	Serena Tian
Cyanide (Free)	SPEC	6368742	2019/10/02	2019/10/03	Taylor Mullings
Conductivity @25C	COND	6368737	2019/10/03	2019/10/03	Ilonka Kovac
Hardness Total (calculated as CaCO3)	CALC	6370494	N/A	2019/10/04	Report Automation Engine
Hardness (calculated as CaCO3)	CALC	6370534	N/A	2019/10/03	Automated Statchk
Elements by ICP-Dissolved-Lab Filtered	ICP	6368738	N/A	2019/10/02	Ahmed Loai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6370535	N/A	2019/10/03	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6370537	N/A	2019/10/03	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6370496	2019/10/04	2019/10/04	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6370497	2019/10/03	2019/10/03	Andrew An
pH @25°C	AT/PH	6368739	N/A	2019/10/03	Ilonka Kovac
Sodium Adsorption Ratio	CALC	6368740	N/A	2019/10/03	Automated Statchk
Silica (Reactive)	KONE	6368743	N/A	2019/10/03	Zafar Iqbal
Total Dissolved Solids (Calc. from EC)	CALC	6368741	N/A	2019/10/03	Automated Statchk
Total Ammonia-N	LACH/NH4	6361195	N/A	2019/10/01	Mazin Wakai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	6362366	N/A	2019/10/01	Chandra Nandlal
pH	AT	6360781	2019/10/01	2019/10/01	Surinder Rai
Orthophosphate	KONE	6361234	N/A	2019/10/01	Alina Doboreanu
Radium-226 Low Level	AS	6370167	N/A	2019/10/09	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6358989	N/A	2019/10/01	Deonarine Ramnarine
Total Dissolved Solids	BAL	6366103	2019/10/02	2019/10/03	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	6362304	2019/10/01	2019/10/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6363108	N/A	2019/10/02	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6364688	2019/10/02	2019/10/02	Shivani Shivani
Low Level Total Suspended Solids	BAL	6362026	2019/10/01	2019/10/01	Massarat Jan
Turbidity	AT	6361272	N/A	2019/10/01	Kazzandra Adeva

BV Labs ID: KXI127 Dup
Sample ID: MEL-26
Matrix: Water

Collected: 2019/09/26
Shipped:
Received: 2019/09/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	6362290	N/A	2019/10/01	Gnana Thomas
Total Cyanide	SKAL/CN	6362288	2019/10/01	2019/10/01	Gnana Thomas
Dissolved Oxygen	DO	6362418	2019/10/01	2019/10/01	Nusrat Naz



BUREAU
VERITAS

BV Labs Job #: B9R3149
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: KXI127 Dup
Sample ID: MEL-26
Matrix: Water

Collected: 2019/09/26
Shipped:
Received: 2019/09/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury (low level)	CV/AA	6362152	2019/10/01	2019/10/01	Medhat Nasr
Silica (Reactive)	KONE	6368743	N/A	2019/10/03	Zafar Iqbal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	6362366	N/A	2019/10/01	Chandra Nandlal



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BV Labs Job #: B9R3149

Report Date: 2019/10/15

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

GENERAL COMMENTS

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

Package 1	18.7°C

Revised Report (2019/10/15): EDD attached to report.

Sample KXI127 [MEL-26] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

The sample for dissolved metals was filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Sample KXI127 [MEL-26] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Sample KXI127 [MEL-26] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required.

Results relate only to the items tested.

BUREAU
VERITAS

BV Labs Job #: B9R3149

Report Date: 2019/10/15

QUALITY ASSURANCE REPORT

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6358989	Dissolved Sulphate (SO4)	2019/10/01	NC	75 - 125	102	80 - 120	<1.0	mg/L	2.9	20		
6359976	Dissolved Chloride (Cl-)	2019/10/01	NC	80 - 120	103	80 - 120	<1.0	mg/L	1.2	20		
6360764	Alkalinity (Total as CaCO3)	2019/10/01			101	85 - 115	<1.0	mg/L	1.8	20		
6360765	Conductivity	2019/10/01			103	85 - 115	<1.0	umho/cm	0.061	25		
6360781	pH	2019/10/01			102	98 - 103			0.29	N/A		
6361195	Total Ammonia-N	2019/10/01	96	75 - 125	101	80 - 120	<0.050	mg/L	8.5	20		
6361234	Orthophosphate (P)	2019/10/01	103	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
6361272	Turbidity	2019/10/01			99	85 - 115	<0.1	NTU	2.3	20		
6362026	Total Suspended Solids	2019/10/01					<1	mg/L	0	25	96	85 - 115
6362141	Mercury (Hg)	2019/10/01	98	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6362152	Dissolved Mercury (Hg)	2019/10/01	95	75 - 125	99	80 - 120	<0.00001	mg/L	NC	20		
6362202	Dissolved Organic Carbon	2019/10/01	96	80 - 120	101	80 - 120	<0.50	mg/L	1.2	20		
6362288	Total Cyanide (CN)	2019/10/01	60 (1)	80 - 120	101	80 - 120	<0.0050	mg/L	4.6	20		
6362290	WAD Cyanide (Free)	2019/10/01	70 (1)	80 - 120	103	80 - 120	<0.0010	mg/L	1.2	20		
6362304	Total Kjeldahl Nitrogen (TKN)	2019/10/03	107	80 - 120	101	80 - 120	<0.10	mg/L	6.2	20	104	80 - 120
6362366	Nitrate (N)	2019/10/01	NC	80 - 120	98	80 - 120	<0.10	mg/L	0.46	20		
6362366	Nitrite (N)	2019/10/01	91	80 - 120	97	80 - 120	<0.010	mg/L	1.8	20		
6363108	Total Organic Carbon (TOC)	2019/10/02	93	80 - 120	100	80 - 120	<0.50	mg/L	0.10	20		
6364688	Total Phosphorus	2019/10/02	101	80 - 120	103	80 - 120	<0.020	mg/L	0.37	20	101	80 - 120
6366103	Total Dissolved Solids	2019/10/03					<10	mg/L	4.7	25	100	90 - 110
6368736	Dissolved Chloride (Cl-)	2019/10/02	NC	80 - 120	103	80 - 120	<1.0	mg/L				
6368736	Dissolved Sulphate (SO4)	2019/10/02	NC	80 - 120	101	80 - 120	<1.0	mg/L				
6368737	Conductivity	2019/10/02			99	90 - 110	<2.0	uS/cm				
6368738	Dissolved Calcium (Ca)	2019/10/02	95	80 - 120	100	80 - 120	<0.30	mg/L				
6368738	Dissolved Magnesium (Mg)	2019/10/02	94	80 - 120	102	80 - 120	<0.20	mg/L				
6368738	Dissolved Potassium (K)	2019/10/02	97	80 - 120	99	80 - 120	<0.30	mg/L				
6368738	Dissolved Sodium (Na)	2019/10/02	NC	80 - 120	101	80 - 120	<0.50	mg/L				
6368739	pH	2019/10/02			99	97 - 103						
6368742	Free Cyanide (CN)	2019/10/03	118	80 - 120	97	80 - 120	<1.0	ug/L	13	20		
6368743	Reactive Silica (SiO2)	2019/10/03	94	80 - 120	96	80 - 120	<0.050	mg/L	5.9	20		
6370167	Radium-226	2019/10/08			86	85 - 115	<0.0050	Bq/L	NC	N/A		

BUREAU
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BV Labs Job #: B9R3149

Report Date: 2019/10/15

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6370497	Total Aluminum (Al)	2019/10/03	104	80 - 120	104	80 - 120	<3.0	ug/L				
6370497	Total Antimony (Sb)	2019/10/03	102	80 - 120	105	80 - 120	<0.50	ug/L				
6370497	Total Arsenic (As)	2019/10/03	101	80 - 120	105	80 - 120	<0.10	ug/L				
6370497	Total Barium (Ba)	2019/10/03	NC	80 - 120	106	80 - 120	<1.0	ug/L				
6370497	Total Beryllium (Be)	2019/10/03	99	80 - 120	103	80 - 120	<0.10	ug/L				
6370497	Total Bismuth (Bi)	2019/10/03	101	80 - 120	105	80 - 120	<1.0	ug/L				
6370497	Total Boron (B)	2019/10/03	NC	80 - 120	99	80 - 120	<50	ug/L				
6370497	Total Cadmium (Cd)	2019/10/03	101	80 - 120	108	80 - 120	<0.010	ug/L				
6370497	Total Chromium (Cr)	2019/10/03	100	80 - 120	106	80 - 120	<1.0	ug/L				
6370497	Total Cobalt (Co)	2019/10/03	96	80 - 120	102	80 - 120	<0.20	ug/L				
6370497	Total Copper (Cu)	2019/10/03	98	80 - 120	104	80 - 120	<0.50	ug/L				
6370497	Total Iron (Fe)	2019/10/03	NC	80 - 120	103	80 - 120	<10	ug/L				
6370497	Total Lead (Pb)	2019/10/03	97	80 - 120	108	80 - 120	<0.20	ug/L				
6370497	Total Lithium (Li)	2019/10/03	92	80 - 120	105	80 - 120	<2.0	ug/L				
6370497	Total Manganese (Mn)	2019/10/03	NC	80 - 120	108	80 - 120	<1.0	ug/L				
6370497	Total Molybdenum (Mo)	2019/10/03	107	80 - 120	108	80 - 120	<1.0	ug/L				
6370497	Total Nickel (Ni)	2019/10/03	102	80 - 120	109	80 - 120	<1.0	ug/L				
6370497	Total Selenium (Se)	2019/10/03	103	80 - 120	106	80 - 120	<0.10	ug/L				
6370497	Total Silicon (Si)	2019/10/03	NC	80 - 120	99	80 - 120	<100	ug/L				
6370497	Total Silver (Ag)	2019/10/03	99	80 - 120	106	80 - 120	<0.020	ug/L				
6370497	Total Strontium (Sr)	2019/10/03	NC	80 - 120	101	80 - 120	<1.0	ug/L				
6370497	Total Thallium (Tl)	2019/10/03	98	80 - 120	104	80 - 120	<0.010	ug/L				
6370497	Total Tin (Sn)	2019/10/03	100	80 - 120	102	80 - 120	<5.0	ug/L				
6370497	Total Titanium (Ti)	2019/10/03	112	80 - 120	109	80 - 120	<5.0	ug/L				
6370497	Total Uranium (U)	2019/10/03	98	80 - 120	106	80 - 120	<0.10	ug/L				
6370497	Total Vanadium (V)	2019/10/03	106	80 - 120	107	80 - 120	<5.0	ug/L				
6370497	Total Zinc (Zn)	2019/10/03	108	80 - 120	109	80 - 120	<5.0	ug/L				
6370497	Total Zirconium (Zr)	2019/10/03	92	80 - 120	103	80 - 120	<0.10	ug/L				
6370537	Dissolved Aluminum (Al)	2019/10/03	97	80 - 120	99	80 - 120	<3.0	ug/L				
6370537	Dissolved Antimony (Sb)	2019/10/03	100	80 - 120	99	80 - 120	<0.50	ug/L				
6370537	Dissolved Arsenic (As)	2019/10/03	105	80 - 120	100	80 - 120	<0.10	ug/L				
6370537	Dissolved Barium (Ba)	2019/10/03	99	80 - 120	102	80 - 120	<1.0	ug/L				



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BV Labs Job #: B9R3149

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QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6370537	Dissolved Beryllium (Be)	2019/10/03	99	80 - 120	100	80 - 120	<0.10	ug/L				
6370537	Dissolved Bismuth (Bi)	2019/10/03	100	80 - 120	102	80 - 120	<1.0	ug/L				
6370537	Dissolved Boron (B)	2019/10/03	100	80 - 120	103	80 - 120	<50	ug/L				
6370537	Dissolved Cadmium (Cd)	2019/10/03	99	80 - 120	100	80 - 120	<0.010	ug/L				
6370537	Dissolved Chromium (Cr)	2019/10/03	95	80 - 120	98	80 - 120	<1.0	ug/L				
6370537	Dissolved Cobalt (Co)	2019/10/03	93	80 - 120	99	80 - 120	<0.20	ug/L				
6370537	Dissolved Copper (Cu)	2019/10/03	91	80 - 120	99	80 - 120	<0.20	ug/L				
6370537	Dissolved Iron (Fe)	2019/10/03	98	80 - 120	100	80 - 120	<5.0	ug/L				
6370537	Dissolved Lead (Pb)	2019/10/03	108	80 - 120	105	80 - 120	<0.20	ug/L				
6370537	Dissolved Lithium (Li)	2019/10/03	98	80 - 120	100	80 - 120	<2.0	ug/L				
6370537	Dissolved Manganese (Mn)	2019/10/03	97	80 - 120	102	80 - 120	<1.0	ug/L				
6370537	Dissolved Molybdenum (Mo)	2019/10/03	NC	80 - 120	101	80 - 120	<1.0	ug/L				
6370537	Dissolved Nickel (Ni)	2019/10/03	93	80 - 120	102	80 - 120	<1.0	ug/L				
6370537	Dissolved Selenium (Se)	2019/10/03	102	80 - 120	101	80 - 120	<0.10	ug/L				
6370537	Dissolved Silicon (Si)	2019/10/03	104	80 - 120	94	80 - 120	<100	ug/L				
6370537	Dissolved Silver (Ag)	2019/10/03	100	80 - 120	103	80 - 120	<0.020	ug/L				
6370537	Dissolved Strontium (Sr)	2019/10/03	NC	80 - 120	97	80 - 120	<1.0	ug/L				
6370537	Dissolved Thallium (Tl)	2019/10/03	106	80 - 120	103	80 - 120	<0.010	ug/L				
6370537	Dissolved Tin (Sn)	2019/10/03	93	80 - 120	95	80 - 120	<5.0	ug/L				
6370537	Dissolved Titanium (Ti)	2019/10/03	103	80 - 120	103	80 - 120	<5.0	ug/L				
6370537	Dissolved Uranium (U)	2019/10/03	107	80 - 120	106	80 - 120	<0.10	ug/L				
6370537	Dissolved Vanadium (V)	2019/10/03	101	80 - 120	101	80 - 120	<5.0	ug/L				
6370537	Dissolved Zinc (Zn)	2019/10/03	NC	80 - 120	103	80 - 120	<5.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: B9R3149

Report Date: 2019/10/15

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6370537	Dissolved Zirconium (Zr)	2019/10/03	105	80 - 120	102	80 - 120	<0.10	ug/L				

N/A = Not Applicable

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.

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 $\leq 2 \times \text{RDL}$).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9R3149
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Brad Newman, Scientific Service Specialist

Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

BV Labs 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

BV Labs Job #: B9R3149
Report Date: 2019/10/15

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site#: 62°48'01.99" 92°06'00.05"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/10/22
 Report #: R5930981
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9R7258

Received: 2019/10/03, 10:15

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/10/06	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/10/10	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	1	N/A	2019/10/08	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	1	N/A	2019/10/06	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/10/04	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/10/04	2019/10/04	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/10/04	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/10/04	2019/10/04	CAM SOP-00427	SM 23 4500 O G m
Dissolved Mercury (low level) (1)	1	2019/10/08	2019/10/08	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/10/09	2019/10/09	CAM SOP-00453	EPA 7470 m
Chloride & Sulphate by Auto Colorimetry (2)	1	N/A	2019/10/10	AB SOP-00020 / AB SOP-00018	SM23 4500-CL/SO4-E m
Cyanide (Free) (2)	1	N/A	N/A		
Conductivity @25C (2)	1	N/A	2019/10/09	AB SOP-00005	SM 23 2510 B m
Hardness Total (calculated as CaCO3) (3, 6)	1	N/A	2019/10/07	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/10/08	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (2)	1	N/A	2019/10/05	AB SOP-00042	EPA 6010d R5 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/10/08	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/10/07	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/10/03	2019/10/07	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/10/07	2019/10/07	BBY7SOP-00003/02	EPA 6020B R2 m
pH @25°C (2, 7)	1	N/A	2019/10/09	AB SOP-00005	SM 23 4500-H+B m
Sodium Adsorption Ratio (2)	1	N/A	2019/10/06		Auto Calc
Silica (Reactive) (2)	1	N/A	2019/10/07	AB SOP-00011	EPA370.1 R1978 m
Total Dissolved Solids (Calc. from EC) (2)	1	N/A	2019/10/10		Auto Calc
Total Ammonia-N (1)	1	N/A	2019/10/07	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/10/04	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/10/04	2019/10/06	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/10/07	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/10/19	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry



Your P.O. #: OL-762849
 Site#: 62°48'01.99" 92°06'00.05"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/10/22
 Report #: R5930981
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9R7258

Received: 2019/10/03, 10:15

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Sulphate by Automated Colourimetry (1)	1	N/A	2019/10/07	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/10/07	2019/10/08	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/10/04	2019/10/07	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/10/06	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	1	2019/10/04	2019/10/05	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/10/04	2019/10/04	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/10/04	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(6) "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).



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/10/22
Report #: R5930981
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9R7258

Received: 2019/10/03, 10:15

- (7) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.
- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (9) Radium-226 results have not been corrected for blanks.
- (10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

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

Alisha Williamson, Project Manager

Email: Alisha.Williamson@bvlabs.com

Phone# (613)274-0573

=====

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BUREAU
VERITAS

BV Labs Job #: B9R7258
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

SALINITY IN WATER (WATER)

BV Labs ID		KYF171		
Sampling Date		2019/10/01 06:00		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	24	0.10	6386822
Total dissolved solids (calc., EC)	mg/L	26000	10	6386823
ELEMENTS				
Dissolved Calcium (Ca)	mg/L	1100 (1)	6.0	6386820
Dissolved Magnesium (Mg)	mg/L	550 (1)	4.0	6386820
Dissolved Potassium (K)	mg/L	170	0.30	6386820
Dissolved Sodium (Na)	mg/L	4000 (1)	10	6386820
Inorganics				
Dissolved Chloride (Cl-)	mg/L	7900 (1)	50	6386818
Conductivity	uS/cm	26000	2.0	6386819
pH	pH	6.40	N/A	6386821
Dissolved Sulphate (SO4)	mg/L	1000 (1)	10	6386818
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Detection limits raised due to dilution to bring analyte within the calibrated range.				



BUREAU
VERITAS

BV Labs Job #: B9R7258

Report Date: 2019/10/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KYF171		
Sampling Date		2019/10/01 06:00		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	5210	0.50	6376859
Metals				
Dissolved Aluminum (Al)	ug/L	165	60	6376861
Dissolved Antimony (Sb)	ug/L	<10	10	6376861
Dissolved Arsenic (As)	ug/L	5.4	2.0	6376861
Dissolved Barium (Ba)	ug/L	276	20	6376861
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	6376861
Dissolved Bismuth (Bi)	ug/L	<20	20	6376861
Dissolved Boron (B)	ug/L	<1000	1000	6376861
Dissolved Cadmium (Cd)	ug/L	0.28	0.20	6376861
Dissolved Chromium (Cr)	ug/L	<20	20	6376861
Dissolved Cobalt (Co)	ug/L	7.9	4.0	6376861
Dissolved Copper (Cu)	ug/L	6.7	4.0	6376861
Dissolved Iron (Fe)	ug/L	<100	100	6376861
Dissolved Lead (Pb)	ug/L	<4.0	4.0	6376861
Dissolved Lithium (Li)	ug/L	543	40	6376861
Dissolved Manganese (Mn)	ug/L	303	20	6376861
Dissolved Molybdenum (Mo)	ug/L	<20	20	6376861
Dissolved Nickel (Ni)	ug/L	48	20	6376861
Dissolved Selenium (Se)	ug/L	<2.0	2.0	6376861
Dissolved Silicon (Si)	ug/L	3460	2000	6376861
Dissolved Silver (Ag)	ug/L	<0.40	0.40	6376861
Dissolved Strontium (Sr)	ug/L	26400	20	6376861
Dissolved Tin (Sn)	ug/L	<100	100	6376861
Dissolved Titanium (Ti)	ug/L	<100	100	6376861
Dissolved Uranium (U)	ug/L	4.2	2.0	6376861
Dissolved Vanadium (V)	ug/L	<100	100	6376861
Dissolved Zinc (Zn)	ug/L	<100	100	6376861
Dissolved Zirconium (Zr)	ug/L	<2.0	2.0	6376861
Dissolved Calcium (Ca)	mg/L	1190	1.0	6376860
Dissolved Magnesium (Mg)	mg/L	543	1.0	6376860
Dissolved Potassium (K)	mg/L	174	1.0	6376860
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9R7258

Report Date: 2019/10/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KYF171		
Sampling Date		2019/10/01 06:00		
	UNITS	MEL-26	RDL	QC Batch
Dissolved Sodium (Na)	mg/L	3810	1.0	6376860
Dissolved Sulphur (S)	mg/L	417	60	6376860
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9R7258

Report Date: 2019/10/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KYF171		
Sampling Date		2019/10/01 06:00		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	310	60	6374559
Total Antimony (Sb)	ug/L	<10	10	6374559
Total Arsenic (As)	ug/L	5.5	2.0	6374559
Total Barium (Ba)	ug/L	261	20	6374559
Total Beryllium (Be)	ug/L	<2.0	2.0	6374559
Total Bismuth (Bi)	ug/L	<20	20	6374559
Total Boron (B)	ug/L	<1000	1000	6374559
Total Cadmium (Cd)	ug/L	<0.20	0.20	6374559
Total Chromium (Cr)	ug/L	<20	20	6374559
Total Cobalt (Co)	ug/L	7.5	4.0	6374559
Total Copper (Cu)	ug/L	<10	10	6374559
Total Iron (Fe)	ug/L	<200	200	6374559
Total Lead (Pb)	ug/L	<4.0	4.0	6374559
Total Lithium (Li)	ug/L	544	40	6374559
Total Manganese (Mn)	ug/L	280	20	6374559
Total Molybdenum (Mo)	ug/L	<20	20	6374559
Total Nickel (Ni)	ug/L	45	20	6374559
Total Selenium (Se)	ug/L	<2.0	2.0	6374559
Total Silicon (Si)	ug/L	2840	2000	6374559
Total Silver (Ag)	ug/L	<0.40	0.40	6374559
Total Strontium (Sr)	ug/L	24900	20	6374559
Total Thallium (Tl)	ug/L	<0.20	0.20	6374559
Total Tin (Sn)	ug/L	<100	100	6374559
Total Titanium (Ti)	ug/L	<100	100	6374559
Total Uranium (U)	ug/L	4.1	2.0	6374559
Total Vanadium (V)	ug/L	<100	100	6374559
Total Zinc (Zn)	ug/L	<100	100	6374559
Total Zirconium (Zr)	ug/L	<2.0	2.0	6374559
Total Calcium (Ca)	ug/L	1170000	1000	6376864
Total Magnesium (Mg)	ug/L	523000	1000	6376864
Total Potassium (K)	ug/L	169000	1000	6376864
Total Sodium (Na)	ug/L	3760000	1000	6376864
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: B9R7258

Report Date: 2019/10/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KYF171		
Sampling Date		2019/10/01 06:00		
	UNITS	MEL-26	RDL	QC Batch
Total Sulphur (S)	ug/L	403000	60000	6376864
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	5080000	500	6376863
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				

BUREAU
VERITAS

BV Labs Job #: B9R7258

Report Date: 2019/10/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

RESULTS OF ANALYSES OF WATER

BV Labs ID		KYF171			KYF171		
Sampling Date		2019/10/01 06:00			2019/10/01 06:00		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	11	1.0	6366969			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6366969			
Inorganics							
Total Ammonia-N	mg/L	23	0.050	6370452			
Conductivity	umho/cm	26000	1.0	6370927			
Free Cyanide (CN)	ug/L	45 (1)	1.0	6381435	44	1.0	6381435
Total Dissolved Solids	mg/L	16900	20	6372385			
Total Kjeldahl Nitrogen (TKN)	mg/L	42	5.0	6370501			
Dissolved Organic Carbon	mg/L	23	0.50	6370090			
Total Organic Carbon (TOC)	mg/L	22	0.50	6369108			
Orthophosphate (P)	mg/L	<0.010	0.010	6370706	<0.010	0.010	6370706
Dissolved Oxygen	mg/L	10.9		6370568			
pH	pH	6.46		6371046			
Total Phosphorus	mg/L	0.098	0.020	6370280			
Reactive Silica (SiO ₂)	mg/L	8.8	0.050	6381436			
Total Suspended Solids	mg/L	14	1	6369699			
Dissolved Sulphate (SO ₄)	mg/L	990	5.0	6370705	980	5.0	6370705
Total Cyanide (CN)	mg/L	0.057	0.0050	6369952	0.060	0.0050	6369952
Turbidity	NTU	0.4	0.1	6369987	0.4	0.1	6369987
WAD Cyanide (Free)	mg/L	0.015	0.0010	6369980	0.017	0.0010	6369980
Alkalinity (Total as CaCO ₃)	mg/L	11	1.0	6370923			
Dissolved Chloride (Cl ⁻)	mg/L	9100	100	6370698	9200	100	6370698
Nitrite (N)	mg/L	0.994	0.010	6369800			
Nitrate (N)	mg/L	60.2	0.50	6369800			
Nitrate + Nitrite (N)	mg/L	61.2	0.50	6369800			
Metals							
Dissolved Thallium (Tl)	ug/L	<0.20	0.20	6376862			
RADIONUCLIDE							
Radium-226	Bq/L	0.070	0.0050	6377529			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W Matrix spike exceeds acceptance limits due to probable matrix interference.							



BUREAU
VERITAS

BV Labs Job #: B9R7258
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KYF171			KYF171		
Sampling Date		2019/10/01 06:00			2019/10/01 06:00		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch
Metals							
Mercury (Hg)	mg/L	<0.00001	0.00001	6377981			
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6375572	<0.00001	0.00001	6375572
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: B9R7258
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: KYF171
Sample ID: MEL-26
Matrix: Water

Collected: 2019/10/01
Shipped:
Received: 2019/10/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6370923	N/A	2019/10/06	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	6366969	N/A	2019/10/10	Brad Newman
Chloride by Automated Colourimetry	KONE	6370698	N/A	2019/10/08	Deonarine Ramnarine
Conductivity	AT	6370927	N/A	2019/10/06	Yogesh Patel
Free (WAD) Cyanide	SKAL/CN	6369980	N/A	2019/10/04	Gnana Thomas
Total Cyanide	SKAL/CN	6369952	2019/10/04	2019/10/04	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6370090	N/A	2019/10/04	Mandeep Kaur
Dissolved Oxygen	DO	6370568	2019/10/04	2019/10/04	Nusrat Naz
Dissolved Mercury (low level)	CV/AA	6375572	2019/10/08	2019/10/08	Medhat Nasr
Mercury (low level)	CV/AA	6377981	2019/10/09	2019/10/09	Medhat Nasr
Chloride & Sulphate by Auto Colorimetry	KONE	6386818	N/A	2019/10/10	Serena Tian
Cyanide (Free)	SPEC	6381435	2019/10/08	2019/10/08	Taylor Mullings
Conductivity @25C	COND	6386819	N/A	2019/10/09	Ilonka Kovac
Hardness Total (calculated as CaCO3)	CALC	6376863	N/A	2019/10/07	Automated Statchk
Hardness (calculated as CaCO3)	CALC	6376859	N/A	2019/10/08	Automated Statchk
Elements by ICP-Dissolved-Lab Filtered	ICP	6386820	N/A	2019/10/05	Ahmed Loai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6376860	N/A	2019/10/08	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	6376861	N/A	2019/10/07	Vanessa Chan
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6376864	2019/10/07	2019/10/07	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	6374559	2019/10/07	2019/10/07	Andrew An
pH @25°C	AT/PH	6386821	N/A	2019/10/09	Ilonka Kovac
Sodium Adsorption Ratio	CALC	6386822	N/A	2019/10/06	Automated Statchk
Silica (Reactive)	KONE	6381436	N/A	2019/10/07	Serena Tian
Total Dissolved Solids (Calc. from EC)	CALC	6386823	N/A	2019/10/10	Report Automation Engine
Total Ammonia-N	LACH/NH4	6370452	N/A	2019/10/07	Mazin Wakai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	6369800	N/A	2019/10/04	Chandra Nandlal
pH	AT	6371046	2019/10/04	2019/10/06	Yogesh Patel
Orthophosphate	KONE	6370706	N/A	2019/10/07	Alina Dobreanu
Radium-226 Low Level	AS	6377529	N/A	2019/10/19	Barbara Kalbasi Esfahani
Sulphate by Automated Colourimetry	KONE	6370705	N/A	2019/10/07	Alina Dobreanu
Total Dissolved Solids	BAL	6372385	2019/10/07	2019/10/08	Mandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	6370501	2019/10/04	2019/10/07	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6369108	N/A	2019/10/06	Nimarta Singh
Total Phosphorus (Colourimetric)	LACH/P	6370280	2019/10/04	2019/10/05	Nimarta Singh
Low Level Total Suspended Solids	BAL	6369699	2019/10/04	2019/10/04	Mandeep Kaur
Turbidity	AT	6369987	N/A	2019/10/04	Kazzandra Adeva

BV Labs ID: KYF171 Dup
Sample ID: MEL-26
Matrix: Water

Collected: 2019/10/01
Shipped:
Received: 2019/10/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	6370698	N/A	2019/10/08	Deonarine Ramnarine
Free (WAD) Cyanide	SKAL/CN	6369980	N/A	2019/10/04	Gnana Thomas
Total Cyanide	SKAL/CN	6369952	2019/10/04	2019/10/04	Gnana Thomas



BUREAU
VERITAS

BV Labs Job #: B9R7258
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

TEST SUMMARY

BV Labs ID: KYF171 Dup
Sample ID: MEL-26
Matrix: Water

Collected: 2019/10/01
Shipped:
Received: 2019/10/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury (low level)	CV/AA	6375572	2019/10/08	2019/10/08	Medhat Nasr
Cyanide (Free)	SPEC	6381435	2019/10/08	2019/10/08	Taylor Mullings
Orthophosphate	KONE	6370706	N/A	2019/10/07	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	6370705	N/A	2019/10/07	Alina Dobreanu
Turbidity	AT	6369987	N/A	2019/10/04	Kazzandra Adeva



GENERAL COMMENTS

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

Package 1	8.7°C

Sample KYF171 [MEL-26] : TOC< DOC: Both values fall within the method uncertainty for duplicates and are likely equivalent. Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Sample KYF171 [MEL-26] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Sample KYF171 [MEL-26] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required.

RESULTS OF ANALYSES OF WATER

Sample KYF171 [MEL-26] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

Sample KYF171, Elements by CRC ICPMS (dissolved): Test repeated.

Results relate only to the items tested.

BUREAU
VERITAS

BV Labs Job #: B9R7258

Report Date: 2019/10/22

QUALITY ASSURANCE REPORT

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6369108	Total Organic Carbon (TOC)	2019/10/06	NC	80 - 120	95	80 - 120	<0.50	mg/L	0.51	20		
6369699	Total Suspended Solids	2019/10/04					<1	mg/L	NC	25	97	85 - 115
6369800	Nitrate (N)	2019/10/04	NC	80 - 120	101	80 - 120	<0.10	mg/L	0.51	20		
6369800	Nitrite (N)	2019/10/04	104	80 - 120	104	80 - 120	<0.010	mg/L	2.4	20		
6369952	Total Cyanide (CN)	2019/10/04	88	80 - 120	100	80 - 120	<0.0050	mg/L	5.5	20		
6369980	WAD Cyanide (Free)	2019/10/04	87	80 - 120	100	80 - 120	<0.0010	mg/L	12	20		
6369987	Turbidity	2019/10/04			95	85 - 115	<0.1	NTU	3.5	20		
6370090	Dissolved Organic Carbon	2019/10/04	94	80 - 120	97	80 - 120	<0.50	mg/L	0.42	20		
6370280	Total Phosphorus	2019/10/05	99	80 - 120	101	80 - 120	<0.020	mg/L	1.7	20	101	80 - 120
6370452	Total Ammonia-N	2019/10/07	83	75 - 125	98	80 - 120	<0.050	mg/L	0.78	20		
6370501	Total Kjeldahl Nitrogen (TKN)	2019/10/07	NC	80 - 120	101	80 - 120	<0.10	mg/L	12	20	99	80 - 120
6370698	Dissolved Chloride (Cl-)	2019/10/08	NC	80 - 120	102	80 - 120	<1.0	mg/L	1.3	20		
6370705	Dissolved Sulphate (SO4)	2019/10/07	NC	75 - 125	100	80 - 120	<1.0	mg/L	1.8	20		
6370706	Orthophosphate (P)	2019/10/07	108	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
6370923	Alkalinity (Total as CaCO3)	2019/10/06			94	85 - 115	<1.0	mg/L	1.5	20		
6370927	Conductivity	2019/10/06			100	85 - 115	<1.0	umho/cm	0.65	25		
6371046	pH	2019/10/06			102	98 - 103			0.21	N/A		
6372385	Total Dissolved Solids	2019/10/08					<10	mg/L	1.2	25	97	90 - 110
6374559	Total Aluminum (Al)	2019/10/07	89	80 - 120	102	80 - 120	<3.0	ug/L				
6374559	Total Antimony (Sb)	2019/10/07	NC	80 - 120	99	80 - 120	<0.50	ug/L				
6374559	Total Arsenic (As)	2019/10/07	97	80 - 120	100	80 - 120	<0.10	ug/L				
6374559	Total Barium (Ba)	2019/10/07	83	80 - 120	101	80 - 120	<1.0	ug/L				
6374559	Total Beryllium (Be)	2019/10/07	91	80 - 120	102	80 - 120	<0.10	ug/L				
6374559	Total Bismuth (Bi)	2019/10/07	73 (1)	80 - 120	104	80 - 120	<1.0	ug/L				
6374559	Total Boron (B)	2019/10/07	85	80 - 120	97	80 - 120	<50	ug/L				
6374559	Total Cadmium (Cd)	2019/10/07	92	80 - 120	101	80 - 120	<0.010	ug/L				
6374559	Total Chromium (Cr)	2019/10/07	87	80 - 120	96	80 - 120	<1.0	ug/L				
6374559	Total Cobalt (Co)	2019/10/07	88	80 - 120	104	80 - 120	<0.20	ug/L				
6374559	Total Copper (Cu)	2019/10/07	72 (1)	80 - 120	98	80 - 120	<0.50	ug/L				
6374559	Total Iron (Fe)	2019/10/07	98	80 - 120	105	80 - 120	<10	ug/L				
6374559	Total Lead (Pb)	2019/10/07	95	80 - 120	108	80 - 120	<0.20	ug/L				

BUREAU
VERITAS

BV Labs Job #: B9R7258

Report Date: 2019/10/22

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6374559	Total Lithium (Li)	2019/10/07	94	80 - 120	106	80 - 120	<2.0	ug/L				
6374559	Total Manganese (Mn)	2019/10/07	NC	80 - 120	97	80 - 120	<1.0	ug/L				
6374559	Total Molybdenum (Mo)	2019/10/07	NC	80 - 120	99	80 - 120	<1.0	ug/L				
6374559	Total Nickel (Ni)	2019/10/07	87	80 - 120	101	80 - 120	<1.0	ug/L				
6374559	Total Selenium (Se)	2019/10/07	93	80 - 120	103	80 - 120	<0.10	ug/L				
6374559	Total Silicon (Si)	2019/10/07	85	80 - 120	102	80 - 120	<100	ug/L				
6374559	Total Silver (Ag)	2019/10/07	82	80 - 120	100	80 - 120	<0.020	ug/L				
6374559	Total Strontium (Sr)	2019/10/07	NC	80 - 120	97	80 - 120	<1.0	ug/L				
6374559	Total Thallium (Tl)	2019/10/07	93	80 - 120	104	80 - 120	<0.010	ug/L				
6374559	Total Tin (Sn)	2019/10/07	88	80 - 120	94	80 - 120	<5.0	ug/L				
6374559	Total Titanium (Ti)	2019/10/07	97	80 - 120	103	80 - 120	<5.0	ug/L				
6374559	Total Uranium (U)	2019/10/07	97	80 - 120	105	80 - 120	<0.10	ug/L				
6374559	Total Vanadium (V)	2019/10/07	88	80 - 120	94	80 - 120	<5.0	ug/L				
6374559	Total Zinc (Zn)	2019/10/07	84	80 - 120	101	80 - 120	<5.0	ug/L				
6374559	Total Zirconium (Zr)	2019/10/07	98	80 - 120	100	80 - 120	<0.10	ug/L				
6375572	Dissolved Mercury (Hg)	2019/10/08	96	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6376861	Dissolved Aluminum (Al)	2019/10/07	101	80 - 120	102	80 - 120	<3.0	ug/L				
6376861	Dissolved Antimony (Sb)	2019/10/07	103	80 - 120	104	80 - 120	<0.50	ug/L				
6376861	Dissolved Arsenic (As)	2019/10/07	106	80 - 120	105	80 - 120	<0.10	ug/L				
6376861	Dissolved Barium (Ba)	2019/10/07	103	80 - 120	106	80 - 120	<1.0	ug/L				
6376861	Dissolved Beryllium (Be)	2019/10/07	98	80 - 120	100	80 - 120	<0.10	ug/L				
6376861	Dissolved Bismuth (Bi)	2019/10/07	102	80 - 120	103	80 - 120	<1.0	ug/L				
6376861	Dissolved Boron (B)	2019/10/07	105	80 - 120	104	80 - 120	<50	ug/L				
6376861	Dissolved Cadmium (Cd)	2019/10/07	104	80 - 120	105	80 - 120	<0.010	ug/L				
6376861	Dissolved Chromium (Cr)	2019/10/07	103	80 - 120	103	80 - 120	<1.0	ug/L				
6376861	Dissolved Cobalt (Co)	2019/10/07	102	80 - 120	102	80 - 120	<0.20	ug/L				
6376861	Dissolved Copper (Cu)	2019/10/07	102	80 - 120	102	80 - 120	<0.20	ug/L				
6376861	Dissolved Iron (Fe)	2019/10/07	104	80 - 120	105	80 - 120	<5.0	ug/L				
6376861	Dissolved Lead (Pb)	2019/10/07	104	80 - 120	105	80 - 120	<0.20	ug/L				
6376861	Dissolved Lithium (Li)	2019/10/07	100	80 - 120	101	80 - 120	<2.0	ug/L				
6376861	Dissolved Manganese (Mn)	2019/10/07	104	80 - 120	104	80 - 120	<1.0	ug/L				
6376861	Dissolved Molybdenum (Mo)	2019/10/07	100	80 - 120	103	80 - 120	<1.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: B9R7258

Report Date: 2019/10/22

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6376861	Dissolved Nickel (Ni)	2019/10/07	102	80 - 120	103	80 - 120	<1.0	ug/L				
6376861	Dissolved Selenium (Se)	2019/10/07	107	80 - 120	105	80 - 120	<0.10	ug/L				
6376861	Dissolved Silicon (Si)	2019/10/07	102	80 - 120	107	80 - 120	<100	ug/L				
6376861	Dissolved Silver (Ag)	2019/10/07	102	80 - 120	103	80 - 120	<0.020	ug/L				
6376861	Dissolved Strontium (Sr)	2019/10/07	103	80 - 120	105	80 - 120	<1.0	ug/L				
6376861	Dissolved Tin (Sn)	2019/10/07	96	80 - 120	97	80 - 120	<5.0	ug/L				
6376861	Dissolved Titanium (Ti)	2019/10/07	105	80 - 120	105	80 - 120	<5.0	ug/L				
6376861	Dissolved Uranium (U)	2019/10/07	106	80 - 120	106	80 - 120	<0.10	ug/L				
6376861	Dissolved Vanadium (V)	2019/10/07	102	80 - 120	102	80 - 120	<5.0	ug/L				
6376861	Dissolved Zinc (Zn)	2019/10/07	108	80 - 120	107	80 - 120	<5.0	ug/L				
6376861	Dissolved Zirconium (Zr)	2019/10/07	103	80 - 120	104	80 - 120	<0.10	ug/L				
6376862	Dissolved Thallium (Tl)	2019/10/08			98	80 - 120	<0.010	ug/L				
6377529	Radium-226	2019/10/18			108	85 - 115	<0.0050	Bq/L	NC	N/A		
6377981	Mercury (Hg)	2019/10/09	98	75 - 125	100	80 - 120	<0.00001	mg/L	NC	20		
6381435	Free Cyanide (CN)	2019/10/08	76 (1)	80 - 120	97	80 - 120	<1.0	ug/L	1.6	20		
6381436	Reactive Silica (SiO2)	2019/10/07	101	80 - 120	101	80 - 120	<0.050	mg/L				
6386818	Dissolved Chloride (Cl-)	2019/10/10	110	80 - 120	103	80 - 120	<1.0	mg/L				
6386818	Dissolved Sulphate (SO4)	2019/10/10	NC	80 - 120	101	80 - 120	<1.0	mg/L				
6386819	Conductivity	2019/10/09			99	90 - 110	<2.0	uS/cm				
6386820	Dissolved Calcium (Ca)	2019/10/05	89	80 - 120	92	80 - 120	<0.30	mg/L				
6386820	Dissolved Magnesium (Mg)	2019/10/05	86	80 - 120	96	80 - 120	<0.20	mg/L				
6386820	Dissolved Potassium (K)	2019/10/05	91	80 - 120	95	80 - 120	<0.30	mg/L				
6386820	Dissolved Sodium (Na)	2019/10/05	NC	80 - 120	96	80 - 120	<0.50	mg/L				



BUREAU
VERITAS

BV Labs Job #: B9R7258

Report Date: 2019/10/22

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

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
6386821	pH	2019/10/09			100	97 - 103						

N/A = Not Applicable

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.

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 $\leq 2 \times \text{RDL}$).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: B9R7258
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: RS

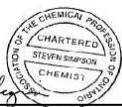
VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Brad Newman, Scientific Service Specialist

Harry (Peng) Liang, Senior Analyst

Rob Reinert, B.Sc., Scientific Specialist



Steven Simpson, Lab Director

BV Labs 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

BV Labs Job #: B9R7258

Report Date: 2019/10/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: RS

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your P.O. #: OL-762849
 Site#: 62°48'01.99" 92°06'00.05"
 Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/10/22
 Report #: R5930989
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9S3427

Received: 2019/10/09, 10:05

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Alkalinity (1)	1	N/A	2019/10/10	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2019/10/16	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	1	N/A	2019/10/11	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	1	N/A	2019/10/10	CAM SOP-00414	SM 23 2510 m
Free (WAD) Cyanide (1)	1	N/A	2019/10/09	CAM SOP-00457	OMOE E3015 m
Total Cyanide (1)	1	2019/10/10	2019/10/10	CAM SOP-00457	OMOE E3015 5 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2019/10/10	CAM SOP-00446	SM 23 5310 B m
Dissolved Oxygen (1)	1	2019/10/10	2019/10/10	CAM SOP-00427	SM 23 4500 O G m
Dissolved Mercury (low level) (1)	1	2019/10/15	2019/10/15	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2019/10/15	2019/10/15	CAM SOP-00453	EPA 7470 m
Chloride & Sulphate by Auto Colorimetry (2)	1	N/A	2019/10/17	AB SOP-00020 / AB SOP-00018	SM23 4500-CL/SO4-E m
Cyanide (Free) (2)	1	N/A	N/A		
Conductivity @25C (2)	1	N/A	2019/10/16	AB SOP-00005	SM 23 2510 B m
Hardness Total (calculated as CaCO3) (3, 6)	1	N/A	2019/10/15	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	1	N/A	2019/10/15	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (2)	1	N/A	2019/10/16	AB SOP-00042	EPA 6010d R5 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2019/10/15	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2019/10/15	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2019/10/09	2019/10/15	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	1	2019/10/15	2019/10/15	BBY7SOP-00003/02	EPA 6020B R2 m
pH @25°C (2, 7)	1	N/A	2019/10/16	AB SOP-00005	SM 23 4500-H+B m
Sodium Adsorption Ratio (2)	1	N/A	2019/10/18		Auto Calc
Silica (Reactive) (2)	1	N/A	2019/10/16	AB SOP-00011	EPA370.1 R1978 m
Total Dissolved Solids (Calc. from EC) (2)	1	N/A	2019/10/17		Auto Calc
Total Ammonia-N (1)	1	N/A	2019/10/10	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1, 8)	1	N/A	2019/10/12	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (1)	1	2019/10/10	2019/10/10	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	1	N/A	2019/10/11	CAM SOP-00461	EPA 365.1 m
Radium-226 Low Level (4, 9)	1	N/A	2019/10/16	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/10/22

Report #: R5930989

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9S3427

Received: 2019/10/09, 10:05

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Reference
	Quantity	Extracted			
Sulphate by Automated Colourimetry (1)	1	N/A	2019/10/11	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (1)	1	2019/10/12	2019/10/15	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water (1)	1	2019/10/10	2019/10/15	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 10)	1	N/A	2019/10/10	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric) (1)	1	2019/10/10	2019/10/10	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	1	2019/10/10	2019/10/10	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	1	N/A	2019/10/10	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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 Laboratories Mississauga

(2) This test was performed by Campo to Calgary - Offsite

(3) This test was performed by Campo to Burnaby - Offsite

(4) This test was performed by Bureau Veritas Laboratories Kitimat

(5) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(6) "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).



Your P.O. #: OL-762849
Site#: 62°48'01.99" 92°06'00.05"
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2019/10/22
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BV LABS JOB #: B9S3427

Received: 2019/10/09, 10:05

- (7) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.
- (8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (9) Radium-226 results have not been corrected for blanks.
- (10) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

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

Alisha Williamson, Project Manager

Email: Alisha.Williamson@bvlabs.com

Phone# (613)274-0573

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BV Labs 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

BV Labs Job #: B9S3427
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

SALINITY IN WATER (WATER)

BV Labs ID		KZM952		
Sampling Date		2019/10/07 06:00		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	25	0.10	6398028
Total dissolved solids (calc., EC)	mg/L	27000	10	6398029
ELEMENTS				
Dissolved Calcium (Ca)	mg/L	1400 (1)	3.0	6398026
Dissolved Magnesium (Mg)	mg/L	620 (1)	2.0	6398026
Dissolved Potassium (K)	mg/L	190	0.30	6398026
Dissolved Sodium (Na)	mg/L	4400 (1)	5.0	6398026
Inorganics				
Dissolved Chloride (Cl-)	mg/L	9000 (1)	100	6398024
Conductivity	uS/cm	28000	2.0	6398025
pH	pH	7.19	N/A	6398027
Dissolved Sulphate (SO4)	mg/L	1100 (1)	10	6398024
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Detection limits raised due to dilution to bring analyte within the calibrated range.				



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VERITAS

BV Labs Job #: B9S3427
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KZM952		
Sampling Date		2019/10/07 06:00		
	UNITS	MEL-26	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	5830	0.50	6388004
Metals				
Dissolved Aluminum (Al)	ug/L	250	60	6388006
Dissolved Antimony (Sb)	ug/L	<10	10	6388006
Dissolved Arsenic (As)	ug/L	5.1	2.0	6388006
Dissolved Barium (Ba)	ug/L	321	20	6388006
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	6388006
Dissolved Bismuth (Bi)	ug/L	<20	20	6388006
Dissolved Boron (B)	ug/L	<1000	1000	6388006
Dissolved Cadmium (Cd)	ug/L	0.29	0.20	6388006
Dissolved Chromium (Cr)	ug/L	<20	20	6388006
Dissolved Cobalt (Co)	ug/L	8.8	4.0	6388006
Dissolved Copper (Cu)	ug/L	8.6	4.0	6388006
Dissolved Iron (Fe)	ug/L	<100	100	6388006
Dissolved Lead (Pb)	ug/L	<4.0	4.0	6388006
Dissolved Lithium (Li)	ug/L	676	40	6388006
Dissolved Manganese (Mn)	ug/L	364	20	6388006
Dissolved Molybdenum (Mo)	ug/L	<20	20	6388006
Dissolved Nickel (Ni)	ug/L	60	20	6388006
Dissolved Selenium (Se)	ug/L	<2.0	2.0	6388006
Dissolved Silicon (Si)	ug/L	3970	2000	6388006
Dissolved Silver (Ag)	ug/L	<0.40	0.40	6388006
Dissolved Strontium (Sr)	ug/L	30100	20	6388006
Dissolved Thallium (Tl)	ug/L	<0.20	0.20	6388006
Dissolved Tin (Sn)	ug/L	<100	100	6388006
Dissolved Titanium (Ti)	ug/L	<100	100	6388006
Dissolved Uranium (U)	ug/L	6.0	2.0	6388006
Dissolved Vanadium (V)	ug/L	<100	100	6388006
Dissolved Zinc (Zn)	ug/L	<100	100	6388006
Dissolved Zirconium (Zr)	ug/L	<2.0	2.0	6388006
Dissolved Calcium (Ca)	mg/L	1370	1.0	6388005
Dissolved Magnesium (Mg)	mg/L	586	1.0	6388005
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: B9S3427
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		KZM952		
Sampling Date		2019/10/07 06:00		
	UNITS	MEL-26	RDL	QC Batch
Dissolved Potassium (K)	mg/L	189	1.0	6388005
Dissolved Sodium (Na)	mg/L	3970	1.0	6388005
Dissolved Sulphur (S)	mg/L	451	60	6388005
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: B9S3427
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
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Sampler Initials: DM

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KZM952		
Sampling Date		2019/10/07 06:00		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	464	30	6388003
Total Antimony (Sb)	ug/L	<5.0	5.0	6388003
Total Arsenic (As)	ug/L	6.5	1.0	6388003
Total Barium (Ba)	ug/L	324	10	6388003
Total Beryllium (Be)	ug/L	<1.0	1.0	6388003
Total Bismuth (Bi)	ug/L	<10	10	6388003
Total Boron (B)	ug/L	747	500	6388003
Total Cadmium (Cd)	ug/L	0.37	0.10	6388003
Total Chromium (Cr)	ug/L	<10	10	6388003
Total Cobalt (Co)	ug/L	9.2	2.0	6388003
Total Copper (Cu)	ug/L	8.1	5.0	6388003
Total Iron (Fe)	ug/L	<100	100	6388003
Total Lead (Pb)	ug/L	3.4	2.0	6388003
Total Lithium (Li)	ug/L	705	20	6388003
Total Manganese (Mn)	ug/L	388	10	6388003
Total Molybdenum (Mo)	ug/L	18	10	6388003
Total Nickel (Ni)	ug/L	58	10	6388003
Total Selenium (Se)	ug/L	1.8	1.0	6388003
Total Silicon (Si)	ug/L	4670	1000	6388003
Total Silver (Ag)	ug/L	<0.20	0.20	6388003
Total Strontium (Sr)	ug/L	28100	10	6388003
Total Thallium (Tl)	ug/L	0.16	0.10	6388003
Total Tin (Sn)	ug/L	<50	50	6388003
Total Titanium (Ti)	ug/L	<50	50	6388003
Total Uranium (U)	ug/L	7.3	1.0	6388003
Total Vanadium (V)	ug/L	<50	50	6388003
Total Zinc (Zn)	ug/L	<50	50	6388003
Total Zirconium (Zr)	ug/L	<1.0	1.0	6388003
Total Calcium (Ca)	ug/L	1320000	500	6388002
Total Magnesium (Mg)	ug/L	584000	500	6388002
Total Potassium (K)	ug/L	184000	500	6388002
Total Sodium (Na)	ug/L	4250000	500	6388002
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		KZM952		
Sampling Date		2019/10/07 06:00		
	UNITS	MEL-26	RDL	QC Batch
Total Sulphur (S)	ug/L	508000	30000	6388002
Calculated Parameters				
Total Hardness (CaCO3)	ug/L	5690000	500	6388001
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: B9S3427

Report Date: 2019/10/22

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

Sampler Initials: DM

RESULTS OF ANALYSES OF WATER

BV Labs ID		KZM952			KZM952		
Sampling Date		2019/10/07 06:00			2019/10/07 06:00		
	UNITS	MEL-26	RDL	QC Batch	MEL-26 Lab-Dup	RDL	QC Batch

Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	57	1.0	6378058			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	6378058			
Inorganics							
Total Ammonia-N	mg/L	28	0.050	6380190			
Conductivity	umho/cm	28000	1.0	6380761	28000	1.0	6380761
Free Cyanide (CN)	ug/L	30 (1)	1.0	6393656	30	1.0	6393656
Total Dissolved Solids	mg/L	18300	20	6381906			
Total Kjeldahl Nitrogen (TKN)	mg/L	44	5.0	6380367			
Dissolved Organic Carbon	mg/L	27	0.50	6380296			
Total Organic Carbon (TOC)	mg/L	28	0.50	6380737			
Orthophosphate (P)	mg/L	<0.010	0.010	6381836	<0.010	0.010	6381836
Dissolved Oxygen	mg/L	10.0		6381017			
pH	pH	7.29		6380759	7.29		6380759
Total Phosphorus	mg/L	0.084	0.020	6380168			
Reactive Silica (SiO ₂)	mg/L	11 (2)	0.10	6398030			
Total Suspended Solids	mg/L	17	1	6380144			
Dissolved Sulphate (SO ₄)	mg/L	1000	10	6381833	1000	10	6381833
Total Cyanide (CN)	mg/L	0.13	0.0050	6378880			
Turbidity	NTU	1.0	0.1	6379316			
WAD Cyanide (Free)	mg/L	0.018	0.0010	6378894			
Alkalinity (Total as CaCO ₃)	mg/L	57	1.0	6380746	56	1.0	6380746
Dissolved Chloride (Cl ⁻)	mg/L	9300	100	6381830	9700	100	6381830
Nitrite (N)	mg/L	1.10	0.010	6380567			
Nitrate (N)	mg/L	71.1	1.0	6380567			
Nitrate + Nitrite (N)	mg/L	72.2	1.0	6380567			
RADIONUCLIDE							
Radium-226	Bq/L	0.061	0.0050	6382911			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) See general comments for notes regarding CNFREE-W (2) Detection limits raised due to dilution to bring analyte within the calibrated range.							



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VERITAS

BV Labs Job #: B9S3427
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		KZM952		
Sampling Date		2019/10/07 06:00		
	UNITS	MEL-26	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	6386124
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	6386573
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: B9S3427
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

TEST SUMMARY

BV Labs ID: KZM952
Sample ID: MEL-26
Matrix: Water

Collected: 2019/10/07
Shipped:
Received: 2019/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6380746	N/A	2019/10/10	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	6378058	N/A	2019/10/16	Brad Newman
Chloride by Automated Colourimetry	KONE	6381830	N/A	2019/10/11	Deonarine Ramnarine
Conductivity	AT	6380761	N/A	2019/10/10	Surinder Rai
Free (WAD) Cyanide	SKAL/CN	6378894	N/A	2019/10/09	Gnana Thomas
Total Cyanide	SKAL/CN	6378880	2019/10/10	2019/10/10	Gnana Thomas
Dissolved Organic Carbon (DOC)	TOCV/NDIR	6380296	N/A	2019/10/10	Mandeep Kaur
Dissolved Oxygen	DO	6381017	2019/10/10	2019/10/10	Nusrat Naz
Dissolved Mercury (low level)	CV/AA	6386573	2019/10/15	2019/10/15	Medhat Nasr
Mercury (low level)	CV/AA	6386124	2019/10/15	2019/10/15	Medhat Nasr
Chloride & Sulphate by Auto Colorimetry	KONE	6398024	N/A	2019/10/17	Zafar Iqbal
Cyanide (Free)	SPEC	6393656	2019/10/15	2019/10/15	Taylor Mullings
Conductivity @25C	COND	6398025	N/A	2019/10/16	Ilonka Kovac
Hardness Total (calculated as CaCO3)	CALC	6388001	N/A	2019/10/15	Report Automation Engine
Hardness (calculated as CaCO3)	CALC	6388004	N/A	2019/10/15	Report Automation Engine
Elements by ICP-Dissolved-Lab Filtered	ICP	6398026	N/A	2019/10/16	Mary Anne Dela Cruz
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	6388005	N/A	2019/10/15	Report Automation Engine
Elements by CRC ICPMS (dissolved)	ICP/MS	6388006	N/A	2019/10/15	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	6388002	2019/10/15	2019/10/15	Report Automation Engine
Elements by CRC ICPMS (total)	ICP/MS	6388003	2019/10/15	2019/10/15	John Choo
pH @25°C	AT/PH	6398027	N/A	2019/10/16	Ilonka Kovac
Sodium Adsorption Ratio	CALC	6398028	N/A	2019/10/18	Automated Statchk
Silica (Reactive)	KONE	6398030	N/A	2019/10/16	Serena Tian
Total Dissolved Solids (Calc. from EC)	CALC	6398029	N/A	2019/10/17	Report Automation Engine
Total Ammonia-N	LACH/NH4	6380190	N/A	2019/10/10	Mazin Wakai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	6380567	N/A	2019/10/12	Amanpreet Sappal
pH	AT	6380759	2019/10/10	2019/10/10	Surinder Rai
Orthophosphate	KONE	6381836	N/A	2019/10/11	Alina Dobreanu
Radium-226 Low Level	AS	6382911	N/A	2019/10/16	Priya Sharma
Sulphate by Automated Colourimetry	KONE	6381833	N/A	2019/10/11	Alina Dobreanu
Total Dissolved Solids	BAL	6381906	2019/10/12	2019/10/15	Xinyue (Sarah) Hou
Total Kjeldahl Nitrogen in Water	SKAL	6380367	2019/10/10	2019/10/15	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	6380737	N/A	2019/10/10	Mandeep Kaur
Total Phosphorus (Colourimetric)	LACH/P	6380168	2019/10/10	2019/10/10	Shivani Shivani
Low Level Total Suspended Solids	BAL	6380144	2019/10/10	2019/10/10	Massarat Jan
Turbidity	AT	6379316	N/A	2019/10/10	Kazzandra Adeva

BV Labs ID: KZM952 Dup
Sample ID: MEL-26
Matrix: Water

Collected: 2019/10/07
Shipped:
Received: 2019/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	6380746	N/A	2019/10/10	Surinder Rai
Chloride by Automated Colourimetry	KONE	6381830	N/A	2019/10/11	Deonarine Ramnarine
Conductivity	AT	6380761	N/A	2019/10/10	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: B9S3427
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

TEST SUMMARY

BV Labs ID: KZM952 Dup
Sample ID: MEL-26
Matrix: Water

Collected: 2019/10/07
Shipped:
Received: 2019/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (Free)	SPEC	6393656	2019/10/15	2019/10/15	Taylor Mullings
pH	AT	6380759	2019/10/10	2019/10/10	Surinder Rai
Orthophosphate	KONE	6381836	N/A	2019/10/11	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	6381833	N/A	2019/10/11	Alina Dobreanu



GENERAL COMMENTS

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

Package 1	10.3°C

Sample KZM952 [MEL-26] : Interference checks not performed at the time of sampling. The lab cannot guarantee that interferences were not present at the time of sampling and that there is no low bias in results

Sample was not submitted in an appropriate container for CNFREE-W analysis. Results may have a high bias due to decomposition of hexacyanoferrate and some other metal-cyanide complexes to free cyanide

Sample pH <12, preservation incomplete. Due to volatility of analyte, a low bias in the results is likely.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Sample KZM952 [MEL-26] Elements by CRC ICPMS (dissolved): RDL raised due to concentration over linear range, sample dilution required.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Sample KZM952 [MEL-26] Elements by CRC ICPMS (total): RDL raised due to concentration over linear range, sample dilution required

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: B9S3427

Report Date: 2019/10/22

QUALITY ASSURANCE REPORT

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

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
6378880	Total Cyanide (CN)	2019/10/09	79 (1)	80 - 120	92	80 - 120	<0.0050	mg/L	7.7	20		
6378894	WAD Cyanide (Free)	2019/10/09	95	80 - 120	100	80 - 120	<0.0010	mg/L	4.9	20		
6379316	Turbidity	2019/10/10			110	85 - 115	<0.1	NTU	NC	20		
6380144	Total Suspended Solids	2019/10/10					<1	mg/L	NC	25	98	85 - 115
6380168	Total Phosphorus	2019/10/10	97	80 - 120	97	80 - 120	<0.020	mg/L	0.37	20	96	80 - 120
6380190	Total Ammonia-N	2019/10/10	97	75 - 125	99	80 - 120	<0.050	mg/L	5.5	20		
6380296	Dissolved Organic Carbon	2019/10/10	94	80 - 120	97	80 - 120	<0.50	mg/L	1.0	20		
6380367	Total Kjeldahl Nitrogen (TKN)	2019/10/15	97	80 - 120	98	80 - 120	<0.10	mg/L	2.9	20	98	80 - 120
6380567	Nitrate (N)	2019/10/12	NC	80 - 120	105	80 - 120	<0.10	mg/L	0.45	20		
6380567	Nitrite (N)	2019/10/12	104	80 - 120	106	80 - 120	<0.010	mg/L	1.1	20		
6380737	Total Organic Carbon (TOC)	2019/10/10	93	80 - 120	96	80 - 120	<0.50	mg/L	0.78	20		
6380746	Alkalinity (Total as CaCO3)	2019/10/10			96	85 - 115	<1.0	mg/L	1.8	20		
6380759	pH	2019/10/10			102	98 - 103			0.055	N/A		
6380761	Conductivity	2019/10/10			101	85 - 115	<1.0	umho/cm	0.39	25		
6381830	Dissolved Chloride (Cl-)	2019/10/11	NC	80 - 120	102	80 - 120	<1.0	mg/L	3.4	20		
6381833	Dissolved Sulphate (SO4)	2019/10/11	NC	75 - 125	100	80 - 120	<1.0	mg/L	0.68	20		
6381836	Orthophosphate (P)	2019/10/11	104	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
6381906	Total Dissolved Solids	2019/10/15					<10	mg/L	1.0	25	97	90 - 110
6382911	Radium-226	2019/10/16			102	85 - 115	<0.0050	Bq/L	NC	N/A		
6386124	Mercury (Hg)	2019/10/15	106	75 - 125	106	80 - 120	<0.00001	mg/L	NC	20		
6386573	Dissolved Mercury (Hg)	2019/10/15	111	75 - 125	107	80 - 120	<0.00001	mg/L	1.0	20		
6388003	Total Aluminum (Al)	2019/10/15	124 (1)	80 - 120	104	80 - 120	<3.0	ug/L				
6388003	Total Antimony (Sb)	2019/10/15	105	80 - 120	104	80 - 120	<0.50	ug/L				
6388003	Total Arsenic (As)	2019/10/15	107	80 - 120	98	80 - 120	<0.10	ug/L				
6388003	Total Barium (Ba)	2019/10/15	NC	80 - 120	106	80 - 120	<1.0	ug/L				
6388003	Total Beryllium (Be)	2019/10/15	100	80 - 120	103	80 - 120	<0.10	ug/L				
6388003	Total Bismuth (Bi)	2019/10/15	98	80 - 120	108	80 - 120	<1.0	ug/L				
6388003	Total Boron (B)	2019/10/15	108	80 - 120	111	80 - 120	<50	ug/L				
6388003	Total Cadmium (Cd)	2019/10/15	105	80 - 120	107	80 - 120	<0.010	ug/L				
6388003	Total Chromium (Cr)	2019/10/15	91	80 - 120	96	80 - 120	<1.0	ug/L				
6388003	Total Cobalt (Co)	2019/10/15	90	80 - 120	95	80 - 120	<0.20	ug/L				

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BV Labs Job #: B953427

Report Date: 2019/10/22

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

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
6388003	Total Copper (Cu)	2019/10/15	86	80 - 120	94	80 - 120	<0.50	ug/L				
6388003	Total Iron (Fe)	2019/10/15	89	80 - 120	94	80 - 120	<10	ug/L				
6388003	Total Lead (Pb)	2019/10/15	99	80 - 120	105	80 - 120	<0.20	ug/L				
6388003	Total Lithium (Li)	2019/10/15	100	80 - 120	109	80 - 120	<2.0	ug/L				
6388003	Total Manganese (Mn)	2019/10/15	93	80 - 120	99	80 - 120	<1.0	ug/L				
6388003	Total Molybdenum (Mo)	2019/10/15	NC	80 - 120	107	80 - 120	<1.0	ug/L				
6388003	Total Nickel (Ni)	2019/10/15	87	80 - 120	94	80 - 120	<1.0	ug/L				
6388003	Total Selenium (Se)	2019/10/15	104	80 - 120	100	80 - 120	<0.10	ug/L				
6388003	Total Silicon (Si)	2019/10/15	89	80 - 120	95	80 - 120	<100	ug/L				
6388003	Total Silver (Ag)	2019/10/15	101	80 - 120	106	80 - 120	<0.020	ug/L				
6388003	Total Strontium (Sr)	2019/10/15	NC	80 - 120	113	80 - 120	<1.0	ug/L				
6388003	Total Thallium (Tl)	2019/10/15	103	80 - 120	107	80 - 120	<0.010	ug/L				
6388003	Total Tin (Sn)	2019/10/15	97	80 - 120	98	80 - 120	<5.0	ug/L				
6388003	Total Titanium (Ti)	2019/10/15	98	80 - 120	97	80 - 120	<5.0	ug/L				
6388003	Total Uranium (U)	2019/10/15	111	80 - 120	108	80 - 120	<0.10	ug/L				
6388003	Total Vanadium (V)	2019/10/15	96	80 - 120	97	80 - 120	<5.0	ug/L				
6388003	Total Zinc (Zn)	2019/10/15	90	80 - 120	99	80 - 120	<5.0	ug/L				
6388003	Total Zirconium (Zr)	2019/10/15	108	80 - 120	109	80 - 120	<0.10	ug/L				
6388006	Dissolved Aluminum (Al)	2019/10/15	95	80 - 120	97	80 - 120	<3.0	ug/L				
6388006	Dissolved Antimony (Sb)	2019/10/15	97	80 - 120	99	80 - 120	<0.50	ug/L				
6388006	Dissolved Arsenic (As)	2019/10/15	98	80 - 120	99	80 - 120	<0.10	ug/L				
6388006	Dissolved Barium (Ba)	2019/10/15	NC	80 - 120	100	80 - 120	<1.0	ug/L				
6388006	Dissolved Beryllium (Be)	2019/10/15	89	80 - 120	96	80 - 120	<0.10	ug/L				
6388006	Dissolved Bismuth (Bi)	2019/10/15	93	80 - 120	99	80 - 120	<1.0	ug/L				
6388006	Dissolved Boron (B)	2019/10/15	NC	80 - 120	94	80 - 120	<50	ug/L				
6388006	Dissolved Cadmium (Cd)	2019/10/15	94	80 - 120	100	80 - 120	<0.010	ug/L				
6388006	Dissolved Chromium (Cr)	2019/10/15	90	80 - 120	98	80 - 120	<1.0	ug/L				
6388006	Dissolved Cobalt (Co)	2019/10/15	89	80 - 120	102	80 - 120	<0.20	ug/L				
6388006	Dissolved Copper (Cu)	2019/10/15	86	80 - 120	98	80 - 120	<0.20	ug/L				
6388006	Dissolved Iron (Fe)	2019/10/15	92	80 - 120	100	80 - 120	<5.0	ug/L				
6388006	Dissolved Lead (Pb)	2019/10/15	97	80 - 120	101	80 - 120	<0.20	ug/L				
6388006	Dissolved Lithium (Li)	2019/10/15	NC	80 - 120	97	80 - 120	<2.0	ug/L				



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BV Labs Job #: B9S3427

Report Date: 2019/10/22

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

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
6388006	Dissolved Manganese (Mn)	2019/10/15	91	80 - 120	98	80 - 120	<1.0	ug/L				
6388006	Dissolved Molybdenum (Mo)	2019/10/15	NC	80 - 120	102	80 - 120	<1.0	ug/L				
6388006	Dissolved Nickel (Ni)	2019/10/15	90	80 - 120	101	80 - 120	<1.0	ug/L				
6388006	Dissolved Selenium (Se)	2019/10/15	98	80 - 120	102	80 - 120	<0.10	ug/L				
6388006	Dissolved Silicon (Si)	2019/10/15	95	80 - 120	97	80 - 120	<100	ug/L				
6388006	Dissolved Silver (Ag)	2019/10/15	94	80 - 120	100	80 - 120	<0.020	ug/L				
6388006	Dissolved Strontium (Sr)	2019/10/15	NC	80 - 120	97	80 - 120	<1.0	ug/L				
6388006	Dissolved Thallium (Tl)	2019/10/15	96	80 - 120	99	80 - 120	<0.010	ug/L				
6388006	Dissolved Tin (Sn)	2019/10/15	88	80 - 120	92	80 - 120	<5.0	ug/L				
6388006	Dissolved Titanium (Ti)	2019/10/15	100	80 - 120	102	80 - 120	<5.0	ug/L				
6388006	Dissolved Uranium (U)	2019/10/15	102	80 - 120	101	80 - 120	<0.10	ug/L				
6388006	Dissolved Vanadium (V)	2019/10/15	97	80 - 120	97	80 - 120	<5.0	ug/L				
6388006	Dissolved Zinc (Zn)	2019/10/15	90	80 - 120	101	80 - 120	<5.0	ug/L				
6388006	Dissolved Zirconium (Zr)	2019/10/15	105	80 - 120	101	80 - 120	<0.10	ug/L				
6393656	Free Cyanide (CN)	2019/10/15	92	80 - 120	101	80 - 120	<1.0	ug/L	0.82	20		
6398024	Dissolved Chloride (Cl-)	2019/10/17	NC	80 - 120	105	80 - 120	<1.0	mg/L				
6398024	Dissolved Sulphate (SO4)	2019/10/17	NC	80 - 120	100	80 - 120	<1.0	mg/L				
6398025	Conductivity	2019/10/16			100	90 - 110	<2.0	uS/cm				
6398026	Dissolved Calcium (Ca)	2019/10/16	94	80 - 120	103	80 - 120	<0.30	mg/L				
6398026	Dissolved Magnesium (Mg)	2019/10/16	92	80 - 120	104	80 - 120	<0.20	mg/L				
6398026	Dissolved Potassium (K)	2019/10/16	101	80 - 120	108	80 - 120	<0.30	mg/L				
6398026	Dissolved Sodium (Na)	2019/10/16	96	80 - 120	109	80 - 120	<0.50	mg/L				
6398027	pH	2019/10/16			100	97 - 103						



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VERITAS

BV Labs Job #: B9S3427

Report Date: 2019/10/22

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-762849

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
6398030	Reactive Silica (SiO ₂)	2019/10/16	NC	80 - 120	101	80 - 120	<0.050	mg/L				

N/A = Not Applicable

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.

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 $\leq 2 \times \text{RDL}$).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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BV Labs Job #: B9S3427
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Brad Newman, Scientific Service Specialist

Harry (Peng) Liang, Senior Analyst



Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

Rob Reinert, B.Sc., Scientific Specialist

BV Labs 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.



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VERITAS

BV Labs Job #: B9S3427
Report Date: 2019/10/22

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-762849
Sampler Initials: DM

Exceedence Summary Table – Metal Mining Effluent Reg
Result Exceedences

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	Units
No Exceedences						
The exceedence summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						

CLIENT INFORMATION	TEST FACILITY INFORMATION
Aquatox/Agnico Eagle Mines - Meliadine Rankin Inlet, Nunavut, Canada Contact: Martina Rendas	Harris Industrial Testing Service Ltd. 1320 Ashdale Rd., South Rawdon Nova Scotia B0N 1Z0 Ph: 902 757-0232 Fax: 902 757-2839 office@harrisindustrial.info

SAMPLE INFORMATION (Client-provided data italicised)	GENERAL TEST INFORMATION
Lab Identification #: 19-361 Sample Name/Location: MEL-26 GPS 62°48'01.99" 92°06'00.05" Sampling Method: Grab Sample Homogenized: Yes Sampler Name: Sean Arruda/Bethany Hodgins Date & Time Sampled: July 22 2019 0700 Hrs Date & Time Received: July 25 2019 1220 Hrs Sample Description: Clear, colourless liquid.	Reference Method: EPS 1/RM/10 2 nd Ed. December 2017 Type: LC50 Tox 9B General Test Procedures held on file Test Organism: <i>Gasterosteus aculeatus</i> (Threespine stickleback)

PRE-TEST PARAMETERS	SAMPLE PRE-TREATMENT
Pre-test Temp. (°C): 16.0 Pre-test D.O. (mg/L): 7.5 Pretest D.O. (%): 91 Pre-test pH: 7.4 pH Adjusted: No Sample Salinity ¹ (‰): 21.2 Seawater Control Salinity ¹ (‰): 30.0 Salinity adjusted Control (‰): 20.9	Filtration of sample: No Adjustment of sample salinity: No Mandatory Pre-aeration: Yes Duration: 30 minutes Rate: 6.5 ± 1 ml/min/L Time: 1430 hrs D.O. (mg/L): 7.9 Sample D.O. Saturation (%) 91 Continued: No Duration: -- min. @ -- hrs D.O. (mg/L): -- Aeration continued throughout test by airstone

TEST CONDITIONS		
Date & Time Test Initiated: July 25 2019 1500 Hrs Date & Time Test Terminated: July 29 2019 1500 Hrs		Deviations from Test Method: No Description: N/A
Fish Batch #: 61 % Mortality over 7 days prior to test: 0	Loading Density (g/L): 0.30 Mean Fork Length (mm): 35 ± 4.1 SD Range (mm): 29 - 45	Temperature: 15 ± 1°C Photoperiod: 16L/8D Lux: 100 – 500 Static Test, Duration: 96 hours Control/Dilution Water: Natural Seawater
Test Volume (L): 10 Depth (cm): 17.7 Replicates: No Number of fish per vessel: 10	Mean Wet Weight (g): 0.30 ± 0.11 SD Range (g): 0.18 – 0.57	

¹When salinity is >40‰, it is measured using refractometry method (Environment Canada, 2017). When salinity is <40‰, the salinity is measured using conductivity method (*ibid.*).

TEST PARAMETERS							
INITIAL (0 hrs)					FINAL (96 hrs)		
CONC. %	TEMP. °C	D.O. mg/L (%)	pH	SALINITY ‰	TEMP. °C	D.O. mg/L (%)	pH
100	15.0	7.9 (91)	7.3	20.7	14.5	8.7 (99)	7.8
50	15.0	8.1 (94)	7.6	25.2	14.5	8.5 (98)	7.8
25	15.5	7.9 (91)	7.6	27.5	14.5	8.1 (95)	7.8
12.5	16.0	7.7 (94)	7.7	29.0	14.5	8.3 (96)	7.8
6.25	15.5	8.2 (100)	7.8	30.0	14.5	8.0 (93)	7.8
Control	15.5	8.2 (100)	7.8	30.0	14.5	8.0 (93)	7.8
Salinity Adj. Control	15.5	8.7 (98)	7.8	20.9	14.5	8.0 (96)	7.8

TEST RESULTS								
CONC. %	TOTAL MORTALITY #				PERCENT MORTALITY %			
	24 hrs	48 hrs	72 hrs	96 hrs	24 hrs	48 hrs	72 hrs	96 hrs
100	0/10	0/10	0/10	0/10	0	0	0	0
50	0/10	0/10	0/10	0/10	0	0	0	0
25	0/10	0/10	0/10	0/10	0	0	0	0
12.5	0/10	0/10	0/10	0/10	0	0	0	0
6.25	0/10	0/10	0/10	0/10	0	0	0	0
Control	0/10	0/10	0/10	0/10	0	0	0	0
Salinity Adj. Control	0/10	0/10	0/10	0/10	0	0	0	0
CONC. %	TOTAL STRESS #				PERCENT STRESS %			
	24 hrs	48 hrs	72 hrs	96 hrs	24 hrs	48 hrs	72 hrs	96 hrs
100	0/10	0/10	0/10	0/10	0	0	0	0
50	0/10	0/10	0/10	0/10	0	0	0	0
25	0/10	0/10	0/10	0/10	0	0	0	0
12.5	0/10	0/10	0/10	0/10	0	0	0	0
6.25	0/10	0/10	0/10	0/10	0	0	0	0
Control	0/10	0/10	0/10	0/10	0	0	0	0
Salinity Adj Control	0/10	0/10	0/10	0/10	0	0	0	0

96 HR LC₅₀ RESULTS

LC₅₀ Value (%): Non-lethal
Result: Pass
95% Confidence Limits (%): N/A
Statistical Method: N/A

REFERENCE TOXICANT DATA

Performed under laboratory conditions as above, no deviations

Batch: 61 Test Date: July 19 – 23 2019

Reference Substance: Phenol

LC₅₀ Value (mg/L): 16.5
 95% Confidence Limits (mg/L): 14.5 – 18.8
 Historical Mean (mg/L): 15.5
 Warning Limits $\pm$ 2 SD (mg/L): 12.0 – 20.2

COMMENTS

Test meets all conditions for test validity. An additional Salinity adjusted control was run at sample salinity.

TEST AUTHORIZATION AND VERIFICATION

Analyst(s): K. Marks and A. Huybers

Verified by: C. Harris

Date: July 29 2019

Signed:

**REFERENCES**

Tidepool Scientific Software, 2001 - 2014. Comprehensive Environmental Toxicity Information System – CETIS v1.8.7.20
Environment Canada, 2017. Biological Test Method: Reference Method for Determining Acute Lethality Using Threespine Stickleback.
Environment and Climate Change Canada, Ottawa, Ontario, Report EPS 1/RM/10, 2nd Edition.

Accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA Inc.).

The test included in this report is within the scope of this accreditation.

Results apply to the sample as received. The results reported apply only to the sample tested. Results are based on nominal concentrations.

CLIENT INFORMATION	TEST FACILITY INFORMATION
Aquatox/Agnico Eagle Mines - Meliadine Rankin Inlet, Nunavut, Canada Contact: Martina Rendas	Harris Industrial Testing Service Ltd. 1320 Ashdale Rd., South Rawdon Nova Scotia B0N 1Z0 Ph: 902 757-0232 Fax: 902 757-2839 office@harrisindustrial.info

SAMPLE INFORMATION (Client-provided data italicised)	GENERAL TEST INFORMATION
Lab Identification #: 19-381 Sample Name/Location: MEL-26 GPS 62°48'01.99" 92°06'00.05" Sampling Method: Grab Sample Homogenized: Yes Sampler Name: Not supplied Date & Time Sampled: Aug. 05 2019 0630 Hrs Date & Time Received: Aug. 08 2019 1310 Hrs Sample Description: Clear, colourless liquid.	Reference Method: EPS 1/RM/10 2 nd Ed. December 2017 Type: LC50 Tox 9B General Test Procedures held on file Test Organism: <i>Gasterosteus aculeatus</i> (Threespine stickleback)

PRE-TEST PARAMETERS	SAMPLE PRE-TREATMENT
Pre-test Temp. (°C): 16.0 Pre-test D.O. (mg/L): 7.4 D.O. Saturation (%): 87 Pre-test pH: 7.4 pH Adjusted: No Sample Salinity ¹ (‰): 18.8 Seawater Control Salinity ¹ (‰): 30.2 Salinity adjusted Control (‰): 19.3	Filtration of sample: No Adjustment of sample salinity: No Mandatory Pre-aeration: Yes Duration: 30 minutes Rate: 6.5 ± 1 ml/min/L Time: 1400 hrs D.O. (mg/L): 7.9 Sample D.O. Saturation (%) 90 Continued: No Duration: -- min. @ -- hrs D.O. (mg/L): -- Aeration continued throughout test by airstone @ 6.5 + 1 ml/min/L

TEST CONDITIONS		
Date & Time Test Initiated: Aug. 08 2019 1430 Hrs Date & Time Test Terminated: Aug. 12 2019 1430 Hrs		Deviations from Test Method: No Description: N/A
Fish Batch #: 61 % Mortality over 7 days prior to test: 0	Loading Density (g/L): 0.26 Mean Fork Length (mm): 33 ± 4.8 SD Range (mm): 23 - 39	Temperature: 15 ± 1°C Photoperiod: 16L/8D Lux: 100 – 500 Static Test, Duration: 96 hours Control/Dilution Water: Natural Seawater
Test Volume (L): 10 Depth (cm): 17.7 Replicates: No Number of fish per vessel: 10	Mean Wet Weight (g): 0.26 ± 0.12 SD Range (g): 0.11 – 0.46	

¹When salinity is >40‰, it is measured using refractometry method (Environment Canada, 2017). When salinity is <40‰, the salinity is measured using conductivity method (*ibid.*).

TEST PARAMETERS							
INITIAL (0 hrs)					FINAL (96 hrs)		
CONC. %	TEMP. °C	D.O. mg/L	pH	SALINITY ‰	TEMP. °C	D.O. mg/L (%)	pH
100	15.5	7.9	7.4	18.7	14.0	8.8	7.7
50	14.5	8.0	7.8	24.3	14.0	8.5	7.7
25	16.0	7.7	7.9	27.5	14.0	8.2	7.7
12.5	16.0	7.7	7.9	29.1	14.0	7.9	7.7
6.25	15.0	7.8	8.0	29.6	14.5	7.9	7.7
Control	15.0	7.8	7.9	30.2	14.0	8.1	7.7
Salinity Adj. Control	15.5	8.3	7.8	19.3	15.0	8.7	7.8

TEST RESULTS								
CONC. %	TOTAL MORTALITY #				PERCENT MORTALITY %			
	24 hrs	48 hrs	72 hrs	96 hrs	24 hrs	48 hrs	72 hrs	96 hrs
100	0/10	0/10	0/10	0/10	0	0	0	0
50	0/10	0/10	0/10	0/10	0	0	0	0
25	0/10	0/10	0/10	0/10	0	0	0	0
12.5	0/10	0/10	0/10	0/10	0	0	0	0
6.25	0/10	0/10	0/10	0/10	0	0	0	0
Control	0/10	0/10	0/10	0/10	0	0	0	0
Salinity Adj. Control	0/10	0/10	0/10	0/10	0	0	0	0
CONC. %	TOTAL STRESS #				PERCENT STRESS %			
	24 hrs	48 hrs	72 hrs	96 hrs	24 hrs	48 hrs	72 hrs	96 hrs
100	0/10	0/10	0/10	0/10	0	0	0	0
50	0/10	0/10	0/10	0/10	0	0	0	0
25	0/10	0/10	0/10	0/10	0	0	0	0
12.5	0/10	0/10	0/10	0/10	0	0	0	0
6.25	0/10	0/10	0/10	0/10	0	0	0	0
Control	0/10	0/10	0/10	0/10	0	0	0	0
Salinity Adj Control	0/10	0/10	0/10	0/10	0	0	0	0

96 HR LC₅₀ RESULTS

LC₅₀ Value (%): Non-lethal
Result: Pass
95% Confidence Limits (%): N/A
Statistical Method: N/A

REFERENCE TOXICANT DATA

Performed under laboratory conditions as above, no deviations

Batch: 61 Test Date: Aug. 08 – 12 2019

Reference Substance: Phenol

LC₅₀ Value (mg/L): 18.8
 95% Confidence Limits (mg/L): 12.5 – 25.0
 Historical Mean (mg/L): 15.8
 Warning Limits $\pm$ 2 SD (mg/L): 12.1 – 20.6

19-361

COMMENTS

Test meets all conditions for test validity. An additional Salinity adjusted control was run at sample salinity.

TEST AUTHORIZATION AND VERIFICATION

Analyst(s): K. Marks and A. Huybers

Verified by: C. Harris

Date: Aug. 12 2019

Signed:



REFERENCES

Tidepool Scientific Software, 2001 - 2014. Comprehensive Environmental Toxicity Information System – CETIS v1.8.7.20
Environment Canada, 2017. Biological Test Method: Reference Method for Determining Acute Lethality Using Threespine Stickleback.
Environment and Climate Change Canada, Ottawa, Ontario, Report EPS 1/RM/10, 2nd Edition December 2017.

Accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA Inc.).

The test included in this report is within the scope of this accreditation.

Results apply to the sample as received. The results reported apply only to the sample tested. Results are based on nominal concentrations.



Toxicity Testing on MEL-26 (Agnico Eagle Mining Limited)

Final Report

September 25, 2019

Submitted to: **Aquatox**
Puslinch, ON

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APPENDIX A – *Macrocystis pyrifera* Toxicity Test Data

APPENDIX B – Chain-of-Custody Form

SIGNATURE PAGE

Report By:
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Reviewed By:
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Senior Reviewer

This report has been prepared by Nautilus Environmental Company Inc. based on data and/or samples provided by our client and the results of this study are for their sole benefit. Any reliance on the data by a third party is at the sole and exclusive risk of that party. The results presented here relate only to the samples tested.

SUMMARY

Sample Information and Test Type

Sample ID	MEL-26 (GPS Location: 62°48'01.99" 92°06'00.05")
Sample collection date	August 12, 2019
Sample receipt date	August 15, 2019
Sample receipt temperature	18.8°C
Test types	48-hour giant kelp (<i>Macrocystis pyrifera</i>) germination and germ tube growth test

Summary of Results

Endpoint	% v/v (95% CL)
<i>Macrocystis pyrifera</i>	
Germination IC25	5.3 (4.5 – 6.1)
Germination IC50	7.0 (6.7 – 7.5)
Tube Length IC25	5.7 (4.7 – 6.0)
Tube Length IC50	7.2 (6.9 – 7.5)

IC = Inhibition Concentration, CL = Confidence Limits

1.0 INTRODUCTION

Nautilus Environmental Company Inc. conducted a toxicity test for Aquatox on a sample identified as MEL-26 from Agnico Eagle Mining Limited. This sample was collected on August 12, 2019 (GPS Location: 62°48'01.99" 92°06'00.05") and delivered to the Nautilus Environmental laboratory in Burnaby, BC on August 15, 2019. The sample was transported in 1 x 2L plastic bottle and was received at a temperature of 18.8°C. The sample was tested on the day of arrival. The following toxicity test was performed on the sample:

- 48-hour giant kelp (*Macrocystis pyrifera*) germination and germ tube growth test

Testing with *M. pyrifera* was initiated on August 15, 2019. The sample was salinity adjusted using Hyper Saline Brine (HSB) solution prior to test initiation and as a result the highest concentration tested was 90% (v/v). This report describes the results of this toxicity test. Copies of raw laboratory data sheets and statistical analyses for this test species are provided in Appendix A. The chain-of-custody form is provided in Appendix B.

2.0 METHODS

The method for this toxicity test is summarized in Table 1. Testing was conducted according to procedures described by US EPA (1995). Statistical analyses were performed using CETIS (Tidepool Scientific Software, 2013).

Table 1. Summary of test conditions: 48-hour giant kelp (*Macrocystis pyrifera*) germination and germ tube growth test.

Test species	<i>Macrocystis pyrifera</i>
Organism source	Commercial supplier
Organism age	<24 hours
Test type	Static
Test duration	48 hours
Test vessel	Plastic petri dish
Test volume	30 mL
Test concentrations	Seven concentrations, plus laboratory control and salt control
Test replicates	5 per treatment
Number of organisms	7,500 spores/ mL
Control/dilution water	Natural seawater
Test solution renewal	None
Test temperature	15 ± 1°C
Test salinity	30 ± 2 ppt; sample salinity adjusted by addition of Hyper Saline Brine (HSB) resulting in highest concentration tested of 90%.
Feeding	None
Light intensity	3700 ± 740 lux (cool white fluorescent)
Photoperiod	16 hours light / 8 hours dark
Aeration	None
Test measurements	Temperature measured daily; dissolved oxygen, pH and salinity measured at test initiation and test termination
Test protocol	US EPA (1995), EPA/600/R-95-136
Statistical software	CETIS Version 1.9.4
Test endpoints	Percent germination and germ tube length
Test acceptability criteria for controls	≥70% germination; ≥10µm germ tube length
Reference toxicant	Copper (added as CuCl ₂)

3.0 RESULTS

Results of the toxicity test on sample MEL-26 are summarized in Table 2. There were adverse effects observed on *M. pyrifera* germination, resulting in IC25 and IC50 values of 5.3 and 7.0%, respectively. Adverse effects were also observed on *M. pyrifera* tube length, resulting in IC25 and IC50 values of 5.7 and 7.2%, respectively.

Table 2. Results: giant kelp (*Macrocystis pyrifera*) germination and germ tube growth test.

Concentration (% v/v)	Germination Rate (%) (Mean $\pm$ SD)	Tube Length (μ m) (Mean $\pm$ SD)
Seawater Control	93.4 $\pm$ 3.0	11.5 $\pm$ 0.6
Brine Control	95.0 $\pm$ 2.1	12.3 $\pm$ 0.4
Pooled Controls*	94.2 $\pm$ 2.6	11.9 $\pm$ 0.6
1.41	95.4 $\pm$ 1.1	12.5 $\pm$ 0.6
2.81	91.0 $\pm$ 2.1	11.3 $\pm$ 0.5
5.62	69.4 $\pm$ 7.2	9.3 $\pm$ 0.6
11.25	0.00 $\pm$ 0.0	0.00 $\pm$ 0.0
22.5	0.00 $\pm$ 0.0	0.00 $\pm$ 0.0
45	0.00 $\pm$ 0.0	0.00 $\pm$ 0.0
90	0.00 $\pm$ 0.0	0.00 $\pm$ 0.0
Test Endpoint (% v/v)		
IC25 (95% CL)	5.3 (4.5 – 6.1)	5.7 (4.7 – 6.0)
IC50 (95% CL)	7.0 (6.7 – 7.5)	7.2 (6.9 – 7.5)

SD = Standard Deviation, IC = Inhibition Concentration, CL = Confidence Limits

* Seawater and brine control passed acceptability criteria, therefore pooled controls for analysis

4.0 QA/QC

The health history of the test organisms used in this exposure was acceptable and met the requirements of their respective protocol. The test met all control acceptability criteria and water quality parameters remained within ranges specified in the protocol throughout the test. Uncertainty associated with this test is best described by the standard deviation around the mean and/or the confidence limits around the point estimates.

Results of the reference toxicant test conducted during the testing program are summarized in Table 3. Results fell within the range for organism performance of mean and two standard deviation range, based on historical results obtained by the laboratory with this test. Thus, the sensitivity of the organisms used in this test was appropriate. The reference toxicant test was performed under the same conditions as those used for the sample.

Table 3. Reference toxicant test results.

Test Species	Endpoint (IC50)	Historical Mean (2 SD Range)	CV (%)	Test Date
<i>M. pyrifera</i>	Germination: 51.7 µg/L Cu	56.3 (23.7 – 134.0) µg/L Cu	46	August 15, 2019
	Tube length: 102.2 µg/L Cu	70.0 (28.0 – 174.6) µg/L Cu	48	

SD = Standard Deviation, CV = Coefficient of Variation, IC = Inhibition Concentration

5.0 REFERENCES

Tidepool Scientific Software. 2013. CETIS comprehensive environmental toxicity information system, version 1.9.4.11 Tidepool Scientific Software, McKinleyville, CA. 222 pp.

US EPA (United States Environmental Protection Agency). 1995. Short-term methods for estimating the chronic toxicity of effluents and receiving waters to west coast marine and estuarine organisms. EPA/600/R-95/136.

APPENDIX A – *Macrocystis pyrifera* Toxicity Test Data

Macrocystis pyrifera Summary Sheet

Client: Aquatox (Agnico Eagle Mining Limited)
Work Order No.: 191566

Start Date: 15-Aug-19
Set up by: DK

Sample Information:

Sample ID: MEL-26
Sample Date: 12-Aug-19
Date Received: 15-Aug-19
Sample Volume: 1 x 2-L

Test Organism Information:

Source: Kim Siewers
Batch #: 081519

CuCl Reference Toxicant Results:

Reference Toxicant ID: MP57
Stock Solution ID: 19Cu02
Date Initiated: 15-Aug-19

Germination 48-h IC50 (95% CL): 51.7 (46.3 - 58.7) µg/L Cu
Tube Length 48-h IC50 (95% CL): 102.2 (75.5 - 127.0) µg/L Cu

Germination 48-h IC50 Reference Toxicant Mean and Historical Range : 56.3 (23.7 - 134.0) µg/L Cu CV (%): 46
Tube Length 48-h IC50 Reference Toxicant Mean and Historical Range : 70.0 (28.0 - 174.6) µg/L Cu CV (%): 48

Test Results:

	Germination	Tube Length
IC25 %(v/v) (95% CL)	5.3 (4.5 - 6.1)	5.7 (4.7 - 6.0)
IC50 %(v/v) (95% CL)	7.0 (6.7 - 7.5)	7.2 (6.9 - 7.5)

Reviewed by: JOH

Date reviewed: Aug-30/19

Giant Kelp Germination and Growth Toxicity Test Water Quality Measurements

Client : Aquatox (Agnico Eagle Mines Limited)

Setup by: BA

Sample ID: MEL-26

Test Date/Time: Aug 15, 2019 ; 1420h

Work Order No.: 191566

Test Species: Macrocystis pyrifera

Culture Source: Kim Siewiers

Date Received: Aug 15, 2019

Light Intensity Range: 3900-4400

Date Measured: Aug 15, 2019

Sample Characteristics (Initial)

Temperature (°C) 18.0
DO (mg/L) 7.9
pH 7.7
Salinity (ppt) 22

After sample adjustment (e.g., salinity, pH, aeration)?

16.0
7.8
7.8
29
Salinity adjusted with HSB (Hyper Saline Buffer)

Concentration (%v/v)	Temperature (°C)			DO (mg/L)		pH		Salinity (ppt)	
	0 h	24 h	48 h	0 h	48 h	0 h	48 h	0 h	48 h
Control	15.5	14.5	15.5	8.1	2.0	7.7	7.5	28	29
Salt Control	16.0	14.5	15.5	7.4	2.0	8.1	7.8	29	30
1.41	15.5	14.5	15.5	7.9	2.1	7.7	7.6	28	28
2.81	15.5	14.5	15.5	7.9	2.0	7.7	7.6	28	28
5.62	15.5	14.5	15.5	7.9	2.1	7.7	7.6	28	28
11.25	15.5	14.5	15.5	7.8	2.1	7.7	7.6	28	28
22.5	16.0	14.5	15.5	7.7	2.0	7.8	7.6	28	29
45	16.0	14.5	15.5	7.8	2.0	7.8	7.6	29	29
90	16.0	14.5	15.5	7.8	2.0	7.8	7.6	29	29
Initials	BA	BA	m	BA	a	BA	A	BA	a

Thermometer: 3A8

DO meter: 2

pH meter: 42

Salinity meter: 2

Sample Description: clear colourless liquid, no odour, no particulates

Comments:

Reviewed:

BA

Date Reviewed:

Aug. 30/19

Giant Kelp (*M. pyrifera*) Toxicity Test Data Sheet - 48-h Germination and Tube Length

Client: Aquatox (Agnico Eagle Mines Limited)
 Work Order #: 191566
 Sample ID: MEL-26

Start Date/Time: August 15, 2019 ; 14:20h
 Termination Date/Time: August 17, 2019 ; 14:20h
 Calibration Factor: 1

Concentration %(v/v)	Rep	Number Germinated	Num. Not Germinated	Tube Length (um)										Initials
				1	2	3	4	5	6	7	8	9	10	
SW Control	A	962	A	15.6	10.8	14.9	10.9	12.5	11.5	14.5	12.5	13.4	10.6	88
	B	91	9	11.3	11.6	10.3	10.2	10.7	11.9	14.0	12.0	10.0	9.4	
	C	95	5	12.3	11.4	11.7	11.0	8.3	9.5	13.1	10.0	11.3	9.1	
	D	91	9	14.0	9.4	11.3	11.9	11.2	11.4	12.0	15.8	14.0	11.8	
	E	98	2	10.8	10.4	9.6	13.0	9.8	12.5	14.1	10.6	11.2	18.4	
Brine Salt Control	A	96	4	11.6	14.9	10.2	12.0	11.7	14.5	13.4	12.2	14.2	15.0	
	B	93	7	11.3	14.9	9.4	11.4	11.8	11.0	11.7	13.4	10.5	14.2	
	C	93	7	10.7	10.2	16.5	14.6	10.4	9.3	11.9	10.4	17.9	11.8	
	D	98	2	13.4	13.5	11.3	11.2	15.0	10.2	9.9	12.4	12.6	11.1	
	E	95	5	10.2	8.9	11.0	14.6	11.6	14.3	9.7	17.3	13.0	13.0	
1.41	A	95	5	15.4	13.0	9.3	10.8	13.3	12.8	12.8	15.6	11.4	13.9	
	B	94	6	11.2	12.5	9.9	12.6	9.2	10.2	13.0	12.6	15.5	13.5	
	C	96	4	11.0	14.5	14.4	11.0	13.9	11.4	12.7	13.9	16.3	13.0	
	D	97	3	12.1	13.1	9.5	13.5	13.8	9.1	10.6	13.1	13.0	9.4	
	E	95	5	13.0	13.0	11.4	11.2	12.4	16.7	10.7	14.4	10.1	12.6	
2.81	A	93	7	10.6	13.2	14.2	8.8	9.5	10.4	10.2	10.9	13.5	13.1	
	B	90	10	9.8	11.5	11.0	12.3	9.4	12.1	11.9	9.8	9.4	8.5	
	C	88	12	11.7	12.8	11.4	8.9	11.9	11.6	14.9	12.8	9.9	11.8	
	D	91	9	13.3	14.8	13.4	10.4	10.5	8.4	14.4	10.6	11.2	9.4	
	E	93	7	15.9	8.4	10.2	12.4	9.3	13.9	7.2	7.6	12.1	12.2	
5.62	A	66	34	7.5	9.5	8.5	8.1	7.5	11.9	9.3	8.4	7.9	6.5	
	B	65	35	8.7	6.3	9.0	12.2	7.7	9.7	10.0	15.2	11.1	9.0	
	C	62	38	10.1	11.7	7.3	7.1	7.4	14.9	11.2	9.7	9.8	8.2	
	D	79	21	9.5	10.5	10.1	6.6	10.6	7.0	11.1	7.7	11.1	12.9	
	E	75	25	10.6	7.1	11.0	11.8	8.8	5.8	6.3	9.9	8.9	7.5	↓

Comments: _____

Reviewed by: JGM

Date Reviewed: Aug. 30/19

Giant Kelp (*M. pyrifera*) Toxicity Test Data Sheet - 48-h Germination and Tube Length

Client: AquaMax (Agnico Eagle Mines Limited)
 Work Order #: 191566
 Sample ID: MEL-26

Start Date/Time: August 15, 2019; 1420h
 Termination Date/Time: August 17, 2019; 1420h
 Calibration Factor: 1

Concentration %(v/v)	Rep	Number Germinated	Num. Not Germinated	Tube Length (um)										Initials
				1	2	3	4	5	6	7	8	9	10	
11.25	A	0	100	0	0	0	0	0	0	0	0	0	0	B
	B	0	100	0	0	0	0	0	0	0	0	0	0	
	C	0	100	0	0	0	0	0	0	0	0	0	0	
	D	0	100	0	0	0	0	0	0	0	0	0	0	
	E	0	100	0	0	0	0	0	0	0	0	0	0	
22.5	A	0	100	0	0	0	0	0	0	0	0	0	0	
	B	0	100	0	0	0	0	0	0	0	0	0	0	
	C	0	100	0	0	0	0	0	0	0	0	0	0	
	D	0	100	0	0	0	0	0	0	0	0	0	0	
	E	0	100	0	0	0	0	0	0	0	0	0	0	
45	A	0	100	0	0	0	0	0	0	0	0	0	0	
	B	0	100	0	0	0	0	0	0	0	0	0	0	
	C	0	100	0	0	0	0	0	0	0	0	0	0	
	D	0	100	0	0	0	0	0	0	0	0	0	0	
	E	0	100	0	0	0	0	0	0	0	0	0	0	
90	A	0	100	0	0	0	0	0	0	0	0	0	0	
	B	0	100	0	0	0	0	0	0	0	0	0	0	
	C	0	100	0	0	0	0	0	0	0	0	0	0	
	D	0	100	0	0	0	0	0	0	0	0	0	0	
	E	0	100	0	0	0	0	0	0	0	0	0	0	
	A													K
	B													
	C													
	D													
	E													

Comments: _____

Reviewed by: SGM

Date Reviewed: Aug. 28/19

Giant Kelp (*M. pyrifera*) Toxicity Test Data Sheet - 48-h Germination and Tube Length

Client: Aquatox Testing and Consulting Inc. (Agnico Eagle Mines Ltd.)
 Work Order #: 191566
 Sample ID: MEL-26

Test Initiation Date/Time: 15 April 2019, 1420h
 Test Termination Date/Time: 17 August 2019, 1420h
 Calibration Factor: 1

Concentration %(v/v)	Rep	Number Germinate	Num. Not Germinate	Tube Length (µm)										Mean	SD
				1	2	3	4	5	6	7	8	9	10		
Control	A	92	8	15.6	10.8	10.0	12.5	11.5	9.5	12.5	9.2	12.5	10.6	11.5	1.9
	B	91	9	11.3	11.6	10.3	10.2	10.7	11.9	14.0	12.0	10.0	9.4	11.1	1.3
	C	95	5	12.3	11.4	11.7	11.0	8.3	9.5	13.1	10.0	11.3	9.1	10.8	1.5
	D	91	9	14	9.4	11.3	11.9	11.2	11.4	12.0	15.8	14.0	11.8	12.3	1.8
	E	98	2	10.8	10.4	9.6	13.0	9.8	12.5	14.1	10.6	11.2	18.4	12.0	2.7
Brine Control	A	96	4	11.6	14.9	10.2	12.0	11.7	14.5	13.4	12.2	14.2	15.0	13.0	1.7
	B	93	7	11.3	14.9	9.4	11.4	11.8	11.0	11.7	13.4	10.5	14.2	12.0	1.7
	C	93	7	10.7	10.2	16.5	14.6	10.4	9.3	11.9	10.4	17.9	11.8	12.4	2.9
	D	98	2	13.4	13.5	11.3	11.2	15.0	10.2	9.9	12.4	12.6	11.1	12.1	1.6
	E	95	5	10.2	8.9	11.0	14.6	11.6	14.3	9.7	17.3	13.0	13.0	12.4	2.6
1.41	A	95	5	15.4	13.0	9.3	10.8	13.3	12.8	12.8	15.6	11.4	13.9	12.8	2.0
	B	94	6	11.2	12.5	9.9	12.6	9.2	10.2	13.0	12.6	15.5	13.5	12.0	1.9
	C	96	4	11.0	14.5	14.4	11.0	13.9	11.4	12.7	13.9	16.3	13.0	13.2	1.7
	D	97	3	12.1	13.1	9.5	13.5	13.8	9.1	10.6	13.1	13.0	9.4	11.7	1.9
	E	95	5	13.0	13.0	11.4	11.2	12.4	16.7	10.7	14.4	10.1	12.6	12.6	1.9
2.81	A	93	7	10.6	13.2	14.2	8.8	9.5	10.4	10.2	10.9	13.5	13.1	11.4	1.9
	B	90	10	9.8	11.5	11.0	12.3	9.4	12.1	11.9	9.8	9.4	8.5	10.6	1.3
	C	88	12	11.7	12.8	11.4	8.9	11.7	11.6	14.9	12.8	9.9	11.8	11.8	1.6
	D	91	9	13.3	14.8	13.4	10.4	10.5	8.4	14.4	10.6	11.2	9.4	11.6	2.2
	E	93	7	15.9	8.4	10.2	12.4	9.3	13.9	7.2	7.6	12.1	12.2	10.9	2.9
5.62	A	66	34	7.5	9.5	8.5	8.1	7.5	11.9	9.3	8.4	7.9	6.5	8.5	1.5
	B	65	35	8.7	6.3	9.0	12.2	7.7	9.7	10.0	15.2	11.1	9.0	9.9	2.5
	C	62	38	10.1	11.7	7.3	7.1	7.4	14.9	11.2	9.7	9.8	8.2	9.7	2.4
	D	79	21	9.5	10.5	10.1	6.6	10.6	7.0	11.1	7.7	11.1	12.9	9.7	2.0
	E	75	25	10.6	7.1	11.0	11.8	8.8	5.8	6.3	9.9	8.9	7.5	8.8	2.1

Comments:

page 1 of 2

Reviewed by: John

Date Reviewed: Aug. 30/19

CETIS Summary Report

Report Date: 29 Aug-19 11:20 (p 1 of 3)
Test Code/ID: 191566 / 01-7607-0818

Macrocystis Germination and Germ Tube Growth Test

Nautilus Environmental

Batch ID: 08-5976-3285	Test Type: Growth-Germination	Analyst: Ditty Kakkassery	
Start Date: 15 Aug-19 14:20	Protocol: EPA/600/R-95/136 (1995)	Diluent: Natural seawater	
Ending Date: 17 Aug-19 14:20	Species: Macrocystis pyrifera	Brine: Frozen Seawater	
Test Length: 48h	Taxon: Ochrophyta	Source: Kim Siewers	Age:
Sample ID: 19-2051-6655	Code: 7278C22F	Project: Special Studies	
Sample Date: 12 Aug-19 06:15	Material: Water Sample	Source: Aquatox	
Receipt Date: 15 Aug-19 08:50	CAS (PC):	Station: Agnico Eagle Mines Limited	
Sample Age: 80h (18.8 °C)	Client: aquatox		

Single Comparison Summary

Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result	S
06-7235-3078	Germination Rate	Equal Variance t Two-Sample Test	0.7804	Salt Control passed germination rate	1
20-6831-3505	Mean Length	Equal Variance t Two-Sample Test	0.9796	Salt Control passed mean length	1

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	✓ Level	%	95% LCL	95% UCL	TU	S	
15-1198-8535	Germination Rate	Linear Interpolation (ICPIN)		EC1	1.702	1.478	2.02	58.76	1
				EC5	2.903	2.438	3.145	34.45	
				EC10	3.406	3.116	3.801	29.36	
				EC15	3.974	3.587	4.801	25.17	
			✓	EC20	4.615	4.009	5.941	21.67	
			✓	EC25	5.338	4.466	6.112	18.73	
			✓	EC40	6.397	5.965	6.849	15.63	
			✓	EC50	7.046	6.653	7.454	14.19	
03-2491-0820	Mean Length	Linear Interpolation (ICPIN)	✓	IC5	2.244	1.765	3.264	44.55	1
			✓	IC10	3.127	2.285	3.855	31.98	
			✓	IC15	3.91	3.132	4.929	25.58	
				IC20	4.842	3.965	6.073	20.65	
				IC25	5.695	4.746	6.034	17.56	
				IC40	6.555	6.238	6.86	15.26	
				IC50	7.189	6.902	7.464	13.91	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
06-7235-3078	Germination Rate	Control Resp	0.95	0.7	>>	Yes	Passes Criteria
	Germination Rate	Control Resp	0.934	0.7	>>	Yes	Passes Criteria
15-1198-8535	Germination Rate	Control Resp	0.942	0.7	>>	Yes	Passes Criteria
03-2491-0820	Mean Length	Control Resp	11.94	10	>>	Yes	Passes Criteria
20-6831-3505	Mean Length	Control Resp	12.34	10	>>	Yes	Passes Criteria
	Mean Length	Control Resp	11.54	10	>>	Yes	Passes Criteria

CETIS Summary Report

 Report Date: 29 Aug-19 11:20 (p 2 of 3)
 Test Code/ID: 191566 / 01-7607-0818

Macrocystis Germination and Germ Tube Growth Test

Nautilus Environmental

Germination Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	SC	5	0.9500	0.9237	0.9763	0.9300	0.9800	0.0095	0.0212	2.23%	0.00%
0	N	5	0.9340	0.8961	0.9719	0.9100	0.9800	0.0136	0.0305	3.27%	1.68%
1.41		5	0.9540	0.9398	0.9682	0.9400	0.9700	0.0051	0.0114	1.20%	-0.42%
2.81		5	0.9100	0.8837	0.9363	0.8800	0.9300	0.0095	0.0212	2.33%	4.21%
5.62		5	0.6940	0.6042	0.7838	0.6200	0.7900	0.0323	0.0723	10.42%	26.95%
11.25		5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		100.00%
22.5		5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		100.00%
45		5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		100.00%
90		5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		100.00%

Mean Length Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	SC	5	12.34	11.85	12.83	11.96	12.97	0.1762	0.394	3.19%	0.00%
0	N	5	11.54	10.77	12.31	10.77	12.28	0.2789	0.6236	5.40%	6.51%
1.41		5	12.47	11.72	13.21	11.72	13.21	0.2691	0.6018	4.83%	-0.99%
2.81		5	11.26	10.64	11.89	10.57	11.75	0.2246	0.5021	4.46%	8.75%
5.62		5	9.324	8.536	10.11	8.51	9.89	0.2839	0.6348	6.81%	24.47%
11.25		5	0	0	0	0	0	0	0		100.00%
22.5		5	0	0	0	0	0	0	0		100.00%
45		5	0	0	0	0	0	0	0		100.00%
90		5	0	0	0	0	0	0	0		100.00%

Germination Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	SC	0.9600	0.9300	0.9300	0.9800	0.9500
0	N	0.9200	0.9100	0.9500	0.9100	0.9800
1.41		0.9500	0.9400	0.9600	0.9700	0.9500
2.81		0.9300	0.9000	0.8800	0.9100	0.9300
5.62		0.6600	0.6500	0.6200	0.7900	0.7500
11.25		0.0000	0.0000	0.0000	0.0000	0.0000
22.5		0.0000	0.0000	0.0000	0.0000	0.0000
45		0.0000	0.0000	0.0000	0.0000	0.0000
90		0.0000	0.0000	0.0000	0.0000	0.0000

Mean Length Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	SC	12.97	11.96	12.37	12.06	12.36
0	N	11.47	11.14	10.77	12.28	12.04
1.41		12.83	12.02	13.21	11.72	12.55
2.81		11.44	10.57	11.75	11.64	10.92
5.62		8.51	9.89	9.74	9.71	8.77
11.25		0	0	0	0	0
22.5		0	0	0	0	0
45		0	0	0	0	0
90		0	0	0	0	0

SC = Boine Control
 N = Negative Control

CETIS Summary Report

Report Date: 29 Aug-19 11:20 (p 3 of 3)
Test Code/ID: 191566 / 01-7607-0818

Macrocystis Germination and Germ Tube Growth Test

Nautilus Environmental

Germination Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	SC	96/100	93/100	93/100	98/100	95/100
0	N	92/100	91/100	95/100	91/100	98/100
1.41		95/100	94/100	96/100	97/100	95/100
2.81		93/100	90/100	88/100	91/100	93/100
5.62		66/100	65/100	62/100	79/100	75/100
11.25		0/100	0/100	0/100	0/100	0/100
22.5		0/100	0/100	0/100	0/100	0/100
45		0/100	0/100	0/100	0/100	0/100
90		0/100	0/100	0/100	0/100	0/100

CETIS Analytical Report

Report Date: 23 Aug-19 11:57 (p 1 of 2)
Test Code/ID: 191566 / 01-7607-0818

Macrocystis Germination and Germ Tube Growth Test

Nautilus Environmental

Analysis ID: 06-7235-3078	Endpoint: Germination Rate	CETIS Version: CETISv1.9.4
Analyzed: 23 Aug-19 11:52	Analysis: Parametric-Two Sample	Status Level: 1
Batch ID: 08-5976-3285	Test Type: Growth-Germination	Analyst: Ditty Kakkassery
Start Date: 15 Aug-19 14:20	Protocol: EPA/600/R-95/136 (1995)	Diluent: Natural seawater
Ending Date: 17 Aug-19 14:20	Species: Macrocystis pyrifera	Brine: Frozen Seawater
Test Length: 48h	Taxon: Ochrophyta	Source: Kim Siewers Age:
Sample ID: 19-2051-6655	Code: 7278C22F	Project: Special Studies
Sample Date: 12 Aug-19 06:15	Material: Water Sample	Source: Aquatox
Receipt Date: 15 Aug-19 08:50	CAS (PC):	Station: Agnico Eagle Mines Limited
Sample Age: 80h (18.8 °C)	Client: aquatox	

Data Transform	Alt Hyp	Comparison Result	PMSD
Angular (Corrected)	C > T	Salt Control passed germination rate	3.88%

Equal Variance t Two-Sample Test

Control	vs	Control II	Test Stat	Critical	MSD	DF	P-Type	P-Value	Decision(α:5%)
Negative Control		Salt Control	-0.814	1.86	0.073	8	CDF	0.7804	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	0.95	0.7	>>	Yes	Passes Criteria
Control Resp	0.934	0.7	>>	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.0025363	0.0025363	1	0.6627	0.4392	Non-Significant Effect
Error	0.0306197	0.0038275	8			
Total	0.033156		9			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Variance Ratio F Test	1.774	23.15	0.5922	Equal Variances
Distribution	Shapiro-Wilk W Normality Test	0.8538	0.7411	0.0645	Normal Distribution

Germination Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	SC	5	0.9500	0.9237	0.9763	0.9500	0.9300	0.9800	0.0095	2.23%	0.00%
0	N	5	0.9340	0.8961	0.9719	0.9200	0.9100	0.9800	0.0136	3.27%	1.68%

Angular (Corrected) Transformed Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	SC	5	1.35	1.285	1.415	1.345	1.303	1.429	0.02349	3.89%	0.00%
0	N	5	1.318	1.231	1.405	1.284	1.266	1.429	0.03129	5.31%	2.36%

Germination Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	SC	0.9600	0.9300	0.9300	0.9800	0.9500
0	N	0.9200	0.9100	0.9500	0.9100	0.9800

Angular (Corrected) Transformed Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	SC	1.369	1.303	1.303	1.429	1.345
0	N	1.284	1.266	1.345	1.266	1.429

Germination Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	SC	96/100	93/100	93/100	98/100	95/100
0	N	92/100	91/100	95/100	91/100	98/100

CETIS Analytical Report

Report Date: 23 Aug-19 11:57 (p 2 of 2)
Test Code/ID: 191566 / 01-7607-0818

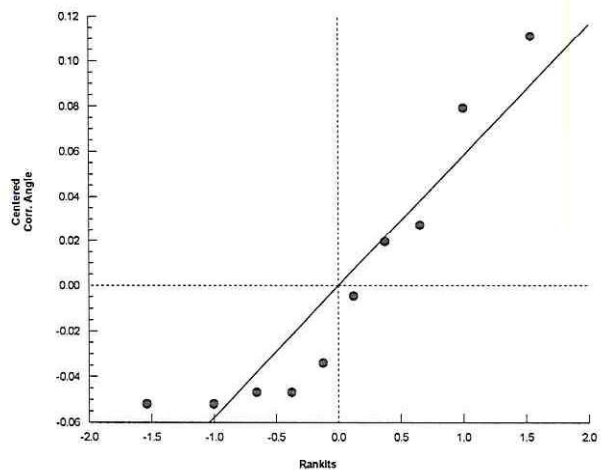
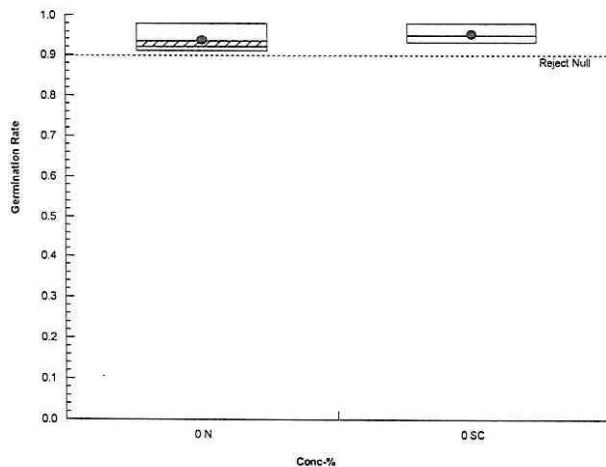
Macrocystis Germination and Germ Tube Growth Test

Nautilus Environmental

Analysis ID: 06-7235-3078 Endpoint: Germination Rate
Analyzed: 23 Aug-19 11:52 Analysis: Parametric-Two Sample

CETIS Version: CETISv1.9.4
Status Level: 1

Graphics



CETIS Analytical Report

Report Date: 23 Aug-19 11:57 (p 1 of 2)
Test Code/ID: 191566 / 01-7607-0818

Macrocystis Germination and Germ Tube Growth Test				Nautilus Environmental	
Analysis ID:	15-1198-8535	Endpoint:	Germination Rate	CETIS Version:	CETISv1.9.4
Analyzed:	23 Aug-19 11:54	Analysis:	Linear Interpolation (ICPIN)	Status Level:	1
Batch ID:	08-5976-3285	Test Type:	Growth-Germination	Analyst:	Ditty Kakkassery
Start Date:	15 Aug-19 14:20	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Natural seawater
Ending Date:	17 Aug-19 14:20	Species:	Macrocystis pyrifera	Brine:	Frozen Seawater
Test Length:	48h	Taxon:	Ochrophyta	Source:	Kim Siewers
Sample ID:	19-2051-6655	Code:	7278C22F	Project:	Special Studies
Sample Date:	12 Aug-19 06:15	Material:	Water Sample	Source:	Aquatox
Receipt Date:	15 Aug-19 08:50	CAS (PC):		Station:	Agnico Eagle Mines Limited
Sample Age:	80h (18.8 °C)	Client:	aquatox		

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	1009235	200	Yes	Two-Point Interpolation

Test Acceptability Criteria		TAC Limits			
Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	0.942	0.7	>>	Yes	Passes Criteria

Point Estimates						
Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC1	1.702	1.478	2.02	58.76	49.52	67.66
EC5	2.903	2.438	3.145	34.45	31.79	41.01
EC10	3.406	3.116	3.801	29.36	26.31	32.09
EC15	3.974	3.587	4.801	25.17	20.83	27.88
EC20	4.615	4.009	5.941	21.67	16.83	24.95
EC25	5.338	4.466	6.112	18.73	16.36	22.39
EC40	6.397	5.965	6.849	15.63	14.6	16.76
EC50	7.046	6.653	7.454	14.19	13.42	15.03

Germination Rate Summary			Calculated Variate(A/B)							Isotonic Variate	
Conc-%	Code	Count	Mean	Min	Max	Std Dev	CV%	%Effect	A/B	Mean	%Effect
* 0	@	10	0.9420	0.9100	0.9800	0.0262	2.78%	0.0%	942/1000	0.948	0.0%
1.41		5	0.9540	0.9400	0.9700	0.0114	1.20%	-1.27%	477/500	0.948	0.0%
2.81		5	0.9100	0.8800	0.9300	0.0212	2.33%	3.4%	455/500	0.91	4.01%
5.62		5	0.6940	0.6200	0.7900	0.0723	10.42%	26.33%	347/500	0.694	26.79%
11.25		5	0.0000	0.0000	0.0000	0.0000		100.0%	0/500	0	100.0%
22.5		5	0.0000	0.0000	0.0000	0.0000		100.0%	0/500	0	100.0%
45		5	0.0000	0.0000	0.0000	0.0000		100.0%	0/500	0	100.0%
90		5	0.0000	0.0000	0.0000	0.0000		100.0%	0/500	0	100.0%

Germination Rate Detail											
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	@	0.9600	0.9300	0.9300	0.9800	0.9500	0.9200	0.9100	0.9500	0.9100	0.9800
1.41		0.9500	0.9400	0.9600	0.9700	0.9500					
2.81		0.9300	0.9000	0.8800	0.9100	0.9300					
5.62		0.6600	0.6500	0.6200	0.7900	0.7500					
11.25		0.0000	0.0000	0.0000	0.0000	0.0000					
22.5		0.0000	0.0000	0.0000	0.0000	0.0000					
45		0.0000	0.0000	0.0000	0.0000	0.0000					
90		0.0000	0.0000	0.0000	0.0000	0.0000					

* pooled controls

CETIS Analytical Report

Report Date: 23 Aug-19 11:57 (p 2 of 2)
Test Code/ID: 191566 / 01-7607-0818

Macrocystis Germination and Germ Tube Growth Test

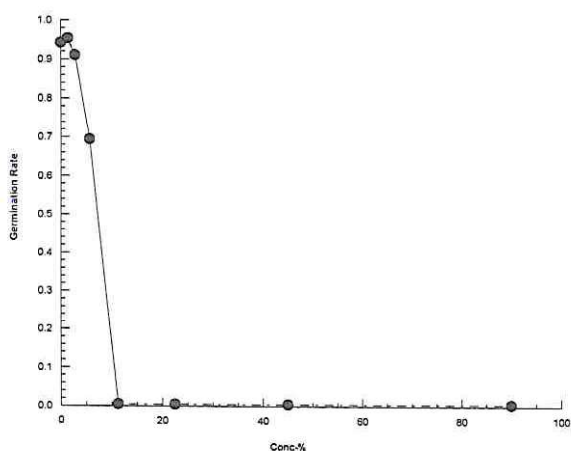
Nautilus Environmental

Analysis ID: 15-1198-8535 Endpoint: Germination Rate CETIS Version: CETISv1.9.4
Analyzed: 23 Aug-19 11:54 Analysis: Linear Interpolation (ICPIN) Status Level: 1

Germination Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
1.41		95/100	94/100	96/100	97/100	95/100
2.81		93/100	90/100	88/100	91/100	93/100
5.62		66/100	65/100	62/100	79/100	75/100
11.25		0/100	0/100	0/100	0/100	0/100
22.5		0/100	0/100	0/100	0/100	0/100
45		0/100	0/100	0/100	0/100	0/100
90		0/100	0/100	0/100	0/100	0/100

Graphics



CETIS Analytical Report

Report Date: 29 Aug-19 11:18 (p 1 of 2)
Test Code/ID: 191566 / 01-7607-0818

Macrocystis Germination and Germ Tube Growth Test Nautilus Environmental

Analysis ID: 20-6831-3505	Endpoint: Mean Length	CETIS Version: CETISv1.9.4
Analyzed: 29 Aug-19 11:17	Analysis: Parametric-Two Sample	Status Level: 1
Batch ID: 08-5976-3285	Test Type: Growth-Germination	Analyst: Ditty Kakkassery
Start Date: 15 Aug-19 14:20	Protocol: EPA/600/R-95/136 (1995)	Diluent: Natural seawater
Ending Date: 17 Aug-19 14:20	Species: Macrocystis pyrifera	Brine: Frozen Seawater
Test Length: 48h	Taxon: Ochrophyta	Source: Kim Siewers Age:
Sample ID: 19-2051-6655	Code: 7278C22F	Project: Special Studies
Sample Date: 12 Aug-19 06:15	Material: Water Sample	Source: Aquatox
Receipt Date: 15 Aug-19 08:50	CAS (PC):	Station: Agnico Eagle Mines Limited
Sample Age: 80h (18.8 °C)	Client: aquatox	

Data Transform	Alt Hyp	Comparison Result	PMSD
Untransformed	C > T	Salt Control passed mean length	5.32%

Equal Variance t Two-Sample Test

Control	vs	Control II	Test Stat	Critical	MSD	DF	P-Type	P-Value	Decision(α:5%)
Negative Control		Salt Control	-2.437	1.86	0.613	8	CDF	0.9796	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	12.34	10	>>	Yes	Passes Criteria
Control Resp	11.54	10	>>	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	1.61604	1.61604	1	5.94	0.0407	Significant Effect
Error	2.17632	0.27204	8			
Total	3.79236		9			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Variance Ratio F Test	2.505	23.15	0.3955	Equal Variances
Distribution	Shapiro-Wilk W Normality Test	0.946	0.7411	0.6211	Normal Distribution

Mean Length Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	SC	5	12.34	11.85	12.83	12.36	11.96	12.97	0.1762	3.19%	0.00%
0	N	5	11.54	10.77	12.31	11.47	10.77	12.28	0.2789	5.40%	6.51%

Mean Length Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	SC	12.97	11.96	12.37	12.06	12.36
0	N	11.47	11.14	10.77	12.28	12.04

CETIS Analytical Report

Report Date: 29 Aug-19 11:18 (p 2 of 2)
Test Code/ID: 191566 / 01-7607-0818

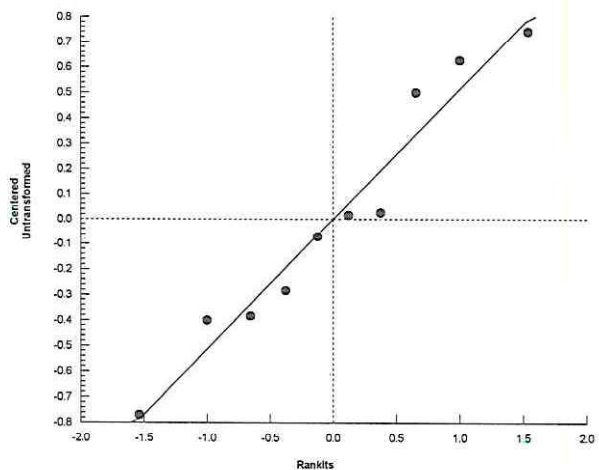
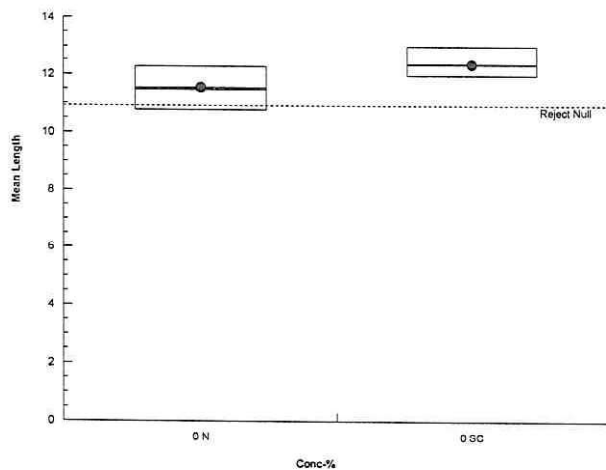
Macrocystis Germination and Germ Tube Growth Test

Nautilus Environmental

Analysis ID: 20-6831-3505 Endpoint: Mean Length
Analyzed: 29 Aug-19 11:17 Analysis: Parametric-Two Sample

CETIS Version: CETISv1.9.4
Status Level: 1

Graphics



CETIS Analytical Report

Report Date: 29 Aug-19 11:19 (p 1 of 2)
Test Code/ID: 191566 / 01-7607-0818

Macrocystis Germination and Germ Tube Growth Test				Nautilus Environmental	
Analysis ID:	03-2491-0820	Endpoint:	Mean Length	CETIS Version:	CETISv1.9.4
Analyzed:	29 Aug-19 11:18	Analysis:	Linear Interpolation (ICPIN)	Status Level:	1
Batch ID:	08-5976-3285	Test Type:	Growth-Germination	Analyst:	Ditty Kakkassery
Start Date:	15 Aug-19 14:20	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Natural seawater
Ending Date:	17 Aug-19 14:20	Species:	Macrocystis pyrifera	Brine:	Frozen Seawater
Test Length:	48h	Taxon:	Ochrophyta	Source:	Kim Siewers
Sample ID:	19-2051-6655	Code:	7278C22F	Project:	Special Studies
Sample Date:	12 Aug-19 06:15	Material:	Water Sample	Source:	Aquatox
Receipt Date:	15 Aug-19 08:50	CAS (PC):		Station:	Agnico Eagle Mines Limited
Sample Age:	80h (18.8 °C)	Client:	aquatox		

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	760203	200	Yes	Two-Point Interpolation

Test Acceptability Criteria		TAC Limits			
Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	11.94	10	>>	Yes	Passes Criteria

Point Estimates						
Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	2.244	1.765	3.264	44.55	30.64	56.65
IC10	3.127	2.285	3.855	31.98	25.94	43.76
IC15	3.91	3.132	4.929	25.58	20.29	31.93
IC20	4.842	3.965	6.073	20.65	16.47	25.22
IC25	5.695	4.746	6.034	17.56	16.57	21.07
IC40	6.555	6.238	6.86	15.26	14.58	16.03
IC50	7.189	6.902	7.464	13.91	13.4	14.49

Mean Length Summary			Calculated Variate							Isotonic Variate	
Conc-%	Code	Count	Mean	Min	Max	Std Dev	CV%	%Effect		Mean	%Effect
* 0	@	10	11.94	10.77	12.97	0.6491	5.44%	0.0%		12.2	0.0%
1.41		5	12.47	11.72	13.21	0.6018	4.83%	-4.39%		12.2	0.0%
2.81		5	11.26	10.57	11.75	0.5021	4.46%	5.68%		11.26	7.7%
5.62		5	9.324	8.51	9.89	0.6348	6.81%	21.92%		9.324	23.6%
11.25		5	0	0	0	0		100.0%		0	100.0%
22.5		5	0	0	0	0		100.0%		0	100.0%
45		5	0	0	0	0		100.0%		0	100.0%
90		5	0	0	0	0		100.0%		0	100.0%

Mean Length Detail											
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	@	12.97	11.96	12.37	12.06	12.36	11.47	11.14	10.77	12.28	12.04
1.41		12.83	12.02	13.21	11.72	12.55					
2.81		11.44	10.57	11.75	11.64	10.92					
5.62		8.51	9.89	9.74	9.71	8.77					
11.25		0	0	0	0	0					
22.5		0	0	0	0	0					
45		0	0	0	0	0					
90		0	0	0	0	0					

* pooled controls

CETIS Analytical Report

Report Date: 29 Aug-19 11:19 (p 2 of 2)
Test Code/ID: 191566 / 01-7607-0818

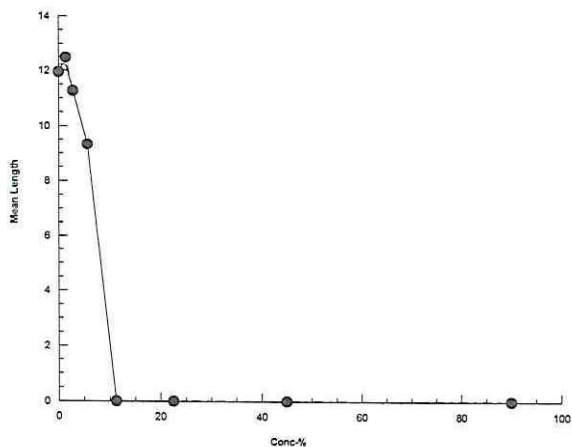
Macrocystis Germination and Germ Tube Growth Test

Nautilus Environmental

Analysis ID: 03-2491-0820 Endpoint: Mean Length
Analyzed: 29 Aug-19 11:18 Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.9.4
Status Level: 1

Graphics



APPENDIX B – Chain-of-Custody Form

③

(c)

Date_____ Page__ of__

Sample Collection By:							ANALYSES REQUIRED										Receipt Temperature (°C)		
		Report to: Agnico Eagle Mines Limited				Invoice to:													
Company																			
Address																			
City/Prov/Postal Code		Rankin Inlet, Nunavut, Canada X0C 0G0																	
Contact		Dan Gorton																	
Phone		819-759-3555 ext 3996																	
Email																			
SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	# OF CONTAINERS	COMMENTS													
MEL-26	8/12/2019	6:15	W_EFF	Bottle	21	Saline Water												18.8	
PROJECT INFORMATION		SAMPLE RECEIPT			RELIQUINSHED BY (CLIENT)			RELIQUINSHED BY (COURIER)											
Client: Agnico Eagle		Total # Containers: 1			Signature: Bethany Hodgins			Signature:											
P.O. No.:		Good Condition? 45			Print:			Print:											
Shipped Via: Purolator		Matches Schedule?			Company: Agnico Eagle			Company:											
					Time/Date: 2019-08-12 8:00 am			Time/Date:											
SPECIAL INSTRUCTIONS/COMMENTS:						RECEIVED BY (COURIER)						RECEIVED BY (LABORATORY)							
ADD ON CERTIFICATE GPS LOCATION 62°48'01.99" 92°06'00.05"						Signature:						Signature: [Signature]							
						Print:						Print: [Signature]							
						Company:						Company: [Signature]							
						Time/Date:						Time/Date: [Signature]							

Additional costs may be required for sample disposal or storage. Net 30 unless otherwise contracted.

CLIENT INFORMATION	TEST FACILITY INFORMATION
Aquatox/Agnico Eagle Mines - Meliadine Rankin Inlet, Nunavut, Canada Contact: Martina Rendas	Harris Industrial Testing Service Ltd. 1320 Ashdale Rd., South Rawdon Nova Scotia B0N 1Z0 Ph: 902 757-0232 Fax: 902 757-2839 office@harrisindustrial.info

SAMPLE INFORMATION (Client-provided data italicised)	GENERAL TEST INFORMATION
Lab Identification #: 19-441 Sample Name/Location: MEL-26 GPS 62°48'01.99" 92°06'00.05" Sampling Method: Grab Sample Homogenized: Yes Sampler Name: S. Arruda/R. Schwandt Date & Time Sampled: Sept. 02 2019 0600 Hrs Date & Time Received: Sept. 05 2019 1255 Hrs Sample Description: Clear, colourless liquid with chlorine-like odour.	Reference Method: EPS 1/RM/10 2 nd Ed. December 2017 Type: LC50 Tox 9B General Test Procedures held on file Test Organism: <i>Gasterosteus aculeatus</i> (Threespine stickleback)

PRE-TEST PARAMETERS	SAMPLE PRE-TREATMENT
Pre-test Temp. (°C): 16.0 Pre-test D.O. (mg/L): 7.3 D.O. Saturation (%): 92 Pre-test pH: 7.4 pH Adjusted: No Sample Salinity ¹ (‰): 18.8 Seawater Control Salinity ¹ (‰): 31.0 Salinity adjusted Control (‰): 19.0	Filtration of sample: No Adjustment of sample salinity: No Mandatory Pre-aeration: Yes Duration: 30 minutes Rate: 6.5 ± 1 ml/min/L Time: 1415 hrs D.O. (mg/L): 7.9 D.O. saturation (%): 90 Continued: No Duration: -- min. @ -- hrs D.O. (mg/L): -- Aeration continued throughout test by airstone @ 6.5 + 1 ml/min/L

TEST CONDITIONS		
Date & Time Test Initiated: Sept. 05 2019 1445 Hrs Date & Time Test Terminated: Sept. 09 2019 1445 Hrs		Deviations from Test Method: No Description: N/A
Fish Batch #: 61 % Mortality over 7 days prior to test: 0	Loading Density (g/L): 0.24 Mean Fork Length (mm): 32 ± 3.8 SD Range (mm): 28 - 39	Temperature: 15 ± 1°C Photoperiod: 16L/8D Lux: 100 – 500 Static Test, Duration: 96 hours Control/Dilution Water: Natural Seawater
Test Volume (L): 10 Depth (cm): 17.7 Replicates: No Number of fish per vessel: 10	Mean Wet Weight (g): 0.24 ± 0.09 SD Range (g): 0.15 – 0.40	

¹When salinity is >40‰, it is measured using refractometry method (Environment Canada, 2017). When salinity is <40‰, the salinity is measured using conductivity method (*ibid.*).

TEST PARAMETERS							
INITIAL (0 hrs)					FINAL (96 hrs)		
CONC. %	TEMP. °C	D.O. mg/L	pH	SALINITY ‰	TEMP. °C	D.O. mg/L (%)	pH
100	15.0	7.9	7.3	18.8	15.5	8.0	7.4
50	15.0	7.8	7.6	24.8	15.0	7.9	7.9
25	15.0	8.0	7.8	28.1	16.0	8.4	7.6
12.5	15.0	7.9	7.9	29.5	14.0	8.4	7.6
6.25	15.0	7.9	7.9	30.0	15.5	8.3	7.7
Control	15.0	7.8	7.9	31.0	15.5	8.2	7.7
Salinity Adj. Control	15.0	7.9	7.9	19.0	15.0	9.2	7.7

TEST RESULTS								
CONC. %	TOTAL MORTALITY #				PERCENT MORTALITY %			
	24 hrs	48 hrs	72 hrs	96 hrs	24 hrs	48 hrs	72 hrs	96 hrs
100	10/10	10/10	10/10	10/10	100	100	100	100
50	10/10	10/10	10/10	10/10	100	100	100	100
25	2/10	4/10	5/10	5/10	20	40	50	50
12.5	0/10	0/10	0/10	0/10	0	0	0	0
6.25	0/10	0/10	0/10	0/10	0	0	0	0
Control	0/10	0/10	0/10	0/10	0	0	0	0
Salinity Adj. Control	0/10	0/10	0/10	0/10	0	0	0	0
CONC. %	TOTAL STRESS #				PERCENT STRESS %			
	24 hrs	48 hrs	72 hrs	96 hrs	24 hrs	48 hrs	72 hrs	96 hrs
100	0/10	0/10	0/10	0/10	0	0	0	0
50	0/10	0/10	0/10	0/10	0	0	0	0
25	8/10	0/10	0/10	0/10	80	0	0	0
12.5	0/10	0/10	0/10	0/10	0	0	0	0
6.25	0/10	0/10	0/10	0/10	0	0	0	0
Control	0/10	0/10	0/10	0/10	0	0	0	0
Salinity Adj Control	0/10	0/10	0/10	0/10	0	0	0	0

96 HR LC₅₀ RESULTS

LC₅₀ Value (%): 25.0
Result: Fail
95% Confidence Limits (%): 20.1 – 31.1
Statistical Method: Untrimmed Spearman
 Karber - CETIS

REFERENCE TOXICANT DATA

Performed under laboratory conditions as above, no deviations

Batch: 61 Test Date: Sept. 06 – 10 2019*

Reference Substance: Phenol

LC₅₀ Value (mg/L): 17.7
 95% Confidence Limits (mg/L): 12.5 – 25.0
 Historical Mean (mg/L): 15.7
 Warning Limits $\pm$ 2 SD (mg/L): 12.1 – 20.4

COMMENTS

Test meets all conditions for test validity (preliminary). An additional Salinity-adjusted control was run at sample salinity. At termination, all fish stressed in 100 and 50% concentrations at 1 hr. 9 fish dead in 100% concentration at 2 hrs.

*Revision: Updated reference toxicant data added.

TEST AUTHORIZATION AND VERIFICATION

Analyst(s): G. Harris and A. Huybers

Verified by: C. Harris

Revision Date: Sept. 10 2019

Signed:

**REFERENCES**

Tidepool Scientific Software, 2001 - 2014. Comprehensive Environmental Toxicity Information System – CETIS v1.8.7.20

Environment Canada, 2017. Biological Test Method: Reference Method for Determining Acute Lethality Using Threespine Stickleback.

Environment and Climate Change Canada, Ottawa, Ontario, Report EPS 1/RM/10, 2nd Edition December 2017.

Accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA Inc.).

The test included in this report is within the scope of this accreditation.

Results apply to the sample as received. The results reported apply only to the sample tested. Results are based on nominal concentrations.

CLIENT INFORMATION	TEST FACILITY INFORMATION
Aquatox/Agnico Eagle Mines - Meliadine Rankin Inlet Nunavut, Canada Contact: Martina Rendas	Harris Industrial Testing Service Ltd. 1320 Ashdale Rd., South Rawdon Nova Scotia B0N 1Z0 Ph : 902 757-0232 Fax: 902 757-2839 office@harrisindustrial.info

SAMPLE INFORMATION (Client-provided data italicised)	GENERAL TEST INFORMATION
Lab Identification #: 19-449 Sample Name/Location: MEL-26 GPS 62°48'01.99" 92°06'00.05" Sampling Method: Grab Sample Homogenized: Yes Sampler Name: S. Arruda/D. Morin Date & Time Sampled: Sept. 09 2019 0600 Hrs Date & Time Received: Sept. 12 2019 1310 Hrs Sample Description: Clear, colourless liquid with a faint chlorine-like odour.	Reference Method: EPS 1/RM/10 July 1990 2 nd Ed. December 2017 Type: LC50 Tox 9B General Test Procedures held on file Test Organism: <i>Gasterosteus aculeatus</i> (Threespine stickleback)

PRE-TEST PARAMETERS	SAMPLE PRE-TREATMENT
Pre-test Temp. (°C): 16.0 Pre-test D.O. (mg/L): 8.6 D.O. Saturation (%): 97 Pre-test pH: 6.7 pH Adjusted: No Sample Salinity ¹ (‰): 13.9 Seawater Control Salinity ¹ (‰): 30.4 Salinity adjusted Control (‰): 14.4	Filtration of sample: No Adjustment of sample salinity: No Mandatory Pre-aeration: Yes Duration: 30 minutes Rate: 6.5 ± 1 ml/min/L Time: 1430 hrs D.O. (mg/L): 9.0 D.O. saturation (%): 98 Pre-aeration Continued: No Duration: -- min. @ -- hrs D.O. (mg/L): -- D.O. saturation (%): -- Aeration continued throughout test by airstone @ 6.5 ± 1 ml/min/L

TEST CONDITIONS		
Date & Time Test Initiated: Sept. 12 2019 1500 Hrs Date & Time Test Terminated: Sept. 16 2019 1500 Hrs		Deviations from Test Method: No Description: N/A
Fish Batch #: 61 % Mortality over 7 days prior to test: 0	Loading Density (g/L): 0.50 Mean Fork Length (mm): 34 ± 5.0 SD Range (mm): 26 - 44	Temperature: 15 ± 1°C Photoperiod: 16L/8D Lux: 100 – 500
Test Volume (L): 10 Depth (cm): 17.7 Replicates: No Number of fish per vessel: 10	Mean Wet Weight (g): 0.50 ± 0.28 SD Range (g): 0.19 – 1.09	Static Test, Duration: 96 hours Control/Dilution Water: Natural Seawater

¹When salinity is >40‰, it is measured using refractometry method (Environment Canada, 2017). When salinity is <40‰, the salinity is measured using conductivity method (*ibid.*).

TEST PARAMETERS							
INITIAL (0 hrs)					FINAL (96 hrs)		
CONC. %	TEMP. °C	D.O. mg/L	pH	SALINITY ‰	TEMP. °C	D.O. mg/L	pH
100	16.0	9.0	6.9	13.8	16.0	9.0	6.9
50	16.0	8.5	7.3	21.7	15.0	8.2	7.6
25	16.0	8.1	7.5	26.0	15.0	8.2	7.6
12.5	16.0	8.3	7.6	28.2	15.5	8.6	7.6
6.25	16.0	8.1	7.6	29.5	15.0	8.2	7.6
Control	16.0	8.1	7.6	30.4	15.0	8.1	7.7
Sal. Adj. Control	16.0	8.8	7.6	14.4	15.0	9.3	7.7

TEST RESULTS								
TOTAL MORTALITY					PERCENT MORTALITY			
CONC. %	#				%			
	24 hrs	48 hrs	72 hrs	96 hrs	24 hrs	48 hrs	72 hrs	96 hrs
100	10/10	10/10	10/10	10/10	100	100	100	100
50	10/10	10/10	10/10	10/10	100	100	100	100
25	10/10	10/10	10/10	10/10	100	100	100	100
12.5	1/10	1/10	1/10	1/10	10	10	10	10
6.25	0/10	0/10	0/10	0/10	0	0	0	0
Control	0/10	0/10	0/10	0/10	0	0	0	0
Sal. Adj. Control	0/10	0/10	0/10	0/10	0	0	0	0

TOTAL STRESS					PERCENT STRESS			
CONC. %	#				%			
	24 hrs	48 hrs	72 hrs	96 hrs	24 hrs	48 hrs	72 hrs	96 hrs
100	0/10	0/10	0/10	0/10	0	0	0	0
50	0/10	0/10	0/10	0/10	0	0	0	0
25	0/10	0/10	0/10	0/10	0	0	0	0
12.5	0/10	0/10	0/10	0/10	0	0	0	0
6.25	0/10	0/10	0/10	0/10	0	0	0	0
Control	0/10	0/10	0/10	0/10	0	0	0	0
Sal. Adj. Control	0/10	0/10	0/10	0/10	0	0	0	0

96 HR LC₅₀ RESULTS

LC₅₀ Value (%): 16.5
Result: Fail
95% Confidence Limits (%): 14.5 – 18.8
Statistical Method: Untrimmed Spearman
 Karber - CETIS

REFERENCE TOXICANT DATA

Performed under laboratory conditions as above, no deviations

Batch: 61 Test Date: Sept. 06 – 10 2019

Reference Substance: Phenol

LC₅₀ Value (mg/L): 17.7
 95% Confidence Limits (mg/L): 12.5 – 25.0
 Historical Mean (mg/L): 15.7
 Warning Limits $\pm$ 2 SD (mg/L): 12.1 – 20.4

COMMENTS

Test meets all conditions for test validity. An additional Salinity-adjusted control was run at sample salinity.
1 hr. after test initiation: 100% conc. – 100% mortality; 50% conc. – 100% stressed; 25% conc. – 10% stressed. 17 hrs. after test initiation: 50% conc. – 100% mortality; 25% conc. – 100% mortality; 12.5% conc. – 10% mortality.

TEST AUTHORIZATION AND VERIFICATION

Analyst(s): K. Marks and A. Huybers

Verified by: C. Harris

Date: Sept. 16 2019

Signed:



REFERENCES

Tidepool Scientific Software, 2001 - 2014. Comprehensive Environmental Toxicity Information System – CETIS v1.8.7.20
Environment Canada, 2017. Biological Test Method: Reference Method for Determining Acute Lethality Using Threespine Stickleback.
Environment and Climate Change Canada, Ottawa, Ontario, Report EPS 1/RM/10, 2nd Edition December 2017.

Accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA Inc.).

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Results apply to the sample as received. The results reported apply only to the sample tested. Results are based on nominal concentrations.

CLIENT INFORMATION	TEST FACILITY INFORMATION
Aquatox/Agnico Eagle Mines - Meliadine Rankin Inlet, Nunavut, Canada Contact: Martina Rendas	Harris Industrial Testing Service Ltd. 1320 Ashdale Rd., South Rawdon Nova Scotia B0N 1Z0 Ph : 902 757-0232 Fax: 902 757-2839 office@harrisindustrial.info

SAMPLE INFORMATION (Client-provided data italicised)	GENERAL TEST INFORMATION
Lab Identification #: 19-507 Sample Name/Location: MEL-26 GPS 62°48'01.99" 92°06'00.05" Sampling Method: Grab Sample Homogenized: Yes Sampler Name: R. Schwandt Date & Time Sampled: Oct. 01 2019 0700 Hrs Date & Time Received: Oct. 04 2019 1130 Hrs Sample Description: Clear, colourless liquid.	Reference Method: EPS 1/RM/10 July 1990 2 nd Ed. December 2017 Type: LC50 Tox 9B General Test Procedures held on file Test Organism: <i>Gasterosteus aculeatus</i> (Threespine stickleback)

PRE-TEST PARAMETERS	SAMPLE PRE-TREATMENT
Pre-test Temp. (°C): 14.5 Pre-test D.O. (mg/L): 9.4 D.O. Saturation (%): 102 Pre-test pH: 6.2 pH Adjusted: No Sample Salinity ¹ (‰): 15.7 Seawater Control Salinity ¹ (‰): 29.8 Salinity adjusted Control (‰): 16.0	Filtration of sample: No Adjustment of sample salinity: No Mandatory Pre-aeration: Yes Duration: 30 minutes Rate: 6.5 ± 1 ml/min/L Time: 1145 hrs D.O. (mg/L): 9.2 D.O. saturation (%): 100 Pre-aeration Continued: No Duration: -- min. @ -- hrs D.O. (mg/L): -- D.O. saturation (%): -- Aeration continued throughout test by airstone @ 6.5 + 1 ml/min/L

TEST CONDITIONS		
Date & Time Test Initiated: Oct. 05 2019 1215 Hrs Date & Time Test Terminated: Oct. 09 2019 1215 Hrs		Deviations from Test Method: No Description: N/A
Fish Batch #: 61 % Mortality over 7 days prior to test: 1.0	Loading Density (g/L): 0.42 Mean Fork Length (mm): 40 ± 2.5 SD Range (mm): 37 - 44	Temperature: 15 ± 1°C Photoperiod: 16L/8D Lux: 100 – 500
Test Volume (L): 10 Depth (cm): 17.7 Replicates: No Number of fish per vessel: 10	Mean Wet Weight (g): 0.42 ± 0.09 SD Range (g): 0.33 – 0.60	Static Test, Duration: 96 hours Control/Dilution Water: Natural Seawater

¹When salinity is >40‰, it is measured using refractometry method (Environment Canada, 2017). When salinity is <40‰, the salinity is measured using conductivity method (*ibid.*).

TEST PARAMETERS							
INITIAL (0 hrs)					FINAL (96 hrs)		
CONC. %	TEMP. °C	D.O. mg/L	pH	SALINITY ‰	TEMP. °C	D.O. mg/L	pH
100	14.5	9.2	6.3	15.7	16.0	9.0	6.9
50	15.5	8.4	7.1	22.7	16.0	8.3	7.3
25	15.0	8.4	7.4	26.3	16.0	8.0	7.4
12.5	15.5	8.3	7.6	28.0	16.0	8.1	7.6
6.25	15.0	8.2	7.7	28.9	16.0	8.0	7.7
Control	15.5	8.0	7.7	29.8	16.0	8.1	7.7
Sal. Adj. Control	15.0	9.1	7.7	16.0	16.0	8.8	7.6

TEST RESULTS								
TOTAL MORTALITY					PERCENT MORTALITY			
CONC. %	#				%			
	24 hrs	48 hrs	72 hrs	96 hrs	24 hrs	48 hrs	72 hrs	96 hrs
100	0/10	0/10	0/10	0/10	0	0	0	0
50	0/10	0/10	0/10	0/10	0	0	0	0
25	0/10	0/10	0/10	0/10	0	0	0	0
12.5	0/10	0/10	0/10	0/10	0	0	0	0
6.25	0/10	0/10	0/10	0/10	0	0	0	0
Control	0/10	0/10	0/10	0/10	0	0	0	0
Sal. Adj. Control	0/10	0/10	0/10	0/10	0	0	0	0

TOTAL STRESS					PERCENT STRESS			
CONC. %	#				%			
	24 hrs	48 hrs	72 hrs	96 hrs	24 hrs	48 hrs	72 hrs	96 hrs
100	0/10	0/10	0/10	0/10	0	0	0	0
50	0/10	0/10	0/10	0/10	0	0	0	0
25	0/10	0/10	0/10	0/10	0	0	0	0
12.5	0/10	0/10	0/10	0/10	0	0	0	0
6.25	0/10	0/10	0/10	0/10	0	0	0	0
Control	0/10	0/10	0/10	0/10	0	0	0	0
Sal. Adj. Control	0/10	0/10	0/10	0/10	0	0	0	0

96 HR LC₅₀ RESULTS

LC₅₀ Value (%): Non-lethal
Result: Pass
95% Confidence Limits (%): N/A
Statistical Method: N/A

REFERENCE TOXICANT DATA

Performed under laboratory conditions as above, no deviations

Batch: 61 Test Date: Sept. 27 – Oct. 01 2019

Reference Substance: Phenol

LC₅₀ Value (mg/L): 14.3
 95% Confidence Limits (mg/L): 11.4 – 18.0
 Historical Mean (mg/L): 15.6
 Warning Limits $\pm$ 2 SD (mg/L): 12.0 – 20.1

COMMENTS

Test meets all conditions for test validity. Adjusted control run.

TEST AUTHORIZATION AND VERIFICATION

Analyst(s): K. Marks and A. Huybers

Verified by: C. Harris

Date: Oct. 09 2019

Signed:



REFERENCES

Tidepool Scientific Software, 2001 - 2014. Comprehensive Environmental Toxicity Information System – CETIS v1.8.7.20
Environment Canada, 2017. Biological Test Method: Reference Method for Determining Acute Lethality Using Threespine Stickleback.
Environment and Climate Change Canada, Ottawa, Ontario, Report EPS 1/RM/10, 2nd Edition December 2017.

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