



Your P.O. #: 997577  
Your C.O.C. #: 408483

**Attention: Reporting**

Agnico Eagle  
Meadowbank  
Meadowbank  
Keewatin, NU  
CANADA POX 0A1

**Report Date: 2021/09/24**  
Report #: R6826045  
Version: 2 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C1R2487**

**Received: 2021/09/21, 08:00**

Sample Matrix: Water  
# Samples Received: 2

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2021/09/21	CAM SOP-00315	CCME PHC-CWS m
Glycols in Water by GC/FID	2	N/A	2021/09/22	CAM SOP-00322	based on EPA 8015
Elements by CRC ICPMS (total) (1)	2	2021/09/23	2021/09/24	BBY7SOP-00003/ BBY7SOEPA 6020B R2 m -00002	
Total Ammonia-N	2	N/A	2021/09/22	CAM SOP-00441	USGS I-2522-90 m
Total Oil and Grease	2	2021/09/22	2021/09/22	CAM SOP-00326	EPA1664B m, SM5520B m
Low Level Total Suspended Solids	2	2021/09/21	2021/09/22	CAM SOP-00428	SM 23 2540D m

**Remarks:**

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

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

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

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

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

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

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

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

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



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**Encryption Key**

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

Katherine Szozda, Project Manager

Email: Katherine.Szozda@bureauveritas.com

Phone# (613)274-0573 Ext:7063633

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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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### RESULTS OF ANALYSES OF WATER

BV Labs ID		QSF110			QSF110			QSF111		
Sampling Date		2021/09/15 15:30			2021/09/15 15:30			2021/09/15 15:40		
COC Number		408483			408483			408483		
	UNITS	ST-KM103.5	RDL	QC Batch	ST-KM103.5 Lab-Dup	RDL	QC Batch	ST-KM103.3	RDL	QC Batch
<b>Inorganics</b>										
Total Ammonia-N	mg/L	0.29	0.050	7592339	0.28	0.050	7592339	0.19	0.050	7592339
Total Suspended Solids	mg/L	1	1	7590408				12	1	7590408
<b>Metals</b>										
Total Arsenic (As)	mg/L	0.00040	0.00010	7599240				0.00192	0.00010	7599240
Total Copper (Cu)	mg/L	0.00134	0.00050	7599240				0.00209	0.00050	7599240
Total Lead (Pb)	mg/L	<0.00020	0.00020	7599240				<0.00020	0.00020	7599240
Total Nickel (Ni)	mg/L	0.0034	0.0010	7599240				0.0072	0.0010	7599240
Total Zinc (Zn)	mg/L	<0.0050	0.0050	7599240				<0.0050	0.0050	7599240
<b>Petroleum Hydrocarbons</b>										
Total Oil & Grease	mg/L	<0.50	0.50	7592331				<0.50	0.50	7592331
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



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### GLYCOLS BY GC-FID (WATER)

<b>BV Labs ID</b>		QSF110		QSF111		
<b>Sampling Date</b>		2021/09/15 15:30		2021/09/15 15:40		
<b>COC Number</b>		408483		408483		
	<b>UNITS</b>	<b>ST-KM103.5</b>	<b>RDL</b>	<b>ST-KM103.3</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Glycols</b>						
Propylene Glycol	mg/L	<5	5	<10	10	7591916
Ethylene Glycol	mg/L	<5	5	891	10	7591916
Diethylene Glycol	mg/L	<5	5	<10	10	7591916
Total Glycol	mg/L	<5	5	891	10	7591916
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



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### PETROLEUM HYDROCARBONS (CCME)

BV Labs ID		QSF110	QSF110	QSF111		
Sampling Date		2021/09/15 15:30	2021/09/15 15:30	2021/09/15 15:40		
COC Number		408483	408483	408483		
	UNITS	ST-KM103.5	ST-KM103.5 Lab-Dup	ST-KM103.3	RDL	QC Batch
<b>BTEX &amp; F1 Hydrocarbons</b>						
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	7592037
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	7592037
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	7592037
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	7592037
p+m-Xylene	ug/L	<0.40	<0.40	<0.40	0.40	7592037
Total Xylenes	ug/L	<0.40	<0.40	<0.40	0.40	7592037
<b>Surrogate Recovery (%)</b>						
1,4-Difluorobenzene	%	102	102	101		7592037
4-Bromofluorobenzene	%	91	89	90		7592037
D10-o-Xylene	%	89	85	82		7592037
D4-1,2-Dichloroethane	%	96	97	98		7592037
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate						



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## TEST SUMMARY

**BV Labs ID:** QSF110  
**Sample ID:** ST-KM103.5  
**Matrix:** Water

**Collected:** 2021/09/15  
**Shipped:**  
**Received:** 2021/09/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7592037	N/A	2021/09/21	Abdikarim Ali
Glycols in Water by GC/FID	GC/FID	7591916	N/A	2021/09/22	Domnica Andronesco
Elements by CRC ICPMS (total)	ICP/MS	7599240	2021/09/23	2021/09/24	Andrew An
Total Ammonia-N	LACH/NH4	7592339	N/A	2021/09/22	Viorica Rotaru
Total Oil and Grease	BAL	7592331	2021/09/22	2021/09/22	Mitul Patel
Low Level Total Suspended Solids	BAL	7590408	2021/09/21	2021/09/22	Shaneil Hall

**BV Labs ID:** QSF110 Dup  
**Sample ID:** ST-KM103.5  
**Matrix:** Water

**Collected:** 2021/09/15  
**Shipped:**  
**Received:** 2021/09/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7592037	N/A	2021/09/21	Abdikarim Ali
Total Ammonia-N	LACH/NH4	7592339	N/A	2021/09/22	Viorica Rotaru

**BV Labs ID:** QSF111  
**Sample ID:** ST-KM103.3  
**Matrix:** Water

**Collected:** 2021/09/15  
**Shipped:**  
**Received:** 2021/09/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7592037	N/A	2021/09/21	Abdikarim Ali
Glycols in Water by GC/FID	GC/FID	7591916	N/A	2021/09/22	Domnica Andronesco
Elements by CRC ICPMS (total)	ICP/MS	7599240	2021/09/23	2021/09/24	Andrew An
Total Ammonia-N	LACH/NH4	7592339	N/A	2021/09/22	Viorica Rotaru
Total Oil and Grease	BAL	7592331	2021/09/22	2021/09/22	Mitul Patel
Low Level Total Suspended Solids	BAL	7590408	2021/09/21	2021/09/22	Shaneil Hall



### GENERAL COMMENTS

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

Package 1	9.3°C
Package 2	1.7°C
Package 3	1.3°C

Sample QSF111 [ST-KM103.3] : GLYCOLS Analysis : Due to high concentration of target analytes, sample required dilution. Reporting limits were adjusted accordingly.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7592037	1,4-Difluorobenzene	2021/09/21	95	70 - 130	96	70 - 130	100	%				
7592037	4-Bromofluorobenzene	2021/09/21	97	70 - 130	95	70 - 130	82	%				
7592037	D10-o-Xylene	2021/09/21	82	70 - 130	80	70 - 130	85	%				
7592037	D4-1,2-Dichloroethane	2021/09/21	97	70 - 130	94	70 - 130	100	%				
7590408	Total Suspended Solids	2021/09/22					<1	mg/L	0	25	100	85 - 115
7591916	Diethylene Glycol	2021/09/22	99	60 - 140	91	60 - 140	<5	mg/L	NC	40		
7591916	Ethylene Glycol	2021/09/22	103	60 - 140	97	60 - 140	<5	mg/L	NC	40		
7591916	Propylene Glycol	2021/09/22	105	60 - 140	104	60 - 140	<5	mg/L	NC	40		
7591916	Total Glycol	2021/09/22					<5	mg/L	NC	40		
7592037	Benzene	2021/09/21	91	50 - 140	89	50 - 140	<0.20	ug/L	NC	30		
7592037	Ethylbenzene	2021/09/21	95	50 - 140	93	50 - 140	<0.20	ug/L	NC	30		
7592037	o-Xylene	2021/09/21	94	50 - 140	93	50 - 140	<0.20	ug/L	NC	30		
7592037	p+m-Xylene	2021/09/21	98	50 - 140	97	50 - 140	<0.40	ug/L	NC	30		
7592037	Toluene	2021/09/21	89	50 - 140	89	50 - 140	<0.20	ug/L	NC	30		
7592037	Total Xylenes	2021/09/21					<0.40	ug/L	NC	30		
7592331	Total Oil & Grease	2021/09/22			98	85 - 115	<0.50	mg/L	0.76	25		
7592339	Total Ammonia-N	2021/09/22	99	75 - 125	97	80 - 120	<0.050	mg/L	3.7	20		
7599240	Total Arsenic (As)	2021/09/24	98	80 - 120	98	80 - 120	<0.00010	mg/L	7.2	20		
7599240	Total Copper (Cu)	2021/09/24	95	80 - 120	97	80 - 120	<0.00050	mg/L	NC	20		
7599240	Total Lead (Pb)	2021/09/24	103	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20		
7599240	Total Nickel (Ni)	2021/09/24	98	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7599240	Total Zinc (Zn)	2021/09/24	99	80 - 120	99	80 - 120	<0.0050	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.

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 (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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### VALIDATION SIGNATURE PAGE

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

David Huang, BBY Scientific Specialist

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

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**Exceedance Summary Table – Metal Mining Effluent Reg**  
**Result Exceedances**

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