

APPENDIX 15 2024 REPORTABLE SPILLS



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 01-02-2024	REPORT TIME 16:45	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 01-02-2024	OCCURRENCE TIME 8:30			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Mine		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED KCG	CONTRACTOR ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 150 Liters	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Crusher water transfer station	SPILL CAUSE Overflow water in sewage tank	AREA OF CONTAMINATION IN SQUARE METRES 8		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Approximately 150 L of sewage spilled onto the industrial pad at the Crusher due to an overflow of a sewage tank. The spill was contained to the local area. Clean-up activities were immediately undertaken. The coordinates of the spill are 63° 2' 5.21" N, 92° 13' 27.56" W. No water bodies were impacted by this spill. The nearest natural water body (Lake B7) is 720 m southwest. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Alexandre L. Bourassa, Environment Coordinator, 819-759-3555 ext. 4603996, alexandre.langlais-bourassa@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Alex L. Bourassa	POSITION Environment Coord.	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Randy Schwandt	POSITION Environment Coord.	EMPLOYER AEM	ALTERNATE CONTACT Meliadine	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

January 20, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC 0G0

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-001 – Release of 150 L of Sewage at the Meliadine Gold Mine

On January 2nd, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 150 L of sewage at the Meliadine Gold Mine site (spill location coordinates: 63° 2' 5.21" N, 92° 13' 27.56" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

Description of Incident

On January 2nd, 2024, at approximately 08:30, an estimated 150 L of sewage was spilled onto the ground by the crusher water transfer outlets. A Kivalliq Contractors Group (KCG) employee filled the crusher lavatory's freshwater tank using a water truck. While the KCG employee was refilling the water tank using the water tank inlet, sewage started to come out of the sewage tank outlet and spilled onto the industrial pad.

No natural water bodies were impacted, since the closest water body (Lake B7) is approximately 720 m southeast, as seen in Figure 1.



Figure 1: Location of the sewage spill and proximity to water bodies.

Response and Remediation

In response, the employee immediately stopped the water truck pump to prevent further spillage. The employee reported the event to their supervisor, who then reported to the spill to the Environment department. The Environment department responded to the spill to advise on spill response and remediation. Subsequently, the Energy & Infrastructure (E&I) personnel excavated the area to recover the sewage impacted material and transported the material to Landfarm A as per the Spill Contingency Plan.

Root Cause and Corrective Measures

An incident assessment was conducted soon after the incident occurred to determine the root cause and contributing factors. The assessment concluded with the following:

- Inadequate design and engineering of the crusher water transfer piping and water transfer outlets:
 - When the volume of water exceeds the capacity of the fresh water tank, water overflows on the vent of the sewage tank, eventually leading to a leak from the sewage tank outlet.
 - There is no high-level alarm for either holding tank.
 - There is no secondary containment for these water transfer outlets.
- The truck used for this task was under maintenance, and a truck with a more powerful water pump filled the tank quicker than usual.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- The piping configuration will be modified to prevent excess water from falling into the sewage tank vent.
 - Secondary containment and PVC piping elbows will be installed on each outlet to prevent spills and increase holding capacity.
- A high-level alert system will be installed on this system.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix – Photos



Photos 1: Sewage spill location.



Photo 2: Spill location post remediation.



Canada

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TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 01-07-2024	REPORT TIME 8:35	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 01-07-2024	OCCURRENCE TIME 6:30			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Mine		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED	CONTRACTOR ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 100 Liters	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Wing 12 lift station	SPILL CAUSE Pump failure- clogged	AREA OF CONTAMINATION IN SQUARE METRES 6		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Approximately 100 L of sewage spilled onto the industrial pad at the Wing 12 lift station due to a pump failure. The spill was contained to the local area. Clean-up activities were immediately undertaken. The coordinates of the spill are 63° 2'22.53" N 92°13'52.34" W. No water bodies were impacted by this spill. The nearest natural water body (Lake G2) is 205 m North. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Randy Schwandt, Environment Coordinator, 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Randy Schwandt	POSITION Environment Coord.	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION Environment Coord.	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

January 20th, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC 0G0

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-004 – Release of 100 L of Sewage at the Meliadine Gold Mine

On January 7th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 100 L of sewage at the Meliadine Gold Mine site (spill location coordinates: 63° 2' 22.5"N, 92° 13' 52.5"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

Description of Incident

On January 7th, 2024, at approximately 06:30, an estimated 100 L of sewage was spilled onto the industrial pad at the Wing 12 lift station. A paper towel was flushed down a toilet in Wing 12, causing the primary sewage transfer pump to fail and the holding tank to overflow, resulting in the spill. Additionally, the secondary sewage transfer pump failed to initiate due to an electrical issue.

No water bodies were impacted by the spill. The closest water body (Lake G2) is approximately 200 m north, as seen in Figure 1.



Figure 1: Location of the sewage spill and proximity to water bodies.

Response and Remediation

An Energy and Infrastructure maintenance employee arrived at the scene and manually initiated the secondary transfer pump to stop the spill. Subsequently, the paper towel discovered to have disabled the primary transfer pump was removed, and the pump was reinstated.

A vacuum truck was dispatched to pump out the sewage that accumulated in the lift station secondary containment. The spilled material was excavated with a backhoe, and the recovered material was transferred to Landfarm A as per the Spill Contingency Plan.



An electrician assessed the wing 12 lift station secondary sewage transfer pump and determined that the control box for the pumps and floats was faulty and needed to be replaced.

An incident assessment was conducted soon after the incident occurred to determine the root cause and contributing factors. The assessment concluded with the following:




- Paper towel was flushed down a toilet in Wing 12, resulting in the sewage transfer pump failure.
- The secondary sewage transfer pump failed to initiate due to an electrical issue with the control box for the pumps and floats.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- Additional signs indicating that certain items cannot be flushed down the toilets were posted in the wings.
- The control box for the Wing 12 secondary sewage transfer pump was replaced.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix – Photos



Photo 1: Sewage spill location.



Photo 2: Spill location post remediation.



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TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 01-11-2024	REPORT TIME 8:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 01-10-2024	OCCURRENCE TIME 15:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2BB-MEL-1424			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Mine	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN			
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21	LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41			
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 1m3	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Exploration camp lift station	SPILL CAUSE Overflow at lift station	AREA OF CONTAMINATION IN SQUARE METRES Unknown		
J	FACTORS AFFECTING SPILL OR RECOVERY Infrastructure	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Approximately 1m3 of sewage spilled from the Exploration Camp sewage lift station tank. The spill was contained to the local area. Clean-up activities are ongoing. The coordinates of the spill are 63° 1' 44.39" N, 92° 10' 11.01" W. No water bodies were impacted by this spill. The nearest natural water body (Meliadine Lake) is 100 m southeast. Pursuant to Part H, Item 4c of water license 2BB-MEL-1424, a follow-up report will be issued after the investigation is completed. Reported by Spencer Knowles Environment Technician, 819-759-3555 x4603903 spencer.knowles@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Spencer Knowles	POSITION Env. Technician	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Sara Savoie	POSITION Env. Superintendent	EMPLOYER AEM	ALTERNATE CONTACT LOCATION Meliadine	ALTERNATE TELEPHONE 819-856-9349
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

February 8th, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
X0C 0G0

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-010 – Release of 1m³ of Sewage at the Meliadine Gold Mine

On January 11th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 1m³ of sewage at the Meliadine Gold Mine site (spill location coordinates: 63° 1' 44.39" N, 92° 10' 11.01" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2BB-MEL-1424 Water License, part H, item 4c.

Description of Incident

On January 10th, 2024, at approximately 15:00, an estimated 1m³ of sewage was spilled onto the ground at a lift station between the exploration camp sewage holding tank and an accommodation wing. The spill was discovered when a sewage truck operator found the exploration camp sewage holding tank was empty. The employee notified their supervisor, who subsequently inspected the sewage system. During the inspection it was found that the lift station between the camp sewage holding tank and the accommodation wing was not activated during the temporary reopening of the exploration camp. As a result, this lift station did not convey sewage to the final holding tank and overflowed, resulting in an estimated 1m³ sewage spill.

No water bodies were impacted by this spill. The closest water body (Meliadine Lake) is approximately 110 m southeast, as seen in Figure 1.



Figure 1: Location of the sewage spill and proximity to water bodies.

Response and Remediation

The Energy and Infrastructure (E&I) Maintenance supervisor immediately turned on the lift station to stop the overflow and prevent further spillage. The employee requested equipment for snow removal to gain access to the spill location. Upon inspection and review of infrastructure drawings it was determined that the spilled material had accumulated and frozen underneath the lift station infrastructure, leaving the spilled sewage inaccessible.

The impacted area will continue to be monitored, and a berm or interceptor ditch will be installed to prevent migration from the area during spring melt. The intercepted runoff will be sampled, and the test results will be compared to the effluent quality limits listed in Water License 2BB-MEL1424 Part D: Item 11. If the water quality exceeds these criteria, it will be recovered with a

vacuum truck and transported to the mine site for treatment at the sewage treatment plant. Runoff management from the area will continue until the parameters are below the effluent quality criteria. The soil beneath the infrastructure will be remediated upon reclamation of the exploration camp.

Root Cause and Corrective Measures

An incident assessment was conducted soon after the incident occurred to determine the root cause and contributing factors. The assessment concluded with the following:






- Personnel involved in the sewage system start-up lacked specific knowledge related to the infrastructure.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- A sewage system start-up procedure and inspection checklist will be developed before the next expected occupancy.
- Completion of a systematic inspection and testing of the system before start-up to confirm that all the components of the system are functioning as per design.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator
randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix – Photos



Photos 1 and 2: Sewage spill location.



Canada

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OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

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FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 01-11-2024	REPORT TIME 11:30	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 01-10-2024	OCCURRENCE TIME 19:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Mine		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 50 Liters	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Sewage Treatment Plant	SPILL CAUSE Ice accumulation/Vent leak	AREA OF CONTAMINATION IN SQUARE METRES 3		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Approximately 50 L of sewage spilled onto the industrial pad at the Main Camp Sewage Treatment Plant. The spill was contained to the local area. Clean-up activities were immediately undertaken. The coordinates of the spill are 63° 2'23" N 92°13'33.47" W. No water bodies were impacted by this spill. The nearest natural water body (Lake G2) is 360 m Northwest. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Spencer Knowles, Environment Technician, 819-759-3555 ext. 4603903, spencer.knowles@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Spencer Knowles	POSITION Env. Technician	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Sara Savoie	POSITION Env. Superintendent	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-856-9349
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					



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EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 01-13-2024	REPORT TIME 16:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 01-13-2024	OCCURRENCE TIME 10:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Mine		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 15 Liters	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Sewage Treatment Plant	SPILL CAUSE Sewage tank overflow	AREA OF CONTAMINATION IN SQUARE METRES 3		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Approximately 15 L of sewage spilled onto the industrial pad at the Main Camp Sewage Treatment Plant. The spill was contained to the local area. Clean-up activities were immediately undertaken. The coordinates of the spill are 63° 2'23" N 92°13'33.47" W. No water bodies were impacted by this spill. The nearest natural water body (Lake G2) is 360 m Northwest. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Spencer Knowles, Environment Technician, 819-759-3555 ext. 4603903, spencer.knowles@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Spencer Knowles	POSITION Env. Technician	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Sara Savoie	POSITION Env. Superintendent	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-856-9349
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 01-15-2024	REPORT TIME 13:30	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 01-14-2024	OCCURRENCE TIME 15:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Mine		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 215 Liters	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Sewage Treatment Plant	SPILL CAUSE Tank overflow	AREA OF CONTAMINATION IN SQUARE METRES 6		
J	FACTORS AFFECTING SPILL OR RECOVERY Infrastructure	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Approximately 215 L of sewage spilled onto the industrial pad at the Main Camp Sewage Treatment Plant. The spill was contained to the local area. Clean-up activities are ongoing. The coordinates of the spill are 63° 2'23" N 92°13'33.8" W. No water bodies were impacted by this spill. The nearest natural water body (Lake G2) is 360 m Northwest. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Spencer Knowles, Environment Technician, 819-759-3555 ext. 4603903, spencer.knowles@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Spencer Knowles	POSITION Env. Technician	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

February 9th, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-013, #2024-015, #2024-017 – Release of 280 L of Sewage at the Meliadine Gold Mine

On January 11th, 13th, and 15th of 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of three spills of approximately 50 L, 15 L, and 215 L of sewage totaling 280 L at the Meliadine Gold Mine site (spill location coordinates: 63° 2' 23"N, 92° 13' 33.47"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

As each spill event was the result of a common root cause they have been reported on in a single follow-up report.

Description of Incidents

January 10th, 2024 – 50 L Sewage (#2024-013)

On January 10th, 2024, at approximately 19:00, an estimated 50 L of sewage was spilled onto the industrial pad at the Sewage Treatment Plant (STP). During routine ice removal from the vents of the aerobic tanks at the STP, 50 L of sewage was released out of the vent at aerobic tank number two when an employee removed ice accumulation that had blocked the vent. As the aerobic tank is meant to ventilate gases produced by the breakdown process, the blocked vent allowed pressure to build within the tank. The release of pressure allowed sewage foam to escape from the vent when the vent was cleared of ice and the pressure was released.

January 13th, 2024 – 15 L Sewage (#2024-015)

On January 13th, 2024, at approximately 10:00, an estimated 15 L of sewage was spilled onto the industrial pad during maintenance work at the STP in response to the spill that occurred on January 10th. The aerobic tank was isolated from the STP to conduct inspection and maintenance work on the distribution line between the aerobic tank and the membrane filtration tank. The STP operator failed to shut down the blower in the aerobic tank while the maintenance was being conducted. The blower generated excessive foam, which escaped from the vent at the top of the tank, resulting in the spill.

January 14th, 2024 – 50 L Sewage (#2024-017)

On January 14th, 2024, at approximately 15:00, an estimated 215 L of sewage was spilled onto the industrial pad at the STP. The STP experienced an upset resulting in the membrane filtration tank and aerobic tank releasing sewage. It was discovered that the issue within the STP causing the high spill frequency was due to elevated mixed liquor suspended solids (MLSS). The elevated MLSS created favorable conditions for the generation of foam within the aerobic tank, resulting in the release of sewage from the tank vent. Excessive foam was also generated in the membrane filtration tank resulting in a spill inside the STP and migrated outside of and beneath the STP infrastructure.

No water bodies were impacted by the spills. The closest water body (Lake G2) is approximately 360 m northwest, as seen in Figure 1.



* Three spills totaling 280 L (50 L, 15 L, 215 L)

Figure 1: Location of the sewage spills and proximity to water bodies.

Response and Remediation

Following the release of sewage from the aerobic tank vent for each spill occurrence, the Energy and Infrastructure Maintenance employees immediately reported the spills as they occurred. Subsequently, they hand excavated and used universal spill pads to recover the spilled material. The recovered material was brought to Landfarm A as per the Spill Contingency Plan, and the contaminated spill pads were incinerated. The sewage that accumulated underneath the STP

following the membrane filtration tank release is inaccessible due to the STP infrastructure and the area will be remediated upon mine closure.

A consultant was contracted to assist in diagnosing the issues causing the spills. Following the initial consultation, it was found that MLSS was elevated causing an increase in foam being generated during the aeration process. In response, a defoaming agent was added to the system, effectively breaking down the existing foam quickly. Additional sludge was also removed from the aerobic tank until the target MLSS concentration was reached. The consultant was also brought to the Meliadine Site to assist with the rehabilitation of the STP.

Sludge samples were also sent to an external laboratory for analysis and recommendations.

Root Cause and Corrective Measures

An incident assessment was conducted soon after the spill incidents occurred to determine the root cause and contributing factors. Based on the assessment, each spill event was the result of a common root cause. The assessment concluded with the following:

- An upset within the STP resulted in elevated MLSS and the creation of high amounts of foam within the aerobic tank. The upset condition was suspected to be due to a large volume of milk being disposed of from the kitchen, leading to an increase in MLSS and excessive foam generation.
- An accumulation of ice around the aerobic tank vents allowed pressure to build within the aerobic tank.
- An overflow device on the membrane filtration tank was blocked contributing to the spillover within the STP.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:






- General awareness was provided to the kitchen staff of the sensitivity of the STP and the impacts of incorrect disposal of liquids into the system.
- Heat trace was installed around aerobic tank vents to prevent ice formation.
- A dosing system was installed to introduce a defoaming agent as required.
- Additional sludge was removed from the aeration tank to reduce MLSS to the target concentration.



- Inspection and cleanout of the membrane filtration tank overflow were added to the daily checks by the vacuum truck operator.
- Based on external analysis of sludge within the aeration tank, an appropriate polymer was recommended and purchased to aid in the sludge dewatering process.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator
randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix – Photos

January 10th, 2024 – 50 L Sewage (#2024-013)



Photo 1: Sewage spill location.



Photo 2: Spill location post remediation.

January 13th, 2024 – 15 L Sewage (#2024-015)



Photo 3: Sewage spill location.



Photo 4: Spill location post remediation.

January 14th, 2024 – 50 L Sewage (#2024-017)



Photos 5 and 6: Sewage spill location.



Photos 7 and 8: Spill location post remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 01-15-2024	REPORT TIME 11:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 01-14-2024	OCCURRENCE TIME 5:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Mine	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN			
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21	LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41			
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 5 Liters	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Wing 6 lift station	SPILL CAUSE Pump failure	AREA OF CONTAMINATION IN SQUARE METRES 1		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Approximately 5 L of sewage spilled onto the industrial pad at the Wing 6 lift station due to a pump failure. The spill was contained to the local area. Clean-up activities were immediately undertaken. The coordinates of the spill are 63° 2'23.67" N 92°13'46.57" W. No water bodies were impacted by this spill. The nearest natural water body (Lake G2) is 215 m Northwest. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Spencer Knowles, Environment Technician, 819-759-3555 ext. 4603903, spencer.knowles@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Spencer Knowles	POSITION Env. Technician	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT LOCATION Meliadine	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

February 11th, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
X0C 0G0

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-016 – Release of 5 L of Sewage at the Meliadine Gold Mine

On January 15th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 5 L of sewage at the Meliadine Gold Mine site (spill location coordinates: 63° 2' 23.67"N, 92° 13' 46.57"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

Description of Incident

On January 14th, 2024, at approximately 5:00am, an estimated 5 L of sewage was spilled onto the industrial pad at the wing 6 lift station. The lift station float level switches were coated in brown paper towel preventing them from engaging the sewage transfer pump. This caused the lift station to overflow, resulting in the spill.

No water bodies were impacted by the spill. The closest water body (Lake G2) is approximately 215 m northwest, as seen in Figure 1.



Figure 1: Location of the sewage spill and proximity to water bodies.

Response and Remediation

When the spill was discovered by an Energy and Infrastructure (E&I) Maintenance employee during their routine inspection, they manually restarted the lift station sewage transfer pump, stopping the spill. The float level switches were cleaned to prevent another spill from occurring. The sewage impacted area was hand excavated and the recovered material was brought to Landfarm A as per the Spill Contingency Plan.

Root Cause and Corrective Measures

An incident assessment was conducted soon after the incident occurred to determine the root cause and contributing factors. The assessment concluded with the following:

- The transfer pump float level switches were coated in brown paper towel preventing them from engaging the sewage transfer pump.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- Infographic posters were installed in the accommodation wing bathrooms, advising employees to not flush prohibited materials such as brown paper towels.
- A site wide announcement was also distributed, outlining what items are flushable and what items are not. This announcement was reviewed in the daily morning meetings by heads of each department and their direct reports.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator

randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0

agnicoeagle.com

Sent from Meliadine



Appendix – Photos



Photo 1: Sewage spill location.



Photo 2: Spill location post remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 01-22-2024	REPORT TIME 10:30	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 01-22-2024	OCCURRENCE TIME 7:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Mine		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED Sarliaq	CONTRACTOR ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 30 Liters	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Crusher water transfer station	SPILL CAUSE Overflow water in sewage tank	AREA OF CONTAMINATION IN SQUARE METRES 0.5		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Approximately 30 L of sewage spilled onto the industrial pad at the Crusher due to an overflow of a sewage tank. The spill was contained to the local area. Clean-up activities were immediately undertaken. The coordinates of the spill are 63° 2' 5.21" N, 92° 13' 27.56" W. No water bodies were impacted by this spill. The nearest natural water body (Lake B7) is 720 m southwest. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Alexandre L. Bourassa, Environment Coordinator, 819-759-3555 ext. 4603996, alexandre.langlais-bourassa@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Alex L. Bourassa	POSITION Environment Coord.	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Randy Schwandt	POSITION Environment Coord.	EMPLOYER AEM	ALTERNATE CONTACT LOCATION Meliadine	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

February 21st, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
X0C 0G0

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-024 – Release of 30 L of Sewage at the Meliadine Gold Mine

On January 22nd, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 30 L of sewage at the Meliadine Gold Mine site (spill location coordinates: 63° 2' 5.21" N, 92° 13' 27.56" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

Description of Incident

On January 22nd, 2024, at approximately 07:00, an estimated 30 L of sewage was spilled onto the industrial pad at the crusher water transfer outlets. A Sarliaq employee filled the crusher lavatory's freshwater tank using a water truck. While he was refilling the water tank, sewage released out of the sewage tank outlet causing the spill.

No natural water bodies were impacted, since the closest water body (Lake B7) is approximately 720 m southeast, as seen in Figure 1.



Figure 1: Location of the sewage spill and proximity to water bodies.

Response and Remediation

In response, the employee immediately stopped the water truck pump to prevent further spillage. The employee reported the event to their supervisor, who then reported the spill to the Environment department. Subsequently, Energy and Infrastructure (E&I) personnel excavated the area and transported the contaminated material to Landfarm A as per the Spill Contingency Plan.

Root Cause and Corrective Measures

An incident assessment was conducted soon after the incident occurred to determine the root cause and contributing factors. The assessment concluded with the following:





- The water overflow outlet was frozen (-55°C), preventing it from functioning and raising the water level in the freshwater tank, which then overflowed into the sewage line.
- The sewage outlet valve was opened upon the assessment.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- Thorough pre-op inspection of the system was added to the *Water truck transfer procedure*, along with the requirement for two workers to be present when filling the crusher's lavatory freshwater tank: One by the outlets to do the water transfer, and one inside the building near the water tank to make sure water levels do not go above capacity. Communication between both workers will be made by two-way radios.
- A high-level alert system will be added in March at this station to reduce the likelihood of spills.
- The door was fixed with a latch to prevent it from opening with the wind. An insulation panel and a heater were also installed to prevent freezing of the lines.
- Secondary containment will be added in the spring at this station to reduce the likelihood of spills.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix – Photos



Photo 1: Sewage Spill



Photo 2: Post-Remediation



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 02-29-2024	REPORT TIME 8:30	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 02-28-2024	OCCURRENCE TIME 16:30			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 7 Litres	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Vacuum truck	SPILL CAUSE Equipment failure	AREA OF CONTAMINATION IN SQUARE METRES 1		
J	FACTORS AFFECTING SPILL OR RECOVERY N/A	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Approximately 7 L of sewage spilled onto the industrial pad at the MSB lift station due to frozen material blocking the suction inside the vacuum truck PTO pump. The spill was contained to the local area. Clean-up activities were immediately undertaken. The coordinates of the spill are 63° 2' 21.24''N, 92° 13' 40.67''W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 325 m northwest. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Randy Schwandt, Environment Coordinator 819-759-3555 ext. 4603996 randy.schwandt@agnicoeagle.com , kyle.conway@agnicoeagle.com ext. 4603212				
L	REPORTED TO SPILL LINE BY Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION GEnv. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

March 23, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
X0C 0G0

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-053 – Release of 7 L of Sewage at the Meliadine Gold Mine

On February 29th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 7 L of sewage at the Meliadine Gold Mine site (spill location coordinates: 63° 2' 21.24"N, 92° 13' 40.67"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

Description of Incidents

On February 28th, 2024, at approximately 16:30, an estimated 7 L of sewage was spilled onto the industrial pad at the MSB lift station. Following normal operation of the vacuum truck to offload sewage into the MSB lift station, the operator attempted to switch the truck's mode from discharge to vacuum function. However, the power take-off (PTO) mechanism was frozen, preventing the mode change. When the operator attempted to clear the residual sewage in the hose by vacuuming, the truck discharged instead, resulting in the spill.

No water bodies were affected by the spill. The nearest water body, Lake G2, is approximately 325 meters northwest, as depicted in Figure 1.



Figure 1: Location of the sewage spill and proximity to water bodies.

Response and Remediation

The Energy and Infrastructure maintenance employee who was working on the vacuum truck immediately reported the spill. After the release, the vacuum truck operator began cleaning up the affected area. The sewage impacted snow was hand excavated and the recovered material was put back into the MSB lift station.

Root Cause and Corrective Measures

An incident assessment was conducted shortly after the incident to determine the extent of the cleanup and confirm the contributing factors and root cause of the spill. The following cause of the spill incident was determined:


- Due to cold weather conditions, the vacuum truck's power take-off (PTO) froze. This caused the vacuum reversing mechanism to temporarily malfunction, resulting in sewage discharge onto the industrial pad.

To address the root cause and reduce the likelihood of a recurrence, the following corrective and preventative actions have been implemented:

- Updated the vacuum truck operating procedure to include additional safety precautions when disconnecting the vacuum truck line from the lift stations. The procedure now specifies that the operator should ensure the end of the line faces into the lift station in case of malfunction or failure. Operators were also verbally briefed on the new precautions.
- The revised vacuum truck operating procedure now includes for operator managing the hose to confirm with the support operator that the line is empty prior to attempting to use the PTO when complete.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix – Photos



Photo 1: Sewage spill location.



Photo 2: Spill location post remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 03-25-2024	REPORT TIME 8:30 AM	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 03-24-2024	OCCURRENCE TIME 12:00 PM			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED Dyno Nobel	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Emulsion	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 12 kg	U.N. NUMBER UN0332		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Emulsion bulk truck	SPILL CAUSE Human error	AREA OF CONTAMINATION IN SQUARE METRES 1		
J	FACTORS AFFECTING SPILL OR RECOVERY N/A	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS 12 kg of emulsion was spilled on the industrial pad while live loading a bulk truck. Clean-up and remediation were immediately undertaken. The coordinates of the spill are 63° 2' 39.26" N, 92° 15' 22.62" W. No water bodies were impacted by this spill. The nearest natural water body (G8) is 308 m NNE. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed. E2 regulations Facility ID number 1524. Reported by Alexandre L. Bourassa, Environment Coordinator 819-759-3555 ext. 4603996 alexandre.l-bourassa@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT LOCATION Meliadine	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

April 11, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
X0C 0G0

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-076 – Release of 12 kg of Emulsion at the Meliadine Gold Mine

On March 24th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 12 kg of emulsion at the Meliadine Gold Project site (spill location coordinates: 63° 2' 39.26" N, 92° 15' 22.62" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

Description of Incident

On March 24th, 2024, at approximately 11:00 am an estimated 12 kg of emulsion was spilled onto the snow-covered ground at the emulsion plant. While doing a routine live loading operation of emulsion into the bulk truck, the truck operator noticed emulsion leaking from the side of the emulsion plant cabinet, resulting in a spill.

No water bodies were affected by the spill. The nearest water body, Lake G8, is approximately 308 meters northeast, as depicted in Figure 1.



Figure 1: Location of the emulsion spill and proximity to water bodies.

Response and Remediation

The Dyno Nobel employee operating the bulk truck immediately went into the emulsion plant and hit the emergency stop button to stop the loading. The employee then notified their supervisor and proceeded to clean the spilled emulsion from the ground before it could melt through the snow and reach the ground surface. The supervisor then contacted the Environment department and reported the spill. The contaminated snow was hand excavated and the recovered material was put into pails and subsequently disposed of in a bore hole in the Tiriganiaq Open Pit 1 as per the Spill Contingency Plan.

Root Cause and Corrective Measures

An incident assessment was conducted shortly after the incident to determine the extent of the clean-up and confirm the contributing factors and root cause of the spill. The following cause of the spill incident was determined:

- The 3" camlock cap on the emulsion plant port was not fully secured following the routine cleaning to remove excess emulsion on the port. The pump pressure and the weight of the emulsion resulted in the camlock to release, leading to the spill.

To address the root cause and reduce the likelihood of a recurrence, the following corrective and preventative actions have been implemented:

- The camlock has been secured and will be locked in place with cotter pins after each routine cleaning of the port.
- A toolbox was given to the Dyno Nobel team regarding the importance of performing a visual inspection of the port and all attachments after finishing routine scraping and prior to commencing the emulsion transfer.
- A review of the "Filling Heavy Truck with Emulsion" procedure was made with the crew.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix – Photos



Photo 1: Spill location post remediation. (An initial spill photo is not available since the spill was cleaned up before any photos were taken.)



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 04-19-2024	REPORT TIME	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 04-19-2024	OCCURRENCE TIME 6:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Mine	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN			
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21	LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41			
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
H	PRODUCT SPILLED Wastewater	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Unknown	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Wing 9	SPILL CAUSE Equipment failure	AREA OF CONTAMINATION IN SQUARE METRES Unknown		
J	FACTORS AFFECTING SPILL OR RECOVERY Snow and under infrastructure	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS An unknown quantity of wastewater spilled onto the ground underneath Wing 9. Investigation is ongoing to confirm the quantity of the spill and root cause. Clean-up activities are ongoing. The spill is contained to the local area. The coordinates of the spill are 63° 2'23.42" N, 92°13'49.08" W. No water bodies were impacted by this spill. The nearest natural water body (Lake G2) is 209 m North. Pursuant to Part H, Item 8c of Water Licence 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Alexandre L. Bourassa, Environment Coordinator, 819-759-3555 ext. 4603996, alexandre.langlais-bourassa@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Alex L. Bourassa	POSITION Environment Coord.	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Randy Schwandt	POSITION Environment Coord.	EMPLOYER AEM	ALTERNATE CONTACT LOCATION Meliadine	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

May 16th, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
X0C 0G0

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-112 – Release of 120 L of Greywater at the Meliadine Gold Mine

On April 19th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 120 L of wastewater at the Meliadine Gold Mine site (spill location coordinates: 63° 2' 23.42" N, 92° 13' 49.08" W). Upon inspection the spilled material was found to be greywater. This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

Description of Incident

On April 19th, 2024, at approximately 6:00am, an estimated 120 L of greywater spilled onto the ground underneath accommodation Wing 9. The spill was caused by a joint failure on drainpipe beneath the floor of the janitorial sink. An employee identified the spill during a routine inspection around the Wing 9 lift station.

No water bodies were impacted by the spill. The closest water body (Lake G2) is approximately 209 m northwest, as seen in Figure 1.



Figure 1: Location of the greywater spill and proximity to water bodies.

Response and Remediation

When the spill was discovered by an Energy and Infrastructure (E&I) Maintenance employee during their routine inspection, they isolated the water supply in the wing to prevent further spillage. The employee contacted their supervisor and the Environment Department to report the spill. A site visit was conducted by the Environment and E&I departments to determine the root cause and commence the clean-up process. The snowpack under the wing was removed, the impacted area was excavated, and the recovered material was brought to Landfarm A and the Waste Rock Storage Facility 3 (WRSF3), as per the Spill Contingency Plan. The janitorial sink drainpipe was then cleaned, primed, and glued back to prevent future failures.

Root Cause and Corrective Measures

An incident assessment was conducted soon after the incident occurred to determine the root cause and contributing factors. The assessment concluded with the following:






- The piping glue on the drainpipe joint dried over time and no primer was applied before gluing the pipe when it was installed.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- Inspections of these pieces of piping will be added to E&I maintenance quarterly inspection procedure. To provide access to these pieces and facilitate their inspection, E&I maintenance will install ports with doors on the side of the wings before the end of the year.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix – Photos



Photo 1: Greywater spill location.



Photo 2: Spill location post remediation (ice/water is from snow melt).



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 04-25-2024		REPORT TIME 12:30		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 04-25-2024		OCCURRENCE TIME 17:45			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01			WATER LICENCE NUMBER (IF APPLICABLE) 2BB-MEL1424		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project				REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21			LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED Orbit Garant		CONTRACTOR ADDRESS OR OFFICE LOCATION Val d'Or, Quebec			
H	PRODUCT SPILLED Motor Oil		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 10 L		U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A		U.N. NUMBER N/A	
I	SPILL SOURCE Dozer		SPILL CAUSE Collision		AREA OF CONTAMINATION IN SQUARE METRES 2	
J	FACTORS AFFECTING SPILL OR RECOVERY N/A		DESCRIBE ANY ASSISTANCE REQUIRED N/A		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p>While the dozer was moving the water sea-can from site to B5, the sea-can came into contact with the dozer, causing motor oil to be released on the ice surface of lake B5.</p> <p>The coordinates of the spill are 63°1'33.94" N, 92°15'23.75" W. No motor oil entered the water body (B5) and was contained on the surface of the ice. CIRNAC was present when the spill clean-up was occurring.</p> <p>Pursuant to Part H, Item 8c of Water Licence 2AM-MEL1631, a follow-up report will be issued after the investigation is completed.</p> <p>Reported by Randy Schwandt, Environment Coordinator, 819-759-3555 ext. 4603996</p>					
L	REPORTED TO SPILL LINE BY Randy Schwandt		POSITION Env. Coordinator		EMPLOYER AEM	
					LOCATION CALLING FROM Meliadine	
					TELEPHONE 819-759-3555	
M	ANY ALTERNATE CONTACT Alex L. Bourassa		POSITION Env. Coordinator		EMPLOYER AEM	
					ALTERNATE CONTACT Meliadine	
					ALTERNATE TELEPHONE 819-759-3555	
REPORT LINE USE ONLY						
N	RECEIVED AT SPILL LINE BY		POSITION STATION OPERATOR		EMPLOYER	
					LOCATION CALLED YELLOWKNIFE, NT	
					REPORT LINE NUMBER (867) 920-8130	
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN			FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME		CONTACT TIME		REMARKS
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						

May 2nd, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-126 – Release of 10 L of Lubricant at the Meliadine Gold Mine, Lake B5 Waterbody

On April 25th, 2024, at 5:45 pm, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 10 L of lubricant at the Meliadine Gold Mine (spill location coordinates: 63° 1' 33.94" N, 92° 15' 23.75" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water Licence, part H, item 4c; and
- the Fisheries Act subsection 38(7).

Description of Incident

On April 25th, 2024, at 12:30 pm, a dozer being operated by Orbit Garant Drilling was pulling a freshwater sea-can to a drill rig when the sea-can slid into the back of the dozer. The dozer began slowly leaking lubricant while completing the sea-can move. When the leak was noticed, approximately 10 L of lubricant was estimated to have been released onto the snow on the frozen surface of Lake B5, approximately 1.8 kilometers west of the Meliadine Gold Mine industrial pad. The location of the spill is shown in Figure 1.



Figure 1: Location of the 10 L lubricant spill.

Spill Response and Remediation

Due to the leak from the dozer not being noticed right away, the spill was spread along the 1-kilometer path leading to a regional exploration drilling site. Orbit Garant workers retraced the path of the dozer to hand excavate a portion of the contaminated snow into drums. The remaining contaminated snow along the path was removed using a skid steer. The contaminated snow was disposed of in the contaminated snow cell on site.

Following the incident, all dozers being used as part of the drilling on ice campaign were inspected. An unsecured cover plate was found on the bottom of a dozer being used for drilling activities on nearby Lake A8. The cover plate was cleaned and secured correctly and lubricant residue found under the dozer was cleaned up and disposed of at the contaminated snow cell.

Root Cause and Corrective Measures

An incident assessment was conducted soon after the incident occurred to determine the root cause and contributing factors. The assessment concluded the following:

- The winch attachment was not installed on the dozer when pulling the freshwater sea-can, which offers protection to the rear of the dozer; and
- The dozer was not inspected after the collision with the freshwater sea-can.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- Orbit Garant workers were provided a toolbox meeting regarding safe operation of dozers when towing sea-cans, the requirement to inspect the equipment if the sea-can makes contact with the dozer, and the requirement to have drip trays present under the dozer;
- The dozer which collided with the freshwater sea-can has been pulled off the ice and will not be returned to operation until the damaged lubricant tank is repaired and the winch attachment installed; and
- The dozer pre-operation inspection sheet will be modified to include a checklist item requiring the use of a drip tray when the dozer is parked.

Appendix – Photos



Photo 1: Spill location along the dozer path.



Photo 2: Spill area post remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 05-03-2024	REPORT TIME 13:40	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 05-03-2024	OCCURRENCE TIME 9:30			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 30 Liters	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Sewage vacuum truck	SPILL CAUSE Human Error	AREA OF CONTAMINATION IN SQUARE METRES 3		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS During routine sewage collection, approximately 30L of sewage spilled onto the industrial pad when the sewage vacuum truck was overfilled. The spill was contained to the local area. Clean-up activities were immediately undertaken. The coordinates of the spill are 63° 2'22.45"N, 92°13'33.67"W. No water bodies were impacted by this spill. The nearest natural water body, Lake G2, is 370 m northwest. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed. Reported by Randy Schwandt, Environment Coordinator, 819-759-3555 ext. 4603996, Randy.Schwandt@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Randy Schwandt	POSITION Environment Coord.	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION Environment Coord.	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

May 31st, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
X0C 0G0

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-130 – Release of 30 L of Sewage at the Meliadine Gold Mine

On May 3rd, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 30 L of sewage at the Meliadine Gold Mine site (spill location coordinates: 63° 2'22.45"N, 92°13'33.67"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

Description of Incident

On May 3rd, 2024, at approximately 9:30 am, an estimated 30 L of sewage was spilled onto the industrial pad at the Sewage Treatment Plant (STP). During routine treated sewage collection at the STP, the vacuum truck was parked on a slope, resulting in the operator filling it over its capacity due to an inaccurate visual level check. Once over capacity, the function of the sewage truck vacuum pump could no longer vacuum sewage. Unaware of this, the sewage truck operator attempted to initiate the pump to remove the residual sewage in the vacuum hose, causing a pressure release and a spill of residual sewage in the vacuum hose.

No water bodies were impacted by this spill. The closest water body (Lake G2) is approximately 370 m southwest, as seen in Figure 1.



Figure 1: Location of the sewage spill and proximity to water bodies.

Response and Remediation

The vacuum truck operator reported the spill to their supervisor and the Environment department after the spill event occurred. The Energy and Infrastructure and Environment department responded to the spill location for remediation. An excavator was used to excavate the ground surface, and the recovered material was brought to Landfarm A as per the Spill Contingency Plan.

Root Cause and Corrective Measures

An incident assessment was conducted soon after the incident occurred to determine the root cause and contributing factors. The assessment concluded with the following:






- The vacuum truck operator did not follow the procedure, initiating the vacuum pump when the vacuum truck was filled over its capacity.
- The vacuum truck was parked on a slope while being filled which led to an inaccurate fill level reading.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- The procedure was reviewed with the sewage truck operator.
- The pad outside the STP will be leveled so that equipment will no longer be parked on a slope when operating at the STP.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator
randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix – Photos



Photo 1: Sewage spill location.



Photo 2: Spill location post remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 05-08-2024		REPORT TIME 11:10		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	B	OCCURRENCE DATE: MONTH – DAY – YEAR 05-07-2024		OCCURRENCE TIME 19:30		
C		LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01		WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631		
	D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Mine			REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E		LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
	F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0		
G		ANY CONTRACTOR INVOLVED N/A		CONTRACTOR ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0		
	H	PRODUCT SPILLED Sewage		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 1m3		U.N. NUMBER N/A
I		SECOND PRODUCT SPILLED (IF APPLICABLE) N/A		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A		U.N. NUMBER N/A
	J	SPILL SOURCE Sewage Treatment Plant		SPILL CAUSE System Failure		AREA OF CONTAMINATION IN SQUARE METRES 5
K		FACTORS AFFECTING SPILL OR RECOVERY None		DESCRIBE ANY ASSISTANCE REQUIRED N/A		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A
	L	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Approximately 1m3 of sewage spilled onto the industrial pad at the Main Camp Sewage Treatment Plant. The spill was contained to the local area. Clean-up activities were immediately undertaken. The coordinates of the spill are 63° 2'23" N 92°13'33.47" W. No water bodies were impacted by this spill. The nearest natural water body (Lake G2) is 350 m Northwest. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Randy Schwandt, Environment Coordinator, 819-759-3555 ext. 4603996, Randy.Schwandt@agnicoeagle.com.				
M		REPORTED TO SPILL LINE BY Randy Schwandt	POSITION Environment Coord.	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
	N	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION Environment Coord.	EMPLOYER AEM	ALTERNATE CONTACT Meliadine	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY						
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130	
	LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS		
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						

June 6th, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC 0G0

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-141 – Release of 1m³ of Sewage at the Meliadine Gold Mine

On May 8th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 1m³ of sewage at the Meliadine Gold Mine site (spill location coordinates: 63° 2'23" N, 92°13'33.47" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

Description of Incident

On May 7th, 2024, at approximately 19:30, an estimated 1m³ of sewage was spilled onto the industrial pad of the Sewage Treatment Plant (STP) during planned maintenance activities. The maintenance activities included isolating the aerobic tank to inspect and repair a diffuser located within the tank bottom. During an attempt to restart the STP after maintenance activities were complete, a programming issue caused a partial shutdown of the STP while it continued to receive sewage inflow resulting in an overflow of the Equalization Tank (EQ) and the spill.

The spill occurred within the site's water management infrastructure, and as such, no water bodies were impacted by the spill. The closest water body, Lake G2, is approximately 350 meters northwest, as seen in Figure 1.



Figure 1: Location of the sewage spill and proximity to water bodies.

Response and Remediation

The STP operator acted to stop the spill while his supervisor contacted the instrumentation team to bypass the faults and restart the STP. Once the spill was under control a vacuum truck was dispatched to collect the free-standing liquid inside the plant. Additionally, the ground surface was excavated, and the recovered material was transported to Landfarm A in accordance with the Spill Contingency Plan.

Root Cause and Corrective Measures

An incident assessment was conducted soon after the incident occurred to determine the root cause and contributing factors. The assessment concluded with the following:

- At the time of the spill, there was no established night shift operator position or support staff with sufficient knowledge of the system. The existing procedures and checklists were inadequate for the available supporting staff.
- The absence of a properly defined maximum level for the EQ tank to suspend the maintenance work and restart the STP was not in place. This lack of critical operational limits allowed conditions that ultimately led to the spill.
- The EQ tank was not reduced to the lowest possible level prior to the planned maintenance activity.





The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- Recognizing the importance of continuous support, a dedicated night shift and a designated radio number for the E&I Supervisor on duty have been established.
- A detailed set of general operating procedures and an STP start-up checklist is being developed to ensure a thorough verification process prior to the commencement of the STP operation.
- An improved work plan outlining the tasks to be performed during maintenance operations is being developed. This plan includes all necessary implications and preparations to be addressed prior to the start of any action. It will encompass a proper timeline with scheduled shutdown times, coordination of shutdown activities, and the resumption of normal operations.
- A programming checklist will be established for all interlocks to be verified before maintenance activities occur and upon restart of the plant to prevent partial shutdowns of the STP during restart sequence of the STP.



Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 05-10-2024	REPORT TIME 15:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 05-09-2024	OCCURRENCE TIME 15:30			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2BB-MEL1424			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED Orbit Garant	CONTRACTOR ADDRESS OR OFFICE LOCATION Val d'Or, Quebec			
H	PRODUCT SPILLED Diesel fuel	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 0.5 L	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Secondary containment	SPILL CAUSE Faulty containment	AREA OF CONTAMINATION IN SQUARE METRES 10		
J	FACTORS AFFECTING SPILL OR RECOVERY Wind	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS During a daily inspection, a sheen was observed on pooled water outside of a secondary containment located on Lake B59. Spill pads/booms were deployed to isolate the sheen and recover the spilled diesel fuel. Spill coordinates: 63°0'12.00" N, 92°12'20.09" W. Pursuant to Part H, Item 4c of Water Licence 2BB-MEL1424, a follow-up report will be issued after an assessment is completed. Reported by Kyle Conway, Environment General Supervisor, 819-759-3555 ext. 4603212				
L	REPORTED TO SPILL LINE BY Kyle Conway	POSITION Env. Supervisor	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

June 8th, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-148 – Release of 0.5 L of diesel at the Meliadine Gold Mine, Lake B59

On May 10th, 2024, at 15:00, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 0.5 L of diesel fuel at the Meliadine Gold Mine (spill location coordinates: 63° 0' 12.00" N, 92° 12' 20.09" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water Licence, part H, item 4c; and
- the Fisheries Act subsection 38(7).

Description of Incident

On May 9th, 2024, at 15:30, during a daily inspection by Orbit Garant Drilling, a visible sheen was observed on pooled water beside a secondary containment for a 200 L double-walled fuel storage tank and a freshwater pump used to supply water to a nearby diamond drill operation.

A drill helper filled the 2 L fuel tank for the freshwater pump the morning of the spill event. However, it was later discovered by the drill helper that the fuel cap was not completely secured, allowing the fuel tank to leak into the secondary containment. Much of the spilled fuel was absorbed by hydrocarbon absorbent pads that were in place beneath the pump within a small containment as a proactive measure. The secondary containment was compromised, allowing diesel-contaminated water to leak outside of the containment and onto the surface of Lake B59, which is known to be frequented by fish.

The location of the spill is shown in Figure 1.



Figure 1: Location of the diesel spill on Lake B59.

Spill Response and Remediation

The surface of Lake B59 was frozen at the time of the spill, allowing most of the diesel-contaminated water to be recovered from the shallow and isolated pool of water in the spill area.

As spill kits are co-located with any hydrocarbon storage locations, absorbent pads and booms were immediately deployed on and around the pooled water to absorb the hydrocarbon sheen. A pump was used to skim the pooled water and remove as much of the sheen as possible. Approximately 90 L of the diesel-contaminated water was recovered.

The freshwater pump and fuel tanks were relocated to land. The spill pads and booms remained in place until no observable sheen or odor could be detected. All the recovered contaminated water and spill response materials were transported back to the mine site for disposal as per the Spills Contingency Plan.

Water quality samples were collected from the impacted area and compared to the effluent discharge criteria in Water License 2AM-MEL1631, Part F. Item 5. Analytical results for the monitoring duration are presented in Table 1. The Certificate of Analysis for the samples can be found in Appendix B.

Table 1. Analytical Results

Sample Name		Pump Shack	Upwind	Pump Shack	Middle	Downwind	2AM-MEL1631, Part F. Item 5
Sample Date		24/05/10	24/05/10	24/05/11	24/05/11	24/05/11	Maximum Concentration in a Grab Sample
Parameter	Unit						
pH	pH	7.41	7.66	7.71	7.63	7.62	6.0-9.5
Total Suspended Solids	mg/L	17	24	32	9	7	30
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	370
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	2
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	90
Lead (Pb)	ug/L	0.00745	0.0105	0.0127	0.00588	0.00534	0.1
Oil and Grease	mg/L	4.1	1.4	1.8	1.1	1.7	5 and no visible sheen

***Bold** text indicates and exceedance of quality limits.

The discrete samples collected around the area where the sheen was observed did not exceed the Maximum Authorized Concentration in a Grab Sample quality limits related to hydrocarbons. A TSS concentration of 32 mg/L was observed in one sample; however, this can be attributed to natural melt and runoff occurring in the area at the time and is unrelated to the spill event.

Root Cause and Corrective Measures

An incident assessment was conducted soon after the incident occurred to determine the root cause and contributing factors. The assessment concluded the following:

- The cap on the 2L fuel tank was not properly secured, allowing diesel to drip out of the tank.
- The tertiary containment (Instaberm) was found to be compromised, allowing diesel-contaminated water to escape from the containment.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- Confirm inspection of all equipment prior to, during and after use (fuel caps, seals, secondary containments).
- The routine inspection frequency has been increased to a minimum of three times daily.
- A check box has been added to the “Drill Environmental Inspection Guide” to prompt the worker to inspect fuel tank caps and secondary containments.
- Investigate options to avoid placing “fly” pump shacks on the ice during freshet.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix – Photos



Photo 1: Spill location on Lake B59.



Photo 2: Spill remediation on Lake B59.



Photo 3: Spill remediation on Lake B59.

Appendix B – Certificate of Analysis

Your P.O. #: OL-1381216
Site Location: MELIADINE
Your C.O.C. #: N/A

Attention: Reporting

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

Report Date: 2024/05/24
Report #: R8161015
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4E7331

Received: 2024/05/15, 10:45

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity (1)	1	N/A	2024/05/21	CAM SOP-00448	SM 24 2320 B m
Alkalinity (1)	4	N/A	2024/05/22	CAM SOP-00448	SM 24 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2024/05/21	CAM SOP-00102	APHA 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2024/05/22	CAM SOP-00102	APHA 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide (1)	3	N/A	2024/05/23	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	5	N/A	2024/05/23	CAM SOP-00463	SM 24 4500-Cl E m
Conductivity (1)	1	N/A	2024/05/21	CAM SOP-00414	SM 24 2510 m
Conductivity (1)	4	N/A	2024/05/22	CAM SOP-00414	SM 24 2510 m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	5	N/A	2024/05/21	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 4)	5	2024/05/21	2024/05/22	CAM SOP-00316	CCME PHC-CWS m
Hardness (calculated as CaCO3) (1)	5	N/A	2024/05/23	CAM SOP 00102/00408/00447	SM 2340 B
Low Level Chloride and Sulphate by AC (2)	5	N/A	2024/05/23	AB SOP-00020	SM24-4500-Cl/SO4-E m
Elements by CRC ICPMS (total) (3)	5	2024/05/22	2024/05/23	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Total Oil and Grease (1)	5	2024/05/17	2024/05/18	CAM SOP-00326	EPA1664B m, SM5520B m
pH (1, 5)	1	2024/05/17	2024/05/21	CAM SOP-00413	SM 24th - 4500H+ B
pH (1, 5)	1	2024/05/17	2024/05/22	CAM SOP-00413	SM 24th - 4500H+ B
pH (1, 5)	3	2024/05/18	2024/05/22	CAM SOP-00413	SM 24th - 4500H+ B
Total Dissolved Solids (1)	2	2024/05/17	2024/05/23	CAM SOP-00428	SM 24 2540C m
Total Dissolved Solids (1)	3	2024/05/18	2024/05/23	CAM SOP-00428	SM 24 2540C m
Low Level Total Suspended Solids (1)	2	2024/05/17	2024/05/18	CAM SOP-00428	SM 24 2540D m
Low Level Total Suspended Solids (1)	3	2024/05/18	2024/05/21	CAM SOP-00428	SM 24 2540D m
Turbidity (1)	2	N/A	2024/05/18	CAM SOP-00417	SM 24 2130 B
Turbidity (1)	3	N/A	2024/05/21	CAM SOP-00417	SM 24 2130 B

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, EPA, APHA or the Quebec Ministry of Environment.

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



Your P.O. #: OL-1381216
Site Location: MELIADINE
Your C.O.C. #: N/A

Attention: Reporting

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

Report Date: 2024/05/24

Report #: R8161015

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4E7331

Received: 2024/05/15, 10:45

writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

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

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

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

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

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

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

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

(2) This test was performed by Bureau Veritas Calgary (19th), 4000 19th Street NE , Calgary, AB, T2E 6P8

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

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

(5) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed 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 and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."

Encryption Key

Katherine Szozda
Project Manager
24 May 2024 15:40:35

Please direct all questions regarding this Certificate of Analysis to:

Katherine Szozda, Project Manager

Email: Katherine.Szozda@bureauveritas.com

Phone# (613)274-0573 Ext:7063633

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C4E7331

Report Date: 2024/05/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1381216

Sampler Initials: MM

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZEN872		ZEN873		
Sampling Date		2024/05/10 17:00		2024/05/11 16:00		
COC Number		N/A		N/A		
	UNITS	INTELEX 9189,PUMP SHACK-2024-05-10	QC Batch	INTELEX 9189,PUMP SHACK-2024-05-11	RDL	QC Batch
Calculated Parameters						
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	33	9399781	31	1.0	9399781
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	9399781	<1.0	1.0	9399781
Hardness (CaCO ₃)	mg/L	39	9399785	46	1.0	9399785
Inorganics						
Conductivity	mS/cm	0.0987	9402037	0.111	0.001	9402875
Total Dissolved Solids	mg/L	55	9400940	95	10	9402641
pH	pH	7.41	9402029	7.71		9402873
Total Suspended Solids	mg/L	17	9401824	32	1	9400338
Turbidity	NTU	8.6	9401958	14	0.1	9402482
Alkalinity (Total as CaCO ₃)	mg/L	33	9402036	31	1.0	9402874
Dissolved Chloride (Cl ⁻)	mg/L	4.7	9406556	12	1.0	9402494
Dissolved Sulphate (SO ₄)	mg/L	8.6	9411735	5.0	0.50	9411735
Metals						
Total Aluminum (Al)	mg/L	0.439	9410672	0.629	0.0030	9410672
Total Antimony (Sb)	mg/L	<0.00050	9410672	<0.00050	0.00050	9410672
Total Arsenic (As)	mg/L	0.0771	9410672	0.113	0.00010	9410672
Total Barium (Ba)	mg/L	0.0086	9410672	0.0078	0.0010	9410672
Total Beryllium (Be)	mg/L	<0.00010	9410672	<0.00010	0.00010	9410672
Total Cadmium (Cd)	mg/L	0.000025	9410672	0.000024	0.000010	9410672
Total Chromium (Cr)	mg/L	0.0012	9410672	0.0015	0.0010	9410672
Total Cobalt (Co)	mg/L	0.00040	9410672	0.00054	0.00020	9410672
Total Copper (Cu)	mg/L	0.00338	9410672	0.00489	0.00050	9410672
Total Iron (Fe)	mg/L	0.916	9410672	1.78	0.010	9410672
Total Lead (Pb)	mg/L	0.00745	9410672	0.0127	0.00020	9410672
Total Lithium (Li)	mg/L	<0.0020	9410672	0.0041	0.0020	9410672
Total Manganese (Mn)	mg/L	0.0487	9410672	0.0790	0.0010	9410672
Total Molybdenum (Mo)	mg/L	0.0013	9410672	<0.0010	0.0010	9410672
Total Nickel (Ni)	mg/L	0.0015	9410672	0.0018	0.0010	9410672
Total Selenium (Se)	mg/L	0.00010	9410672	<0.00010	0.00010	9410672
Total Strontium (Sr)	mg/L	0.0428	9410672	0.102	0.0010	9410672
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C4E7331
Report Date: 2024/05/24

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: MM

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZEN872		ZEN873		
Sampling Date		2024/05/10 17:00		2024/05/11 16:00		
COC Number		N/A		N/A		
	UNITS	INTELEX 9189,PUMP SHACK-2024-05-10	QC Batch	INTELEX 9189,PUMP SHACK-2024-05-11	RDL	QC Batch
Total Thallium (Tl)	mg/L	<0.000010	9410672	<0.000010	0.000010	9410672
Total Tin (Sn)	mg/L	<0.0050	9410672	<0.0050	0.0050	9410672
Total Titanium (Ti)	mg/L	0.0066	9410672	0.0102	0.0050	9410672
Total Uranium (U)	mg/L	<0.00010	9410672	<0.00010	0.00010	9410672
Total Vanadium (V)	mg/L	<0.0050	9410672	<0.0050	0.0050	9410672
Total Zinc (Zn)	mg/L	0.0090	9410672	0.0090	0.0050	9410672
Petroleum Hydrocarbons						
Total Oil & Grease	mg/L	4.1	9401815	1.8	0.50	9401815
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C4E7331

Report Date: 2024/05/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1381216

Sampler Initials: MM

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZEN874		ZEN875		
Sampling Date		2024/05/11 16:15		2024/05/10 17:20		
COC Number		N/A		N/A		
	UNITS	INTELEX 9189,MIDDLE	QC Batch	INTELEX 9189,UPWIND	RDL	QC Batch

Calculated Parameters						
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	27	9399781	31	1.0	9399781
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	9399781	<1.0	1.0	9399781
Hardness (CaCO ₃)	mg/L	35	9399785	37	1.0	9399785

Inorganics						
Conductivity	mS/cm	0.085	9402875	0.093	0.001	9402062
Total Dissolved Solids	mg/L	70	9402641	55	10	9400940
pH	pH	7.63	9402873	7.66		9402063
Total Suspended Solids	mg/L	9	9400338	24	1	9401824
Turbidity	NTU	5.7	9402487	7.7	0.1	9401958
Alkalinity (Total as CaCO ₃)	mg/L	27	9402874	31	1.0	9402061
Dissolved Chloride (Cl ⁻)	mg/L	4.9	9402494	4.5	1.0	9406556
Dissolved Sulphate (SO ₄)	mg/L	6.3	9411735	7.1	0.50	9411735

Metals						
Total Aluminum (Al)	mg/L	0.295	9410672	0.524	0.0030	9410672
Total Antimony (Sb)	mg/L	<0.00050	9410672	<0.00050	0.00050	9410672
Total Arsenic (As)	mg/L	0.0737	9410672	0.117	0.00010	9410672
Total Barium (Ba)	mg/L	0.0075	9410672	0.0084	0.0010	9410672
Total Beryllium (Be)	mg/L	<0.00010	9410672	<0.00010	0.00010	9410672
Total Cadmium (Cd)	mg/L	<0.000010	9410672	0.000013	0.000010	9410672
Total Chromium (Cr)	mg/L	<0.0010	9410672	0.0013	0.0010	9410672
Total Cobalt (Co)	mg/L	0.00030	9410672	0.00048	0.00020	9410672
Total Copper (Cu)	mg/L	0.00266	9410672	0.00377	0.00050	9410672
Total Iron (Fe)	mg/L	0.650	9410672	1.35	0.010	9410672
Total Lead (Pb)	mg/L	0.00588	9410672	0.0105	0.00020	9410672
Total Lithium (Li)	mg/L	<0.0020	9410672	<0.0020	0.0020	9410672
Total Manganese (Mn)	mg/L	0.0356	9410672	0.0519	0.0010	9410672
Total Molybdenum (Mo)	mg/L	<0.0010	9410672	<0.0010	0.0010	9410672
Total Nickel (Ni)	mg/L	<0.0010	9410672	0.0014	0.0010	9410672
Total Selenium (Se)	mg/L	<0.00010	9410672	0.00010	0.00010	9410672
Total Strontium (Sr)	mg/L	0.0389	9410672	0.0402	0.0010	9410672

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C4E7331

Report Date: 2024/05/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1381216

Sampler Initials: MM

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZEN874		ZEN875		
Sampling Date		2024/05/11 16:15		2024/05/10 17:20		
COC Number		N/A		N/A		
	UNITS	INTELEX 9189,MIDDLE	QC Batch	INTELEX 9189,UPWIND	RDL	QC Batch
Total Thallium (Tl)	mg/L	<0.000010	9410672	<0.000010	0.000010	9410672
Total Tin (Sn)	mg/L	<0.0050	9410672	<0.0050	0.0050	9410672
Total Titanium (Ti)	mg/L	0.0056	9410672	0.0082	0.0050	9410672
Total Uranium (U)	mg/L	<0.00010	9410672	<0.00010	0.00010	9410672
Total Vanadium (V)	mg/L	<0.0050	9410672	<0.0050	0.0050	9410672
Total Zinc (Zn)	mg/L	<0.0050	9410672	<0.0050	0.0050	9410672
Petroleum Hydrocarbons						
Total Oil & Grease	mg/L	1.1	9401815	1.4	0.50	9401815
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C4E7331

Report Date: 2024/05/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1381216

Sampler Initials: MM

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZEN876		
Sampling Date		2024/05/11 16:30		
COC Number		N/A		
	UNITS	INTELEX 9189,DOWNWIND	RDL	QC Batch
Calculated Parameters				
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	27	1.0	9399781
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	9399781
Hardness (CaCO ₃)	mg/L	35	1.0	9399785
Inorganics				
Conductivity	mS/cm	0.087	0.001	9402875
Total Dissolved Solids	mg/L	70	10	9402641
pH	pH	7.62		9402873
Total Suspended Solids	mg/L	7	1	9400338
Turbidity	NTU	6.5	0.1	9402487
Alkalinity (Total as CaCO ₃)	mg/L	27	1.0	9402874
Dissolved Chloride (Cl ⁻)	mg/L	5.3	1.0	9402494
Dissolved Sulphate (SO ₄)	mg/L	7.0	0.50	9411735
Metals				
Total Aluminum (Al)	mg/L	0.249	0.0030	9410672
Total Antimony (Sb)	mg/L	<0.00050	0.00050	9410672
Total Arsenic (As)	mg/L	0.0646	0.00010	9410672
Total Barium (Ba)	mg/L	0.0065	0.0010	9410672
Total Beryllium (Be)	mg/L	<0.00010	0.00010	9410672
Total Cadmium (Cd)	mg/L	<0.000010	0.000010	9410672
Total Chromium (Cr)	mg/L	<0.0010	0.0010	9410672
Total Cobalt (Co)	mg/L	0.00028	0.00020	9410672
Total Copper (Cu)	mg/L	0.00240	0.00050	9410672
Total Iron (Fe)	mg/L	0.527	0.010	9410672
Total Lead (Pb)	mg/L	0.00534	0.00020	9410672
Total Lithium (Li)	mg/L	<0.0020	0.0020	9410672
Total Manganese (Mn)	mg/L	0.0334	0.0010	9410672
Total Molybdenum (Mo)	mg/L	<0.0010	0.0010	9410672
Total Nickel (Ni)	mg/L	<0.0010	0.0010	9410672
Total Selenium (Se)	mg/L	<0.00010	0.00010	9410672
Total Strontium (Sr)	mg/L	0.0395	0.0010	9410672
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C4E7331
Report Date: 2024/05/24

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: MM

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZEN876		
Sampling Date		2024/05/11 16:30		
COC Number		N/A		
	UNITS	INTELEX 9189,DOWNWIND	RDL	QC Batch
Total Thallium (Tl)	mg/L	<0.000010	0.000010	9410672
Total Tin (Sn)	mg/L	<0.0050	0.0050	9410672
Total Titanium (Ti)	mg/L	<0.0050	0.0050	9410672
Total Uranium (U)	mg/L	<0.00010	0.00010	9410672
Total Vanadium (V)	mg/L	<0.0050	0.0050	9410672
Total Zinc (Zn)	mg/L	<0.0050	0.0050	9410672
Petroleum Hydrocarbons				
Total Oil & Grease	mg/L	1.7	0.50	9401815
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C4E7331

Report Date: 2024/05/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1381216

Sampler Initials: MM

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		ZEN872			ZEN872		
Sampling Date		2024/05/10 17:00			2024/05/10 17:00		
COC Number		N/A			N/A		
	UNITS	INTELEX 9189,PUMP SHACK-2024-05-10	RDL	QC Batch	INTELEX 9189,PUMP SHACK-2024-05-10 Lab-Dup	RDL	QC Batch
BTEX & F1 Hydrocarbons							
Benzene	ug/L	<0.20	0.20	9402647	<0.20	0.20	9402647
Toluene	ug/L	<0.20	0.20	9402647	<0.20	0.20	9402647
Ethylbenzene	ug/L	<0.20	0.20	9402647	<0.20	0.20	9402647
o-Xylene	ug/L	0.42	0.20	9402647	0.43	0.20	9402647
p+m-Xylene	ug/L	0.62	0.40	9402647	0.58	0.40	9402647
Total Xylenes	ug/L	1.0	0.40	9402647	1.0	0.40	9402647
F1 (C6-C10)	ug/L	<25	25	9402647	<25	25	9402647
F1 (C6-C10) - BTEX	ug/L	<25	25	9402647	<25	25	9402647
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	1700	100	9404894			
F3 (C16-C34 Hydrocarbons)	ug/L	410	200	9404894			
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	9404894			
Reached Baseline at C50	ug/L	Yes		9404894			
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	98		9402647	97		9402647
4-Bromofluorobenzene	%	98		9402647	99		9402647
D10-o-Xylene	%	100		9402647	99		9402647
D4-1,2-Dichloroethane	%	102		9402647	98		9402647
o-Terphenyl	%	111		9404894			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C4E7331

Report Date: 2024/05/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1381216

Sampler Initials: MM

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		ZEN873	ZEN874	ZEN875	ZEN876		
Sampling Date		2024/05/11 16:00	2024/05/11 16:15	2024/05/10 17:20	2024/05/11 16:30		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	INTELEX 9189,PUMP SHACK-2024-05-11	INTELEX 9189,MIDDLE	INTELEX 9189,UPWIND	INTELEX 9189,DOWNWIND	RDL	QC Batch

BTEx & F1 Hydrocarbons							
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9402647
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9402647
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9402647
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9402647
p+m-Xylene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	9402647
Total Xylenes	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	9402647
F1 (C6-C10)	ug/L	<25	<25	<25	<25	25	9402647
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	25	9402647

F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	9404894
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	9404894
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	9404894
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		9404894

Surrogate Recovery (%)							
1,4-Difluorobenzene	%	98	98	97	92		9402647
4-Bromofluorobenzene	%	96	94	94	96		9402647
D10-o-Xylene	%	98	98	98	100		9402647
D4-1,2-Dichloroethane	%	99	96	96	92		9402647
o-Terphenyl	%	110	109	108	108		9404894

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



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VERITAS

Bureau Veritas Job #: C4E7331

Report Date: 2024/05/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1381216

Sampler Initials: MM

TEST SUMMARY

Bureau Veritas ID: ZEN872
Sample ID: INTELEX 9189,PUMP SHACK-2024-05-10
Matrix: Water

Collected: 2024/05/10
Shipped:
Received: 2024/05/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9402036	N/A	2024/05/21	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	9399781	N/A	2024/05/21	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9406556	N/A	2024/05/23	Alina Dobreanu
Conductivity	AT	9402037	N/A	2024/05/21	Surinder Rai
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9402647	N/A	2024/05/21	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9404894	2024/05/21	2024/05/22	Mohammed Abdul Nafay Shoeb
Hardness (calculated as CaCO3)		9399785	N/A	2024/05/23	Automated Statchk
Low Level Chloride and Sulphate by AC	KONE	9411735	N/A	2024/05/23	Shanna McKort
Elements by CRC ICPMS (total)	ICP/MS	9410672	2024/05/22	2024/05/23	Megan Mak
Total Oil and Grease	BAL	9401815	2024/05/17	2024/05/18	Andrews Philip
pH	AT	9402029	2024/05/17	2024/05/21	Surinder Rai
Total Dissolved Solids	BAL	9400940	2024/05/17	2024/05/23	Darshan Patel
Low Level Total Suspended Solids	BAL	9401824	2024/05/17	2024/05/18	Darshan Patel
Turbidity	AT	9401958	N/A	2024/05/18	Kien Tran

Bureau Veritas ID: ZEN872 Dup
Sample ID: INTELEX 9189,PUMP SHACK-2024-05-10
Matrix: Water

Collected: 2024/05/10
Shipped:
Received: 2024/05/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9402647	N/A	2024/05/21	Lincoln Ramdahin

Bureau Veritas ID: ZEN873
Sample ID: INTELEX 9189,PUMP SHACK-2024-05-11
Matrix: Water

Collected: 2024/05/11
Shipped:
Received: 2024/05/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9402874	N/A	2024/05/22	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	9399781	N/A	2024/05/23	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9402494	N/A	2024/05/23	Geetee Noorzaad
Conductivity	AT	9402875	N/A	2024/05/22	Surinder Rai
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9402647	N/A	2024/05/21	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9404894	2024/05/21	2024/05/22	Mohammed Abdul Nafay Shoeb
Hardness (calculated as CaCO3)		9399785	N/A	2024/05/23	Automated Statchk
Low Level Chloride and Sulphate by AC	KONE	9411735	N/A	2024/05/23	Shanna McKort
Elements by CRC ICPMS (total)	ICP/MS	9410672	2024/05/22	2024/05/23	Megan Mak
Total Oil and Grease	BAL	9401815	2024/05/17	2024/05/18	Andrews Philip
pH	AT	9402873	2024/05/18	2024/05/22	Surinder Rai
Total Dissolved Solids	BAL	9402641	2024/05/18	2024/05/23	Darshan Patel
Low Level Total Suspended Solids	BAL	9400338	2024/05/18	2024/05/21	Tina Teng
Turbidity	AT	9402482	N/A	2024/05/21	Gurpartee KAU



**BUREAU
VERITAS**

Bureau Veritas Job #: C4E7331

Report Date: 2024/05/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1381216

Sampler Initials: MM

TEST SUMMARY

Bureau Veritas ID: ZEN874
Sample ID: INTELEX 9189,MIDDLE
Matrix: Water

Collected: 2024/05/11
Shipped:
Received: 2024/05/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9402874	N/A	2024/05/22	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	9399781	N/A	2024/05/23	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9402494	N/A	2024/05/23	Geetee Noorzaad
Conductivity	AT	9402875	N/A	2024/05/22	Surinder Rai
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9402647	N/A	2024/05/21	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9404894	2024/05/21	2024/05/22	Mohammed Abdul Nafay Shoeb
Hardness (calculated as CaCO3)		9399785	N/A	2024/05/23	Automated Statchk
Low Level Chloride and Sulphate by AC	KONE	9411735	N/A	2024/05/23	Shanna McKort
Elements by CRC ICPMS (total)	ICP/MS	9410672	2024/05/22	2024/05/23	Megan Mak
Total Oil and Grease	BAL	9401815	2024/05/17	2024/05/18	Andrews Philip
pH	AT	9402873	2024/05/18	2024/05/22	Surinder Rai
Total Dissolved Solids	BAL	9402641	2024/05/18	2024/05/23	Darshan Patel
Low Level Total Suspended Solids	BAL	9400338	2024/05/18	2024/05/21	Tina Teng
Turbidity	AT	9402487	N/A	2024/05/21	Gurpartee KAU

Bureau Veritas ID: ZEN875
Sample ID: INTELEX 9189,UPWIND
Matrix: Water

Collected: 2024/05/10
Shipped:
Received: 2024/05/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9402061	N/A	2024/05/22	Nachiketa Gohil
Carbonate, Bicarbonate and Hydroxide	CALC	9399781	N/A	2024/05/22	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9406556	N/A	2024/05/23	Alina Dobreanu
Conductivity	AT	9402062	N/A	2024/05/22	Nachiketa Gohil
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9402647	N/A	2024/05/21	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9404894	2024/05/21	2024/05/22	Mohammed Abdul Nafay Shoeb
Hardness (calculated as CaCO3)		9399785	N/A	2024/05/23	Automated Statchk
Low Level Chloride and Sulphate by AC	KONE	9411735	N/A	2024/05/23	Shanna McKort
Elements by CRC ICPMS (total)	ICP/MS	9410672	2024/05/22	2024/05/23	Megan Mak
Total Oil and Grease	BAL	9401815	2024/05/17	2024/05/18	Andrews Philip
pH	AT	9402063	2024/05/17	2024/05/22	Nachiketa Gohil
Total Dissolved Solids	BAL	9400940	2024/05/17	2024/05/23	Darshan Patel
Low Level Total Suspended Solids	BAL	9401824	2024/05/17	2024/05/18	Darshan Patel
Turbidity	AT	9401958	N/A	2024/05/18	Kien Tran

Bureau Veritas ID: ZEN876
Sample ID: INTELEX 9189,DOWNWIND
Matrix: Water

Collected: 2024/05/11
Shipped:
Received: 2024/05/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9402874	N/A	2024/05/22	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	9399781	N/A	2024/05/23	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9402494	N/A	2024/05/23	Geetee Noorzaad
Conductivity	AT	9402875	N/A	2024/05/22	Surinder Rai
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9402647	N/A	2024/05/21	Lincoln Ramdahin



BUREAU
VERITAS

Bureau Veritas Job #: C4E7331

Report Date: 2024/05/24

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1381216

Sampler Initials: MM

TEST SUMMARY

Bureau Veritas ID: ZEN876
Sample ID: INTELEX 9189,DOWNWIND
Matrix: Water

Collected: 2024/05/11
Shipped:
Received: 2024/05/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9404894	2024/05/21	2024/05/22	Mohammed Abdul Nafay Shueb
Hardness (calculated as CaCO ₃)		9399785	N/A	2024/05/23	Automated Statchk
Low Level Chloride and Sulphate by AC	KONE	9411735	N/A	2024/05/23	Shanna McKort
Elements by CRC ICPMS (total)	ICP/MS	9410672	2024/05/22	2024/05/23	Megan Mak
Total Oil and Grease	BAL	9401815	2024/05/17	2024/05/18	Andrews Philip
pH	AT	9402873	2024/05/18	2024/05/22	Surinder Rai
Total Dissolved Solids	BAL	9402641	2024/05/18	2024/05/23	Darshan Patel
Low Level Total Suspended Solids	BAL	9400338	2024/05/18	2024/05/21	Tina Teng
Turbidity	AT	9402487	N/A	2024/05/21	Gurparteek KAUR



GENERAL COMMENTS

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

Package 1	10.0°C
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Results relate only to the items tested.



Bureau Veritas Job #: C4E7331
Report Date: 2024/05/24

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: MM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9402647	1,4-Difluorobenzene	2024/05/21	99	70 - 130	99	70 - 130	99	%		
9402647	4-Bromofluorobenzene	2024/05/21	99	70 - 130	97	70 - 130	94	%		
9402647	D10-o-Xylene	2024/05/21	102	70 - 130	99	70 - 130	98	%		
9402647	D4-1,2-Dichloroethane	2024/05/21	97	70 - 130	102	70 - 130	102	%		
9404894	o-Terphenyl	2024/05/21	112	60 - 130	113	60 - 130	109	%		
9400338	Total Suspended Solids	2024/05/21			95	80 - 120	<1	mg/L	NC	20
9400940	Total Dissolved Solids	2024/05/23			100	80 - 120	<10	mg/L	0.70	20
9401815	Total Oil & Grease	2024/05/18			99	80 - 110	<0.50	mg/L	0.25	25
9401824	Total Suspended Solids	2024/05/18			101	80 - 120	<1	mg/L	9.5	20
9401958	Turbidity	2024/05/18			100	80 - 120	<0.1	NTU	15	20
9402029	pH	2024/05/21			102	98 - 103			0.24	N/A
9402036	Alkalinity (Total as CaCO3)	2024/05/21			94	85 - 115	<1.0	mg/L	1.2	20
9402037	Conductivity	2024/05/21			102	85 - 115	0.000400	mS/cm	0.65	10
9402061	Alkalinity (Total as CaCO3)	2024/05/22			95	85 - 115	<1.0	mg/L	3.2	20
9402062	Conductivity	2024/05/22			102	85 - 115	<0.001	mS/cm	0.18	10
9402063	pH	2024/05/22			101	98 - 103			1.1	N/A
9402482	Turbidity	2024/05/21			101	80 - 120	<0.1	NTU	12	20
9402487	Turbidity	2024/05/21			103	80 - 120	<0.1	NTU	5.5	20
9402494	Dissolved Chloride (Cl-)	2024/05/23	NC	80 - 120	101	80 - 120	<1.0	mg/L	20	20
9402641	Total Dissolved Solids	2024/05/23			102	80 - 120	<10	mg/L	0.45	20
9402647	Benzene	2024/05/21	95	50 - 140	95	50 - 140	<0.20	ug/L	NC	30
9402647	Ethylbenzene	2024/05/21	100	50 - 140	98	50 - 140	<0.20	ug/L	NC	30
9402647	F1 (C6-C10) - BTEX	2024/05/21					<25	ug/L	NC	30
9402647	F1 (C6-C10)	2024/05/21	101	60 - 140	101	60 - 140	<25	ug/L	NC	30
9402647	o-Xylene	2024/05/21	98	50 - 140	96	50 - 140	<0.20	ug/L	2.1	30
9402647	p+m-Xylene	2024/05/21	92	50 - 140	90	50 - 140	<0.40	ug/L	5.5	30
9402647	Toluene	2024/05/21	91	50 - 140	90	50 - 140	<0.20	ug/L	NC	30
9402647	Total Xylenes	2024/05/21					<0.40	ug/L	2.3	30
9402873	pH	2024/05/22			102	98 - 103			0.49	N/A
9402874	Alkalinity (Total as CaCO3)	2024/05/22			97	85 - 115	<1.0	mg/L	1.7	20
9402875	Conductivity	2024/05/22			98	85 - 115	<0.001	mS/cm	0.30	10
9404894	F2 (C10-C16 Hydrocarbons)	2024/05/22	115	60 - 140	111	60 - 140	<100	ug/L	NC	30



Bureau Veritas Job #: C4E7331
Report Date: 2024/05/24

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: MM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9404894	F3 (C16-C34 Hydrocarbons)	2024/05/22	122	60 - 140	122	60 - 140	<200	ug/L	NC	30
9404894	F4 (C34-C50 Hydrocarbons)	2024/05/22	113	60 - 140	111	60 - 140	<200	ug/L	5.4	30
9406556	Dissolved Chloride (Cl-)	2024/05/23	NC	80 - 120	97	80 - 120	<1.0	mg/L	1.8	20
9410672	Total Aluminum (Al)	2024/05/23	95	80 - 120	97	80 - 120	<0.0030	mg/L		
9410672	Total Antimony (Sb)	2024/05/23	NC	80 - 120	97	80 - 120	<0.00050	mg/L		
9410672	Total Arsenic (As)	2024/05/23	100	80 - 120	97	80 - 120	<0.00010	mg/L		
9410672	Total Barium (Ba)	2024/05/23	96	80 - 120	93	80 - 120	<0.0010	mg/L		
9410672	Total Beryllium (Be)	2024/05/23	96	80 - 120	97	80 - 120	<0.00010	mg/L		
9410672	Total Cadmium (Cd)	2024/05/23	96	80 - 120	95	80 - 120	<0.000010	mg/L		
9410672	Total Chromium (Cr)	2024/05/23	97	80 - 120	98	80 - 120	<0.0010	mg/L		
9410672	Total Cobalt (Co)	2024/05/23	93	80 - 120	94	80 - 120	<0.00020	mg/L		
9410672	Total Copper (Cu)	2024/05/23	92	80 - 120	94	80 - 120	<0.00050	mg/L		
9410672	Total Iron (Fe)	2024/05/23	95	80 - 120	91	80 - 120	<0.010	mg/L		
9410672	Total Lead (Pb)	2024/05/23	99	80 - 120	97	80 - 120	<0.00020	mg/L		
9410672	Total Lithium (Li)	2024/05/23	92	80 - 120	86	80 - 120	<0.0020	mg/L		
9410672	Total Manganese (Mn)	2024/05/23	NC	80 - 120	96	80 - 120	<0.0010	mg/L		
9410672	Total Molybdenum (Mo)	2024/05/23	107	80 - 120	100	80 - 120	<0.0010	mg/L		
9410672	Total Nickel (Ni)	2024/05/23	91	80 - 120	96	80 - 120	<0.0010	mg/L		
9410672	Total Selenium (Se)	2024/05/23	100	80 - 120	100	80 - 120	<0.00010	mg/L		
9410672	Total Strontium (Sr)	2024/05/23	NC	80 - 120	96	80 - 120	<0.0010	mg/L		
9410672	Total Thallium (Tl)	2024/05/23	99	80 - 120	96	80 - 120	<0.000010	mg/L		
9410672	Total Tin (Sn)	2024/05/23	98	80 - 120	95	80 - 120	<0.0050	mg/L		
9410672	Total Titanium (Ti)	2024/05/23	94	80 - 120	98	80 - 120	<0.0050	mg/L		
9410672	Total Uranium (U)	2024/05/23	108	80 - 120	99	80 - 120	<0.00010	mg/L		
9410672	Total Vanadium (V)	2024/05/23	99	80 - 120	97	80 - 120	<0.0050	mg/L		
9410672	Total Zinc (Zn)	2024/05/23	92	80 - 120	96	80 - 120	<0.0050	mg/L		



BUREAU
VERITAS

Bureau Veritas Job #: C4E7331

Report Date: 2024/05/24

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: MM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9411735	Dissolved Sulphate (SO4)	2024/05/23	NC	80 - 120	105	80 - 120	<0.50	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.

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



BUREAU
VERITAS

Bureau Veritas Job #: C4E7331
Report Date: 2024/05/24

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: MM

VALIDATION SIGNATURE PAGE

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

Cristina Carriere, Senior Scientific Specialist



Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas Job #: C4E7331
Report Date: 2024/05/24

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: MM

Exceedance Summary Table – Metal Mining Effluent Reg
Result Exceedances

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



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 05-19-2024		REPORT TIME 15:00		<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR 05-18-2024		OCCURRENCE TIME 16:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01			WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project				REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21			LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
	PRODUCT SPILLED Suspended Solids		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES To be determined		U.N. NUMBER N/A	
H	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A		U.N. NUMBER N/A	
	SPILL SOURCE Snow melt containing sediment		SPILL CAUSE Freshet		AREA OF CONTAMINATION IN SQUARE METRES Unknown	
I	FACTORS AFFECTING SPILL OR RECOVERY None		DESCRIBE ANY ASSISTANCE REQUIRED None		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None	
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS While conducting a routine inspection, runoff was observed flowing through the water management structures at monitoring station MEL-SR-1 at Itivia. Turbidity field readings show results indicative that TSS concentrations could exceed the NWB Water License 2AM-MEL1631 criteria for TSS. Sediment and erosion controls were deployed to mitigate the transport of sediment. This report is submitted as due diligence, as the water sample results from the laboratory have not yet been received. Location of spill: 62 47'59.85"N, 92 5'35.63"W. The closest water body (Melvin Bay) is approximately 75 m south. Pursuant to Part H, Section 8c of the Water License, a follow-up report will be issued after a closer investigation is completed.					
L	REPORTED TO SPILL LINE BY Alex L. Bourassa		POSITION Env. Coordinator		EMPLOYER AEM	
	LOCATION CALLING FROM Meliadine		TELEPHONE 819-759-3555			
M	ANY ALTERNATE CONTACT Randy Schwandt		POSITION Env. Coordinator		EMPLOYER AEM	
	ALTERNATE CONTACT LOCATION Meliadine		ALTERNATE TELEPHONE 819-759-3555			
REPORT LINE USE ONLY						
N	RECEIVED AT SPILL LINE BY		POSITION STATION OPERATOR		EMPLOYER	
	LOCATION CALLED YELLOWKNIFE, NT		REPORT LINE NUMBER (867) 920-8130			
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN			FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME		CONTACT TIME		REMARKS
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						



June 15th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-168 – MEL-SR-1 Surface Water Runoff at the Meliadine Gold Mine, Itivia Site

On May 18th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a potential Total Suspended Solids (TSS) exceedance at the Meliadine Gold Mine, Itivia site (spill location coordinates: 63° 47' 59.85" N, 92° 5' 35.63" W).

This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with the following:

- Nunavut Water Board 2AM-MEL1631 Water Licence, Part H, Item 8c.
- subsections 38(7) of the Fisheries Act.

Description of Incident

On May 18th, 2024, at approximately 16:00, surface runoff was observed at monitoring station MEL-SR-1, located at the south end of the Itivia site. Field turbidity measurements indicated a potential exceedance of the TSS effluent quality limits listed under Part D, Item 18 of the 2AM-MEL1631 Water Licence. Samples were collected at monitoring station MEL-SR-1 and sent to an external laboratory for analysis. Upstream monitoring indicated that sediment-laden runoff was entering the Itivia lease boundary and was not a result of the activities or infrastructure within the Itivia lease. Analytical results reported a concentration of 330 mg/L TSS, above the allowable TSS effluent quality limits listed under Part D, Item 18 of the 2AM-MEL1631 Water Licence.

Discharge from the MEL-SR-1 monitoring location combines surface runoff from Rankin Inlet and the Itivia site. Runoff passes through a series of rock check dams and a settling basin designed to



Figure 1: Location of the MEL-SR-1 and upstream monitoring locations.

Response and Remediation

In response to the elevated field turbidity readings and as per the Sediment and Erosion Management Plan, erosion and sediment control (ESC) measures were deployed to complement

the existing rock check dams and settling basin, to reduce the sediment load in the water flowing through the Itivia site. Combinations of ESC measures were installed and maintained at specific locations where erosion and sedimentation were observed on the evening of May 18th. These installations were monitored and maintained throughout the runoff event and the following two days after, on May 19th and May 20th. Both visual and analytical monitoring demonstrated the efficacy of these measures in reducing TSS at the MEL-SR-1 monitoring location.

Internal laboratory and external, accredited laboratory analytical results for part of the monitoring duration are presented in Table 1. The Certificate of Analysis for the regulatory samples (May 18th and May 19th, 2024) can be found in Appendix B. Field turbidity readings were also used to measure effectiveness of ESC measures and are summarized in Appendix C. Accompanying the field turbidity readings are estimated TSS measurements based on a linear relationship between field turbidity and laboratory TSS from historic MEL-SR-1 analytical results.

Table 1: Results from TSS analysis of May 18th and 19th samples.

Date	Result type	Total Suspended Solids (mg/L)			2AM-MEL1631 Part D, Item 18	
		Itivia Upstream West	Itivia Upstream East	MEL-SR-1	Maximum Monthly Mean Concentration	Maximum Concentration in a Grab Sample
2024-05-18	Internal Lab	206	- ¹	300	50	100
	External Lab	160	- ¹	330		
2024-05-19	Internal Lab	- ²	278	71		
	External Lab	- ²	300	54		

¹ Snow cover and low flow prevented a representative sample from being collected.

² Sample was not collected as ESC controls had successfully reduced TSS at MEL-SR-1.

The monthly compliance samples collected on May 18th and May 19th, 2024, resulted in a monthly mean TSS concentration above 50 mg/L. However, based on estimated TSS concentrations from field turbidity readings collected at MEL-SR-1 on May 20th, 2024, (Appendix C), it is expected that continued laboratory analytical sampling of runoff at this station would have reduced the monthly mean TSS concentration.

Root Cause and Corrective Measures

An incident assessment was conducted soon after the incident occurred to determine the root cause and contributing factors. The assessment concluded with the following:

- Runoff entering the Itivia has elevated TSS levels and is outside of Agnico Eagle's control.






The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- The ESCs put in place at the Itivia site have demonstrated efficacy in the reduction of TSS concentrations. Agnico Eagle will continue to monitor and maintain these controls as required during freshet and the open water season.
- In response to the recent incident, Agnico Eagle has engaged with the Senior Administrative Officer of Rankin Inlet to devise an effective strategy to manage water in this area.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix A – Photos



Photo 1. Downstream of Itivia Upstream West.



Photo 2. Upstream of Itivia Upstream East (past normal sampling location).



Photo 3. Downstream of Itivia Culvert on 2024-05-18 (during exceedance).



Photo 4. Straw logs placed between Itivia Upstream West and Itivia Culvert to mitigate the sediment loading.



Photo 5. Downstream of Itivia Culvert on 2024-05-19 (after exceedance).

Appendix B – Certificate of Analysis



Your P.O. #: OL-1381216
Site Location: Meliadine
Your C.O.C. #: 899776

Attention: Reporting

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

Report Date: 2024/05/28
Report #: R8167477
Version: 3 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F3562

Received: 2024/05/22, 09:06

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	4	N/A	2024/05/23	CAM SOP-00448	SM 24 2320 B m
Chloride by Automated Colourimetry	4	N/A	2024/05/24	CAM SOP-00463	SM 24 4500-Cl E m
Field Measured Dissolved Oxygen (3)	4	N/A	2024/05/23		Field pH Meter
Field Measured Conductivity (3)	4	N/A	2024/05/23		Field Meter
Fluoride	4	2024/05/23	2024/05/23	CAM SOP-00449	SM 24 4500-F C m
Mercury in Water by CVAA	4	2024/05/24	2024/05/24	CAM SOP-00453	EPA 7470A m
Low Level Chloride and Sulphate by AC (1)	4	N/A	2024/05/24	AB SOP-00020	SM24-4500-Cl/SO4-E m
Cyanide, Strong Acid Dissociable (SAD) (1)	4	2024/05/28	2024/05/28	CAL SOP-00270	SM 24 4500-CN m
Hardness (calculated as CaCO3) (2)	4	N/A	2024/05/25	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (2)	4	N/A	2024/05/25	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (dissolved) (2)	4	N/A	2024/05/24	BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (2)	4	2024/05/23	2024/05/25	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total) (2)	4	2024/05/24	2024/05/25	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Silica (Reactive) (1)	4	N/A	2024/05/28	AB SOP-00011	EPA 370.1 R1978 m
Total Ammonia-N	4	N/A	2024/05/24	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (4)	4	N/A	2024/05/24	CAM SOP-00440	SM 24 4500-NO3I/NO2B
Total Oil and Grease	4	2024/05/23	2024/05/24	CAM SOP-00326	EPA1664B m, SM5520B m
pH (5)	4	2024/05/23	2024/05/23	CAM SOP-00413	SM 24th - 4500H+ B
Field Measured pH (3)	4	N/A	2024/05/23		Field pH Meter
Orthophosphate	4	N/A	2024/05/24	CAM SOP-00461	SM 24 4500-P E
Calculated Total Dissolved Solids	4	N/A	2024/05/28		Auto Calc
Total Dissolved Solids	4	2024/05/23	2024/05/24	CAM SOP-00428	SM 24 2540C m
Field Temperature (3)	4	N/A	2024/05/23		Field Thermometer
Total Phosphorus (Colourimetric)	4	2024/05/23	2024/05/23	CAM SOP-00407	SM 24 4500-P I
Low Level Total Suspended Solids	4	2024/05/23	2024/05/24	CAM SOP-00428	SM 24 2540D m
Turbidity	4	N/A	2024/05/23	CAM SOP-00417	SM 24 2130 B

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau



Your P.O. #: OL-1381216
Site Location: Meliadine
Your C.O.C. #: 899776

Attention: Reporting

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

Report Date: 2024/05/28
Report #: R8167477
Version: 3 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F3562

Received: 2024/05/22, 09:06

Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

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 Calgary (19th), 4000 19th Street NE, Calgary, AB, T2E 6P8

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

(3) This is a field test, therefore, the results relate to items that were not analysed at Bureau Veritas.

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

(5) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed 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 and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."



Your P.O. #: OL-1381216
Site Location: Meliadine
Your C.O.C. #: 899776

Attention: Reporting

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

Report Date: 2024/05/28
Report #: R8167477
Version: 3 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F3562

Received: 2024/05/22, 09:06

Encryption Key

Katherine Szozda

Katherine Szozda
Project Manager
28 May 2024 18:52:49

Please direct all questions regarding this Certificate of Analysis to:

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

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



**BUREAU
VERITAS**

Bureau Veritas Job #: C4F3562

Report Date: 2024/05/28

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: LK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZFV216			ZFV216			ZFV217		
Sampling Date		2024/05/18 16:39			2024/05/18 16:39			2024/05/18 17:04		
COC Number		899776			899776			899776		
	UNITS	MEL-SR1	RDL	QC Batch	MEL-SR1 Lab-Dup	RDL	QC Batch	MEL-SR1 US W	RDL	QC Batch

Calculated Parameters

Calculated TDS	mg/L	230	1.0	9408880				220	1.0	9408880
Dissolved Hardness (CaCO ₃)	mg/L	144	0.50	9415892				162	0.50	9415892

Field Measurements

Field Measured Conductivity	uS/cm	391.8	N/A	ONSITE				297.6	N/A	ONSITE
Field Measured Dissolved oxygen	mg/L	11.02	N/A	ONSITE				13.05	N/A	ONSITE
Field Temperature	Celsius	11	N/A	ONSITE				7.6	N/A	ONSITE
Field Measured pH	pH	6.89		ONSITE				7.25		ONSITE

Inorganics

Total Ammonia-N	mg/L	0.16	0.050	9409289				0.054	0.050	9409289
Strong Acid Dissoc. Cyanide (CN)	mg/L	0.00065	0.00050	9419351				<0.00050	0.00050	9419351
Total Dissolved Solids	mg/L	265	10	9409509				220	10	9409509
Fluoride (F-)	mg/L	<0.10	0.10	9409288				<0.10	0.10	9409288
Orthophosphate (P)	mg/L	<0.010	0.010	9410253				<0.010	0.010	9410253
pH	pH	7.82		9409286				7.96		9409286
Total Phosphorus	mg/L	0.11	0.020	9409297	0.10	0.020	9409297	0.093	0.020	9409297
Reactive Silica (SiO ₂)	mg/L	1.8	0.050	9419253	1.7	0.050	9419253	3.5	0.050	9419253
Total Suspended Solids	mg/L	330	5	9409098				160	1	9409098
Turbidity	NTU	46	0.1	9409306				35	0.1	9409306
Alkalinity (Total as CaCO ₃)	mg/L	58	1.0	9409283				90	1.0	9409283
Dissolved Chloride (Cl-)	mg/L	53	1.0	9410241				32	1.0	9410241
Nitrite (N)	mg/L	<0.010	0.010	9409070				<0.010	0.010	9409070
Nitrate (N)	mg/L	0.17	0.10	9409070				0.18	0.10	9409070
Dissolved Sulphate (SO ₄)	mg/L	59	0.50	9419252				44	0.50	9419252
Nitrate + Nitrite (N)	mg/L	0.17	0.10	9409070				0.18	0.10	9409070

Metals

Dissolved Aluminum (Al)	mg/L	0.0210	0.0030	9415894				0.0251	0.0030	9415894
Total Aluminum (Al)	mg/L	4.96	0.0030	9415896				1.57	0.0030	9415896
Dissolved Arsenic (As)	mg/L	0.00188	0.00010	9415894				0.00100	0.00010	9415894

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable



**BUREAU
VERITAS**

Bureau Veritas Job #: C4F3562
Report Date: 2024/05/28

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: LK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZFV216			ZFV216			ZFV217		
Sampling Date		2024/05/18 16:39			2024/05/18 16:39			2024/05/18 17:04		
COC Number		899776			899776			899776		
	UNITS	MEL-SR1	RDL	QC Batch	MEL-SR1 Lab-Dup	RDL	QC Batch	MEL-SR1 US W	RDL	QC Batch
Total Arsenic (As)	mg/L	0.0152	0.00010	9415896				0.00327	0.00010	9415896
Dissolved Barium (Ba)	mg/L	0.0212	0.0010	9415894				0.0424	0.0010	9415894
Total Barium (Ba)	mg/L	0.0544	0.0010	9415896				0.0499	0.0010	9415896
Dissolved Cadmium (Cd)	mg/L	0.000013	0.000010	9415894				0.000019	0.000010	9415894
Total Cadmium (Cd)	mg/L	0.000050	0.000010	9415896				0.000036	0.000010	9415896
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	9415894				<0.0010	0.0010	9415894
Total Chromium (Cr)	mg/L	0.0316	0.0010	9415896				0.0134	0.0010	9415896
Dissolved Copper (Cu)	mg/L	0.00336	0.00020	9415894				0.00441	0.00020	9415894
Total Copper (Cu)	mg/L	0.0211	0.00050	9415896				0.0110	0.00050	9415896
Dissolved Iron (Fe)	mg/L	0.0181	0.0050	9415894				0.0697	0.0050	9415894
Total Iron (Fe)	mg/L	9.13	0.010	9415896				3.47	0.010	9415896
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	9415894				<0.00020	0.00020	9415894
Total Lead (Pb)	mg/L	0.00419	0.00020	9415896				0.00104	0.00020	9415896
Dissolved Manganese (Mn)	mg/L	0.0756	0.0010	9415894				0.175	0.0010	9415894
Total Manganese (Mn)	mg/L	0.177	0.0010	9415896				0.188	0.0010	9415896
Dissolved Molybdenum (Mo)	mg/L	<0.0010	0.0010	9415894				0.0011	0.0010	9415894
Total Molybdenum (Mo)	mg/L	<0.0010	0.0010	9415896				<0.0010	0.0010	9415896
Dissolved Nickel (Ni)	mg/L	0.0033	0.0010	9415894				0.0038	0.0010	9415894
Total Nickel (Ni)	mg/L	0.0221	0.0010	9415896				0.0133	0.0010	9415896
Dissolved Selenium (Se)	mg/L	<0.00010	0.00010	9415894				<0.00010	0.00010	9415894
Total Selenium (Se)	mg/L	0.00014	0.00010	9415896				0.00011	0.00010	9415896
Dissolved Silver (Ag)	mg/L	<0.000020	0.000020	9415894				<0.000020	0.000020	9415894
Total Silver (Ag)	mg/L	0.000029	0.000020	9415896				0.000046	0.000020	9415896
Dissolved Thallium (Tl)	mg/L	<0.000010	0.000010	9415894				0.000010	0.000010	9415894
Total Titanium (Ti)	mg/L	0.208	0.0050	9415896				0.0690	0.0050	9415896
Dissolved Zinc (Zn)	mg/L	0.0055	0.0050	9415894				<0.0050	0.0050	9415894
Total Zinc (Zn)	mg/L	0.0473	0.0050	9415896				0.0141	0.0050	9415896
Dissolved Calcium (Ca)	mg/L	45.7	0.050	9415893				56.6	0.050	9415893
Total Calcium (Ca)	mg/L	43.4	0.050	9415895				48.9	0.050	9415895
Dissolved Magnesium (Mg)	mg/L	7.37	0.050	9415893				5.11	0.050	9415893

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C4F3562
Report Date: 2024/05/28

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: LK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZFV216			ZFV216			ZFV217		
Sampling Date		2024/05/18 16:39			2024/05/18 16:39			2024/05/18 17:04		
COC Number		899776			899776			899776		
	UNITS	MEL-SR1	RDL	QC Batch	MEL-SR1 Lab-Dup	RDL	QC Batch	MEL-SR1 US W	RDL	QC Batch
Total Magnesium (Mg)	mg/L	9.79	0.050	9415895				5.78	0.050	9415895
Dissolved Potassium (K)	mg/L	5.57	0.050	9415893				9.95	0.050	9415893
Total Potassium (K)	mg/L	5.64	0.050	9415895				8.17	0.050	9415895
Dissolved Sodium (Na)	mg/L	23.8	0.050	9415893				13.6	0.050	9415893
Total Sodium (Na)	mg/L	20.1	0.050	9415895				11.1	0.050	9415895
Petroleum Hydrocarbons										
Total Oil & Grease	mg/L	2.4	0.50	9409774				<0.50	0.50	9409774
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C4F3562

Report Date: 2024/05/28

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: LK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZFV217			ZFV218		ZFV219		
Sampling Date		2024/05/18 17:04			2024/05/19 17:31		2024/05/19 16:50		
COC Number		899776			899776		899776		
	UNITS	MEL-SR1 US W Lab-Dup	RDL	QC Batch	MEL-SR1	RDL	MEL-SR1 US E	RDL	QC Batch

Calculated Parameters									
Calculated TDS	mg/L				270	1.0	150	1.0	9408880
Dissolved Hardness (CaCO ₃)	mg/L				174	0.50	73.9	0.50	9415892

Field Measurements									
Field Measured Conductivity	uS/cm				459.9	N/A	257.3	N/A	ONSITE
Field Measured Dissolved oxygen	mg/L				13.17	N/A	13.76	N/A	ONSITE
Field Temperature	Celsius				11.6	N/A	8.8	N/A	ONSITE
Field Measured pH	pH				6.76		7.46		ONSITE

Inorganics									
Total Ammonia-N	mg/L	0.054	0.050	9409289	0.22	0.050	0.25	0.050	9409289
Strong Acid Dissoc. Cyanide (CN)	mg/L				0.00062	0.00050	<0.00050	0.00050	9419351
Total Dissolved Solids	mg/L				315	10	145	10	9409509
Fluoride (F ⁻)	mg/L				<0.10	0.10	<0.10	0.10	9409288
Orthophosphate (P)	mg/L				<0.010	0.010	<0.010	0.010	9410253
pH	pH				7.77		7.69		9409286
Total Phosphorus	mg/L				0.052	0.020	0.16	0.020	9409297
Reactive Silica (SiO ₂)	mg/L				2.1	0.050	1.0	0.050	9419253
Total Suspended Solids	mg/L				54	1	300	5	9409098
Turbidity	NTU				4.3	0.1	78	0.1	9409306
Alkalinity (Total as CaCO ₃)	mg/L				60	1.0	36	1.0	9409283
Dissolved Chloride (Cl ⁻)	mg/L				58	1.0	30	1.0	9410241
Nitrite (N)	mg/L				<0.010	0.010	<0.010	0.010	9409070
Nitrate (N)	mg/L				0.15	0.10	0.74	0.10	9409070
Dissolved Sulphate (SO ₄)	mg/L				71	0.50	48	0.50	9419252
Nitrate + Nitrite (N)	mg/L				0.15	0.10	0.74	0.10	9409070

Metals									
Dissolved Aluminum (Al)	mg/L				0.0096	0.0030	0.0217	0.0030	9415894
Total Aluminum (Al)	mg/L				0.358	0.0030	4.89	0.0030	9415896
Dissolved Arsenic (As)	mg/L				0.00221	0.00010	0.00136	0.00010	9415894

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable



BUREAU
VERITAS

Bureau Veritas Job #: C4F3562
Report Date: 2024/05/28

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: LK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZFV217			ZFV218		ZFV219		
Sampling Date		2024/05/18 17:04			2024/05/19 17:31		2024/05/19 16:50		
COC Number		899776			899776		899776		
	UNITS	MEL-SR1 US W Lab-Dup	RDL	QC Batch	MEL-SR1	RDL	MEL-SR1 US E	RDL	QC Batch
Total Arsenic (As)	mg/L				0.00340	0.00010	0.00801	0.00010	9415896
Dissolved Barium (Ba)	mg/L				0.0253	0.0010	0.0133	0.0010	9415894
Total Barium (Ba)	mg/L				0.0231	0.0010	0.0538	0.0010	9415896
Dissolved Cadmium (Cd)	mg/L				0.000011	0.000010	0.000011	0.000010	9415894
Total Cadmium (Cd)	mg/L				0.000017	0.000010	0.000076	0.000010	9415896
Dissolved Chromium (Cr)	mg/L				<0.0010	0.0010	<0.0010	0.0010	9415894
Total Chromium (Cr)	mg/L				0.0022	0.0010	0.0296	0.0010	9415896
Dissolved Copper (Cu)	mg/L				0.00318	0.00020	0.00539	0.00020	9415894
Total Copper (Cu)	mg/L				0.00426	0.00050	0.0262	0.00050	9415896
Dissolved Iron (Fe)	mg/L				0.0279	0.0050	0.0068	0.0050	9415894
Total Iron (Fe)	mg/L				0.717	0.010	8.09	0.010	9415896
Dissolved Lead (Pb)	mg/L				<0.00020	0.00020	<0.00020	0.00020	9415894
Total Lead (Pb)	mg/L				0.00065	0.00020	0.00354	0.00020	9415896
Dissolved Manganese (Mn)	mg/L				0.248	0.0010	0.0194	0.0010	9415894
Total Manganese (Mn)	mg/L				0.205	0.0010	0.123	0.0010	9415896
Dissolved Molybdenum (Mo)	mg/L				0.0010	0.0010	<0.0010	0.0010	9415894
Total Molybdenum (Mo)	mg/L				<0.0010	0.0010	<0.0010	0.0010	9415896
Dissolved Nickel (Ni)	mg/L				0.0058	0.0010	0.0013	0.0010	9415894
Total Nickel (Ni)	mg/L				0.0064	0.0010	0.0204	0.0010	9415896
Dissolved Selenium (Se)	mg/L				0.00011	0.00010	<0.00010	0.00010	9415894
Total Selenium (Se)	mg/L				<0.00010	0.00010	0.00012	0.00010	9415896
Dissolved Silver (Ag)	mg/L				<0.000020	0.000020	<0.000020	0.000020	9415894
Total Silver (Ag)	mg/L				<0.000020	0.000020	0.000026	0.000020	9415896
Dissolved Thallium (Tl)	mg/L				<0.000010	0.000010	<0.000010	0.000010	9415894
Total Titanium (Ti)	mg/L				0.0141	0.0050	0.225	0.0050	9415896
Dissolved Zinc (Zn)	mg/L				0.0128	0.0050	<0.0050	0.0050	9415894
Total Zinc (Zn)	mg/L				0.0180	0.0050	0.0398	0.0050	9415896
Dissolved Calcium (Ca)	mg/L				55.3	0.050	23.9	0.050	9415893
Total Calcium (Ca)	mg/L				42.7	0.050	24.0	0.050	9415895
Dissolved Magnesium (Mg)	mg/L				8.72	0.050	3.44	0.050	9415893
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

Bureau Veritas Job #: C4F3562

Report Date: 2024/05/28

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: LK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZFV217			ZFV218		ZFV219		
Sampling Date		2024/05/18 17:04			2024/05/19 17:31		2024/05/19 16:50		
COC Number		899776			899776		899776		
	UNITS	MEL-SR1 US W Lab-Dup	RDL	QC Batch	MEL-SR1	RDL	MEL-SR1 US E	RDL	QC Batch
Total Magnesium (Mg)	mg/L				7.32	0.050	6.56	0.050	9415895
Dissolved Potassium (K)	mg/L				7.57	0.050	3.15	0.050	9415893
Total Potassium (K)	mg/L				5.82	0.050	3.55	0.050	9415895
Dissolved Sodium (Na)	mg/L				29.7	0.050	18.0	0.050	9415893
Total Sodium (Na)	mg/L				23.1	0.050	14.9	0.050	9415895
Petroleum Hydrocarbons									
Total Oil & Grease	mg/L				1.8	0.50	0.50	0.50	9409774
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

Bureau Veritas Job #: C4F3562
Report Date: 2024/05/28

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: LK

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		ZFV216	ZFV217	ZFV218	ZFV219		
Sampling Date		2024/05/18 16:39	2024/05/18 17:04	2024/05/19 17:31	2024/05/19 16:50		
COC Number		899776	899776	899776	899776		
	UNITS	MEL-SR1	MEL-SR1 US W	MEL-SR1	MEL-SR1 US E	RDL	QC Batch
Metals							
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	9411390
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

Bureau Veritas Job #: C4F3562

Report Date: 2024/05/28

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: LK

TEST SUMMARY

Bureau Veritas ID: ZFV216
Sample ID: MEL-SR1
Matrix: Water

Collected: 2024/05/18
Shipped:
Received: 2024/05/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9409283	N/A	2024/05/23	Nachiketa Gohil
Chloride by Automated Colourimetry	SKAL	9410241	N/A	2024/05/24	Massarat Jan
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Fluoride	ISE	9409288	2024/05/23	2024/05/23	Nachiketa Gohil
Mercury in Water by CVAA	CV/AA	9411390	2024/05/24	2024/05/24	Gagandeep Rai
Low Level Chloride and Sulphate by AC	KONE	9419252	N/A	2024/05/24	Tyler Orr
Cyanide, Strong Acid Dissociable (SAD)	TECH/UVVS	9419351	2024/05/28	2024/05/28	Ming Dong
Hardness (calculated as CaCO ₃)	CALC	9415892	N/A	2024/05/25	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9415893	N/A	2024/05/25	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	9415894	N/A	2024/05/24	Megan Mak
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9415895	2024/05/25	2024/05/25	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	9415896	2024/05/24	2024/05/25	Megan Mak
Silica (Reactive)	KONE	9419253	N/A	2024/05/28	Tyler Orr
Total Ammonia-N	LACH/NH ₄	9409289	N/A	2024/05/24	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9409070	N/A	2024/05/24	Jinal Chavda
Total Oil and Grease	BAL	9409774	2024/05/23	2024/05/24	Andrews Philip
pH	AT	9409286	2024/05/23	2024/05/23	Nachiketa Gohil
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Orthophosphate	KONE	9410253	N/A	2024/05/24	Massarat Jan
Calculated Total Dissolved Solids	CALC	9408880	N/A	2024/05/28	Automated Statchk
Total Dissolved Solids	BAL	9409509	2024/05/23	2024/05/24	Darshan Patel
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Total Phosphorus (Colourimetric)	SKAL/P	9409297	2024/05/23	2024/05/23	Muskan
Low Level Total Suspended Solids	BAL	9409098	2024/05/23	2024/05/24	Madhav Somani
Turbidity	AT	9409306	N/A	2024/05/23	Gurpartee KAU

Bureau Veritas ID: ZFV216 Dup
Sample ID: MEL-SR1
Matrix: Water

Collected: 2024/05/18
Shipped:
Received: 2024/05/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Silica (Reactive)	KONE	9419253	N/A	2024/05/28	Tyler Orr
Total Phosphorus (Colourimetric)	SKAL/P	9409297	2024/05/23	2024/05/23	Muskan

Bureau Veritas ID: ZFV217
Sample ID: MEL-SR1 US W
Matrix: Water

Collected: 2024/05/18
Shipped:
Received: 2024/05/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9409283	N/A	2024/05/23	Nachiketa Gohil
Chloride by Automated Colourimetry	SKAL	9410241	N/A	2024/05/24	Massarat Jan
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel



BUREAU
VERITAS

Bureau Veritas Job #: C4F3562

Report Date: 2024/05/28

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: LK

TEST SUMMARY

Bureau Veritas ID: ZFV217
Sample ID: MEL-SR1 US W
Matrix: Water

Collected: 2024/05/18
Shipped:
Received: 2024/05/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	9409288	2024/05/23	2024/05/23	Nachiketa Gohil
Mercury in Water by CVAA	CV/AA	9411390	2024/05/24	2024/05/24	Gagandeep Rai
Low Level Chloride and Sulphate by AC	KONE	9419252	N/A	2024/05/24	Tyler Orr
Cyanide, Strong Acid Dissociable (SAD)	TECH/UVVS	9419351	2024/05/28	2024/05/28	Ming Dong
Hardness (calculated as CaCO ₃)	CALC	9415892	N/A	2024/05/25	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9415893	N/A	2024/05/25	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	9415894	N/A	2024/05/24	Megan Mak
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9415895	2024/05/25	2024/05/25	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	9415896	2024/05/24	2024/05/25	Megan Mak
Silica (Reactive)	KONE	9419253	N/A	2024/05/28	Tyler Orr
Total Ammonia-N	LACH/NH ₄	9409289	N/A	2024/05/24	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9409070	N/A	2024/05/24	Jinal Chavda
Total Oil and Grease	BAL	9409774	2024/05/23	2024/05/24	Andrews Philip
pH	AT	9409286	2024/05/23	2024/05/23	Nachiketa Gohil
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Orthophosphate	KONE	9410253	N/A	2024/05/24	Massarat Jan
Calculated Total Dissolved Solids	CALC	9408880	N/A	2024/05/28	Automated Statchk
Total Dissolved Solids	BAL	9409509	2024/05/23	2024/05/24	Darshan Patel
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Total Phosphorus (Colourimetric)	SKAL/P	9409297	2024/05/23	2024/05/23	Muskan
Low Level Total Suspended Solids	BAL	9409098	2024/05/23	2024/05/24	Madhav Somani
Turbidity	AT	9409306	N/A	2024/05/23	Gurpartee Kaur

Bureau Veritas ID: ZFV217 Dup
Sample ID: MEL-SR1 US W
Matrix: Water

Collected: 2024/05/18
Shipped:
Received: 2024/05/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH ₄	9409289	N/A	2024/05/24	Massarat Jan

Bureau Veritas ID: ZFV218
Sample ID: MEL-SR1
Matrix: Water

Collected: 2024/05/19
Shipped:
Received: 2024/05/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9409283	N/A	2024/05/23	Nachiketa Gohil
Chloride by Automated Colourimetry	SKAL	9410241	N/A	2024/05/24	Massarat Jan
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Fluoride	ISE	9409288	2024/05/23	2024/05/23	Nachiketa Gohil
Mercury in Water by CVAA	CV/AA	9411390	2024/05/24	2024/05/24	Gagandeep Rai
Low Level Chloride and Sulphate by AC	KONE	9419252	N/A	2024/05/24	Tyler Orr
Cyanide, Strong Acid Dissociable (SAD)	TECH/UVVS	9419351	2024/05/28	2024/05/28	Ming Dong
Hardness (calculated as CaCO ₃)	CALC	9415892	N/A	2024/05/25	Automated Statchk



**BUREAU
VERITAS**

Bureau Veritas Job #: C4F3562

Report Date: 2024/05/28

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: LK

TEST SUMMARY

Bureau Veritas ID: ZFV218
Sample ID: MEL-SR1
Matrix: Water

Collected: 2024/05/19
Shipped:
Received: 2024/05/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9415893	N/A	2024/05/25	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	9415894	N/A	2024/05/24	Megan Mak
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9415895	2024/05/25	2024/05/25	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	9415896	2024/05/24	2024/05/25	Megan Mak
Silica (Reactive)	KONE	9419253	N/A	2024/05/28	Tyler Orr
Total Ammonia-N	LACH/NH4	9409289	N/A	2024/05/24	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9409070	N/A	2024/05/24	Jinal Chavda
Total Oil and Grease	BAL	9409774	2024/05/23	2024/05/24	Andrews Philip
pH	AT	9409286	2024/05/23	2024/05/23	Nachiketa Gohil
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Orthophosphate	KONE	9410253	N/A	2024/05/24	Massarat Jan
Calculated Total Dissolved Solids	CALC	9408880	N/A	2024/05/28	Automated Statchk
Total Dissolved Solids	BAL	9409509	2024/05/23	2024/05/24	Darshan Patel
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Total Phosphorus (Colourimetric)	SKAL/P	9409297	2024/05/23	2024/05/23	Muskan
Low Level Total Suspended Solids	BAL	9409098	2024/05/23	2024/05/24	Madhav Somani
Turbidity	AT	9409306	N/A	2024/05/23	Gurpartee KAU

Bureau Veritas ID: ZFV219
Sample ID: MEL-SR1 US E
Matrix: Water

Collected: 2024/05/19
Shipped:
Received: 2024/05/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9409283	N/A	2024/05/23	Nachiketa Gohil
Chloride by Automated Colourimetry	SKAL	9410241	N/A	2024/05/24	Massarat Jan
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Fluoride	ISE	9409288	2024/05/23	2024/05/23	Nachiketa Gohil
Mercury in Water by CVAA	CV/AA	9411390	2024/05/24	2024/05/24	Gagandeep Rai
Low Level Chloride and Sulphate by AC	KONE	9419252	N/A	2024/05/24	Tyler Orr
Cyanide, Strong Acid Dissociable (SAD)	TECH/UVVS	9419351	2024/05/28	2024/05/28	Ming Dong
Hardness (calculated as CaCO3)	CALC	9415892	N/A	2024/05/25	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9415893	N/A	2024/05/25	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	9415894	N/A	2024/05/24	Megan Mak
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9415895	2024/05/25	2024/05/25	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	9415896	2024/05/24	2024/05/25	Megan Mak
Silica (Reactive)	KONE	9419253	N/A	2024/05/28	Tyler Orr
Total Ammonia-N	LACH/NH4	9409289	N/A	2024/05/24	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9409070	N/A	2024/05/24	Jinal Chavda
Total Oil and Grease	BAL	9409774	2024/05/23	2024/05/24	Andrews Philip
pH	AT	9409286	2024/05/23	2024/05/23	Nachiketa Gohil
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Orthophosphate	KONE	9410253	N/A	2024/05/24	Massarat Jan
Calculated Total Dissolved Solids	CALC	9408880	N/A	2024/05/28	Automated Statchk



Bureau Veritas Job #: C4F3562
Report Date: 2024/05/28

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: LK

TEST SUMMARY

Bureau Veritas ID: ZFV219
Sample ID: MEL-SR1 US E
Matrix: Water

Collected: 2024/05/19
Shipped:
Received: 2024/05/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	9409509	2024/05/23	2024/05/24	Darshan Patel
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/05/23	Viyushti Patel
Total Phosphorus (Colourimetric)	SKAL/P	9409297	2024/05/23	2024/05/23	Muskan
Low Level Total Suspended Solids	BAL	9409098	2024/05/23	2024/05/24	Madhav Somani
Turbidity	AT	9409306	N/A	2024/05/23	Gurpartee Kaur



GENERAL COMMENTS

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

Package 1	16.0°C
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Results relate only to the items tested.



Bureau Veritas Job #: C4F3562
Report Date: 2024/05/28

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: LK

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
9409070	Nitrate (N)	2024/05/24	107	80 - 120	103	80 - 120	<0.10	mg/L	8.9	20		
9409070	Nitrite (N)	2024/05/24	94	80 - 120	102	80 - 120	<0.010	mg/L	NC	20		
9409098	Total Suspended Solids	2024/05/24			100	80 - 120	<1	mg/L	0	20		
9409283	Alkalinity (Total as CaCO3)	2024/05/23			96	85 - 115	<1.0	mg/L	1.2	20		
9409286	pH	2024/05/23			101	98 - 103			0.35	N/A		
9409288	Fluoride (F-)	2024/05/23	95	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
9409289	Total Ammonia-N	2024/05/24	97	75 - 125	101	80 - 120	<0.050	mg/L	0	20		
9409297	Total Phosphorus	2024/05/23	101	80 - 120	102	80 - 120	<0.020	mg/L	1.7	20	107	80 - 120
9409306	Turbidity	2024/05/23			101	80 - 120	<0.1	NTU	NC	20		
9409509	Total Dissolved Solids	2024/05/24			95	80 - 120	<10	mg/L	5.1	20		
9409774	Total Oil & Grease	2024/05/24			99	80 - 110	<0.50	mg/L	0.25	25		
9410241	Dissolved Chloride (Cl-)	2024/05/24	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.84	20		
9410253	Orthophosphate (P)	2024/05/24	95	75 - 125	95	80 - 120	<0.010	mg/L	0	20		
9411390	Mercury (Hg)	2024/05/24	95	75 - 125	96	80 - 120	<0.00010	mg/L	NC	20		
9415894	Dissolved Aluminum (Al)	2024/05/24	NC	80 - 120	112	80 - 120	<0.0030	mg/L				
9415894	Dissolved Arsenic (As)	2024/05/24	106	80 - 120	106	80 - 120	<0.00010	mg/L				
9415894	Dissolved Barium (Ba)	2024/05/24	97	80 - 120	105	80 - 120	<0.0010	mg/L				
9415894	Dissolved Cadmium (Cd)	2024/05/24	NC	80 - 120	103	80 - 120	<0.000010	mg/L				
9415894	Dissolved Chromium (Cr)	2024/05/24	104	80 - 120	107	80 - 120	<0.0010	mg/L				
9415894	Dissolved Copper (Cu)	2024/05/24	NC	80 - 120	105	80 - 120	<0.00020	mg/L				
9415894	Dissolved Iron (Fe)	2024/05/24	108	80 - 120	108	80 - 120	<0.0050	mg/L				
9415894	Dissolved Lead (Pb)	2024/05/24	101	80 - 120	102	80 - 120	<0.00020	mg/L				
9415894	Dissolved Manganese (Mn)	2024/05/24	NC	80 - 120	108	80 - 120	<0.0010	mg/L				
9415894	Dissolved Molybdenum (Mo)	2024/05/24	108	80 - 120	105	80 - 120	<0.0010	mg/L				
9415894	Dissolved Nickel (Ni)	2024/05/24	NC	80 - 120	106	80 - 120	<0.0010	mg/L				
9415894	Dissolved Selenium (Se)	2024/05/24	102	80 - 120	103	80 - 120	<0.00010	mg/L				
9415894	Dissolved Silver (Ag)	2024/05/24	103	80 - 120	104	80 - 120	<0.000020	mg/L				
9415894	Dissolved Thallium (Tl)	2024/05/24	103	80 - 120	107	80 - 120	<0.000010	mg/L				
9415894	Dissolved Zinc (Zn)	2024/05/24	NC	80 - 120	105	80 - 120	<0.0050	mg/L				
9415896	Total Aluminum (Al)	2024/05/25	NC	80 - 120	97	80 - 120	<0.0030	mg/L				
9415896	Total Arsenic (As)	2024/05/25	106	80 - 120	99	80 - 120	<0.00010	mg/L				



QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: LK

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
9415896	Total Barium (Ba)	2024/05/25	101	80 - 120	93	80 - 120	<0.0010	mg/L				
9415896	Total Cadmium (Cd)	2024/05/25	NC	80 - 120	97	80 - 120	<0.000010	mg/L				
9415896	Total Chromium (Cr)	2024/05/25	102	80 - 120	100	80 - 120	<0.0010	mg/L				
9415896	Total Copper (Cu)	2024/05/25	NC	80 - 120	99	80 - 120	<0.00050	mg/L				
9415896	Total Iron (Fe)	2024/05/25	112	80 - 120	102	80 - 120	<0.010	mg/L				
9415896	Total Lead (Pb)	2024/05/25	100	80 - 120	97	80 - 120	<0.00020	mg/L				
9415896	Total Manganese (Mn)	2024/05/25	NC	80 - 120	99	80 - 120	<0.0010	mg/L				
9415896	Total Molybdenum (Mo)	2024/05/25	110	80 - 120	100	80 - 120	<0.0010	mg/L				
9415896	Total Nickel (Ni)	2024/05/25	NC	80 - 120	100	80 - 120	<0.0010	mg/L				
9415896	Total Selenium (Se)	2024/05/25	102	80 - 120	101	80 - 120	<0.00010	mg/L				
9415896	Total Silver (Ag)	2024/05/25	103	80 - 120	98	80 - 120	<0.000020	mg/L				
9415896	Total Titanium (Ti)	2024/05/25	103	80 - 120	97	80 - 120	<0.0050	mg/L				
9415896	Total Zinc (Zn)	2024/05/25	NC	80 - 120	99	80 - 120	<0.0050	mg/L				
9419252	Dissolved Sulphate (SO4)	2024/05/24	94	80 - 120	100	80 - 120	<0.50	mg/L	NC	20		
9419253	Reactive Silica (SiO2)	2024/05/28	98	80 - 120	99	80 - 120	<0.050	mg/L	6.6	20		
9419351	Strong Acid Dissoc. Cyanide (CN)	2024/05/28	106	80 - 120	105	80 - 120	<0.00050	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 <= 2x RDL).



BUREAU
VERITAS

Bureau Veritas Job #: C4F3562

Report Date: 2024/05/28

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: LK

VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior Scientific Specialist

David Huang, BBY Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas Job #: C4F3562
Report Date: 2024/05/28

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: LK

Exceedance Summary Table – Metal Mining Effluent Reg
Result Exceedances

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

Appendix C – Field turbidity readings and TSS estimation

Sample Location	Date	Time	Turbidity (FNU)	Estimated Turbidity (NTU)	Estimated TSS (mg/L)
MEL-SR-1	5/18/2024	16:39	299	179	86
MEL-SR-1	5/18/2024	16:39	328	197	94
MEL-SR-1	5/18/2024	16:39	314	188	90
Itivia Upstream West	5/18/2024	17:09	119	71	36
Itivia Upstream West	5/18/2024	17:09	106	64	32
Itivia Upstream West	5/18/2024	17:09	108	65	32
MEL-SR-1	5/19/2024	06:50	5	5	5
MEL-SR-1	5/19/2024	06:50	6	6	5
MEL-SR-1	5/19/2024	06:50	5	5	5
Itivia Upstream East	5/19/2024	17:06	377	226	108
Itivia Upstream East	5/19/2024	17:06	388	233	111
Itivia Upstream East	5/19/2024	17:06	369	221	105
MEL-SR-1	5/19/2024	17:20	65	39	21
MEL-SR-1	5/19/2024	17:23	28	17	10
MEL-SR-1	5/19/2024	17:23	37	22	13
MEL-SR-1	5/20/2024	11:58	15	15	10
MEL-SR-1	5/20/2024	11:58	14	14	9
MEL-SR-1	5/20/2024	11:58	14	14	9



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 05-22-2024	REPORT TIME 14:00	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 05-21-2024	OCCURRENCE TIME 17:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN			
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21	LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41			
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Contact water	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 100 L	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Channel 4	SPILL CAUSE Overflow	AREA OF CONTAMINATION IN SQUARE METRES Unknown		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED None	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS While conducting a routine inspection, staff noticed an overflow of contact water outside Channel 4. This report is submitted as due diligence, as the water sample results from the laboratory have not yet been received. Approximate location of spill: 63 1'46.79"N, 92 13'43.94"W. The closest water body (Lake B7) is approximately 127 m southwest. Further investigation is currently being conducted and findings will be provided in the follow-up report. Pursuant to Part H, Section 8c of the Water License, a follow-up report will be issued after a closer investigation is completed.				
L	REPORTED TO SPILL LINE BY Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

June 20th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-179 – Release of 100 L of contact water at the Meliadine Gold Project

On May 21st, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of an overflow of approximately 100 L of contact water coming from Channel 4 at the Meliadine Gold Project site (spill location coordinates: 63 1'46.79"N, 92 13'43.94"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On May 21st, 2024, at approximately 5:00PM, it was noted during a routine inspection of water management infrastructure that water was overflowing the berm of Channel 4, releasing approximately 100 L of water onto the tundra. The incident was a result of accumulated snowmelt within Channel 4 during freshet.

No waterbodies were impacted by the spill. The closest water body (Lake B8) is approximately 105 meters southwest, as seen in Figure 1.

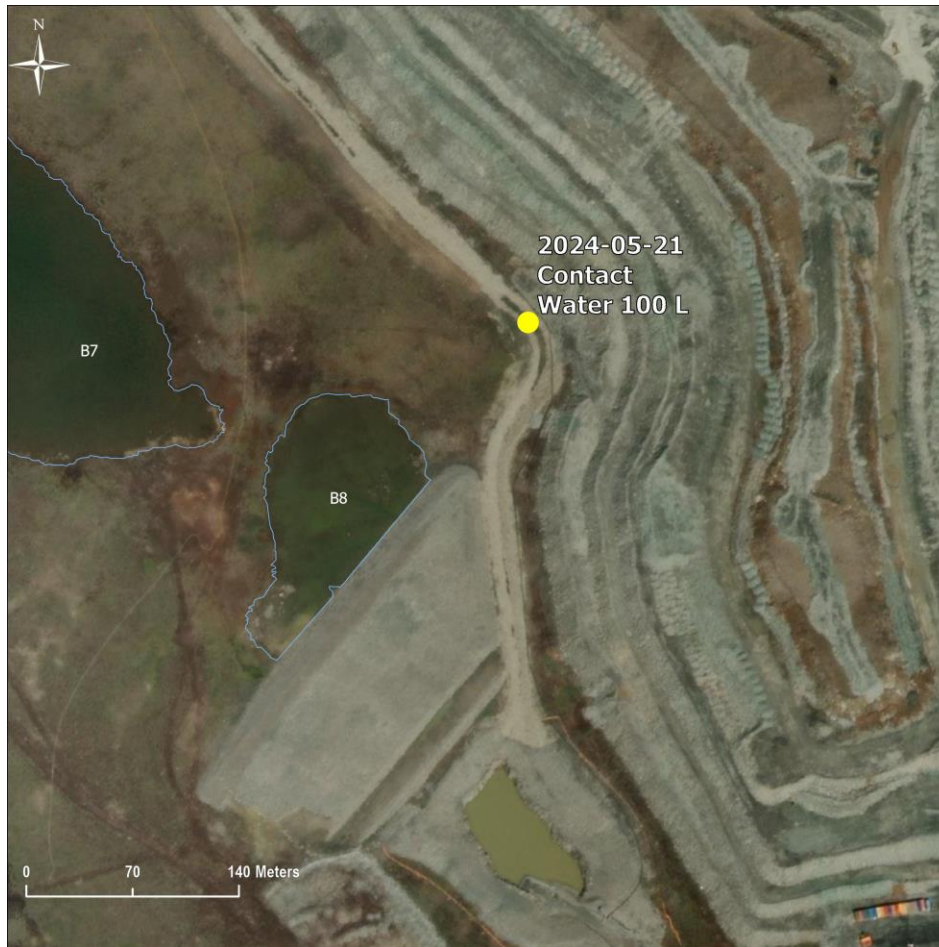


Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

Upon discovering the overflow, Environment department personnel took water quality field readings and collected a water quality sample to be analyzed by an accredited lab. A sample was also collected for internal analysis of Total Suspended Solids (TSS) concentration at the Meliadine assay lab to provide an immediate indication of water quality.

Results from the assay lab sample indicated TSS was below criteria listed under Part D, Item 18 of the Licence. Table 1 presents the TSS results from the analyses conducted by the internal lab and external lab and validates the accuracy of the internal lab result.

Table 1: Internal and External laboratory TSS results from analysis of May 21st grab sample.

Parameter	Unit	Internal Lab	External Lab	2AM-MEL1631 Part D, Item 18	
				Maximum Authorized Monthly Mean Concentration	Maximum Authorized Concentration in a Grab Sample
Total Suspended Solids (mg/L)	(mg/L)	6.0	7.0	50	100

Results from the full suite of water quality analysis, presented in Appendix B, support the assessment that the water is primarily from the melting of snow that had accumulated within the channel.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:

- This part of Channel 4 has some upward-sloping areas which contributed to ponding water.
- Snow that had drifted into the channel downstream of the runoff area stagnated flow during the snowmelt period, affecting the drainage of ponded water upstream.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- Maintenance work on this channel is planned to be completed prior to September 15th, 2024. This work will consist of maintaining the channel to meet design and ensure the channel berm is high enough to minimize the potential for runoff to overflow from the channel.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



AGNICO EAGLE

MELIADINE



Randy Schwandt | Environment Coordinator

randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0

agnicoeagle.com     

Sent from Meliadine

Appendix A – Photos



Photo 1: Overflow location on May 21st, 2024.



Photo 2: Overflow location on May 22nd, 2024 (day after the event).

Appendix B – Certificate of Analysis



Your P.O. #: OL-1381216
Site#: 63°02'15.5"N 92°13'06.3"W
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2024/06/03
Report #: R8175046
Version: 5 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F6705

Received: 2024/05/25, 07:35

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity (1)	1	N/A	2024/05/27	CAM SOP-00448	SM 24 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2024/05/27	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	1	2024/05/25	2024/05/30	CAM SOP-00427	SM 24 5210B m
Chloride by Automated Colourimetry (1)	1	N/A	2024/05/28	CAM SOP-00463	SM 24 4500-Cl E m
Conductivity (1)	1	N/A	2024/05/27	CAM SOP-00414	SM 24 2510 m
Dissolved Organic Carbon (DOC) (1, 5)	1	N/A	2024/05/27	CAM SOP-00446	SM 24 5310 B m
Dissolved Oxygen (1)	1	2024/05/25	2024/05/25	CAM SOP-00427	SM 24 4500 O G m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2024/05/27	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 6)	1	2024/05/26	2024/05/26	CAM SOP-00316	CCME PHC-CWS m
Fluoride (1)	1	2024/05/25	2024/05/27	CAM SOP-00449	SM 24 4500-F C m
Dissolved Mercury (low level) (1)	1	2024/05/27	2024/05/27	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	1	2024/05/27	2024/05/27	CAM SOP-00453	EPA 7470 m
Low Level Chloride and Sulphate by AC (2)	1	N/A	2024/05/28	AB SOP-00020	SM24-4500-Cl/SO4-E m
Cyanide (Free) (2)	1	N/A	2024/05/30	CAL SOP-00266	EPA 9016d R0 m
Cyanide, Strong Acid Dissociable (SAD) (2)	1	2024/05/29	2024/05/29	CAL SOP-00270	SM 24 4500-CN m
Cyanide WAD (weak acid dissociable) (2)	1	N/A	2024/05/29	CAL SOP-00270	SM 24 4500-CN m
Hardness (calculated as CaCO3) (3)	1	N/A	2024/05/29	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	1	N/A	2024/05/29	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (dissolved) (3)	1	N/A	2024/05/29	BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	1	2024/05/25	2024/05/29	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total) (3)	1	2024/05/28	2024/05/29	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Silica (Reactive) (2)	1	N/A	2024/05/28	AB SOP-00011	EPA 370.1 R1978 m
Total Ammonia-N (1)	1	N/A	2024/05/27	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1, 7)	1	N/A	2024/05/25	CAM SOP-00440	SM 24 4500-NO3I/NO2B
pH (1, 8)	1	2024/05/25	2024/05/27	CAM SOP-00413	SM 24th - 4500H+ B
Field Measured pH (1, 9)	1	N/A	2024/05/27		Field pH Meter
Orthophosphate (1)	1	N/A	2024/05/28	CAM SOP-00461	SM 24 4500-P E
Radium-226 Low Level (4, 10)	1	N/A	2024/05/31	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry



Your P.O. #: OL-1381216
Site#: 63°02'15.5"N 92°13'06.3"W
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2024/06/03
Report #: R8175046
Version: 5 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F6705

Received: 2024/05/25, 07:35

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Calculated Total Dissolved Solids (1)	1	N/A	2024/05/31		Auto Calc
Total Dissolved Solids (1)	1	2024/05/27	2024/05/28	CAM SOP-00428	SM 24 2540C m
Field Temperature (1, 9)	1	N/A	2024/05/27		Field Thermometer
Total Kjeldahl Nitrogen in Water (1)	1	2024/05/27	2024/05/27	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 11)	1	N/A	2024/05/27	CAM SOP-00446	SM 24 5310B m
Total Phosphorus (Colourimetric) (1)	1	2024/05/27	2024/05/27	CAM SOP-00407	SM 24 4500-P I
Low Level Total Suspended Solids (1)	1	2024/05/27	2024/05/27	CAM SOP-00428	SM 24 2540D m
Turbidity (1)	1	N/A	2024/05/27	CAM SOP-00417	SM 24 2130 B
Un-ionized Ammonia (as N) (1, 12)	1	2024/05/25	2024/05/27	Calculation	Calculation

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, EPA, APHA or the Quebec Ministry of Environment.

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

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

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

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

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

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

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

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

(2) This test was performed by Bureau Veritas Calgary (19th), 4000 19th Street NE , Calgary, AB, T2E 6P8



Your P.O. #: OL-1381216
Site#: 63°02'15.5"N 92°13'06.3"W
Site Location: MELIADINE

Attention: Reporting

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

Report Date: 2024/06/03
Report #: R8175046
Version: 5 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F6705

Received: 2024/05/25, 07:35

- (3) This test was performed by Bureau Veritas Burnaby, 4606 Canada Way , Burnaby, BC, V5G 1K5
(4) This test was performed by Bureau Veritas Kitimat, 6790 Kitimat Road, Unit 4 , Mississauga, ON, L5N 5L9
(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 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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(8) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed 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 and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."
(9) This is a field test, therefore, the results relate to items that were not analysed at Bureau Veritas.
(10) Radium-226 results have not been corrected for blanks.
(11) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.
(12) Un-ionized ammonia is calculated using the total ammonia result and field data provided by the client for pH and temperature.

Encryption Key

Katherine Szozda

Katherine Szozda
Project Manager
03 Jun 2024 14:09:23

Please direct all questions regarding this Certificate of Analysis to:

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

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C4F6705

Report Date: 2024/06/03

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1381216

Sampler Initials: KS

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZGL716			ZGL716		
Sampling Date		2024/05/21 18:30			2024/05/21 18:30		
	UNITS	CHANNEL#4	RDL	QC Batch	CHANNEL#4 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	73	1.0	9413995			
Calculated TDS	mg/L	630	1.0	9414427			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	9413995			
Dissolved Hardness (CaCO ₃)	mg/L	297	0.50	9423984			
Field Measurements							
Field Temperature	Celsius	8.6	N/A	ONSITE			
Field Measured pH	pH	7.79		ONSITE			
Inorganics							
Total Ammonia-N	mg/L	1.2	0.050	9411598			
Total BOD	mg/L	<2	2	9413914			
Conductivity	mS/cm	1.09	N/A	9414527			
Free Cyanide (CN)	ug/L	19 (1)	2.0	9424907			
Strong Acid Dissoc. Cyanide (CN)	mg/L	0.0297	0.00050	9424905			
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.024	0.00050	9424906			
Total Dissolved Solids	mg/L	665	10	9415437	655	10	9415437
Fluoride (F ⁻)	mg/L	<0.10	0.10	9414530			
Total Kjeldahl Nitrogen (TKN)	mg/L	1.5	0.20	9415288			
Dissolved Organic Carbon	mg/L	4.9	0.40	9413872			
Total Organic Carbon (TOC)	mg/L	4.9	0.40	9415349			
Orthophosphate (P)	mg/L	0.031	0.010	9412513			
Dissolved Oxygen	mg/L	9.56	0.050	9414479			
pH	pH	7.76		9414528			
Total Phosphorus	mg/L	0.026	0.020	9415523	0.021	0.020	9415523
Reactive Silica (SiO ₂)	mg/L	2.4	0.050	9422473			
Total Suspended Solids	mg/L	7	1	9415340	6	1	9415340
Turbidity	NTU	2.6	0.1	9414513	2.3	0.1	9414513
Alkalinity (Total as CaCO ₃)	mg/L	73	1.0	9414529			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) 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.							



BUREAU
VERITAS

Bureau Veritas Job #: C4F6705

Report Date: 2024/06/03

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1381216

Sampler Initials: KS

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZGL716			ZGL716		
Sampling Date		2024/05/21 18:30			2024/05/21 18:30		
	UNITS	CHANNEL#4	RDL	QC Batch	CHANNEL#4 Lab-Dup	RDL	QC Batch
Dissolved Chloride (Cl-)	mg/L	140	1.0	9412506			
Nitrite (N)	mg/L	0.075	0.010	9414497			
Nitrate (N)	mg/L	3.06	0.10	9414497			
Dissolved Sulphate (SO4)	mg/L	220	2.5	9422472			
Nitrate + Nitrite (N)	mg/L	3.14	0.10	9414497			
Un-ionized Ammonia (as N)	mg/L	0.012	0.00051	9414428			
Metals							
Dissolved Aluminum (Al)	mg/L	0.0063	0.0030	9423986			
Total Aluminum (Al)	mg/L	0.0282	0.0030	9423983			
Dissolved Antimony (Sb)	mg/L	0.00103	0.00050	9423986			
Total Antimony (Sb)	mg/L	0.00089	0.00050	9423983			
Dissolved Arsenic (As)	mg/L	0.120	0.00010	9423986			
Total Arsenic (As)	mg/L	0.109	0.00010	9423983			
Dissolved Barium (Ba)	mg/L	0.0323	0.0010	9423986			
Total Barium (Ba)	mg/L	0.0263	0.0010	9423983			
Dissolved Beryllium (Be)	mg/L	<0.00010	0.00010	9423986			
Total Beryllium (Be)	mg/L	<0.00010	0.00010	9423983			
Dissolved Boron (B)	mg/L	<0.050	0.050	9423986			
Total Boron (B)	mg/L	<0.050	0.050	9423983			
Dissolved Cadmium (Cd)	mg/L	0.000027	0.000010	9423986			
Total Cadmium (Cd)	mg/L	0.000025	0.000010	9423983			
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	9423986			
Total Chromium (Cr)	mg/L	<0.0010	0.0010	9423983			
Dissolved Cobalt (Co)	mg/L	0.00366	0.00020	9423986			
Total Cobalt (Co)	mg/L	0.00304	0.00020	9423983			
Dissolved Copper (Cu)	mg/L	0.00556	0.00020	9423986			
Total Copper (Cu)	mg/L	0.00491	0.00050	9423983			
Dissolved Iron (Fe)	mg/L	0.0174	0.0050	9423986			
Total Iron (Fe)	mg/L	0.100	0.010	9423983			
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	9423986			
Total Lead (Pb)	mg/L	0.00123	0.00020	9423983			
Dissolved Lithium (Li)	mg/L	0.0051	0.0020	9423986			
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							



**BUREAU
VERITAS**

Bureau Veritas Job #: C4F6705

Report Date: 2024/06/03

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1381216

Sampler Initials: KS

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZGL716			ZGL716		
Sampling Date		2024/05/21 18:30			2024/05/21 18:30		
	UNITS	CHANNEL#4	RDL	QC Batch	CHANNEL#4 Lab-Dup	RDL	QC Batch
Total Lithium (Li)	mg/L	0.0044	0.0020	9423983			
Dissolved Manganese (Mn)	mg/L	0.0694	0.0010	9423986			
Total Manganese (Mn)	mg/L	0.0569	0.0010	9423983			
Dissolved Molybdenum (Mo)	mg/L	0.0053	0.0010	9423986			
Total Molybdenum (Mo)	mg/L	0.0044	0.0010	9423983			
Dissolved Nickel (Ni)	mg/L	0.0032	0.0010	9423986			
Total Nickel (Ni)	mg/L	0.0027	0.0010	9423983			
Dissolved Selenium (Se)	mg/L	0.00124	0.00010	9423986			
Total Selenium (Se)	mg/L	0.00105	0.00010	9423983			
Dissolved Silver (Ag)	mg/L	0.000024	0.000020	9423986			
Total Silver (Ag)	mg/L	0.000029	0.000020	9423983			
Dissolved Strontium (Sr)	mg/L	0.461	0.0010	9423986			
Total Strontium (Sr)	mg/L	0.379	0.0010	9423983			
Dissolved Thallium (Tl)	mg/L	0.000053	0.000010	9423986			
Total Thallium (Tl)	mg/L	0.000045	0.000010	9423983			
Dissolved Tin (Sn)	mg/L	<0.0050	0.0050	9423986			
Total Tin (Sn)	mg/L	<0.0050	0.0050	9423983			
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	9423986			
Total Titanium (Ti)	mg/L	<0.0050	0.0050	9423983			
Dissolved Uranium (U)	mg/L	0.00077	0.00010	9423986			
Total Uranium (U)	mg/L	0.00065	0.00010	9423983			
Dissolved Vanadium (V)	mg/L	<0.0050	0.0050	9423986			
Total Vanadium (V)	mg/L	<0.0050	0.0050	9423983			
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	9423986			
Total Zinc (Zn)	mg/L	<0.0050	0.0050	9423983			
Dissolved Calcium (Ca)	mg/L	88.9	0.050	9423985			
Total Calcium (Ca)	mg/L	74.0	0.050	9423982			
Dissolved Magnesium (Mg)	mg/L	18.2	0.050	9423985			
Total Magnesium (Mg)	mg/L	15.3	0.050	9423982			
Dissolved Potassium (K)	mg/L	7.94	0.050	9423985			
Total Potassium (K)	mg/L	6.52	0.050	9423982			
Dissolved Sodium (Na)	mg/L	88.4	0.050	9423985			
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZGL716			ZGL716		
Sampling Date		2024/05/21 18:30			2024/05/21 18:30		
	UNITS	CHANNEL#4	RDL	QC Batch	CHANNEL#4 Lab-Dup	RDL	QC Batch
Total Sodium (Na)	mg/L	72.0	0.050	9423982			
RADIONUCLIDE							
Radium-226	Bq/L	<0.0050	0.0050	9415387			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C4F6705
Report Date: 2024/06/03

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: KS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		ZGL716		
Sampling Date		2024/05/21 18:30		
	UNITS	CHANNEL#4	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	9415862
Dissolved Mercury (Hg)	mg/L	<0.00001	0.00001	9415872
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		ZGL716		
Sampling Date		2024/05/21 18:30		
	UNITS	CHANNEL#4	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	9414785
Toluene	ug/L	<0.20	0.20	9414785
Ethylbenzene	ug/L	<0.20	0.20	9414785
o-Xylene	ug/L	<0.20	0.20	9414785
p+m-Xylene	ug/L	<0.40	0.40	9414785
Total Xylenes	ug/L	<0.40	0.40	9414785
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	9414810
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	9414810
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	9414810
Reached Baseline at C50	ug/L	Yes		9414810
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	93		9414785
4-Bromofluorobenzene	%	94		9414785
D10-o-Xylene	%	93		9414785
D4-1,2-Dichloroethane	%	94		9414785
o-Terphenyl	%	99		9414810
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



**BUREAU
VERITAS**

Bureau Veritas Job #: C4F6705
Report Date: 2024/06/03

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: KS

TEST SUMMARY

Bureau Veritas ID: ZGL716
Sample ID: CHANNEL#4
Matrix: Water

Collected: 2024/05/21
Shipped:
Received: 2024/05/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9414529	N/A	2024/05/27	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	9413995	N/A	2024/05/27	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	9413914	2024/05/25	2024/05/30	Amrutha Anilkumar
Chloride by Automated Colourimetry	SKAL	9412506	N/A	2024/05/28	Geetee Noorzaad
Conductivity	AT	9414527	N/A	2024/05/27	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9413872	N/A	2024/05/27	Gyulshen Idriz
Dissolved Oxygen	DO	9414479	2024/05/25	2024/05/25	Amrutha Anilkumar
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9414785	N/A	2024/05/27	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9414810	2024/05/26	2024/05/26	Mohammed Abdul Nafay Shueb
Fluoride	ISE	9414530	2024/05/25	2024/05/27	Surinder Rai
Dissolved Mercury (low level)	CV/AA	9415872	2024/05/27	2024/05/27	Aswathy Neduveli Suresh
Mercury (low level)	CV/AA	9415862	2024/05/27	2024/05/27	Aswathy Neduveli Suresh
Low Level Chloride and Sulphate by AC	KONE	9422472	N/A	2024/05/28	Tyler Orr
Cyanide (Free)	SPEC	9424907	N/A	2024/05/30	Amy Phan
Cyanide, Strong Acid Dissociable (SAD)	TECH/UVVS	9424905	2024/05/29	2024/05/29	Joshua Fine
Cyanide WAD (weak acid dissociable)	TECH	9424906	N/A	2024/05/29	Joshua Fine
Hardness (calculated as CaCO3)	CALC	9423984	N/A	2024/05/29	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9423985	N/A	2024/05/29	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	9423986	N/A	2024/05/29	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9423982	2024/05/29	2024/05/29	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	9423983	2024/05/28	2024/05/29	Andrew An
Silica (Reactive)	KONE	9422473	N/A	2024/05/28	Tyler Orr
Total Ammonia-N	LACH/NH4	9411598	N/A	2024/05/27	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9414497	N/A	2024/05/25	Jinal Chavda
pH	AT	9414528	2024/05/25	2024/05/27	Surinder Rai
Field Measured pH	PH	ONSITE	N/A	2024/05/27	Harwin Grewal
Orthophosphate	KONE	9412513	N/A	2024/05/28	Geetee Noorzaad
Radium-226 Low Level	AS	9415387	N/A	2024/05/31	Jordan Bilozir
Calculated Total Dissolved Solids	CALC	9414427	N/A	2024/05/31	Automated Statchk
Total Dissolved Solids	BAL	9415437	2024/05/27	2024/05/28	Tina Teng
Field Measured pH	PH	ONSITE	N/A	2024/05/27	Harwin Grewal
Total Kjeldahl Nitrogen in Water	SKAL	9415288	2024/05/27	2024/05/27	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	9415349	N/A	2024/05/27	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	9415523	2024/05/27	2024/05/27	Sachi Patel
Low Level Total Suspended Solids	BAL	9415340	2024/05/27	2024/05/27	Darshan Patel
Turbidity	AT	9414513	N/A	2024/05/27	Gurpartee KAUUR
Un-ionized Ammonia (as N)	CALC	9414428	2024/05/27	2024/05/27	Automated Statchk

Bureau Veritas ID: ZGL716 Dup
Sample ID: CHANNEL#4
Matrix: Water

Collected: 2024/05/21
Shipped:
Received: 2024/05/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	9415437	2024/05/27	2024/05/28	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9415523	2024/05/27	2024/05/27	Sachi Patel



Bureau Veritas Job #: C4F6705
Report Date: 2024/06/03

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: KS

TEST SUMMARY

Bureau Veritas ID: ZGL716 Dup
Sample ID: CHANNEL#4
Matrix: Water

Collected: 2024/05/21
Shipped:
Received: 2024/05/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low Level Total Suspended Solids	BAL	9415340	2024/05/27	2024/05/27	Darshan Patel
Turbidity	AT	9414513	N/A	2024/05/27	Gurparteek KAUR



GENERAL COMMENTS

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

Package 1	4.3°C
Package 2	7.0°C
Package 3	5.3°C
Package 4	7.7°C

Sample ZGL716 [CHANNEL#4] : Total Phosphorus < ortho-Phosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



Bureau Veritas Job #: C4F6705
Report Date: 2024/06/03

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: KS

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
9414785	1,4-Difluorobenzene	2024/05/27	96	70 - 130	97	70 - 130	96	%				
9414785	4-Bromofluorobenzene	2024/05/27	101	70 - 130	101	70 - 130	97	%				
9414785	D10-o-Xylene	2024/05/27	99	70 - 130	107	70 - 130	88	%				
9414785	D4-1,2-Dichloroethane	2024/05/27	101	70 - 130	99	70 - 130	102	%				
9414810	o-Terphenyl	2024/05/26	107	60 - 130	106	60 - 130	105	%				
9411598	Total Ammonia-N	2024/05/27	102	75 - 125	103	80 - 120	<0.050	mg/L	9.2	20		
9412506	Dissolved Chloride (Cl-)	2024/05/28	NC	80 - 120	102	80 - 120	<1.0	mg/L	2.0	20		
9412513	Orthophosphate (P)	2024/05/28	97	75 - 125	97	80 - 120	<0.010	mg/L	NC	20		
9413872	Dissolved Organic Carbon	2024/05/27	NC	80 - 120	98	80 - 120	<0.40	mg/L	0.53	20		
9413914	Total BOD	2024/05/30					<2	mg/L	9.3	30	97	80 - 120
9414479	Dissolved Oxygen	2024/05/25							0.094	30		
9414497	Nitrate (N)	2024/05/25	95	80 - 120	99	80 - 120	<0.10	mg/L	2.4	20		
9414497	Nitrite (N)	2024/05/25	99	80 - 120	98	80 - 120	<0.010	mg/L	NC	20		
9414513	Turbidity	2024/05/27			99	80 - 120	<0.1	NTU	12	20		
9414527	Conductivity	2024/05/27			100	85 - 115	0.000600	mS/cm	0.48	10		
9414528	pH	2024/05/27			102	98 - 103			1.2	N/A		
9414529	Alkalinity (Total as CaCO3)	2024/05/27			96	85 - 115	<1.0	mg/L	1.4	20		
9414530	Fluoride (F-)	2024/05/27	99	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
9414785	Benzene	2024/05/27	86	50 - 140	90	50 - 140	<0.20	ug/L	NC	30		
9414785	Ethylbenzene	2024/05/27	91	50 - 140	94	50 - 140	<0.20	ug/L	NC	30		
9414785	o-Xylene	2024/05/27	92	50 - 140	93	50 - 140	<0.20	ug/L	NC	30		
9414785	p+m-Xylene	2024/05/27	85	50 - 140	86	50 - 140	<0.40	ug/L	NC	30		
9414785	Toluene	2024/05/27	85	50 - 140	87	50 - 140	<0.20	ug/L	NC	30		
9414785	Total Xylenes	2024/05/27					<0.40	ug/L	NC	30		
9414810	F2 (C10-C16 Hydrocarbons)	2024/05/26	104	60 - 140	102	60 - 140	<100	ug/L	NC	30		
9414810	F3 (C16-C34 Hydrocarbons)	2024/05/26	108	60 - 140	108	60 - 140	<200	ug/L	NC	30		
9414810	F4 (C34-C50 Hydrocarbons)	2024/05/26	103	60 - 140	103	60 - 140	<200	ug/L	NC	30		
9415288	Total Kjeldahl Nitrogen (TKN)	2024/05/27	85	80 - 120	98	80 - 120	<0.10	mg/L	NC (1)	20	90	80 - 120
9415340	Total Suspended Solids	2024/05/27			99	80 - 120	<1	mg/L	3.1	20		
9415349	Total Organic Carbon (TOC)	2024/05/27	NC	80 - 120	98	80 - 120	<0.40	mg/L	0.090	20		
9415387	Radium-226	2024/05/31			87	85 - 115	<0.0050	Bq/L	NC	N/A		
9415437	Total Dissolved Solids	2024/05/28			97	80 - 120	<10	mg/L	1.5	20		



Bureau Veritas Job #: C4F6705
Report Date: 2024/06/03

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: KS

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
9415523	Total Phosphorus	2024/05/27	96	80 - 120	92	80 - 120	<0.020	mg/L	NC	20	99	80 - 120
9415862	Mercury (Hg)	2024/05/27	98	75 - 125	97	80 - 120	<0.00001	mg/L	NC	20		
9415872	Dissolved Mercury (Hg)	2024/05/27	97	75 - 125	85	80 - 120	<0.00001	mg/L	NC	20		
9422472	Dissolved Sulphate (SO4)	2024/05/28	NC	80 - 120	103	80 - 120	<0.50	mg/L				
9422473	Reactive Silica (SiO2)	2024/05/28	NC	80 - 120	109	80 - 120	<0.050	mg/L				
9423983	Total Aluminum (Al)	2024/05/29	104	80 - 120	103	80 - 120	<0.0030	mg/L				
9423983	Total Antimony (Sb)	2024/05/29	48 (2)	80 - 120	104	80 - 120	<0.00050	mg/L				
9423983	Total Arsenic (As)	2024/05/29	105	80 - 120	102	80 - 120	<0.00010	mg/L				
9423983	Total Barium (Ba)	2024/05/29	106	80 - 120	100	80 - 120	<0.0010	mg/L				
9423983	Total Beryllium (Be)	2024/05/29	101	80 - 120	106	80 - 120	<0.00010	mg/L				
9423983	Total Boron (B)	2024/05/29	103	80 - 120	108	80 - 120	<0.050	mg/L				
9423983	Total Cadmium (Cd)	2024/05/29	105	80 - 120	102	80 - 120	<0.000010	mg/L				
9423983	Total Chromium (Cr)	2024/05/29	98	80 - 120	98	80 - 120	<0.0010	mg/L				
9423983	Total Cobalt (Co)	2024/05/29	97	80 - 120	97	80 - 120	<0.00020	mg/L				
9423983	Total Copper (Cu)	2024/05/29	NC	80 - 120	95	80 - 120	<0.00050	mg/L				
9423983	Total Iron (Fe)	2024/05/29	NC	80 - 120	101	80 - 120	<0.010	mg/L				
9423983	Total Lead (Pb)	2024/05/29	103	80 - 120	99	80 - 120	<0.00020	mg/L				
9423983	Total Lithium (Li)	2024/05/29	100	80 - 120	108	80 - 120	<0.0020	mg/L				
9423983	Total Manganese (Mn)	2024/05/29	107	80 - 120	103	80 - 120	<0.0010	mg/L				
9423983	Total Molybdenum (Mo)	2024/05/29	NC	80 - 120	106	80 - 120	<0.0010	mg/L				
9423983	Total Nickel (Ni)	2024/05/29	99	80 - 120	99	80 - 120	<0.0010	mg/L				
9423983	Total Selenium (Se)	2024/05/29	110	80 - 120	102	80 - 120	<0.00010	mg/L				
9423983	Total Silver (Ag)	2024/05/29	102	80 - 120	99	80 - 120	<0.000020	mg/L				
9423983	Total Strontium (Sr)	2024/05/29	NC	80 - 120	96	80 - 120	<0.0010	mg/L				
9423983	Total Thallium (Tl)	2024/05/29	101	80 - 120	100	80 - 120	<0.000010	mg/L				
9423983	Total Tin (Sn)	2024/05/29	27 (2)	80 - 120	104	80 - 120	<0.0050	mg/L				
9423983	Total Titanium (Ti)	2024/05/29	93	80 - 120	102	80 - 120	<0.0050	mg/L				
9423983	Total Uranium (U)	2024/05/29	111	80 - 120	104	80 - 120	<0.00010	mg/L				
9423983	Total Vanadium (V)	2024/05/29	103	80 - 120	99	80 - 120	<0.0050	mg/L				
9423983	Total Zinc (Zn)	2024/05/29	NC	80 - 120	103	80 - 120	<0.0050	mg/L				
9423986	Dissolved Aluminum (Al)	2024/05/29	99	80 - 120	102	80 - 120	<0.0030	mg/L				
9423986	Dissolved Antimony (Sb)	2024/05/29	102	80 - 120	102	80 - 120	<0.00050	mg/L				



Bureau Veritas Job #: C4F6705
Report Date: 2024/06/03

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: KS

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
9423986	Dissolved Arsenic (As)	2024/05/29	100	80 - 120	102	80 - 120	<0.00010	mg/L				
9423986	Dissolved Barium (Ba)	2024/05/29	98	80 - 120	100	80 - 120	<0.0010	mg/L				
9423986	Dissolved Beryllium (Be)	2024/05/29	102	80 - 120	101	80 - 120	<0.00010	mg/L				
9423986	Dissolved Boron (B)	2024/05/29	105	80 - 120	99	80 - 120	<0.050	mg/L				
9423986	Dissolved Cadmium (Cd)	2024/05/29	100	80 - 120	102	80 - 120	<0.000010	mg/L				
9423986	Dissolved Chromium (Cr)	2024/05/29	95	80 - 120	97	80 - 120	<0.0010	mg/L				
9423986	Dissolved Cobalt (Co)	2024/05/29	94	80 - 120	95	80 - 120	<0.00020	mg/L				
9423986	Dissolved Copper (Cu)	2024/05/29	92	80 - 120	95	80 - 120	<0.00020	mg/L				
9423986	Dissolved Iron (Fe)	2024/05/29	102	80 - 120	102	80 - 120	<0.0050	mg/L				
9423986	Dissolved Lead (Pb)	2024/05/29	97	80 - 120	99	80 - 120	<0.00020	mg/L				
9423986	Dissolved Lithium (Li)	2024/05/29	104	80 - 120	103	80 - 120	<0.0020	mg/L				
9423986	Dissolved Manganese (Mn)	2024/05/29	96	80 - 120	101	80 - 120	<0.0010	mg/L				
9423986	Dissolved Molybdenum (Mo)	2024/05/29	100	80 - 120	103	80 - 120	<0.0010	mg/L				
9423986	Dissolved Nickel (Ni)	2024/05/29	96	80 - 120	98	80 - 120	<0.0010	mg/L				
9423986	Dissolved Selenium (Se)	2024/05/29	102	80 - 120	103	80 - 120	<0.00010	mg/L				
9423986	Dissolved Silver (Ag)	2024/05/29	98	80 - 120	99	80 - 120	<0.000020	mg/L				
9423986	Dissolved Strontium (Sr)	2024/05/29	94	80 - 120	96	80 - 120	<0.0010	mg/L				
9423986	Dissolved Thallium (Tl)	2024/05/29	98	80 - 120	101	80 - 120	<0.000010	mg/L				
9423986	Dissolved Tin (Sn)	2024/05/29	100	80 - 120	102	80 - 120	<0.0050	mg/L				
9423986	Dissolved Titanium (Ti)	2024/05/29	99	80 - 120	101	80 - 120	<0.0050	mg/L				
9423986	Dissolved Uranium (U)	2024/05/29	103	80 - 120	109	80 - 120	<0.00010	mg/L				
9423986	Dissolved Vanadium (V)	2024/05/29	97	80 - 120	98	80 - 120	<0.0050	mg/L				
9423986	Dissolved Zinc (Zn)	2024/05/29	100	80 - 120	106	80 - 120	<0.0050	mg/L				
9424905	Strong Acid Dissoc. Cyanide (CN)	2024/05/29	98	80 - 120	102	80 - 120	<0.00050	mg/L				
9424906	Weak Acid Dissoc. Cyanide (CN)	2024/05/29	96	80 - 120	100	80 - 120	<0.00050	mg/L				



QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: KS

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
9424907	Free Cyanide (CN)	2024/05/30	93	80 - 120	98	80 - 120	<2.0	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).

(1) Due to a high concentration of NOx, 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

Bureau Veritas Job #: C4F6705

Report Date: 2024/06/03

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1381216

Sampler Initials: KS

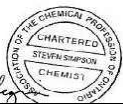
VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior Scientific Specialist

David Huang, BBY Scientific Specialist



Steven Simpson, BSc., MBA, C.Chem, Miss.-Kitimat, Lab Director

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas Job #: C4F6705
Report Date: 2024/06/03

Agnico-Eagle
Site Location: MELIADINE
Your P.O. #: OL-1381216
Sampler Initials: KS

Exceedance Summary Table – Metal Mining Effluent Reg
Result Exceedances

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



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 05-24-2024	REPORT TIME 18:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 05-24-2024	OCCURRENCE TIME 13:30			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Thickener Water	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 35 m3	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Process Plant	SPILL CAUSE Overflow	AREA OF CONTAMINATION IN SQUARE METRES 400		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED None	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS The grinding thickener collection launder overflowed and released process thickener water to the ground outside of the Process Plant. The coordinates of the spill are 63° 2'11.41"N 92°13'35.65"W. No water bodies were impacted by this spill. The nearest natural water body (G2 lake) is approximately 600 m Northwest. Pursuant to Part H, Section 8c of the Water Licence, a follow-up report will be issued after a closer investigation is completed. Reported by John Baechler, Environment General Supervisor, 819-759-3555 ext. 4603212 John.Baechler@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Randy Schwandt	POSITION Environment Coord.	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION Environment Coord.	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

June 20th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-185 – Release of 70 m³ of Process Thickener Water at the Meliadine Gold Mine

On May 24th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 35m³ of thickener process water at the Meliadine Gold Mine site (spill location coordinates: 63° 2' 11.41"N, 92° 13' 35.65"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

Description of Incidents

On May 24th, 2024, an estimated total of 70 m³ of process thickener water was spilled onto the industrial pad outside the Process Plant.

During the restart of the Process Plant after a shutdown, the thickener underflow slurry was being recirculated to the thickener feed well, outside of the Process Plant. Regular thickener feed flow from the process was being used to increase thickener underflow density prior to feeding the CIL circuit. The tanks overflow launder collection pipe, which returns overflow thickener water to the process water tank, was restricted due to the build-up of scale in the pipes. As process water and flocculant were being added to the thickener to increase density during recirculation, the inflow to the thickener tank was greater than the return flow to the process water tank due to the pipe restriction. This resulted in the thickener launder overflowing, spilling an initial 35 m³ of process thickener water onto the ground. Later in the day an additional 35 m³ was spilled in these same circumstances.

No water bodies were affected by the spill. The nearest water body, Lake G2, is approximately 600 meters northwest, as depicted in Figure 1.



Figure 1: Location of the thickener process water spill and proximity to water bodies.

Response and Remediation

The control room operator received a radio call notifying them of thickener process water overflowing from the tank outside the Process Plant berm. Upon receiving this notification, the Process Plant supervisor contacted the grinding operator to validate the spill. In response, the control room operator took immediate action by maximizing the underflow pump flow rate and increasing the flocculant addition to raise the underflow density to further increase the underflow pumps flow rate. These measures stopped the overflow.

The contaminated ground was excavated, and the excess water from the grinding thickener launders was collected in the containment berm. All contaminated material was brought back to the Process Plant and recirculated into the system.

Root Cause and Corrective Measures

An incident assessment was conducted shortly after the incident to determine the extent of the cleanup and confirm the contributing factors and root cause of the spill. The following causes of the spill incident was determined:

- The Process Plant grinding thickener overflow launder collection pipe experienced restrictions due to scale build-up. This restriction led to a greater thickener inflow than return flow to the Process Plant, causing an accumulation of water in the tank and ultimately resulting in the overflow of thickener water.
- While most of the overflow was contained in the berm, some deflected off the bell-shape of the tank cladding, causing it to spray over the containment berm wall (Photo 1).
- The secondary overflow collection pipe was unable to convey water to the berm due to the tank wall blocking flow into the pipe (Photo 2).
- The combined effect of the pipe restriction, the added flocculant water flow, and the thickener being on recirculation during both Process Plant restarts increased the difference between the incoming and outgoing flow.

To address the root cause and reduce the likelihood of a recurrence, the following corrective and preventative actions have been implemented:






- High-pressure cleaning of the thickener overflow launder collection pipe is scheduled to prevent restrictions caused by scale build-up.
- The portion of the thickener launder wall blocking the secondary overflow collection pipe was cut out to allow an overflow to enter the overflow pipe (Photo 4).
- The secondary overflow collection pipe was extended to discharge directly into the berm so no overflow will deflect off the side of the tank (Photo 5).



- The grinding thickener operation procedure during start-up will be reviewed to ensure sufficient flocculant is used. The recirculation flow rate will also be adjusted to prevent a large difference in incoming versus outgoing flow.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator
randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine



Appendix – Photos

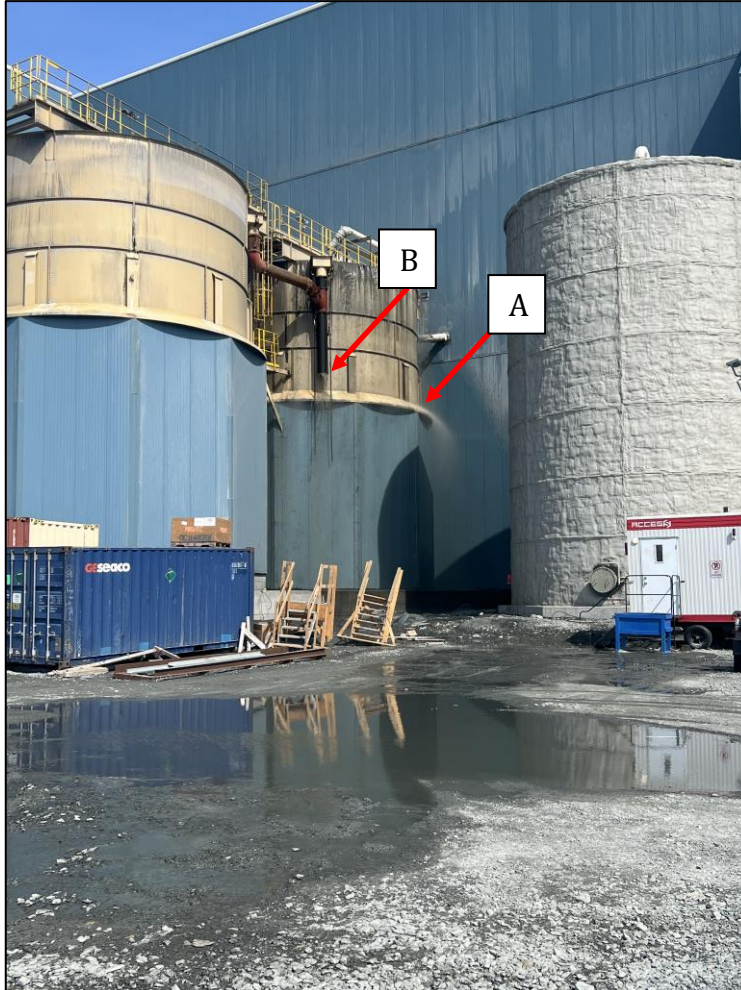


Photo 1: Thickener process water spill location. Arrow A indicates the shape of the tank resulting in overflow being deflected over the containment berm wall. Arrow B indicates the secondary overflow launder pipe that did not extend fully into the containment berm.



Photo 2: Secondary overflow collection pipe was ineffective in capturing overflow as the tank wall blocked the flow of water into the collection pipe. Photos of both tanks are shown prior to corrective actions being implemented.



Photo 3: Spill location post remediation.



Photo 4: Completed corrective action of cutting-away the tank wall to allow overflow to enter the secondary overflow collection pipe from both tanks.



Photo 5: Completed corrective action of extending the secondary overflow collection pipe to discharge directly into the containment berm wall.



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 06-06-2024		REPORT TIME 11:00		<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR 06-06-2024		OCCURRENCE TIME 4:30			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01			WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project				REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21			LONGITUDE DEGREES +2 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Sewage		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 1.5 cubic meters		U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A		U.N. NUMBER N/A	
I	SPILL SOURCE Sewage Treatment Plant		SPILL CAUSE Overflow		AREA OF CONTAMINATION IN SQUARE METRES 12	
J	FACTORS AFFECTING SPILL OR RECOVERY None		DESCRIBE ANY ASSISTANCE REQUIRED None		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p>Approximately 1.5m3 of sewage spilled onto the industrial pad at the Main Camp Sewage Treatment Plant. The spill was contained to the local area. Clean-up activities were immediately undertaken.</p> <p>The coordinates of the spill are 63°2'23" N 92°13'33.47" W. No water bodies were impacted by this spill. The nearest natural water body (Lake G2) is 360 m Northwest.</p> <p>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed.</p> <p>Reported by Alexandre L. Bourassa, Environment Coordinator, 819-759-3555 ext. 4603996, alexandre.langlais-bourassa@agnicoeagle.com.</p>					
L	REPORTED TO SPILL LINE BY Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555	
M	ANY ALTERNATE CONTACT Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT LOCATION Meliadine	ALTERNATE TELEPHONE 819-759-3555	
REPORT LINE USE ONLY						
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130	
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS		
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						

July 30th, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC 0G0

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-217 – Release of 1.5m³ of Sewage at the Meliadine Gold Mine

On June 6th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 1.5m³ of sewage at the Meliadine Gold Mine site (spill location coordinates: 63° 2'23" N, 92° 13'33.47" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

Description of Incident

On June 6th, 2024, at approximately 04:30, an estimated 1.5m³ of sewage was spilled onto the industrial pad of the Sewage Treatment Plant (STP). An electrical relay failure in a pump system modified the normal sequencing of three valves, allowing these valves to be actuated in the wrong position. This caused treated effluent to be transported back into the aerobic tanks while they were receiving raw sewage for treatment, exceeding the aerobic tank capacity and resulting in an overflow from aerobic tank #2.

No water bodies were affected by the spill. The closest water body, Lake G2, is approximately 350 meters northwest, as seen in Figure 1.



Figure 1: Location of the sewage spill and proximity to water bodies.

Response and Remediation

Upon discovery of the spill, the STP operator notified their supervisor and manually closed the valve between the treated effluent tank and aerobic tank #2. The operator then lowered the aerobic tank #2 level with a vacuum truck to prevent further overflow. Instrumentation was called to replace the faulty electrical relay. Once the spill was under control, a vacuum truck was dispatched to collect the free-standing liquid inside and outside the STP. Additionally, the ground surface was excavated, and the recovered material was transported to Landfarm A in accordance with the Spill Contingency Plan.

Root Cause and Corrective Measures

An incident assessment was conducted soon after the incident occurred to determine the root cause and contributing factors. The assessment concluded with the following:

- The STP operator observed the aerobic tanks levels increasing throughout the day of the 5th. Following de-sludging to lower the tank levels, no physical validation was done to confirm the STP was running in normal mode. The Human-Machine Interface (HMI) indicated that the system was running as normal, but with the faulty electrical relay, the valves were in the wrong position.
- Multiple high and high/high alarms were sent to STP's PLC from 13:10 to 18:16 on the 5th, but alarms sent after 16:40 were not acknowledged due to a lack of staff on night shift. At the time of the spill, there was no established night shift operator position or support staff with sufficient knowledge of the system.
- The existing procedures and checklists were inadequate for the available supporting staff.
- Alarms sent to the Energy and Infrastructure (E&I) Supervisor's radio do not include high levels on specific equipment like aerobic tanks. Only general alarms are sent to the Supervisor's radio. No specific alarms are sent to STP operator's radio during night shift as well.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- Implemented on June 2nd, a designated radio number for the E&I Supervisor on duty (day and night shifts) has been established.
- Implemented on June 11th, a detailed set of general operating procedures and an STP start-up checklist is implemented to ensure a thorough verification process prior to the commencement of the STP operation, including the HMI verification and a physical tour of the plant to validate what the HMI is showing.
- Implemented on June 19th:
 - training sessions for STP and EWTP operators (for night shift coverage) from an experienced operator will be ongoing daily to build capacity on site.



- a daily end-of-day meeting with the STP operators, the E&I supervisors (day and night shifts), the experienced STP operator, and the Environment department personnel to review and validate operational metrics, action items, and allow the supervisors to be updated on the STP operational status.
- a revised checklist is now filled out by the STP operator to be reviewed at the end-of-day meeting.
- E&I are investigating the options for the STP operators and for the E&I supervisors to receive critical alarms on their radios.
- Training is being provided to the E&I night shift supervisors to recognize and prioritize alarms from the STP.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator

randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut, Canada X0C 0G0

agnicoeagle.com     

Sent from Meliadine

Appendix – Photos



AGNICO EAGLE

MELIADINE



Photos 1: Sewage spill location.



Photos 2: Sewage spill location post remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 06-08-2024	REPORT TIME 16:00	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input checked="" type="checkbox"/> UPDATE # 1 TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 06-07-2024	OCCURRENCE TIME 16:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 2 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Snowmelt water	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 3600 cubic metres	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Pumping of snowmelt water	SPILL CAUSE Human error	AREA OF CONTAMINATION IN SQUARE METRES N/A		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED None	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Snowmelt water was pumped from the KM 15 quarry on the tundra to avoid potential erosion and sedimentation from ponding water in the quarry. The planned discharge occurred 1 day before the end of the 10 day discharge notice issued to the Inspector. Pre-discharge water quality is compliant with the criteria outlined in Part D, Item 18 of the Licence. Approximate location of spill: 62 55'15.31'N, 92 3'46.98"W. The closest water body (Lake 900) is approximately 32 m northeast. Pursuant to Part H, Section 8c of the Water License, a follow-up report will be issued after a closer investigation is completed. Reported by Alexandre L. Bourassa, Environment Coordinator, 819-759-3555 ext. 4603996, alexandre.langlais-bourassa@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

July 5th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
X0C 0G0

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-223– Snowmelt water release at the Meliadine Gold Mine, Borrow Pit B12

On June 8th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca), as due diligence, of a potential exceedance at the Meliadine Gold Mine, borrow pit B12 (release location coordinates: 62 55'15.31"N, 92 3'46.98"W).

This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with the following:

- Nunavut Water Board 2AM-MEL1631 Water Licence, Part H, Item 8c.

Description of Incident

On June 7th, 2024, at approximately 16:00, an employee performing a surface runoff inspection at borrow pit B12 observed dewatering activities occurring within the borrow pit. Dewatering of borrow pits is typical after spring melt to prevent potential seepage, erosion and sedimentation from ponding water within the borrow pit, and to allow access to construction material located within or near the standing water. This planned discharge occurred one day before the end of the 10-day discharge notice issued to the Inspector and before the pre-discharge water quality results were received from an accredited laboratory.

No water bodies were affected by the spill. The closest water body, Lake 900, is approximately 45 meters northeast, as seen in Figure 1.



Figure 1: Location of the release of snowmelt water.

Response and Remediation

The employee contacted the Water Management Supervisor to notify them of the ongoing pumping and to shut down the pump. Field measurements did not indicate a potential exceedance of the effluent quality limits listed under Part D, Item 18 of the 2AM-MEL1631 Water Licence. Samples were collected as due diligence and sent to an external laboratory for analysis. A grab sample was also taken for internal analysis of Total Suspended Solids (TSS). Results for internal and external analysis are presented in Table 1, both before discharge (May 18th) and after discharge (June 8th). The Certificates of Analysis for both regulatory samples can be found in Appendix A.

Table 1: Results from internal and external analysis of May 28th and June 8th samples.

Date	Parameter	Value	2AM-MEL1631 Part D, Item 18	
			Maximum Monthly Mean Concentration	Maximum Concentration in a Grab Sample
2024-05-28	Total Suspended Solids (mg/L)	11	50	100
	pH	7.03	Between 6.0 and 9.5	Between 6.0 and 9.5
	Oil and grease	No visible sheen	No visible sheen	No visible sheen
2024-06-08	Total Suspended Solids (mg/L)	16	50	100
	pH	7.23	Between 6.0 and 9.5	Between 6.0 and 9.5
	Oil and grease	No visible sheen	No visible sheen	No visible sheen

Both the May 28th and June 8th samples show that results were compliant with the effluent quality limits listed under Part D, Item 18 of the 2AM-MEL1631 Water Licence. Thus, the event was reported as due diligence and is not an exceedance under Part D Item 18 of the 2AM-MEL1631 Water Licence.

Root Cause and Corrective Measures

An incident assessment was conducted soon after the incident occurred to determine the root cause and contributing factors. The assessment concluded with the following:

- On June 7th, following instructions from the dayshift supervisor, nightshift personnel positioned a diesel pump at the borrow pit for dewatering in anticipation of authorization



from the Environment department. However, due to an error in judgment by the dayshift personnel, the pump was activated prematurely.

- Dewatering can only commence when the Environment department receives a Pumping Authorization – Critical Infrastructure form. The Environment department did not receive this form for sign off before dewatering occurred.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- Dewatering pumps will no longer be put in place in advance of dewatering, only after the 10 days' notice to regulators has passed, and results have been confirmed to comply with the relevant effluent quality limits.
- The Pumping Authorization – Critical Infrastructure form will be reinforced by the Environment and E&I personnel. Once filled out and approved by the Environment department, E&I supervisors will provide a copy of the form to the person responsible for dewatering.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix A – Certificates of Analysis



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 06-10-2024		REPORT TIME 14:15		<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input checked="" type="checkbox"/> UPDATE # 1 TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	B	OCCURRENCE DATE: MONTH – DAY – YEAR 06-09-2024		OCCURRENCE TIME 16:00		
C		LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01		WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631		
	D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project			REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E		LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES +2 MINUTES 13 SECONDS 41		
	F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0		
G		ANY CONTRACTOR INVOLVED N/A		CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
	H	PRODUCT SPILLED Sewage		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 50 Liters		U.N. NUMBER N/A
I		SECOND PRODUCT SPILLED (IF APPLICABLE) N/A		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A		U.N. NUMBER N/A
	J	SPILL SOURCE C-wing holding tank		SPILL CAUSE Overflow		AREA OF CONTAMINATION IN SQUARE METRES 2m2
K		FACTORS AFFECTING SPILL OR RECOVERY None		DESCRIBE ANY ASSISTANCE REQUIRED None		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None
	L	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Wastewater changed for sewage with further information. An employee walking by observed sewage spilling on the ground by the C-wing lift station, on the industrial pad. Additional investigation is required to find the root cause of the spill. Clean-up activities were immediately undertaken. The approximate coordinates of the spill are 63° 2'22.94"N, 92°13'32.86"W. No water bodies were impacted by this spill. The closest natural water body (Lake G2) is approximately 375 m northwest. Pursuant to Part H, Section 8c of the Water License, a follow-up report will be issued after a closer investigation is completed. Reported by Alexandre L. Bourassa, Environment Coordinator, 819-759-3555 ext. 4603996, alexandre.langlais-bourassa@agnicoeagle.com.				
M		REPORTED TO SPILL LINE BY Alex L. Bourassa		POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine
	N	ANY ALTERNATE CONTACT Randy Schwandt		POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine
REPORT LINE USE ONLY						
N	RECEIVED AT SPILL LINE BY		POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
	LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME		CONTACT TIME	REMARKS	
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 06-10-2024	REPORT TIME 14:15	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 06-09-2024	OCCURRENCE TIME 16:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES +2 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Wastewater	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 50 Liters	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE C-wing holding tank	SPILL CAUSE Overflow	AREA OF CONTAMINATION IN SQUARE METRES 2m2		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED None	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS An employee walking by observed wastewater spilling on the ground by the C-wing lift station, on the industrial pad. Additional investigation is required to find the root cause of the spill. Clean-up activities were immediately undertaken. The approximate coordinates of the spill are 63° 2'22.94"N, 92°13'32.86"W. No water bodies were impacted by this spill. The closest natural water body (Lake G2) is approximately 375 m northwest. Pursuant to Part H, Section 8c of the Water License, a follow-up report will be issued after a closer investigation is completed. Reported by Alexandre L. Bourassa, Environment Coordinator, 819-759-3555 ext. 4603996, alexandre.langlais-bourassa@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

July 5th, 2024

Kyle Amsel
Water Resource Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
X0C 0G0

Sent via email: Kyle.Amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-218 – Release of 50 L of Sewage at the Meliadine Gold Mine

On June 10th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 50 L of sewage at the Meliadine Gold Mine site (spill location coordinates: 63° 2' 22.94" N, 92° 13' 32.86" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board License 2AM-MEL1631 Water License, Part H, Item 8c.

Description of Incidents

On June 9th, 2024, at approximately 16:00, an estimated 50 L of sewage was spilled onto the ground at the C-wing holding tank. An employee observed water dripping from the C-wing floor onto the ground. Upon investigation, the employee observed sewage overflowing from the holding tank and that a push button style faucet was stuck in open position, sending water to the holding tank, thus creating the overflow and spill outside of the building. The C-wing was not occupied at the time of the event and the sewage holding tank was left empty apart from minor residue.

No water bodies were affected by the spill. The nearest water body, Lake G2, is approximately 375 meters northwest, as depicted in Figure 1.

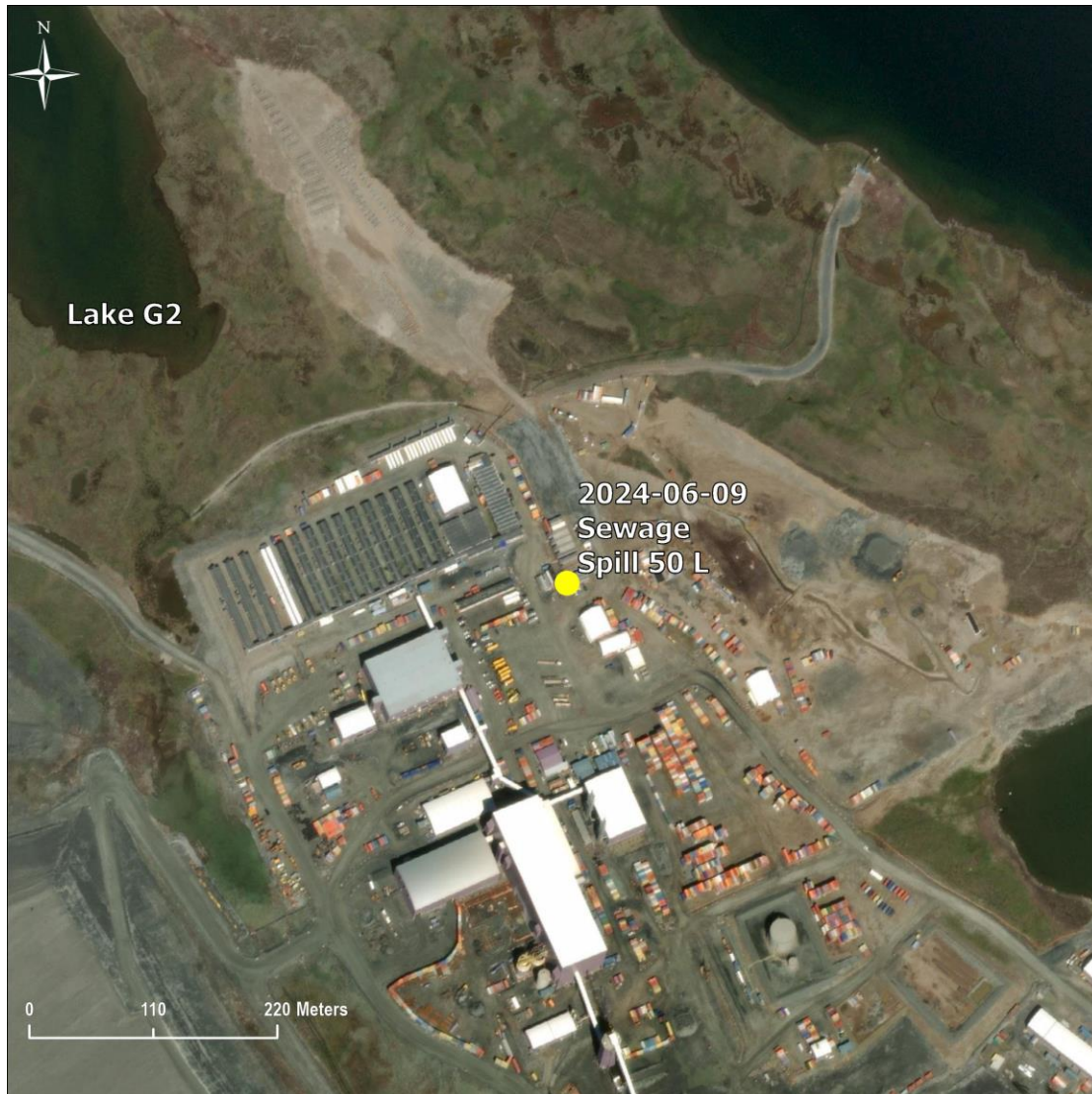


Figure 1: Location of the sewage spill and proximity to water bodies.

Response and Remediation

The employee closed the faucet and the water in the wing, then contacted the Energy and Infrastructure (E&I) maintenance supervisor report the spill and start remediation. After the event, the vacuum truck operator began cleaning up the building and the affected area outside.

Root Cause and Corrective Measures

An incident assessment was conducted shortly after the incident to determine the extent of the cleanup and confirm the contributing factors and root cause of the spill. The following cause of the spill incident was determined:

- A faulty push button style faucet was stuck in the open position.
- A solenoid was not installed on the High-high level alarm system for it to perform, so it was not triggered.
- There is no strobe on that wing indicating that the High-high level alarm was triggered.

To address the root cause and reduce the likelihood of a recurrence, the following corrective and preventative actions have been implemented:

- A solenoid will be installed on the High-high level alarm system and a strobe will be installed on the building to notify the triggering of the alarm. The work is in planning and will be completed by September 30th.
- When not in use, the water in C-wing will be turned off and the wing will be locked from outside from now on.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix A – Photos

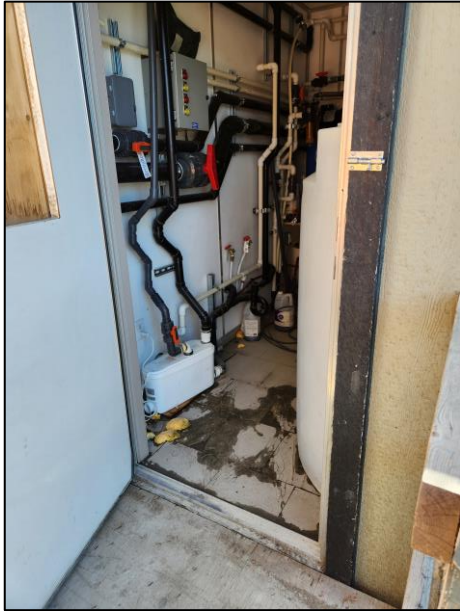


Photo 1: Spill location post remediation.



Photo 2: Spill location post remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 06-20-2024	REPORT TIME 13:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 06-19-2024	OCCURRENCE TIME 20:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Hydraulic Oil	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 200 Liters	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE 988K Loader	SPILL CAUSE Equipment Failure	AREA OF CONTAMINATION IN SQUARE METRES 2 m2		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED None	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Loader was working at OP2 extension open pit marginal stockpile when the operator heard an unusual noise. Upon inspection, operator discovered a hydraulic leak that resulted in emptying the hydraulic tank. Spill was contained and clean-up activities were immediately undertaken. The approximate coordinates of the spill are 63° 2'2.66"N, 92°13'0.13"W. No water bodies were impacted by this spill. The closest natural water body (Lake H5) is approximately 618 m southeast. Pursuant to Part H, Section 8c of the Water License, a follow-up report will be issued after a closer investigation is completed. Reported by Randy Schwandt, Environment Coordinator, 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT LOCATION Meliadine	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

July 17th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-234 – Release of 200 L of Hydraulic Oil at the Meliadine Gold Project

On June 20th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 200 L of Hydraulic Oil at the Meliadine Gold Project site (spill location coordinates: 63 2'2.66"N, 92 13'0.13"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On June 19th, 2024, at approximately 8:00PM, a loader operator heard an unusual noise while working at the OP2 extension open pit marginal stockpile. Upon inspection, it was discovered that a hydraulic hose broke and a leak had occurred, resulting in the hydraulic tank being completely emptied on the ore pad.

No waterbodies were impacted by the spill. The closest water body (Lake H5) is approximately 618 meters southeast, as shown in Figure 1.

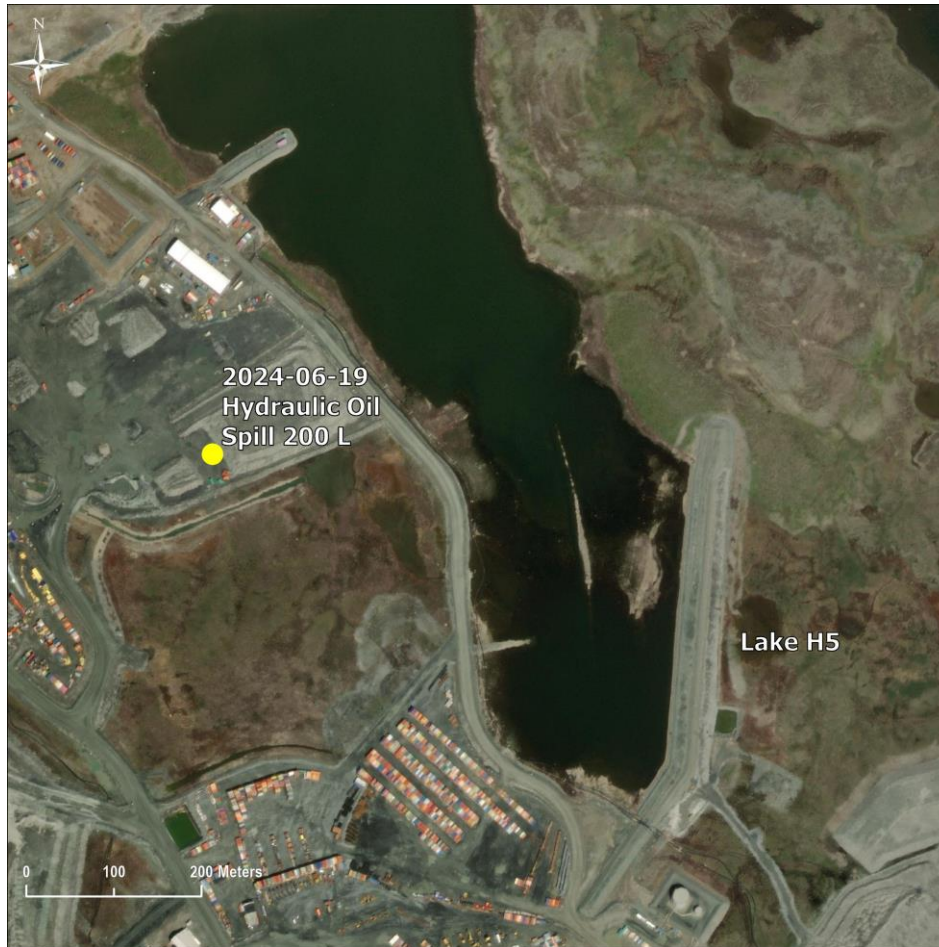


Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

The operator's immediate response was to shut down the loader. The operator then contacted their supervisor to report the incident. Spill absorbent pads were deployed to recover the pooling surface oil and contain the spill. The contaminated material was subsequently excavated and directed to the primary crusher for processing through the Process Plant.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:






- The hose fitting was not crimped to the required specification, so it could not withstand the rated pressure and shock resistance of the hose.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- Both the Maintenance and Open Pit departments reviewed the crimping procedure in their safety meetings and emphasized the importance of inspecting the quality of the fitting.
- Quality control checks have been added in the crimping procedure.
- The specific crimper that was used for this hose was an older model that was not supposed to be used anymore. This crimper has now been locked out to prevent further use.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix A – Photos



Photo 1: Hydraulic oil spill location at OP2.



Photo 2: Hydraulic oil spill location post remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 06-24-2024	REPORT TIME 8:05	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 06-23-2024	OCCURRENCE TIME 8:30			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 50 Litres	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE MSB Lift station	SPILL CAUSE Equipment failure	AREA OF CONTAMINATION IN SQUARE METRES 1		
J	FACTORS AFFECTING SPILL OR RECOVERY N/A	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Approximately 50 L of sewage spilled onto the industrial pad at the MSB lift station due to a site power outage. The spill was contained to the local area. Clean-up activities were immediately undertaken. The coordinates of the spill are 63° 2' 21.24''N, 92° 13' 40.67''W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 325 m northwest. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Randy Schwandt, Environment Coordinator, 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION GEnv. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

July 21st, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-236 – Release of 50 L of Sewage at the Meliadine Gold Mine

On June 23rd, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a sewage spill of approximately 50 L at the Meliadine Gold Project site (spill location coordinates: 63° 2' 21.24" N, 92° 13' 40.67" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On June 23rd, 2024, at approximately 8:30 AM, an estimated 50 liters of sewage spilled onto the industrial pad at the Multi-Service Building (MSB) lift station. A brief power outage at the MSB caused the Variable Frequency Drives (VFDs) to malfunction, thus stopping the sump pumps. When the vacuum truck operators arrived to discharge sewage from the truck into the lift station, the tank overflowed from the inlet pipe, leading to the spill.

No water bodies were affected by the spill. The nearest water body, Lake G2, is approximately 325 meters northwest, as shown in Figure 1.



Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

Upon seeing the pipe overflow, the vacuum truck operators took immediate action by promptly vacuuming the tank to contain the spill. Subsequently, the E&I Maintenance supervisor was alerted to the pump malfunction. Electricians were quickly dispatched to restart the system, ensuring the incident would not reoccur. The sewage impacted area was hand excavated and the recovered material was brought to Landfarm A as per the Spill Contingency Plan.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:






- The VFDs did not have the right control parameters, causing them to malfunction following the power outage. The VFDs start automatically when the high-level signal in the lift station switches from off to on. Since the high-level signal was already at the “on” position prior to the power outage, the VFDs did not detect the high-level signal.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- The VFDs parameters were modified to ensure they would restart right away if the tanks were at a high level. The electrical team simulated a power outage to ensure these parameters would work and the test was successful.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator
randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix A – Photos



Photo 1: Spill location prior to remediation



Photo 2: Spill location following remediation.



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 06-28-2024		REPORT TIME 9:34		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____	
B	OCCURRENCE DATE: MONTH – DAY – YEAR 06-28-2024		OCCURRENCE TIME 6:30					
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01			WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631				
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project				REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN			
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21			LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41				
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0					
G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR ADDRESS OR OFFICE LOCATION N/A					
H	PRODUCT SPILLED Sewage		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 100 Litres			U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A			U.N. NUMBER N/A		
I	SPILL SOURCE Wing 13 Lift station		SPILL CAUSE Equipment failure			AREA OF CONTAMINATION IN SQUARE METRES 2		
J	FACTORS AFFECTING SPILL OR RECOVERY N/A		DESCRIBE ANY ASSISTANCE REQUIRED N/A			HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	<p>ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS</p> <p>Approximately 100 L of sewage spilled onto the industrial pad at the Wing 13 lift station due to a control box failure. The spill was contained to the local area. Clean-up activities were immediately undertaken.</p> <p>The coordinates of the spill are 63° 2'22.50"N, 92°13'53.59"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 200 m North.</p> <p>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed.</p> <p>Reported by Randy Schwandt, Environment Coordinator, 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com.</p>							
L	REPORTED TO SPILL LINE BY Randy Schwandt		POSITION Env. Coordinator		EMPLOYER AEM		LOCATION CALLING FROM Meliadine	
							TELEPHONE 819-759-3555	
M	ANY ALTERNATE CONTACT Alex L. Bourassa		POSITION Env. Coordinator		EMPLOYER AEM		ALTERNATE CONTACT Meliadine	
							ALTERNATE TELEPHONE 819-759-3555	
REPORT LINE USE ONLY								
N	RECEIVED AT SPILL LINE BY		POSITION STATION OPERATOR		EMPLOYER		LOCATION CALLED YELLOWKNIFE, NT	
							REPORT LINE NUMBER (867) 920-8130	
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC					SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY		CONTACT NAME			CONTACT TIME		REMARKS	
LEAD AGENCY								
FIRST SUPPORT AGENCY								
SECOND SUPPORT AGENCY								
THIRD SUPPORT AGENCY								

July 27, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-249 – Release of 100 L of Sewage at the Meliadine Gold Project

On June 28th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of an overflow of approximately 100 L of sewage at the Meliadine Gold Project site (spill location coordinates: 63° 2' 22.50" N, 92° 13' 53.59" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On June 28th, 2024, at approximately 6:30AM, an estimated 100 L of sewage was spilled onto the industrial pad at the Wing 13 lift station. The primary lift station pump became clogged with non-compliant material which caused the pump to fail. Subsequently, the lift station control box failed to initiate the lift station's secondary pump. Due to the primary pump failing and the secondary pump not initiating, the lift station overflowed, and sewage was spilled onto the industrial pad.

No waterbodies were impacted by the spill. The closest water body (Lake G2) is approximately 200 meters north, as seen in Figure 1.



Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

Upon discovery of the spill, personnel from the Energy and Infrastructure Maintenance department manually initiated the secondary lift station pump which stopped the spill. Subsequently, the primary pump was unclogged and reset. The plumber on duty then tested the system to ensure that it was working properly. They then called the vacuum truck to recover the spilled material inside the lift station and on the ground outside of the lift station. The ground surface was then excavated using heavy equipment and the contaminated material was brought to Landfarm A as per the Spill Contingency Plan.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:

- The primary lift station pump failed due to being clogged with non-compliant material that had been flushed down the toilet.
- The control box failed to initiate the secondary lift station pump when the primary pump had failed.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- The control box for the Wing 13 lift station was replaced on July 1st.
- An alarm system was installed on July 1st that will notify responsible personnel when a pump failure occurs through the Human Machine Interface (HMI) system. A radio and email notification will be sent.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator

randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut, Canada X0C 0G0

agnicoeagle.com     

Sent from Meliadine

Appendix A – Photos



Photo 1: Spill location prior to remediation.



Photo 2: Spill location following remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 06-30-2024	REPORT TIME 17:45	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 06-29-2024	OCCURRENCE TIME 23:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 615 Litres	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Aerobic Tank 2 (STP)	SPILL CAUSE Equipment failure	AREA OF CONTAMINATION IN SQUARE METRES 12		
J	FACTORS AFFECTING SPILL OR RECOVERY N/A	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Approximately 615 L of sewage spilled onto the industrial pad at the Sewage Treatment Plant due to a system failure of the aerobic tank 2. The spill was contained to the local area. Clean-up activities were immediately undertaken. The coordinates of the spill are 63° 2'22.81"N, 92°13'33.37"W. No water bodies were impacted by this spill. The nearest natural water body (Lake G2) is 370 m North. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Randy Schwandt, Environment Coordinator, 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

July 28, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-251 – Release of 615 L of Sewage at the Meliadine Gold Project

On June 30th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of an overflow of approximately 615 L of sewage coming from aerobic tank 2 at the Sewage Treatment Plant at the Meliadine Gold Project site (spill location coordinates: 63 2'22.81"N, 92 13'33.37"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On June 29th, 2024, at approximately 23:00, membrane 3 in the Sewage Treatment Plant (STP) was triggered due to a shutdown which caused the aerobic tank 2 to overflow, releasing approximately 615 L sewage onto the industrial pad. High temperature coming from the blower on membrane 3 exceeded the maximum temperature threshold of the temperature sensor which caused membrane 3 to shut down, resulting in the overflow from aerobic tank 1.

The spill occurred within the site's water management infrastructure, and as such, no water bodies were impacted by the spill. The closest water body, Lake G2, is approximately 370 meters northwest, as seen in Figure 1.



Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

The response time for this spill was delayed due to inefficiencies with the alarm system for the STP contributing to a longer duration of overflow from aerobic tank 2. At the time of the spill, there were two simultaneous alarms, one at the STP and another at the Water Treatment Plant (WTP), which caused some confusion during the response. The Effluent Water Treatment Plant (EWTP) operator responded to the alarm at the PWTP before responding to the alarm at the STP.

The EWTP operator responding to the STP alarm on night shift immediately pressed the emergency stop button when they arrived at the STP which stopped the spill and contacted the Energy & Infrastructure (E&I) supervisor. The STP operator was called out to assess and rectify

the issue and recommence treatment through membrane 3. A vacuum truck was dispatched to collect the spilled material and redeposit it in the STP for treatment. Additionally, the ground surface was excavated, and the recovered material was disposed of in the Landfarm A in accordance with the Spill Contingency Plan.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:

- The temperature sensor on the blower associated with membrane 3 was reading overrange and triggering membrane 3 to shut down. The volume in upstream aerobic tank 2 was no longer being regulated resulting in the overflow.
- The alarm system does not distinguish between the STP and WTP when multiple alarms occur simultaneously.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- Ventilation has been improved within the membrane 3 system to regulate the temperature in membrane 3 and reducing the likelihood of a system shut down due to a temperature exceedance.
- Improvements to the alarm system at the STP and WTP were completed to distinguish between the two facilities and increase the accuracy of the alarm notifications that are sent to the E&I Maintenance team.
- A flow chart describing the required actions to be taken when an STP alarm is triggered has been created and reviewed with the team.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



AGNICO EAGLE

MELIADINE

agnicoeagle.com
Sent from Meliadine



Appendix A – Photos



Photo 1: Sewage spill location.



Photo 2: Sewage spill location post remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 07-02-2024	REPORT TIME 8:20	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 07-01-2024	OCCURRENCE TIME 18:30			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 100 Litres	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Wing 16 Lift station	SPILL CAUSE Equipment failure	AREA OF CONTAMINATION IN SQUARE METRES 2		
J	FACTORS AFFECTING SPILL OR RECOVERY N/A	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Approximately 100 L of sewage spilled onto the industrial pad at the Wing 16. Investigation is currently on-going to determine root cause. The spill was contained to the local area. Clean-up activities were immediately undertaken. The coordinates of the spill are 63° 2'26.20"N, 92°13'33.92"W. No water bodies were impacted by this spill. The nearest natural water body (Lake G2) is 310 m North. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Randy Schwandt, Environment Coordinator, 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

July 30th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-253 – Release of 100 L of Sewage at the Meliadine Gold Project

On July 2nd, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of an overflow of approximately 100 L of sewage at the Meliadine Gold Project site (spill location coordinates: 63° 2'26.20"N, 92° 13'33.92"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On July 1st, 2024, at approximately 18:30, an estimated 100 L of sewage was spilled onto the industrial pad at the Wing 16 lift station. Upon inspection of the lift station, it was discovered that the lift station pumps were not installed correctly inside the tank. The improper installation resulted in a lack of space between the impeller and the floor of the lift station tank, resulting in solids building up around the pump impeller and clogging the pumps. The lift station overflowed, resulting in the spill.

The spill occurred within the site's water management infrastructure, and as such, no waterbodies were impacted by the spill. The closest water body (Lake G2) is approximately 310 meters north, as seen in Figure 1.



Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

The Energy and Infrastructure (E&I) Maintenance supervisor was notified that the Wing 16 toilets and showers were not functioning. Upon response, the E&I Maintenance supervisor discovered a spill and could not reset the lift station pumps. The water supply to Wing 16 was shutoff to stop the spill until the issue was resolved. The lift station tank was drained, and the free-standing liquid was recovered with the vacuum truck. The blades on the lift station pumps were replaced and the pumps were installed as per the manufacturer's recommendations. The contaminated material was excavated and brought to the Landfarm A as per the Spill Contingency Plan.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:






- The Wing 16 lift station pumps were not installed correctly inside of tank causing the pumps to become clogged and fail.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- The blades on the lift station pumps were replaced and installed correctly inside of the tank.
- The development of a pre-commissioning checklist for new sewage management system installations is underway. This will include the verification of the proper installation of lift stations.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator
randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix A – Photos



Photo 1: Sewage spill location



Photo 2: Spill location post remediation.



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 07-08-2024	REPORT TIME 08:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 07-07-2024	OCCURRENCE TIME 13:30			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01		WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED Moreau	CONTRACTOR ADDRESS OR OFFICE LOCATION 160, boulevard Industriel, Rouyn-Noranda (Quebec) J9X 6T3			
H	PRODUCT SPILLED Hydraulic Oil	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 200 Litres	U.N. NUMBER 3082		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE 1000L tote	SPILL CAUSE Dropped tote	AREA OF CONTAMINATION IN SQUARE METRES 12		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED None	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS While moving a tote of waste hydraulic oil, the tote slid off the skids and tipped over, allowing a portion of its contents to spill to the ground. Approximate location of spill: 63° 01'37.83"N, 92° 12'40.48"W. The closest water body (Pond H4) is approximately 620 m northeast. Pursuant to Part H, Item 8c of the Water Licence, a follow-up report will be issued after a closer investigation is completed. Reported by Randy Schwandt/Alexandre Langlais-Bourassa, Environment Coordinator. 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com/alexandre.langlais-bourassa@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT LOCATION Meliadine	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

July 31st, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-256 – Release of 200 L of hydraulic oil at the Meliadine Gold Project

On July 8th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 200 L of hydraulic oil near Portal 1 at the Meliadine Gold Project site (spill location coordinates: 63° 01' 37.83" N, 92° 12' 40.48" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On July 7th, 2024, at approximately 13:30 200 L of hydraulic oil was spilled onto the industrial pad at Portal 1. An Underground Construction operator was transporting a 1,000 L tote of waste hydraulic oil using a telehandler. The operator observed another vehicle in their blind spot and made an abrupt stop. The tote slid off the forks of the telehandler and was tipped on its side, allowing waste hydraulic oil to spill from the fill hole on the top of the tote.

The spill occurred within the site's water management infrastructure, and as such, no waterbodies were impacted by the spill. The closest water body (Lake H5) is approximately 620 meters northeast, as seen in Figure 1.



Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

The equipment operator used the telehandler to right the tote and stop the spill and reported the spill to the Environment department and their supervisor. Spill pads and berms were used to contain the spill and an excavator was used to assist with the remediation process. Approximately 3m³ of contaminated material was excavated and put into Quatrex bags and disposed of in a hazardous waste sea-can.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:






- The tote was not strapped securely on the forks.
- The operator did not inspect the tote before moving it and the tote cap was found to be loose.
- The forks on the forklift were not widened and tilted while moving the tote.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- The Underground Construction supervisor provided a refresher on proper handling and storage of hazardous material totes. This refresher will be given to the other rotation's crew as well.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator
randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix A – Photos



Photo 1: Spill location.



Photo 2: Spill location post remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 07-11-2024	REPORT TIME 13:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 07-10-2024	OCCURRENCE TIME 14:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01		WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED	CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED Process water and ore	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 5m3	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Water from separators	SPILL CAUSE Blocked screens on separators	AREA OF CONTAMINATION IN SQUARE METRES 150		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED None	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS During trial tests of the new Vertimill, process water containing ore was spilled at the Process Plant. Around 5m3 made its way outside of the Process Plant. Approximate location of spill: 63° 02'12.31"N, 92° 13'30.22"W. The closest water body (Lake G2) is approximately 635 m northwest. Pursuant to Part H, Item 8c of the Water Licence, a follow-up report will be issued after a closer investigation is completed. Reported by Randy Schwandt/Alexandre Langlais-Bourassa, Environment Coordinator. 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com/alexandre.langlais-bourassa@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

August 8th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-263 – Release of 5m³ of Process water containing ore at the Meliadine Gold Project

On July 11th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 5m³ of process water containing ore at the Meliadine Gold Project site (spill location coordinates: 63° 02' 12.31" N, 92° 13' 30.22" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On July 10th, 2024, at approximately 14:00, an estimated 5m³ of process water was spilled outside of the Process Plant. The spill occurred during the preliminary tests of the newly commissioned Vertimill. A change in grain size during the trial caused the trash screens of the cyclone separator to be plugged. This created an overflow with volume too large to be contained by the grinding sump of the Process Plant, which consequentially flowed through the doors of the Process Plant and into the garage bay.

The spill occurred within the site's water management infrastructure, and as such, no waterbodies were impacted by the spill. The closest water body (Lake G2) is approximately 635 meters northwest, as seen in Figure 1.



Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

Upon observing the spill, the operator shut down the cyclone separator to prevent the process water from overflowing, effectively stopping further spillage. An ore berm was constructed inside the process plant to contain the spill. Following the event, the contaminated ground was excavated. All contaminated material was put in the reclaim feeder of the Process Plant to be recirculated.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:




- A change in grain size during a preliminary test of the new Vertimill caused the trash screen of the cyclone separator to be plugged and caused process water to spill through. The overflow had a volume too large for the grinding sump of the Process Plant to contain it.
- There were no sufficient barriers put in place preventing the overflow process water from flowing through the doors, causing the process water to flow to the garage bay (See Photos 1).

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- The grating on one of the trash screens of the grinding sump was modified to allow for more flow into the sump if an overflow occurs.
- A low angle metallic berm will be installed near the garage and main doors around the trash screen collection berm area to help contain an overflow of process water.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix A – Photos



Photo 1: Process water spill location.



Photo 2: Spill location post remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 7-17-2024		REPORT TIME 15:15		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____	
	B	OCCURRENCE DATE: MONTH – DAY – YEAR 7-16-2024		OCCURRENCE TIME 16:20			
C		LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01		WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
	D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project			REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E		LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41			
	F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G		ANY CONTRACTOR INVOLVED N/A		CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
	H	PRODUCT SPILLED Potable water		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Unknown		U.N. NUMBER N/A	
I		SECOND PRODUCT SPILLED (IF APPLICABLE) N/A		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A		U.N. NUMBER N/A	
	J	SPILL SOURCE Cooling sprayer		SPILL CAUSE Uncontained water cooling		AREA OF CONTAMINATION IN SQUARE METRES N/A	
K		FACTORS AFFECTING SPILL OR RECOVERY N/A		DESCRIBE ANY ASSISTANCE REQUIRED N/A		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None	
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Potable water used for cooling a generator radiator at the Power House was not contained and was released onto the ground outside of the Power House. Approximate location of spill: 63 2'16.32"N, 92 13'28.69"W. The closest water body (Lake G2) is approximately 550 m northwest. Pursuant to Part H, Item 8c of the Water Licence, a follow-up report will be issued after a closer investigation is completed. Reported by John Baechler, Environment General Supervisor. 819-759-3555 ext. 4603212, john.baechler@agnicoeagle.com.						
L	REPORTED TO SPILL LINE BY John Baechler		POSITION Env. Gen. Supervisor		EMPLOYER AEM		LOCATION CALLING FROM Meliadine
	TELEPHONE 819-759-3555						
M	ANY ALTERNATE CONTACT Randy Schwandt		POSITION Env. Coordinator		EMPLOYER AEM		ALTERNATE CONTACT Meliadine
	ALTERNATE TELEPHONE 819-759-3555		LOCATION				
REPORT LINE USE ONLY							
N	RECEIVED AT SPILL LINE BY		POSITION STATION OPERATOR		EMPLOYER		LOCATION CALLED YELLOWKNIFE, NT
							REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC				SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY		CONTACT NAME		CONTACT TIME		REMARKS	
LEAD AGENCY							
FIRST SUPPORT AGENCY							
SECOND SUPPORT AGENCY							
THIRD SUPPORT AGENCY							

August 15th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-278 – Release of 10 m³ of Potable Water at the Meliadine Gold Project

On July 17th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of an overflow of approximately 10 m³ of potable water from the Powerhouse Radiators at the Meliadine Gold Project site (spill location coordinates: 63° 2' 16.32" N, 92° 13' 28.69" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On July 16th, 2024, at 16:20, approximately 10 m³ of potable water spilled outside of the Power Plant. Due to the hot weather conditions, the Power Plant operator was concerned that radiator 3 would overheat. In response, the operator decided to connect a hose to the potable water system and begin showering water onto the radiator. The operator left the hose in place for an extended period before it was noticed. The potable water dripped off the radiator platform and onto the industrial pad, resulting in the spill.

The spill occurred within the site's water management infrastructure, and as such, no waterbodies were impacted by the spill. The closest water body (Lake G2) is approximately 550 meters northwest, as seen in Figure 1.



Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

An Environment department employee who was passing through the area noticed water dripping from a raised platform at the Power Plant. The employee immediately called the Energy and Infrastructure Maintenance supervisor who informed the Power Plant operator of the situation. The Power Plant operator advised their supervisor that the additional cooling of the potable water was required to ensure that radiator 3 does not overheat. When the radiator had cooled down, the potable water hose was turned off and the spill stopped. No remediation was needed for this incident as it was just fresh water.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:

- A hose was installed to supply potable water to cool radiator 3 at the Power Plant during a hot weather period. This was conducted against the recommendation of the radiator supplier, Wartsila, who ensured that the radiator would not overheat in those conditions.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- The potable water valve that the hose was connected to was identified and locked out. The system has now been disassembled. Operators have been informed to no longer use this system.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator

randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0

agnicoeagle.com     

Sent from Meliadine

Appendix A – Photos



Photo 1: Spill location during the incident.



Photo 2: Spill location post remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 2024-07-21	REPORT TIME 9:30	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 2024-07-21	OCCURRENCE TIME 5:30			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED	CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED Process water	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 200 L	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Vertimill (Process Plant)	SPILL CAUSE Solenoid failure	AREA OF CONTAMINATION IN SQUARE METRES 20		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED None	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS During trial tests of the new Vertimill, process water overflowed out of the trash screen. Around 200 L of process water made its way outside of the Process Plant. Approximate location of spill: 63° 2'11.74"N, 92°13'30.73"W. The closest water body (Lake G2) is approximately 645 m northwest. Pursuant to Part H, Item 8c of the Water Licence, a follow-up report will be issued after a closer investigation is completed. Reported by Randy Schwandt, Environment Coordinator. 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com				
L	REPORTED TO SPILL LINE BY Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

August 18th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-283 – Release of 200 L of Process water containing ore at the Meliadine Gold Project

On July 21st, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 200 L of process water containing ore at the Meliadine Gold Project site (spill location coordinates: 63° 02' 12.31" N, 92° 13' 30.22" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On July 21st, 2024, at approximately 05:30, an estimated 200 L of process water containing ore spilled at the Process Plant. A short-circuit on a solenoid caused the cyclone pump, the SAG Mill, and the SAG Mill conveyor to stop abruptly. This sudden stop caused an overflow of process water in the berm receiving the process water. The overflow was too large to be contained by the berm, which ended up spilling out of the Process Plant doors.

The spill occurred within the site's water management infrastructure, and as such, no waterbodies were impacted by the spill. The closest water body (Lake G2) is approximately 635 meters northwest, as seen in Figure 1.



Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

Upon observing the spill, the operator shut down the cyclone separator to prevent further spillage. Following the spill, the contaminated ground outside of the Process Plant was excavated and recirculated through the reclaim feeder. A work order was created to replace the solenoid and to install it in a more efficient location away from potential water exposures.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:

- The spill happened during crew change while preliminary tests of the newly commissioned Vertimill were ongoing. Water was found in the solenoid which tripped all the valves of the Vertimill.
- There is no secondary containment barrier to prevent the overflow from flowing out of the Process Plant garage bay.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- A close follow up on the cyclone operation on an hourly basis is now set in place to ensure that the cyclones do not become blocked.
- A low angle metallic berm will be installed near the garage and main doors around the trash screen collection berm area to help contain an overflow.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator

randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0

agnicoeagle.com

Sent from Meliadine



Appendix A – Photos



Photo 1: Spill location during the incident.



Photo 2: Spill location post clean-up.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 08-12-2024	REPORT TIME 15:20	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 08-12-2024	OCCURRENCE TIME 9:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED	CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 20 Litres	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE MSB lift station	SPILL CAUSE Human error	AREA OF CONTAMINATION IN SQUARE METRES 9		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED None	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS During a sewage transfer at the MSB lift station, the vacuum truck operator accidentally bumped the outlet valve of the truck in open position while moving the hose, resulting in a 20 liters sewage spill. Approximate location of spill: 63° 2' 21.24" N, 92° 13' 40.67" W. The closest water body (Lake G2) is approximately 325 m northwest. Pursuant to Part H, Item 8c of the Water Licence, a follow-up report will be issued after a closer investigation is completed. Reported by Randy Schwandt/Alexandre Langlais-Bourassa, Environment Coordinator. 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com/alexandre.langlais-bourassa@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

August 30th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
X0C 0G0

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-306 – Release of 20 L of Sewage at the Meliadine Gold Mine

On August 12th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a sewage spill of approximately 20 L at the Meliadine Gold Project site (spill location coordinates: 63° 2' 21.24" N, 92° 13' 40.67" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On August 12th, 2024, at approximately 09:00, an estimated 20 L of sewage spilled onto the industrial pad at the Multi-Service Building (MSB) lift station. During routine operation of the sewage vacuum truck, the operator was manipulating a transfer hose when they accidentally contacted the pump valve on the truck, inadvertently engaging the pump and resulting in 20 L of sewage being discharged from the hose onto the industrial pad.

The spill occurred within the site's water management infrastructure, and as such, no waterbodies were impacted by the spill. The nearest water body, Lake G2, is approximately 325 meters northwest, as shown in Figure 1.



Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

The vacuum truck operator immediately switched the pump valve back into the neutral position, thus stopping the spill. The employee then notified their supervisor as well as the environment department to assess the spill. The sewage impacted area was hand excavated and the recovered material was brought to Landfarm A as per the Spill Contingency Plan.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:

- The spill was caused by human error on the part of the sewage truck operator. The operator accidentally contacted the pump valve on the truck, inadvertently engaging the pump.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- A toolbox meeting was conducted with the Energy and Infrastructure (E&I) Operations team regarding the importance of keeping focused on the task at hand, and the consequences of sewage spills.
- The investigation of a replacement valve that would require two manipulations for the valve to be actuated is being investigated. This will prevent further spills due to accidental contact.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix A – Photos



Photo 1: Spill location prior to remediation.



Photo 2: Spill location following remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 08-20-2024	REPORT TIME 20:30	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 08-20-2024	OCCURRENCE TIME 17:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01		WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED	CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED Waste Oil	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 400 Litres	U.N. NUMBER UN 3082		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE 1000 L tote	SPILL CAUSE Punctured Tote	AREA OF CONTAMINATION IN SQUARE METRES 20		
J	FACTORS AFFECTING SPILL OR RECOVERY None	DESCRIBE ANY ASSISTANCE REQUIRED None	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS A loader was lifting a pallet of equipment at Dome 3 when the forks inadvertently made contact with a tote, resulting in a partial release of its contents onto the ground. The approximate location of the spill is 63° 1'37.67"N, 92°12'41.15"W. The nearest water body, Pond H5, is located approximately 616 meters to the northeast. Pursuant to Part H, Item 8c of the Water Licence, a follow-up report will be issued after a closer investigation is completed. Reported by Randy Schwandt/Alexandre Langlais-Bourassa, Environment Coordinator. 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com/alexandre.langlais-bourassa@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Randy Schwandt	POSITION Env. Coordinator	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

September 18th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-316 – Release of 400 L of Waste Oil at the Meliadine Gold Project

On August 20th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 400 L of waste oil at the Meliadine Gold Project site (spill location coordinates: 63° 1'37.67"N, 92°12'41.15"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On August 20th, 2024, at approximately 17:00, a skid steer operator was moving a small bin of equipment when the forks inadvertently contacted a waste oil tote at Dome 3, Portal 1. The forks punctured the tote resulting in a release of 400 L of waste oil.

The spill occurred within the site's water management infrastructure, and as such, no waterbodies were impacted by the spill. The closest water body (H5) is approximately 616 meters northeast, as shown in Figure 1.



Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

The equipment operator immediately contacted the Underground Construction Supervisor and the Environment Department. Both parties immediately responded to assess the spill and aid with response and remediation. Employees in the area plugged the hole in the tote to prevent further spillage and deployed spill pads, spill booms, and absorbent to contain spill. A loader was dispatched to excavate the contaminated soil, and the recovered contaminated material was brought to Landfarm A as per the Spill Contingency Plan.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:






- The equipment operator placed a waste oil tote outside of secondary containment in a high traffic area.
- The equipment operator did not have a spotter and did not realize how far the forks were extended beyond the load that was being transported. Due to this, they misjudged the distance between the forks and the waste oil tote, puncturing the tote.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- A toolbox meeting was conducted with the Underground Construction department, with a focus on the proper storage of hazardous materials, the use of secondary containment and the importance of using a mandatory spotter when moving materials on site.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator
randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix A – Photos



AGNICO EAGLE

MELIADINE



Photo 1: Waste oil spill location at Dome 3, Portal 1.



Photo 2: Waste oil spill location post remediation.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 09-29-2024	REPORT TIME 12:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER _____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 09-28-2024	OCCURRENCE TIME 13:00			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41		
F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Contact water	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Unknown	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Ponded water	SPILL CAUSE Significant precipitation	AREA OF CONTAMINATION IN SQUARE METRES Unknown		
J	FACTORS AFFECTING SPILL OR RECOVERY N/A	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Due to significant precipitation, localized water ponding occurred south of Waste Rock Storage Pile 3, resulting in contact water flow over a nearby road outside of the site's water management infrastructure. Immediate measures were implemented to stop the release and control downstream sediment and erosion. Approximate location of spill: 63 01'22.97"N, 92 11'28.64"W. The closest water body (Pond J5) is approximately 155 m southeast. Pursuant to Part H, Item 8c of the Water Licence, a follow-up report will be provided. Reported by Kyle Conway, Environment General Supervisor. 819-759-3555 ext. 4603212, kyle.conway@agnicoeagle.com.				
L	REPORTED TO SPILL LINE BY Kyle Conway	POSITION Env. Supervisor	EMPLOYER AEM	LOCATION CALLING FROM Meliadine	TELEPHONE 819-759-3555
M	ANY ALTERNATE CONTACT Alex L. Bourassa	POSITION Env. Coordinator	EMPLOYER AEM	ALTERNATE CONTACT Meliadine LOCATION	ALTERNATE TELEPHONE 819-759-3555
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					



October 28th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-374 – Release of 2m³ of contact water at the Meliadine Gold Mine

On September 29th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of contact water flow over a roadway at the Meliadine Gold Mine (coordinates: 63 01' 22.97" N, 92 11' 28.64" W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.
- The Government of Canada Fisheries Act, Subsection 38(5)

Description of Incident

On September 28th, 2024, at approximately 1:00PM, it was noted during a routine inspection of water management infrastructure that accumulated water along the southern toe of Waste Rock Storage Facility 3 (WRSF3) was overflowing a low-profile area of the exploration camp road. An estimated 2m³ of runoff water made its way into the tundra at the MEL-SR-16 location. The accumulation of water was the result of several days of heavy rainfall leading up to the event, along with record precipitation received during the month of September.

Water accumulation along the toe of WRSF3 is managed by pumping the water to the site water management ponds. During the period of heavy rainfall before the event, water levels in this area had been noted to be increasing, and as such, the existing pump was in place to draw down the ponded water. Due to the intensity of the rainfall event, it led to a rate of water accumulation higher than the pump could manage, which led to the overflow and release of contact water.

Upon further investigation following the initial spill report, the closest waterbody (J5) is approximately 90 m southeast, as seen in Figure 1.



Figure 1: Location of the release and proximity to waterbodies.

Response and Remediation

Leading up to the event, it was observed during a routine inspection that water accumulation was increasing in the area and starting to encroach upon the road. A decision was made to substitute the existing 4" pump with a larger 6" pump and waterline to overcome the rate of accumulation before the water could overtop the roadway. The larger capacity pump was able to draw down the water level, however, water overtopped the road and was released for a short duration, from approximately 1:00PM to 4:30PM.

Upon discovering the runoff, erosion and sediment control measures were installed to prevent sedimentation in the tundra. Water quality samples and field readings were collected for analysis and an additional sample was collected for internal analysis of Total Suspended Solids (TSS) to provide an immediate indication of water quality.

Results from internal analysis indicated TSS were below criteria listed under Part D, Item 18 of the Water Licence. The internal TSS result for the MEL-SR-16 sample was 0 mg/L, and the internal TSS result for the WRSF3-South sample was 5 mg/L. Table 1 presents the results from the external accredited laboratory analyses.

Table 1: External laboratory results from analysis of September 28th grab samples.

Parameter	Unit	WRSF3-South	MEL-SR-16	2AM-MEL1631 Part D, Item 18	
				Maximum Authorized Monthly Mean Concentration	Maximum Authorized Concentration in a Grab Sample
Total Suspended Solids (mg/L)	(mg/L)	13	<1	50	100
Oil and Grease	(mg/L)	0.90	<0.50	No Visible Sheen	No Visible Sheen
pH	pH	7.86	7.80	Between 6.0 and 9.5	Between 6.0 and 9.5

Results from the full suite of water quality analysis, presented in Appendix B, were also compared to the effluent quality limits outlined in Water License 2AM-MEL1631 Part F, Item 3. The water quality was within acceptable limits and supports the assessment that the water was not indicative of contact water. Thus, no significant impact is expected at the location of the release.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:



- The 4" pump installed at the southern toe of WRSF3 lacked the capacity to keep up with the inflows from the heavy rain event.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- A 6" waterline was installed at the southern toe of WRSF3.
- The 4" line was left in place should a second pump ever need to be installed at the WRSF3 to control water accumulation in the future.
- Following the runoff event, additional aggregate was placed in the low spot of the road to prevent runoff from that area.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Kyle Conway | Environment General Supervisor

kyle.conway@agnicoeagle.com | Direct 819.759.3555 x4603212 | Mobile 819.860.1033

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut, Canada X0C 0G0

agnicoeagle.com     

Sent from Meliadine

Appendix A – Photos



Photo 1: Location of the runoff event.



Photo 2: Location of the runoff event after the and corrective actions.

Appendix B – Certificate of Analysis



Your P.O. #: OL-1381216
Site Location: Meliadine
Your C.O.C. #: 971892

Attention: Reporting

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

Report Date: 2024/10/21
Report #: R8369588
Version: 6 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4U9666

Received: 2024/10/02, 15:10

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2024/10/04	CAM SOP-00448	SM 24 2320 B m
Chloride by Automated Colourimetry	1	N/A	2024/10/04	CAM SOP-00463	SM 24 4500-Cl E m
Field Measured Dissolved Oxygen (3)	1	N/A	2024/10/03		Field pH Meter
Field Measured Conductivity (3)	1	N/A	2024/10/03		Field Meter
Fluoride	1	2024/10/03	2024/10/04	CAM SOP-00449	SM 24 4500-F C m
Mercury (low level)	1	2024/10/04	2024/10/04	CAM SOP-00453	EPA 7470 m
Low Level Chloride and Sulphate by AC (1)	1	N/A	2024/10/04	AB SOP-00020	SM24-4500-Cl/SO4-E m
Cyanide, Strong Acid Dissociable (SAD) (1)	1	2024/10/06	2024/10/06	CAL SOP-00270	SM 24 4500-CN m
Hardness Total (calculated as CaCO ₃) (2, 4)	1	N/A	2024/10/08	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO ₃) (2)	1	N/A	2024/10/08	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (2)	1	N/A	2024/10/08	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (dissolved) (2)	1	N/A	2024/10/08	BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (2)	1	2024/10/03	2024/10/08	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total) (2)	1	2024/10/04	2024/10/08	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Silica (Reactive) (1)	1	N/A	2024/10/08	AB SOP-00011	EPA 370.1 R1978 m
Total Ammonia-N	1	N/A	2024/10/04	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (5)	1	N/A	2024/10/04	CAM SOP-00440	SM 24 4500-NO3I/NO2B
Total Oil and Grease	1	2024/10/03	2024/10/04	CAM SOP-00326	EPA1664B m,SM5520B m
pH (6)	1	2024/10/03	2024/10/04	CAM SOP-00413	SM 24th - 4500H+ B
Field Measured pH (3)	1	N/A	2024/10/03		Field pH Meter
Orthophosphate	1	N/A	2024/10/04	CAM SOP-00461	SM 24 4500-P E
Calculated Total Dissolved Solids	1	N/A	2024/10/08		Auto Calc
Total Dissolved Solids	1	2024/10/03	2024/10/04	CAM SOP-00428	SM 24 2540C m
Field Temperature (3)	1	N/A	2024/10/03		Field Thermometer
Total Phosphorus (Colourimetric)	1	2024/10/03	2024/10/04	CAM SOP-00407	SM 24 4500-P I
Low Level Total Suspended Solids	1	2024/10/03	2024/10/04	CAM SOP-00428	SM 24 2540D m
Turbidity	1	N/A	2024/10/04	CAM SOP-00417	SM 24 2130 B
Turbidity - On-site	1	N/A	2024/10/03		



Your P.O. #: OL-1381216
Site Location: Meliadine
Your C.O.C. #: 971892

Attention: Reporting

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

Report Date: 2024/10/21
Report #: R8369588
Version: 6 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4U9666

Received: 2024/10/02, 15:10

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, EPA, APHA or the Quebec Ministry of Environment.

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 Calgary (19th), 4000 19th Street NE, Calgary, AB, T2E 6P8

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

(3) This is a field test, therefore, the results relate to items that were not analysed at Bureau Veritas.

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

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

(6) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed 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 and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."



Your P.O. #: OL-1381216
Site Location: Meliadine
Your C.O.C. #: 971892

Attention: Reporting

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

Report Date: 2024/10/21
Report #: R8369588
Version: 6 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4U9666

Received: 2024/10/02, 15:10

Encryption Key

Katherine Szozda

Katherine Szozda
Project Manager
21 Oct 2024 10:10:09

Please direct all questions regarding this Certificate of Analysis to:

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

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C4U9666
Report Date: 2024/10/21

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: KS

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AERR96			AERR96		
Sampling Date		2024/09/28 05:47			2024/09/28 05:47		
COC Number		971892			971892		
	UNITS	WRSF3 - South	RDL	QC Batch	WRSF3 - South Lab-Dup	RDL	QC Batch

Calculated Parameters							
Calculated TDS	mg/L	1200	1.0	9678816			
Dissolved Hardness (CaCO ₃)	mg/L	641	0.50	9689375			
Field Measurements							
Field Measured Conductivity	uS/cm	2084	N/A	ONSITE			
Field Measured Dissolved oxygen	mg/L	13.20	N/A	ONSITE			
Field Temperature	Celsius	7.9	N/A	ONSITE			
Field Measured Field Turbidity	NTU	13.7	N/A	ONSITE			
Field Measured pH	pH	6.80		ONSITE			
Inorganics							
Total Ammonia-N	mg/L	0.37	0.050	9681581			
Strong Acid Dissoc. Cyanide (CN)	mg/L	0.00235	0.00050	9689054			
Total Dissolved Solids	mg/L	1310	10	9679051			
Fluoride (F ⁻)	mg/L	<0.10	0.10	9680800			
Orthophosphate (P)	mg/L	<0.010	0.010	9680772			
pH	pH	7.86		9680803			
Total Phosphorus	mg/L	0.028	0.020	9680468	0.027	0.020	9680468
Reactive Silica (SiO ₂)	mg/L	2.1	0.050	9689004			
Total Suspended Solids	mg/L	13	1	9679307			
Turbidity	NTU	7.9	0.1	9680807	8.2	0.1	9680807
Alkalinity (Total as CaCO ₃)	mg/L	87	1.0	9680799			
Dissolved Chloride (Cl ⁻)	mg/L	390	5.0	9680770			
Nitrite (N)	mg/L	0.056	0.010	9680839			
Nitrate (N)	mg/L	3.98	0.10	9680839			
Dissolved Sulphate (SO ₄)	mg/L	330	2.5	9689003			
Nitrate + Nitrite (N)	mg/L	4.04	0.10	9680839			
Metals							
Dissolved Aluminum (Al)	mg/L	0.0059	0.0030	9689377			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable							



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Sampler Initials: KS

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AERR96			AERR96		
Sampling Date		2024/09/28 05:47			2024/09/28 05:47		
COC Number		971892			971892		
	UNITS	WRSF3 - South	RDL	QC Batch	WRSF3 - South Lab-Dup	RDL	QC Batch
Total Aluminum (Al)	mg/L	0.281	0.0030	9689374			
Dissolved Arsenic (As)	mg/L	0.00712	0.00010	9689377			
Total Arsenic (As)	mg/L	0.00822	0.00010	9689374			
Dissolved Barium (Ba)	mg/L	0.0918	0.0010	9689377			
Total Barium (Ba)	mg/L	0.0767	0.0010	9689374			
Dissolved Cadmium (Cd)	mg/L	0.000016	0.000010	9689377			
Total Cadmium (Cd)	mg/L	0.000016	0.000010	9689374			
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	9689377			
Total Chromium (Cr)	mg/L	0.0011	0.0010	9689374			
Dissolved Copper (Cu)	mg/L	0.00163	0.00020	9689377			
Total Copper (Cu)	mg/L	0.00206	0.00050	9689374			
Dissolved Iron (Fe)	mg/L	0.0203	0.0050	9689377			
Total Iron (Fe)	mg/L	0.561	0.010	9689374			
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	9689377			
Total Lead (Pb)	mg/L	0.00050	0.00020	9689374			
Dissolved Manganese (Mn)	mg/L	0.0238	0.0010	9689377			
Total Manganese (Mn)	mg/L	0.0274	0.0010	9689374			
Dissolved Molybdenum (Mo)	mg/L	0.0031	0.0010	9689377			
Total Molybdenum (Mo)	mg/L	0.0028	0.0010	9689374			
Dissolved Nickel (Ni)	mg/L	0.0080	0.0010	9689377			
Total Nickel (Ni)	mg/L	0.0077	0.0010	9689374			
Dissolved Selenium (Se)	mg/L	0.00063	0.00010	9689377			
Total Selenium (Se)	mg/L	0.00054	0.00010	9689374			
Dissolved Silver (Ag)	mg/L	<0.000020	0.000020	9689377			
Total Silver (Ag)	mg/L	<0.000020	0.000020	9689374			
Dissolved Thallium (Tl)	mg/L	0.000010	0.000010	9689377			
Total Thallium (Tl)	mg/L	0.000012	0.000010	9689374			
Total Titanium (Ti)	mg/L	0.0085	0.0050	9689374			
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	9689377			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AERR96			AERR96		
Sampling Date		2024/09/28 05:47			2024/09/28 05:47		
COC Number		971892			971892		
	UNITS	WRSF3 - South	RDL	QC Batch	WRSF3 - South Lab-Dup	RDL	QC Batch
Total Zinc (Zn)	mg/L	<0.0050	0.0050	9689374			
Dissolved Calcium (Ca)	mg/L	185	0.050	9689376			
Total Calcium (Ca)	mg/L	157	0.050	9689373			
Dissolved Magnesium (Mg)	mg/L	43.6	0.050	9689376			
Total Magnesium (Mg)	mg/L	37.1	0.050	9689373			
Dissolved Potassium (K)	mg/L	19.2	0.050	9689376			
Total Potassium (K)	mg/L	16.7	0.050	9689373			
Dissolved Sodium (Na)	mg/L	131	0.050	9689376			
Total Sodium (Na)	mg/L	118	0.050	9689373			
Petroleum Hydrocarbons							
Total Oil & Grease	mg/L	0.90	0.50	9680076			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		AERR96		
Sampling Date		2024/09/28 05:47		
COC Number		971892		
	UNITS	WRSF3 - South	RDL	QC Batch
Calculated Parameters				
Total Hardness (CaCO ₃)	mg/L	544	0.50	9689370
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	9681509
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C4U9666

Report Date: 2024/10/21

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: KS

TEST SUMMARY

Bureau Veritas ID: AERR96
Sample ID: WRSF3 - South
Matrix: Water

Collected: 2024/09/28
Shipped:
Received: 2024/10/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9680799	N/A	2024/10/04	Surinder Rai
Chloride by Automated Colourimetry	SKAL	9680770	N/A	2024/10/04	Alina Dobreanu
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/03	Ramandeep Kaur
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/03	Ramandeep Kaur
Fluoride	ISE	9680800	2024/10/03	2024/10/04	Surinder Rai
Mercury (low level)	CV/AA	9681509	2024/10/04	2024/10/04	Maitri PATIL
Low Level Chloride and Sulphate by AC	KONE	9689003	N/A	2024/10/04	Tyler Orr
Cyanide, Strong Acid Dissociable (SAD)	TECH/UVVS	9689054	2024/10/06	2024/10/06	Ye Hyun KIM
Hardness Total (calculated as CaCO ₃)	CALC	9689370	N/A	2024/10/08	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	9689375	N/A	2024/10/08	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9689376	N/A	2024/10/08	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	9689377	N/A	2024/10/08	Renegie Lampong-Inactive
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9689373	2024/10/08	2024/10/08	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	9689374	2024/10/04	2024/10/08	Andrew An
Silica (Reactive)	KONE	9689004	N/A	2024/10/08	Tyler Orr
Total Ammonia-N	SKAL/NH ₄	9681581	N/A	2024/10/04	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9680839	N/A	2024/10/04	Chandra Nandlal
Total Oil and Grease	BAL	9680076	2024/10/03	2024/10/04	Jay Hareshkumar Vaghasia
pH	AT	9680803	2024/10/03	2024/10/04	Surinder Rai
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/03	Ramandeep Kaur
Orthophosphate	SKAL	9680772	N/A	2024/10/04	Alina Dobreanu
Calculated Total Dissolved Solids	CALC	9678816	N/A	2024/10/08	Automated Statchk
Total Dissolved Solids	BAL	9679051	2024/10/03	2024/10/04	Razieh Tabesh
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/03	Ramandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	9680468	2024/10/03	2024/10/04	Vidhi Khatri
Low Level Total Suspended Solids	BAL	9679307	2024/10/03	2024/10/04	Razieh Tabesh
Turbidity	AT	9680807	N/A	2024/10/04	Kien Tran
Field Measured Dissolved Oxygen	TURB	ONSITE	N/A	2024/10/03	Ramandeep Kaur

Bureau Veritas ID: AERR96 Dup
Sample ID: WRSF3 - South
Matrix: Water

Collected: 2024/09/28
Shipped:
Received: 2024/10/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Phosphorus (Colourimetric)	SKAL/P	9680468	2024/10/03	2024/10/04	Vidhi Khatri
Turbidity	AT	9680807	N/A	2024/10/04	Kien Tran



GENERAL COMMENTS

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

Package 1	9.0°C
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Revised Report [2024/10/21]: PDF security changed.

Revised Report [2024/10/18]: Sampling date changed to 2024/09/28 per client request.

Results relate only to the items tested.



Bureau Veritas Job #: C4U9666
Report Date: 2024/10/21

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: KS

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
9679051	Total Dissolved Solids	2024/10/04			95	80 - 120	<10	mg/L	1.5	20		
9679307	Total Suspended Solids	2024/10/04			102	80 - 120	<1	mg/L	12	20		
9680076	Total Oil & Grease	2024/10/04			99	80 - 110	<0.50	mg/L	0.51	25		
9680468	Total Phosphorus	2024/10/04	97	80 - 120	100	80 - 120	<0.020	mg/L	4.0	20	97	80 - 120
9680770	Dissolved Chloride (Cl-)	2024/10/04	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.96	20		
9680772	Orthophosphate (P)	2024/10/04	93	75 - 125	98	80 - 120	<0.010	mg/L	NC	20		
9680799	Alkalinity (Total as CaCO3)	2024/10/04			101	85 - 115	<1.0	mg/L	2.9	20		
9680800	Fluoride (F-)	2024/10/04	100	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
9680803	pH	2024/10/04			102	98 - 103			1.0	N/A		
9680807	Turbidity	2024/10/04			100	80 - 120	<0.1	NTU	3.1	20		
9680839	Nitrate (N)	2024/10/04	97	80 - 120	101	80 - 120	<0.10	mg/L	0.083	20		
9680839	Nitrite (N)	2024/10/04	97	80 - 120	102	80 - 120	<0.010	mg/L	NC	20		
9681509	Mercury (Hg)	2024/10/04	96	75 - 125	97	80 - 120	<0.00001	mg/L	NC	20		
9681581	Total Ammonia-N	2024/10/04	94	75 - 125	105	80 - 120	<0.050	mg/L	NC	20		
9689003	Dissolved Sulphate (SO4)	2024/10/04	NC	80 - 120	99	80 - 120	<0.50	mg/L				
9689004	Reactive Silica (SiO2)	2024/10/08	100	80 - 120	106	80 - 120	<0.050	mg/L				
9689054	Strong Acid Dissoc. Cyanide (CN)	2024/10/06	91	80 - 120	95	80 - 120	<0.00050	mg/L	3.0	20		
9689374	Total Aluminum (Al)	2024/10/08	101	80 - 120	99	80 - 120	<0.0030	mg/L				
9689374	Total Arsenic (As)	2024/10/08	103	80 - 120	100	80 - 120	<0.00010	mg/L				
9689374	Total Barium (Ba)	2024/10/08	99	80 - 120	97	80 - 120	<0.0010	mg/L				
9689374	Total Cadmium (Cd)	2024/10/08	103	80 - 120	100	80 - 120	<0.000010	mg/L				
9689374	Total Chromium (Cr)	2024/10/08	98	80 - 120	95	80 - 120	<0.0010	mg/L				
9689374	Total Copper (Cu)	2024/10/08	98	80 - 120	96	80 - 120	<0.00050	mg/L				
9689374	Total Iron (Fe)	2024/10/08	105	80 - 120	105	80 - 120	<0.010	mg/L				
9689374	Total Lead (Pb)	2024/10/08	103	80 - 120	103	80 - 120	<0.00020	mg/L				
9689374	Total Manganese (Mn)	2024/10/08	102	80 - 120	101	80 - 120	<0.0010	mg/L				
9689374	Total Molybdenum (Mo)	2024/10/08	105	80 - 120	103	80 - 120	<0.0010	mg/L				
9689374	Total Nickel (Ni)	2024/10/08	101	80 - 120	100	80 - 120	<0.0010	mg/L				
9689374	Total Selenium (Se)	2024/10/08	106	80 - 120	102	80 - 120	<0.00010	mg/L				
9689374	Total Silver (Ag)	2024/10/08	99	80 - 120	99	80 - 120	<0.000020	mg/L				
9689374	Total Thallium (Tl)	2024/10/08	105	80 - 120	104	80 - 120	<0.000010	mg/L				



BUREAU
VERITAS
LABORATOIRES

Bureau Veritas Job #: C4U9666
Report Date: 2024/10/21

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: KS

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
9689374	Total Titanium (Ti)	2024/10/08	103	80 - 120	101	80 - 120	<0.0050	mg/L				
9689374	Total Zinc (Zn)	2024/10/08	107	80 - 120	99	80 - 120	<0.0050	mg/L				
9689377	Dissolved Aluminum (Al)	2024/10/08	97	80 - 120	101	80 - 120	<0.0030	mg/L	7.3	20		
9689377	Dissolved Arsenic (As)	2024/10/08	101	80 - 120	105	80 - 120	<0.00010	mg/L	0.27	20		
9689377	Dissolved Barium (Ba)	2024/10/08	NC	80 - 120	105	80 - 120	<0.0010	mg/L	1.2	20		
9689377	Dissolved Cadmium (Cd)	2024/10/08	98	80 - 120	105	80 - 120	<0.000010	mg/L	NC	20		
9689377	Dissolved Chromium (Cr)	2024/10/08	95	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
9689377	Dissolved Copper (Cu)	2024/10/08	87	80 - 120	98	80 - 120	<0.00020	mg/L	4.6	20		
9689377	Dissolved Iron (Fe)	2024/10/08	93	80 - 120	100	80 - 120	<0.0050	mg/L	0.31	20		
9689377	Dissolved Lead (Pb)	2024/10/08	98	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20		
9689377	Dissolved Manganese (Mn)	2024/10/08	NC	80 - 120	100	80 - 120	<0.0010	mg/L	0.15	20		
9689377	Dissolved Molybdenum (Mo)	2024/10/08	100	80 - 120	108	80 - 120	<0.0010	mg/L	0.52	20		
9689377	Dissolved Nickel (Ni)	2024/10/08	89	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
9689377	Dissolved Selenium (Se)	2024/10/08	98	80 - 120	104	80 - 120	<0.00010	mg/L	NC	20		
9689377	Dissolved Silver (Ag)	2024/10/08	98	80 - 120	104	80 - 120	<0.000020	mg/L	NC	20		
9689377	Dissolved Thallium (Tl)	2024/10/08	97	80 - 120	103	80 - 120	<0.000010	mg/L	NC	20		
9689377	Dissolved Zinc (Zn)	2024/10/08	93	80 - 120	103	80 - 120	<0.0050	mg/L	2.2	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).



BUREAU
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Report Date: 2024/10/21

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: KS

VALIDATION SIGNATURE PAGE

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

Cristina Carriere, Senior Scientific Specialist

David Huang, BBY Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist



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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Report Date: 2024/10/21

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: KS

Exceedance Summary Table – Metal Mining Effluent Reg
Result Exceedances

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



Your P.O. #: OL-1381216
Site Location: Meliadine
Your C.O.C. #: 971967

Attention: Reporting

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

Report Date: 2024/10/21
Report #: R8369600
Version: 6 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4V0712

Received: 2024/10/02, 15:10

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2024/10/04	CAM SOP-00448	SM 24 2320 B m
Chloride by Automated Colourimetry	1	N/A	2024/10/04	CAM SOP-00463	SM 24 4500-Cl E m
Field Measured Dissolved Oxygen (3)	1	N/A	2024/10/03		Field pH Meter
Field Measured Conductivity (3)	1	N/A	2024/10/03		Field Meter
Fluoride	1	2024/10/04	2024/10/04	CAM SOP-00449	SM 24 4500-F C m
Mercury (low level)	1	2024/10/04	2024/10/04	CAM SOP-00453	EPA 7470 m
Low Level Chloride and Sulphate by AC (1)	1	N/A	2024/10/08	AB SOP-00020	SM24-4500-Cl/SO4-E m
Cyanide, Strong Acid Dissociable (SAD) (1)	1	2024/10/08	2024/10/08	CAL SOP-00270	SM 24 4500-CN m
Hardness (calculated as CaCO3) (2)	1	N/A	2024/10/08	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (2)	1	N/A	2024/10/08	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (dissolved) (2)	1	N/A	2024/10/08	BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (2)	1	2024/10/03	2024/10/08	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total) (2)	1	2024/10/07	2024/10/08	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Silica (Reactive) (1)	1	N/A	2024/10/10	AB SOP-00011	EPA 370.1 R1978 m
Total Ammonia-N	1	N/A	2024/10/04	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (4)	1	N/A	2024/10/04	CAM SOP-00440	SM 24 4500-NO3I/NO2B
Total Oil and Grease	1	2024/10/04	2024/10/04	CAM SOP-00326	EPA1664B m, SM5520B m
pH (5)	1	2024/10/04	2024/10/04	CAM SOP-00413	SM 24th - 4500H+ B
Field Measured pH (3)	1	N/A	2024/10/03		Field pH Meter
Orthophosphate	1	N/A	2024/10/04	CAM SOP-00461	SM 24 4500-P E
Calculated Total Dissolved Solids	1	N/A	2024/10/09		Auto Calc
Total Dissolved Solids	1	2024/10/04	2024/10/07	CAM SOP-00428	SM 24 2540C m
Field Temperature (3)	1	N/A	2024/10/03		Field Thermometer
Total Phosphorus (Colourimetric)	1	2024/10/04	2024/10/04	CAM SOP-00407	SM 24 4500-P I
Low Level Total Suspended Solids	1	2024/10/04	2024/10/04	CAM SOP-00428	SM 24 2540D m
Turbidity	1	N/A	2024/10/04	CAM SOP-00417	SM 24 2130 B
Turbidity - On-site	1	N/A	2024/10/03		

Remarks:



Your P.O. #: OL-1381216
Site Location: Meliadine
Your C.O.C. #: 971967

Attention: Reporting

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

Report Date: 2024/10/21
Report #: R8369600
Version: 6 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4V0712

Received: 2024/10/02, 15:10

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, EPA, APHA or the Quebec Ministry of Environment.

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 Calgary (19th), 4000 19th Street NE, Calgary, AB, T2E 6P8

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

(3) This is a field test, therefore, the results relate to items that were not analysed at Bureau Veritas.

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

(5) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed 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 and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."



Your P.O. #: OL-1381216
Site Location: Meliadine
Your C.O.C. #: 971967

Attention: Reporting

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

Report Date: 2024/10/21
Report #: R8369600
Version: 6 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4V0712

Received: 2024/10/02, 15:10

Encryption Key

Katherine Szozda

Katherine Szozda
Project Manager
21 Oct 2024 10:11:28

Please direct all questions regarding this Certificate of Analysis to:

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

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C4V0712
Report Date: 2024/10/21

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: AT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AETU07			AETU07		
Sampling Date		2024/09/28			2024/09/28		
COC Number		971967			971967		
	UNITS	MEL-SR 16	RDL	QC Batch	MEL-SR 16 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Calculated TDS	mg/L	370	1.0	9678816			
Dissolved Hardness (CaCO ₃)	mg/L	248	0.50	9689375			
Field Measurements							
Field Measured Conductivity	uS/cm	796	N/A	ONSITE			
Field Measured Dissolved oxygen	mg/L	14.25	N/A	ONSITE			
Field Temperature	Celsius	9.9	N/A	ONSITE			
Field Measured Field Turbidity	NTU	1.14	N/A	ONSITE			
Field Measured pH	pH	7.35		ONSITE			
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	9681581	<0.050	0.050	9681581
Strong Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	0.00050	9691706			
Total Dissolved Solids	mg/L	510	10	9681387			
Fluoride (F ⁻)	mg/L	<0.10	0.10	9681575	<0.10	0.10	9681575
Orthophosphate (P)	mg/L	<0.010	0.010	9681592	<0.010	0.010	9681592
pH	pH	7.80		9681576	7.85		9681576
Total Phosphorus	mg/L	<0.020	0.020	9681521	<0.020	0.020	9681521
Reactive Silica (SiO ₂)	mg/L	3.3	0.050	9694963			
Total Suspended Solids	mg/L	<1	1	9681384			
Turbidity	NTU	0.3	0.1	9680807			
Alkalinity (Total as CaCO ₃)	mg/L	92	1.0	9681570	93	1.0	9681570
Dissolved Chloride (Cl ⁻)	mg/L	76	1.0	9681697			
Nitrite (N)	mg/L	<0.010	0.010	9681773	<0.010	0.010	9681773
Nitrate (N)	mg/L	0.29	0.10	9681773	0.28	0.10	9681773
Dissolved Sulphate (SO ₄)	mg/L	120 (1)	1.0	9691705	120	1.0	9691705
Nitrate + Nitrite (N)	mg/L	0.29	0.10	9681773	0.28	0.10	9681773
Metals							
Dissolved Aluminum (Al)	mg/L	0.0048	0.0030	9691758			
Total Aluminum (Al)	mg/L	0.0124	0.0030	9691760			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Detection limits raised due to matrix interference.							



BUREAU
VERITAS

Bureau Veritas Job #: C4V0712
Report Date: 2024/10/21

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: AT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AETU07			AETU07		
Sampling Date		2024/09/28			2024/09/28		
COC Number		971967			971967		
	UNITS	MEL-SR 16	RDL	QC Batch	MEL-SR 16 Lab-Dup	RDL	QC Batch
Dissolved Arsenic (As)	mg/L	0.00430	0.00010	9691758			
Total Arsenic (As)	mg/L	0.00433	0.00010	9691760			
Dissolved Barium (Ba)	mg/L	0.0459	0.0010	9691758			
Total Barium (Ba)	mg/L	0.0427	0.0010	9691760			
Dissolved Cadmium (Cd)	mg/L	<0.000010	0.000010	9691758			
Total Cadmium (Cd)	mg/L	<0.000010	0.000010	9691760			
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	9691758			
Total Chromium (Cr)	mg/L	<0.0010	0.0010	9691760			
Dissolved Copper (Cu)	mg/L	0.00214	0.00020	9691758			
Total Copper (Cu)	mg/L	0.00201	0.00050	9691760			
Dissolved Iron (Fe)	mg/L	0.0252	0.0050	9691758			
Total Iron (Fe)	mg/L	0.045	0.010	9691760			
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	9691758			
Total Lead (Pb)	mg/L	<0.00020	0.00020	9691760			
Dissolved Manganese (Mn)	mg/L	0.0053	0.0010	9691758			
Total Manganese (Mn)	mg/L	0.0054	0.0010	9691760			
Dissolved Molybdenum (Mo)	mg/L	0.0013	0.0010	9691758			
Total Molybdenum (Mo)	mg/L	0.0012	0.0010	9691760			
Dissolved Nickel (Ni)	mg/L	0.0040	0.0010	9691758			
Total Nickel (Ni)	mg/L	0.0038	0.0010	9691760			
Dissolved Selenium (Se)	mg/L	0.00010	0.00010	9691758			
Total Selenium (Se)	mg/L	0.00011	0.00010	9691760			
Dissolved Silver (Ag)	mg/L	<0.000020	0.000020	9691758			
Total Silver (Ag)	mg/L	<0.000020	0.000020	9691760			
Dissolved Thallium (Tl)	mg/L	<0.000010	0.000010	9691758			
Total Titanium (Ti)	mg/L	<0.0050	0.0050	9691760			
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	9691758			
Total Zinc (Zn)	mg/L	<0.0050	0.0050	9691760			
Dissolved Calcium (Ca)	mg/L	75.1	0.050	9689376			
Total Calcium (Ca)	mg/L	69.2	0.050	9691759			
Dissolved Magnesium (Mg)	mg/L	14.7	0.050	9689376			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AETU07			AETU07		
Sampling Date		2024/09/28			2024/09/28		
COC Number		971967			971967		
	UNITS	MEL-SR 16	RDL	QC Batch	MEL-SR 16 Lab-Dup	RDL	QC Batch
Total Magnesium (Mg)	mg/L	13.7	0.050	9691759			
Dissolved Potassium (K)	mg/L	6.08	0.050	9689376			
Total Potassium (K)	mg/L	5.69	0.050	9691759			
Dissolved Sodium (Na)	mg/L	22.7	0.050	9689376			
Total Sodium (Na)	mg/L	21.0	0.050	9691759			
Petroleum Hydrocarbons							
Total Oil & Grease	mg/L	<0.50	0.50	9682332			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C4V0712
Report Date: 2024/10/21

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: AT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		AETU07		
Sampling Date		2024/09/28		
COC Number		971967		
	UNITS	MEL-SR 16	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00001	0.00001	9681509
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



**BUREAU
VERITAS**

Bureau Veritas Job #: C4V0712

Report Date: 2024/10/21

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: AT

TEST SUMMARY

Bureau Veritas ID: AETU07
Sample ID: MEL-SR 16
Matrix: Water

Collected: 2024/09/28
Shipped:
Received: 2024/10/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9681570	N/A	2024/10/04	Nachiketa Gohil
Chloride by Automated Colourimetry	SKAL	9681697	N/A	2024/10/04	Massarat Jan
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/03	Greeshma Maliyakkal Joseph
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/03	Greeshma Maliyakkal Joseph
Fluoride	ISE	9681575	2024/10/04	2024/10/04	Nachiketa Gohil
Mercury (low level)	CV/AA	9681509	2024/10/04	2024/10/04	Maitri PATIL
Low Level Chloride and Sulphate by AC	KONE	9691705	N/A	2024/10/08	Hirushi Kanewala-Appuhamilage
Cyanide, Strong Acid Dissociable (SAD)	TECH/UVVS	9691706	2024/10/08	2024/10/08	Ye Hyun KIM
Hardness (calculated as CaCO ₃)	CALC	9689375	N/A	2024/10/08	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9689376	N/A	2024/10/08	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	9691758	N/A	2024/10/08	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9691759	2024/10/08	2024/10/08	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	9691760	2024/10/07	2024/10/08	Andrew An
Silica (Reactive)	KONE	9694963	N/A	2024/10/10	Tyler Orr
Total Ammonia-N	SKAL/NH ₄	9681581	N/A	2024/10/04	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9681773	N/A	2024/10/04	Chandra Nandlal
Total Oil and Grease	BAL	9682332	2024/10/04	2024/10/04	Ben Benedict Manthra Honey
pH	AT	9681576	2024/10/04	2024/10/04	Nachiketa Gohil
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/03	Greeshma Maliyakkal Joseph
Orthophosphate	SKAL	9681592	N/A	2024/10/04	Massarat Jan
Calculated Total Dissolved Solids	CALC	9678816	N/A	2024/10/09	Automated Statchk
Total Dissolved Solids	BAL	9681387	2024/10/04	2024/10/07	Razieh Tabesh
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/03	Greeshma Maliyakkal Joseph
Total Phosphorus (Colourimetric)	SKAL/P	9681521	2024/10/04	2024/10/04	Vidhi Khatri
Low Level Total Suspended Solids	BAL	9681384	2024/10/04	2024/10/04	Tina Teng
Turbidity	AT	9680807	N/A	2024/10/04	Kien Tran
Field Measured Dissolved Oxygen	TURB	ONSITE	N/A	2024/10/03	Greeshma Maliyakkal Joseph

Bureau Veritas ID: AETU07 Dup
Sample ID: MEL-SR 16
Matrix: Water

Collected: 2024/09/28
Shipped:
Received: 2024/10/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9681570	N/A	2024/10/04	Nachiketa Gohil
Fluoride	ISE	9681575	2024/10/04	2024/10/04	Nachiketa Gohil
Low Level Chloride and Sulphate by AC	KONE	9691705	N/A	2024/10/08	Hirushi Kanewala-Appuhamilage
Total Ammonia-N	SKAL/NH ₄	9681581	N/A	2024/10/04	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9681773	N/A	2024/10/04	Chandra Nandlal
pH	AT	9681576	2024/10/04	2024/10/04	Nachiketa Gohil
Orthophosphate	SKAL	9681592	N/A	2024/10/04	Massarat Jan
Total Phosphorus (Colourimetric)	SKAL/P	9681521	2024/10/04	2024/10/04	Vidhi Khatri



GENERAL COMMENTS

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

Package 1	13.0°C
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Revised Report [2024/10/21]: PDF security changed.

Revised Report [2024/10/18]: Sampling date modified to 2024/09/28 per client request.

Results relate only to the items tested.



Bureau Veritas Job #: C4V0712
Report Date: 2024/10/21

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: AT

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
9680807	Turbidity	2024/10/04			100	80 - 120	<0.1	NTU	3.1	20		
9681384	Total Suspended Solids	2024/10/04			98	80 - 120	<1	mg/L	NC	20		
9681387	Total Dissolved Solids	2024/10/07			95	80 - 120	<10	mg/L	4.3	20		
9681509	Mercury (Hg)	2024/10/04	96	75 - 125	97	80 - 120	<0.00001	mg/L	NC	20		
9681521	Total Phosphorus	2024/10/04	106	80 - 120	102	80 - 120	<0.020	mg/L	NC	20	95	80 - 120
9681570	Alkalinity (Total as CaCO3)	2024/10/04			98	85 - 115	<1.0	mg/L	1.1	20		
9681575	Fluoride (F-)	2024/10/04	99	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
9681576	pH	2024/10/04			102	98 - 103			0.68	N/A		
9681581	Total Ammonia-N	2024/10/04	94	75 - 125	105	80 - 120	<0.050	mg/L	NC	20		
9681592	Orthophosphate (P)	2024/10/04	95	75 - 125	95	80 - 120	<0.010	mg/L	NC	20		
9681697	Dissolved Chloride (Cl-)	2024/10/04	102	80 - 120	94	80 - 120	<1.0	mg/L	7.4	20		
9681773	Nitrate (N)	2024/10/04	103	80 - 120	103	80 - 120	<0.10	mg/L	3.2	20		
9681773	Nitrite (N)	2024/10/04	105	80 - 120	104	80 - 120	<0.010	mg/L	NC	20		
9682332	Total Oil & Grease	2024/10/04			98	80 - 110	<0.50	mg/L	0.25	25		
9691705	Dissolved Sulphate (SO4)	2024/10/08	NC	80 - 120	112	80 - 120	<0.50	mg/L	0.31	20		
9691706	Strong Acid Dissoc. Cyanide (CN)	2024/10/08	NC	80 - 120	98	80 - 120	<0.00050	mg/L				
9691758	Dissolved Aluminum (Al)	2024/10/08	98	80 - 120	100	80 - 120	<0.0030	mg/L				
9691758	Dissolved Arsenic (As)	2024/10/08	104	80 - 120	103	80 - 120	<0.00010	mg/L				
9691758	Dissolved Barium (Ba)	2024/10/08	98	80 - 120	100	80 - 120	<0.0010	mg/L				
9691758	Dissolved Cadmium (Cd)	2024/10/08	100	80 - 120	100	80 - 120	<0.000010	mg/L				
9691758	Dissolved Chromium (Cr)	2024/10/08	93	80 - 120	94	80 - 120	<0.0010	mg/L				
9691758	Dissolved Copper (Cu)	2024/10/08	90	80 - 120	93	80 - 120	<0.00020	mg/L				
9691758	Dissolved Iron (Fe)	2024/10/08	101	80 - 120	101	80 - 120	<0.0050	mg/L				
9691758	Dissolved Lead (Pb)	2024/10/08	98	80 - 120	100	80 - 120	<0.00020	mg/L				
9691758	Dissolved Manganese (Mn)	2024/10/08	97	80 - 120	99	80 - 120	<0.0010	mg/L				
9691758	Dissolved Molybdenum (Mo)	2024/10/08	107	80 - 120	107	80 - 120	<0.0010	mg/L				
9691758	Dissolved Nickel (Ni)	2024/10/08	94	80 - 120	97	80 - 120	<0.0010	mg/L				
9691758	Dissolved Selenium (Se)	2024/10/08	102	80 - 120	101	80 - 120	<0.00010	mg/L				
9691758	Dissolved Silver (Ag)	2024/10/08	97	80 - 120	99	80 - 120	<0.000020	mg/L				
9691758	Dissolved Thallium (Tl)	2024/10/08	100	80 - 120	101	80 - 120	<0.000010	mg/L				
9691758	Dissolved Zinc (Zn)	2024/10/08	101	80 - 120	103	80 - 120	<0.0050	mg/L				



QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: AT

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
9691760	Total Aluminum (Al)	2024/10/08	104	80 - 120	104	80 - 120	<0.0030	mg/L				
9691760	Total Arsenic (As)	2024/10/08	109	80 - 120	107	80 - 120	<0.00010	mg/L				
9691760	Total Barium (Ba)	2024/10/08	103	80 - 120	103	80 - 120	<0.0010	mg/L				
9691760	Total Cadmium (Cd)	2024/10/08	105	80 - 120	104	80 - 120	<0.000010	mg/L				
9691760	Total Chromium (Cr)	2024/10/08	95	80 - 120	96	80 - 120	<0.0010	mg/L				
9691760	Total Copper (Cu)	2024/10/08	94	80 - 120	94	80 - 120	<0.00050	mg/L				
9691760	Total Iron (Fe)	2024/10/08	104	80 - 120	104	80 - 120	<0.010	mg/L				
9691760	Total Lead (Pb)	2024/10/08	100	80 - 120	100	80 - 120	<0.00020	mg/L				
9691760	Total Manganese (Mn)	2024/10/08	100	80 - 120	101	80 - 120	<0.0010	mg/L				
9691760	Total Molybdenum (Mo)	2024/10/08	108	80 - 120	109	80 - 120	<0.0010	mg/L				
9691760	Total Nickel (Ni)	2024/10/08	99	80 - 120	98	80 - 120	<0.0010	mg/L				
9691760	Total Selenium (Se)	2024/10/08	107	80 - 120	104	80 - 120	<0.00010	mg/L				
9691760	Total Silver (Ag)	2024/10/08	101	80 - 120	102	80 - 120	<0.000020	mg/L				
9691760	Total Titanium (Ti)	2024/10/08	103	80 - 120	103	80 - 120	<0.0050	mg/L				
9691760	Total Zinc (Zn)	2024/10/08	108	80 - 120	104	80 - 120	<0.0050	mg/L				
9694963	Reactive Silica (SiO2)	2024/10/10	NC	80 - 120	106	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 <= 2x RDL).



BUREAU
VERITAS

Bureau Veritas Job #: C4V0712
Report Date: 2024/10/21

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: AT

VALIDATION SIGNATURE PAGE

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

Cristina Carriere, Senior Scientific Specialist

David Huang, BBY Scientific Specialist

Louise Harding, Scientific Specialist

Sandy Yuan, M.Sc., QP, Scientific Specialist



Bureau Veritas Proprietary Software
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Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas Job #: C4V0712
Report Date: 2024/10/21

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: AT

Exceedance Summary Table – Metal Mining Effluent Reg
Result Exceedances

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



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 10-05-2024		REPORT TIME 18:00		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____	
	B	OCCURRENCE DATE: MONTH – DAY – YEAR 10-04-2024		OCCURRENCE TIME 23:00			
C		LAND USE PERMIT NUMBER (IF APPLICABLE) KVPL11D01		WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MEL1631			
	D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Meliadine Gold Project			REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E		LATITUDE DEGREES 63 MINUTES 2 SECONDS 21		LONGITUDE DEGREES 92 MINUTES 13 SECONDS 41			
	F	RESPONSIBLE PARTY OR VESSEL NAME Agnico Eagle Mines Ltd.		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G		ANY CONTRACTOR INVOLVED N/A		CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
	H	PRODUCT SPILLED Suspended Solids		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Unknown		U.N. NUMBER N/A	
I		SECOND PRODUCT SPILLED (IF APPLICABLE) N/A		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A		U.N. NUMBER N/A	
	J	SPILL SOURCE Surface runoff		SPILL CAUSE Ponding water		AREA OF CONTAMINATION IN SQUARE METRES Unknown	
K		FACTORS AFFECTING SPILL OR RECOVERY None		DESCRIBE ANY ASSISTANCE REQUIRED None		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT None	
	L	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS Surface runoff from KM 8.8 of the AWAR was observed to carry suspended solids resulting from the erosion of road materials. Internal TSS analysis indicated that TSS concentrations exceeded the Licence criteria for monitoring station MEL-SR-15. Erosion and sediment controls were deployed to mitigate sediment transport. Approximate location of spill: 62°52'24.2"N, 92°06'31.5"W. The closest water body is approximately 160 m southwest. Pursuant to Part H, Item 8c of the Water Licence, a follow-up report will be issued after a closer investigation is completed. Reported by Alexandre Langlais-Bourassa, Environment Coordinator. 819-759-3555 ext. 4603996, alexandre.langlais-bourassa@agnicoeagle.com.					
M		REPORTED TO SPILL LINE BY Alex L. Bourassa		POSITION Env. Coordinator		EMPLOYER AEM	
	N	ANY ALTERNATE CONTACT Randy Schwandt		POSITION Env. Coordinator		EMPLOYER AEM	
LOCATION CALLING FROM Meliadine		TELEPHONE 819-759-3555		ALTERNATE CONTACT LOCATION Meliadine			
ALTERNATE TELEPHONE 819-759-3555		REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY		POSITION STATION OPERATOR		EMPLOYER		
	LOCATION CALLED YELLOWKNIFE, NT		REPORT LINE NUMBER (867) 920-8130				
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC				SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY		CONTACT NAME		CONTACT TIME		REMARKS	
LEAD AGENCY							
FIRST SUPPORT AGENCY							
SECOND SUPPORT AGENCY							
THIRD SUPPORT AGENCY							

November 3rd, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
X0C 0G0

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-463 – Release of sediment in surface runoff at the Meliadine Gold Mine

On October 5th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a release of surface runoff containing elevated total suspended solids (TSS) at KM8.8 of the All-Weather Access Road (AWAR) at the Meliadine Gold Mine site (coordinates: 62°52'24.2"N 92°06'31.5"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- The Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c
- The Government of Canada Fisheries Act, Subsection 38(5)

Description of Incident

On October 4th, 2024, a notification was sent to CIRNAC Resource Management Officer Kyle Amsel that ponded water would be pumped across the AWAR at KM8.8 to prevent road erosion and sediment transport. Ponded water had accumulated against the road and threatened to overtop the road due to the significant quantity of rainfall experienced in the days prior to the event. Pumping started at approximately 12:00 p.m. on October 4th, 2024, through a temporary sleeve that was placed on the surface of the road.

At approximately 9:00 p.m., construction work began to excavate a shallow trench in the road for placement of a temporary 16" HDPE drainage pipe. AWAR KM8.8 is an area with a low profile relative to the adjacent terrain. A semi-circular barrier made of backfill material was constructed upstream of the excavation to prevent the flow of water through the construction workings.

At approximately 10:00 p.m., surface runoff flowing downstream of the construction area was observed to be carrying sediment, which was confirmed by field turbidity measurements (Table 1) collected at 62°52'24.2"N 92°06'31.5"W (Fig.1).



Figure 1: Location of the surface runoff containing elevated total suspended solids and proximity to waterbodies.

Response and Remediation

At approximately 10:30 p.m. on October 4th, 2024, erosion and sediment controls were installed downstream of the construction area. The pump being used to draw down ponded water was shut down to reduce the water flow downstream of the construction area. The HDPE pipe was laid in the trench and a tarp was installed over the inlet to prevent the flow of sediment laden water through the pipe. A water sample was then collected at the Water Licence monitoring station MEL-SR-15 and additional field turbidity measurements were collected (Table 1) along with a sample for internal TSS analysis. The HDPE pipe was then backfilled, and the road surface compacted.

By approximately 12:00 a.m. on October 5th, 2024, turbidity measurements showed a significant reduction from earlier readings, indicating that the mitigation measures were effective at reducing downstream sedimentation. At approximately 2:00 a.m., the upstream berm was removed. Finally, the tarp covering the HDPE pipe inlet was removed at approximately 5:00 a.m. once sediment in the ponded water had settled.

On October 5th and October 6th, 2024, the area was inspected, and additional field turbidity measurements were collected to confirm the sustained effectiveness of the installed erosion and sediment control measures (Table 1). An additional water quality sample was also collected at Water License monitoring station MEL-SR-15 on October 6th. The temporary pipe was observed to be successfully managing ponded water against the road.

Table 1 presents the field turbidity readings and TSS results from the analyses conducted internally and by the external laboratory.

Table 1: Field turbidity measurements and TSS results from monitoring location MEL-SR-15*.

Date and Time	Average Field Turbidity (FNU)	Internal TSS (mg/L)	External TSS (mg/L)
1-Oct (background)	12.8	-	-
3-Oct (background)	6.8	-	-
4-Oct 10:00 p.m.	> 1000	-	-
4-Oct 11:00 p.m.	379.0	140.0	140.0
5-Oct 12:00 a.m.	81.9	-	-
5-Oct 1:00 a.m.	86.0	-	-
6-Oct 3:00 p.m.	3.0	2.0	2.0

* Sampling location corresponds to the outflow of the stream into a downstream waterbody (outlined in blue in Figure 1, south of the AWAR).

Photos are presented in Appendix A, while results from the full suite of water quality analyses conducted for Water Licence monitoring station MEL-SR-15 are presented in Appendix B.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:




- AWAR KM8.8 is an area of the road with poor drainage. Runoff north of this area ponds against the road where it flows over the road or seeps through it. Following high levels of precipitation, the level of ponded water in this area was near the height of the road.
- Inadvertent backfill of existing temporary HDPE drainage pipes resulted in ponding water conditions worsening and the requirement for a new, temporary pipe to be installed. The mitigation works inadvertently introduced sediment into the water flowing into the tundra.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- The area will be closely monitored following precipitation events and during 2025 freshet. Erosion and sediment control measures will be maintained/placed as required.
- The installation of a permanent culvert system in this area is planned to be completed in 2025. The installed temporary HDPE drainage pipe will convey water until the permanent culvert installation is completed.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Alexandre Langlais-Bourassa, M.Sc. Biol. | Environment Coordinator
alexandre.langlais-bourassa@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix A – Photos



Photo 1: Trench being excavated for installation of temporary HDPE drainage pipe.



Photo 2: Downstream sediment controls.

Appendix B – Certificate of Analysis



Your P.O. #: 1381216
Site Location: Meliadine
Your C.O.C. #: 975687

Attention: Reporting

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

Report Date: 2024/10/22
Report #: R8371350
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4V8519

Received: 2024/10/09, 10:00

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity (1)	2	N/A	2024/10/12	CAM SOP-00448	SM 24 2320 B m
Chloride by Automated Colourimetry (1)	2	N/A	2024/10/15	CAM SOP-00463	SM 24 4500-Cl E m
Field Measured Dissolved Oxygen (1, 4)	2	N/A	2024/10/10		Field pH Meter
Field Measured Conductivity (1, 4)	2	N/A	2024/10/10		Field Meter
Fluoride (1)	2	2024/10/11	2024/10/12	CAM SOP-00449	SM 24 4500-F C m
Mercury (low level) (1)	2	2024/10/11	2024/10/15	CAM SOP-00453	EPA 7470 m
Low Level Chloride and Sulphate by AC (2)	2	N/A	2024/10/18	AB SOP-00020	SM24-4500-Cl/SO4-E m
Cyanide, Strong Acid Dissociable (SAD) (2)	2	2024/10/17	2024/10/17	CAL SOP-00270	SM 24 4500-CN m
Hardness (calculated as CaCO3) (3)	2	N/A	2024/10/18	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	2	N/A	2024/10/18	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (dissolved) (3)	2	N/A	2024/10/18	BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	2	2024/10/11	2024/10/18	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total) (3)	2	2024/10/17	2024/10/18	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Silica (Reactive) (2)	2	N/A	2024/10/17	AB SOP-00011	EPA 370.1 R1978 m
Total Ammonia-N (1)	2	N/A	2024/10/15	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1, 5)	2	N/A	2024/10/12	CAM SOP-00440	SM 24 4500-NO3I/NO2B
Total Oil and Grease (1)	2	2024/10/14	2024/10/14	CAM SOP-00326	EPA1664B m,SM5520B m
pH (1, 6)	2	2024/10/11	2024/10/12	CAM SOP-00413	SM 24th - 4500H+ B
Field Measured pH (1, 4)	2	N/A	2024/10/10		Field pH Meter
Orthophosphate (1)	2	N/A	2024/10/15	CAM SOP-00461	SM 24 4500-P E
Calculated Total Dissolved Solids (1)	2	N/A	2024/10/22		Auto Calc
Total Dissolved Solids (1)	2	2024/10/11	2024/10/15	CAM SOP-00428	SM 24 2540C m
Field Temperature (1, 4)	2	N/A	2024/10/10		Field Thermometer
Total Phosphorus (Colourimetric) (1)	2	2024/10/15	2024/10/15	CAM SOP-00407	SM 24 4500-P I
Low Level Total Suspended Solids (1)	2	2024/10/11	2024/10/15	CAM SOP-00428	SM 24 2540D m
Turbidity (1)	2	N/A	2024/10/11	CAM SOP-00417	SM 24 2130 B
Turbidity - On-site (1)	2	N/A	2024/10/10		

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau



Your P.O. #: 1381216
Site Location: Meliadine
Your C.O.C. #: 975687

Attention: Reporting

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

Report Date: 2024/10/22
Report #: R8371350
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4V8519

Received: 2024/10/09, 10:00

Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

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

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

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

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

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

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

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

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

(2) This test was performed by Bureau Veritas Calgary (19th), 4000 19th Street NE , Calgary, AB, T2E 6P8

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

(4) This is a field test, therefore, the results relate to items that were not analysed at Bureau Veritas.

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

(6) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed 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 and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."

Encryption Key

Katherine Szozda

Katherine Szozda
Project Manager
22 Oct 2024 10:49:22

Please direct all questions regarding this Certificate of Analysis to:

Katherine Szozda, Project Manager

Email: Katherine.Szozda@bureauveritas.com

Phone# (613)274-0573 Ext:7063633

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Total Cover Pages : 2

Page 2 of 12



BUREAU
VERITAS

Bureau Veritas Job #: C4V8519
Report Date: 2024/10/22

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: 1381216
Sampler Initials: MW

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AFKX18		AFKX19			AFKX19		
Sampling Date		2024/10/04 23:00		2024/10/06 15:00			2024/10/06 15:00		
COC Number		975687		975687			975687		
	UNITS	MEL-SR15	RDL	MEL-SR15	RDL	QC Batch	MEL-SR15 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Calculated TDS	mg/L	320	1.0	310	1.0	9693678			
Dissolved Hardness (CaCO ₃)	mg/L	149	0.50	139	0.50	9708755			
Field Measurements									
Field Measured Conductivity	uS/cm	-	N/A	618.9	N/A	ONSITE			
Field Measured Dissolved oxygen	mg/L	-	N/A	10.51	N/A	ONSITE			
Field Temperature	Celsius	-	N/A	10.3	N/A	ONSITE			
Field Measured Field Turbidity	NTU	379	N/A	2.97	N/A	ONSITE			
Field Measured pH	pH	-		7.61		ONSITE			
Inorganics									
Total Ammonia-N	mg/L	<0.050	0.050	<0.050	0.050	9697346			
Strong Acid Dissoc. Cyanide (CN)	mg/L	0.00059	0.00050	<0.00050	0.00050	9708508			
Total Dissolved Solids	mg/L	370	10	335	10	9697369			
Fluoride (F ⁻)	mg/L	<0.10	0.10	<0.10	0.10	9698728			
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	0.010	9698613	<0.010	0.010	9698613
pH	pH	7.68		7.77		9698726			
Total Phosphorus	mg/L	0.21	0.020	<0.020	0.020	9701024			
Reactive Silica (SiO ₂)	mg/L	2.1	0.050	1.6	0.050	9708519			
Total Suspended Solids	mg/L	140	3	2	1	9697963			
Turbidity	NTU	34	0.1	0.9	0.1	9698596			
Alkalinity (Total as CaCO ₃)	mg/L	70	1.0	62	1.0	9698725			
Dissolved Chloride (Cl ⁻)	mg/L	130	1.0	120	1.0	9699742	130	1.0	9699742
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	9698696			
Nitrate (N)	mg/L	<0.10	0.10	<0.10	0.10	9698696			
Dissolved Sulphate (SO ₄)	mg/L	41	0.50	39	0.50	9710480			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	0.10	9698696			
Metals									
Dissolved Aluminum (Al)	mg/L	0.0104	0.0030	0.0056	0.0030	9711475			
Total Aluminum (Al)	mg/L	4.98	0.0030	0.0159	0.0030	9711566			
Dissolved Arsenic (As)	mg/L	0.00223	0.00010	0.00132	0.00010	9711475			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									



BUREAU
VERITAS

Bureau Veritas Job #: C4V8519

Report Date: 2024/10/22

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: 1381216

Sampler Initials: MW

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AFKX18		AFKX19			AFKX19		
Sampling Date		2024/10/04 23:00		2024/10/06 15:00			2024/10/06 15:00		
COC Number		975687		975687			975687		
	UNITS	MEL-SR15	RDL	MEL-SR15	RDL	QC Batch	MEL-SR15 Lab-Dup	RDL	QC Batch
Total Arsenic (As)	mg/L	0.0151	0.00010	0.00131	0.00010	9711566			
Dissolved Barium (Ba)	mg/L	0.0377	0.0010	0.0424	0.0010	9711475			
Total Barium (Ba)	mg/L	0.0901	0.0010	0.0401	0.0010	9711566			
Dissolved Cadmium (Cd)	mg/L	0.000014	0.000010	<0.000010	0.000010	9711475			
Total Cadmium (Cd)	mg/L	0.000047	0.000010	<0.000010	0.000010	9711566			
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	<0.0010	0.0010	9711475			
Total Chromium (Cr)	mg/L	0.0186	0.0010	<0.0010	0.0010	9711566			
Dissolved Copper (Cu)	mg/L	0.00264	0.00020	0.00172	0.00020	9711475			
Total Copper (Cu)	mg/L	0.0338	0.00050	0.00153	0.00050	9711566			
Dissolved Iron (Fe)	mg/L	0.0777	0.0050	0.0944	0.0050	9711475			
Total Iron (Fe)	mg/L	8.70	0.010	0.152	0.010	9711566			
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	<0.00020	0.00020	9711475			
Total Lead (Pb)	mg/L	0.00557	0.00020	<0.00020	0.00020	9711566			
Dissolved Manganese (Mn)	mg/L	0.0285	0.0010	0.0086	0.0010	9711475			
Total Manganese (Mn)	mg/L	0.156	0.0010	0.0093	0.0010	9711566			
Dissolved Molybdenum (Mo)	mg/L	0.0016	0.0010	<0.0010	0.0010	9711475			
Total Molybdenum (Mo)	mg/L	0.0019	0.0010	<0.0010	0.0010	9711566			
Dissolved Nickel (Ni)	mg/L	0.0020	0.0010	0.0018	0.0010	9711475			
Total Nickel (Ni)	mg/L	0.0185	0.0010	0.0017	0.0010	9711566			
Dissolved Selenium (Se)	mg/L	<0.00010	0.00010	<0.00010	0.00010	9711475			
Total Selenium (Se)	mg/L	0.00018	0.00010	<0.00010	0.00010	9711566			
Dissolved Silver (Ag)	mg/L	<0.000020	0.000020	<0.000020	0.000020	9711475			
Total Silver (Ag)	mg/L	0.000032	0.000020	<0.000020	0.000020	9711566			
Dissolved Thallium (Tl)	mg/L	0.000010	0.000010	<0.000010	0.000010	9711475			
Total Titanium (Ti)	mg/L	0.254	0.0050	<0.0050	0.0050	9711566			
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	<0.0050	0.0050	9711475			
Total Zinc (Zn)	mg/L	0.0210	0.0050	<0.0050	0.0050	9711566			
Dissolved Calcium (Ca)	mg/L	44.6	0.050	40.1	0.050	9708756			
Total Calcium (Ca)	mg/L	42.9	0.050	36.5	0.050	9708754			
Dissolved Magnesium (Mg)	mg/L	9.08	0.050	9.38	0.050	9708756			
Total Magnesium (Mg)	mg/L	11.3	0.050	8.78	0.050	9708754			
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

Bureau Veritas Job #: C4V8519
Report Date: 2024/10/22

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: 1381216
Sampler Initials: MW

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AFKX18		AFKX19			AFKX19		
Sampling Date		2024/10/04 23:00		2024/10/06 15:00			2024/10/06 15:00		
COC Number		975687		975687			975687		
	UNITS	MEL-SR15	RDL	MEL-SR15	RDL	QC Batch	MEL-SR15 Lab-Dup	RDL	QC Batch
Dissolved Potassium (K)	mg/L	7.52	0.050	4.37	0.050	9708756			
Total Potassium (K)	mg/L	8.59	0.050	4.04	0.050	9708754			
Dissolved Sodium (Na)	mg/L	52.6	0.050	55.6	0.050	9708756			
Total Sodium (Na)	mg/L	50.6	0.050	50.6	0.050	9708754			
Petroleum Hydrocarbons									
Total Oil & Grease	mg/L	<0.50	0.50	<0.50	0.50	9700067			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

Bureau Veritas Job #: C4V8519
Report Date: 2024/10/22

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: 1381216
Sampler Initials: MW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		AFKX18	AFKX19		
Sampling Date		2024/10/04 23:00	2024/10/06 15:00		
COC Number		975687	975687		
	UNITS	MEL-SR15	MEL-SR15	RDL	QC Batch
Metals					
Mercury (Hg)	mg/L	<0.00001	<0.00001	0.00001	9697666
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



**BUREAU
VERITAS**

Bureau Veritas Job #: C4V8519
Report Date: 2024/10/22

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: 1381216
Sampler Initials: MW

TEST SUMMARY

Bureau Veritas ID: AFKX18
Sample ID: MEL-SR15
Matrix: Water

Collected: 2024/10/04
Shipped:
Received: 2024/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9698725	N/A	2024/10/12	Nachiketa Gohil
Chloride by Automated Colourimetry	SKAL	9699742	N/A	2024/10/15	Massarat Jan
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Kamalpreet Kaur
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Kamalpreet Kaur
Fluoride	ISE	9698728	2024/10/11	2024/10/12	Nachiketa Gohil
Mercury (low level)	CV/AA	9697666	2024/10/11	2024/10/15	Maitri PATIL
Low Level Chloride and Sulphate by AC	KONE	9710480	N/A	2024/10/18	Tyler Orr
Cyanide, Strong Acid Dissociable (SAD)	TECH/UVVS	9708508	2024/10/17	2024/10/17	Ye Hyun KIM
Hardness (calculated as CaCO ₃)	CALC	9708755	N/A	2024/10/18	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9708756	N/A	2024/10/18	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	9711475	N/A	2024/10/18	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9708754	2024/10/18	2024/10/18	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	9711566	2024/10/17	2024/10/18	Andrew An
Silica (Reactive)	KONE	9708519	N/A	2024/10/17	Tyler Orr
Total Ammonia-N	SKAL/NH ₄	9697346	N/A	2024/10/15	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9698696	N/A	2024/10/12	Chandra Nandlal
Total Oil and Grease	BAL	9700067	2024/10/14	2024/10/14	Kishan Patel
pH	AT	9698726	2024/10/11	2024/10/12	Nachiketa Gohil
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Kamalpreet Kaur
Orthophosphate	SKAL	9698613	N/A	2024/10/15	Massarat Jan
Calculated Total Dissolved Solids	CALC	9693678	N/A	2024/10/22	Automated Statchk
Total Dissolved Solids	BAL	9697369	2024/10/11	2024/10/15	Razieh Tabesh
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Kamalpreet Kaur
Total Phosphorus (Colourimetric)	SKAL/P	9701024	2024/10/15	2024/10/15	Vidhi Khatri
Low Level Total Suspended Solids	BAL	9697963	2024/10/11	2024/10/15	Razieh Tabesh
Turbidity	AT	9698596	N/A	2024/10/11	Kien Tran
Field Measured Dissolved Oxygen	TURB	ONSITE	N/A	2024/10/10	Kamalpreet Kaur

Bureau Veritas ID: AFKX19
Sample ID: MEL-SR15
Matrix: Water

Collected: 2024/10/06
Shipped:
Received: 2024/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9698725	N/A	2024/10/12	Nachiketa Gohil
Chloride by Automated Colourimetry	SKAL	9699742	N/A	2024/10/15	Massarat Jan
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Kamalpreet Kaur
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Kamalpreet Kaur
Fluoride	ISE	9698728	2024/10/11	2024/10/12	Nachiketa Gohil
Mercury (low level)	CV/AA	9697666	2024/10/11	2024/10/15	Maitri PATIL
Low Level Chloride and Sulphate by AC	KONE	9710480	N/A	2024/10/18	Tyler Orr
Cyanide, Strong Acid Dissociable (SAD)	TECH/UVVS	9708508	2024/10/17	2024/10/17	Ye Hyun KIM
Hardness (calculated as CaCO ₃)	CALC	9708755	N/A	2024/10/18	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9708756	N/A	2024/10/18	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	9711475	N/A	2024/10/18	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9708754	2024/10/18	2024/10/18	Automated Statchk



BUREAU
VERITAS

Bureau Veritas Job #: C4V8519

Report Date: 2024/10/22

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: 1381216

Sampler Initials: MW

TEST SUMMARY

Bureau Veritas ID: AFKX19
Sample ID: MEL-SR15
Matrix: Water

Collected: 2024/10/06
Shipped:
Received: 2024/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Elements by CRC ICPMS (total)	ICP/MS	9711566	2024/10/17	2024/10/18	Andrew An
Silica (Reactive)	KONE	9708519	N/A	2024/10/17	Tyler Orr
Total Ammonia-N	SKAL/NH4	9697346	N/A	2024/10/15	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9698696	N/A	2024/10/12	Chandra Nandlal
Total Oil and Grease	BAL	9700067	2024/10/14	2024/10/14	Kishan Patel
pH	AT	9698726	2024/10/11	2024/10/12	Nachiketa Gohil
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Kamalpreet Kaur
Orthophosphate	SKAL	9698613	N/A	2024/10/15	Massarat Jan
Calculated Total Dissolved Solids	CALC	9693678	N/A	2024/10/22	Automated Statchk
Total Dissolved Solids	BAL	9697369	2024/10/11	2024/10/15	Razieh Tabesh
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Kamalpreet Kaur
Total Phosphorus (Colourimetric)	SKAL/P	9701024	2024/10/15	2024/10/15	Vidhi Khatri
Low Level Total Suspended Solids	BAL	9697963	2024/10/11	2024/10/15	Razieh Tabesh
Turbidity	AT	9698596	N/A	2024/10/11	Kien Tran
Field Measured Dissolved Oxygen	TURB	ONSITE	N/A	2024/10/10	Kamalpreet Kaur

Bureau Veritas ID: AFKX19 Dup
Sample ID: MEL-SR15
Matrix: Water

Collected: 2024/10/06
Shipped:
Received: 2024/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	SKAL	9699742	N/A	2024/10/15	Massarat Jan
Orthophosphate	SKAL	9698613	N/A	2024/10/15	Massarat Jan



GENERAL COMMENTS

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

Package 1	6.7°C
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Results relate only to the items tested.



Bureau Veritas Job #: C4V8519
Report Date: 2024/10/22

QUALITY ASSURANCE REPORT

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: 1381216
Sampler Initials: MW

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
9697346	Total Ammonia-N	2024/10/15	NC	75 - 125	101	80 - 120	<0.050	mg/L	1.2	20		
9697369	Total Dissolved Solids	2024/10/15			95	80 - 120	<10	mg/L	1.1	20		
9697666	Mercury (Hg)	2024/10/15	104	75 - 125	101	80 - 120	<0.00001	mg/L	NC	20		
9697963	Total Suspended Solids	2024/10/15			96	80 - 120	<1	mg/L	6.9	20		
9698596	Turbidity	2024/10/12			99	80 - 120	<0.1	NTU	1.2	20		
9698613	Orthophosphate (P)	2024/10/15	100	75 - 125	95	80 - 120	<0.010	mg/L	NC	20		
9698696	Nitrate (N)	2024/10/12	94	80 - 120	97	80 - 120	<0.10	mg/L	0.088	20		
9698696	Nitrite (N)	2024/10/12	111	80 - 120	109	80 - 120	<0.010	mg/L				
9698725	Alkalinity (Total as CaCO3)	2024/10/12			101	85 - 115	<1.0	mg/L	2.4	20		
9698726	pH	2024/10/12			102	98 - 103			0.19	N/A		
9698728	Fluoride (F-)	2024/10/12	105	80 - 120	104	80 - 120	<0.10	mg/L	NC	20		
9699742	Dissolved Chloride (Cl-)	2024/10/15	NC	80 - 120	93	80 - 120	<1.0	mg/L	3.5	20		
9700067	Total Oil & Grease	2024/10/14			98	80 - 110	<0.50	mg/L	0.25	25		
9701024	Total Phosphorus	2024/10/15	96	80 - 120	105	80 - 120	<0.020	mg/L	1.0	20	104	80 - 120
9708508	Strong Acid Dissoc. Cyanide (CN)	2024/10/17	109	80 - 120	106	80 - 120	<0.00050	mg/L				
9708519	Reactive Silica (SiO2)	2024/10/17	NC	80 - 120	106	80 - 120	<0.050	mg/L				
9710480	Dissolved Sulphate (SO4)	2024/10/18	97	80 - 120	100	80 - 120	<0.50	mg/L	NC	20		
9711475	Dissolved Aluminum (Al)	2024/10/18	98	80 - 120	100	80 - 120	<0.0030	mg/L				
9711475	Dissolved Arsenic (As)	2024/10/18	100	80 - 120	104	80 - 120	<0.00010	mg/L				
9711475	Dissolved Barium (Ba)	2024/10/18	100	80 - 120	103	80 - 120	<0.0010	mg/L				
9711475	Dissolved Cadmium (Cd)	2024/10/18	100	80 - 120	103	80 - 120	<0.000010	mg/L				
9711475	Dissolved Chromium (Cr)	2024/10/18	95	80 - 120	99	80 - 120	<0.0010	mg/L				
9711475	Dissolved Copper (Cu)	2024/10/18	93	80 - 120	96	80 - 120	<0.00020	mg/L				
9711475	Dissolved Iron (Fe)	2024/10/18	100	80 - 120	103	80 - 120	<0.0050	mg/L				
9711475	Dissolved Lead (Pb)	2024/10/18	96	80 - 120	96	80 - 120	<0.00020	mg/L				
9711475	Dissolved Manganese (Mn)	2024/10/18	94	80 - 120	98	80 - 120	<0.0010	mg/L				
9711475	Dissolved Molybdenum (Mo)	2024/10/18	101	80 - 120	107	80 - 120	<0.0010	mg/L				
9711475	Dissolved Nickel (Ni)	2024/10/18	97	80 - 120	101	80 - 120	<0.0010	mg/L				
9711475	Dissolved Selenium (Se)	2024/10/18	101	80 - 120	104	80 - 120	<0.00010	mg/L				
9711475	Dissolved Silver (Ag)	2024/10/18	97	80 - 120	100	80 - 120	<0.000020	mg/L				
9711475	Dissolved Thallium (Tl)	2024/10/18	99	80 - 120	99	80 - 120	<0.000010	mg/L				
9711475	Dissolved Zinc (Zn)	2024/10/18	101	80 - 120	104	80 - 120	<0.0050	mg/L				



Bureau Veritas Job #: C4V8519
Report Date: 2024/10/22

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: 1381216
Sampler Initials: MW

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
9711566	Total Aluminum (Al)	2024/10/18	98	80 - 120	99	80 - 120	<0.0030	mg/L	1.7	20		
9711566	Total Arsenic (As)	2024/10/18	112	80 - 120	100	80 - 120	<0.00010	mg/L	0.76	20		
9711566	Total Barium (Ba)	2024/10/18	NC	80 - 120	102	80 - 120	<0.0010	mg/L	0.19	20		
9711566	Total Cadmium (Cd)	2024/10/18	102	80 - 120	100	80 - 120	<0.000010	mg/L	2.0	20		
9711566	Total Chromium (Cr)	2024/10/18	94	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
9711566	Total Copper (Cu)	2024/10/18	90	80 - 120	94	80 - 120	<0.00050	mg/L	0.078	20		
9711566	Total Iron (Fe)	2024/10/18	NC	80 - 120	100	80 - 120	<0.010	mg/L	0.23	20		
9711566	Total Lead (Pb)	2024/10/18	95	80 - 120	97	80 - 120	<0.00020	mg/L	0.12	20		
9711566	Total Manganese (Mn)	2024/10/18	NC	80 - 120	96	80 - 120	<0.0010	mg/L	1.0	20		
9711566	Total Molybdenum (Mo)	2024/10/18	NC	80 - 120	102	80 - 120	<0.0010	mg/L	1.0	20		
9711566	Total Nickel (Ni)	2024/10/18	93	80 - 120	98	80 - 120	<0.0010	mg/L	0.59	20		
9711566	Total Selenium (Se)	2024/10/18	104	80 - 120	100	80 - 120	<0.00010	mg/L	0.69	20		
9711566	Total Silver (Ag)	2024/10/18	99	80 - 120	99	80 - 120	<0.000020	mg/L	0.34	20		
9711566	Total Titanium (Ti)	2024/10/18	105	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
9711566	Total Zinc (Zn)	2024/10/18	NC	80 - 120	100	80 - 120	<0.0050	mg/L	1.2	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 $\leq 2 \times \text{RDL}$).



BUREAU
VERITAS

Bureau Veritas Job #: C4V8519
Report Date: 2024/10/22

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: 1381216
Sampler Initials: MW

VALIDATION SIGNATURE PAGE

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

Cristina Carriere, Senior Scientific Specialist

David Huang, BBY Scientific Specialist

Sandy Yuan, M.Sc., QP, Scientific Specialist



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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS



Canada



Inuvialuit Land Administration

NT-NU 24-HOUR SPILL REPORT LINE

Tel: (867) 920-8130 • Email: spills@gov.nt.ca

A	Report Date:	10/13/24	Report Time:	9:30 am	<input checked="" type="checkbox"/> Original Spill Report OR <input type="checkbox"/> Update # _____ to the Original Spill Report	Report Number:
	B	Occurrence Date:	10/12/24	Occurrence Time:		
C	Land Use Permit Number (if applicable): KVPL11D01			Water Licence Number (if applicable): 2AM-MEL1631		
D	Geographic Place Name or Distance and Direction from the Named Location: Meliadine Gold Project				Region: <input type="checkbox"/> NT <input checked="" type="checkbox"/> Nunavut <input type="checkbox"/> Trans-boundary or Ocean	
E	Latitude: 63 Degrees 2 Minutes 21 Seconds			Longitude: 92 Degrees 13 Minutes 41 Seconds		
F	Responsible Party or Vessel Name: Agnico Eagle Mines Ltd.		Responsible Party Address or Office Location: Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	Any Contractor Involved: None		Contractor Address or Office Location: None			
H	Product Spilled: <input type="checkbox"/> Potential Spill Treated water		Quantity in Litres, Kilograms or Cubic Metres: Unknown		U.N. Number: N/A	
I	Spill Source: Meliadine Lake effluent pipe		Spill Cause: Equipment failure		Area of Contamination in Square Metres: Unknown	
J	Factors Affecting Spill or Recovery: N/A		Describe Any Assistance Required: N/A		Hazards to Persons, Property or Environment: N/A	
K	Summary of the spill incident and efforts / description of the incident: Treated water was found to be leaking from a damaged valve on the Meliadine Lake effluent pipe behind D-CP1. Discharge to Meliadine Lake was stopped and the valve was repaired shortly after discovery of the leak. Approximate location of spill: 63°1'47.02"N 92°12'20.83"W. The closest water body (Lake H5) is approximately 240 m north. Pursuant to Part H, Item 8c of the Water Licence, a follow-up report will be issued after a closer investigation is completed. Reported by John Baechler, Environment General Supervisor. 819-759-3555 ext. 4603212, john.baechler@agnicoeagle.com .					
L	Reported to Spill Line by: John Baechler	Position: Env. Gen. Supervisor	Employer: AEM	Location Calling From: Meliadine	Telephone: (819) 759-3555	
M	Any Alternate Contact: Randy Schwandt	Position: Env. Coordinator	Employer: AEM	Alternate Contact Location: Meliadine	Alternate Telephone: (819) 759-3555	

REPORT LINE USE ONLY

N	Received at Spill Line by:	Position:	Employer:	Location Called:	Report Line Number:
Lead Agency: <input type="checkbox"/> EC <input type="checkbox"/> CCG/TCMSS <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> CIRNAC <input type="checkbox"/> CER <input type="checkbox"/> Other: _____				File Status: <input type="checkbox"/> Open <input type="checkbox"/> Closed	
Agency:		Contact Name:	Contact Time:	Remarks:	
Lead Agency:					
First Support Agency:					
Second Support Agency:					
Third Support Agency:					

November 9th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-496 – Release of 200 m³ of treated water at the Meliadine Gold Project

On October 13th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a release of 200 m³ of treated water at the Meliadine Gold Project site (coordinates: 63 1'47.02"N, 92 12'20.83"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On October 12th, 2024, at approximately 10:45AM, it was noted during winterization of a nearby pipe, that treated water was leaking from the Meliadine Lake effluent pipe behind D-CP1. It was estimated that 200m³ of treated water was released into the tundra. This is the discharge pipe from the Effluent Water Treatment Plant (EWTP) to Meliadine Lake at monitoring station and Final Discharge Point (FDP) MEL-14. The incident was a result of a damaged tapping sleeve on the effluent pipe.

The closest water body (H5) is approximately 240 meters north, as seen in Figure 1.



Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

Upon discovering the leak, discharge to Meliadine Lake was suspended and the tapping sleeve was repaired on October 13th, 2024, in the early morning. Once the sleeve was repaired, the discharge to Meliadine Lake was resumed and the effluent water pipe was inspected to confirm there were no leaks. A small sump was excavated to collect the released water from the tundra and pump it back into CP1 for treatment through the EWTP and discharge to Meliadine Lake.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:

- This leak was due to equipment failure of a tapping sleeve on the effluent pipe.
- The effluent pipe had moved off the cribbing used to support the pipe, which allowed the tapping sleeve outlet to contact the ground.
- The decreasing temperatures may have caused the pipe to contract, creating a leak in the tapping sleeve.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- The tapping sleeve was repaired shortly after the discovery of the leak and cribbing was placed to support the sleeve.
- As a preventative measure, the procedure for checking the lines was modified to include photo documentation of the line inspection prior to discharge.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator

randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0

agnicoeagle.com     

Sent from Meliadine

Appendix A – Photos



Photo 1: Location of leaking sleeve and treated water release.



Photo 2: Sump excavated to collect the treated water.



Photo 3: Repair leak and cribbing at the area of the treated water release.

Appendix B – Certificate of Analysis



Your P.O. #: OL-1381216
Site Location: Meliadine
Your C.O.C. #: 975695

Attention: Reporting

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

Report Date: 2024/10/24
Report #: R8375374
Version: 4 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4V8293

Received: 2024/10/09, 10:00

Sample Matrix: Surface Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity (1)	3	N/A	2024/10/11	CAM SOP-00448	SM 24 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	3	N/A	2024/10/11	CAM SOP-00102	APHA 4500-CO2 D
Biochemical Oxygen Demand (BOD) (1)	3	2024/10/10	2024/10/15	CAM SOP-00427	SM 24 5210B m
Chloride by Automated Colourimetry (1)	3	N/A	2024/10/11	CAM SOP-00463	SM 24 4500-Cl E m
Conductivity (1)	3	N/A	2024/10/11	CAM SOP-00414	SM 24 2510 m
Dissolved Organic Carbon (DOC) (1, 5)	3	N/A	2024/10/10	CAM SOP-00446	SM 24 5310 B m
Field Measured Dissolved Oxygen (1, 6)	3	N/A	2024/10/10		Field pH Meter
Dissolved Oxygen (1)	3	2024/10/10	2024/10/10	CAM SOP-00427	SM 24 4500 O G m
Field Measured Conductivity (1, 6)	3	N/A	2024/10/10		Field Meter
Petroleum Hydro. CCME F1 & BTEX in Water (1)	3	N/A	2024/10/10	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 7)	3	2024/10/10	2024/10/11	CAM SOP-00316	CCME PHC-CWS m
Fluoride (1)	3	2024/10/10	2024/10/11	CAM SOP-00449	SM 24 4500-F C m
Dissolved Mercury (low level) (1)	3	2024/10/10	2024/10/11	CAM SOP-00453	EPA 7470 m
Mercury (low level) (1)	3	2024/10/10	2024/10/11	CAM SOP-00453	EPA 7470 m
Lab Filtered Metals Analysis by ICP (1)	3	2024/10/10	2024/10/11	CAM SOP-00408	EPA 6010D m
Low Level Chloride and Sulphate by AC (2)	3	N/A	2024/10/15	AB SOP-00020	SM24-4500-Cl/SO4-E m
Cyanide (Free) (2)	3	N/A	2024/10/15	CAL SOP-00266	EPA 9016d R0 m
Cyanide, Strong Acid Dissociable (SAD) (2)	3	2024/10/13	2024/10/15	CAL SOP-00270	SM 24 4500-CN m
Cyanide WAD (weak acid dissociable) (2)	3	N/A	2024/10/15	CAL SOP-00270	SM 24 4500-CN m
Hardness Total (calculated as CaCO3) (3, 8)	3	N/A	2024/10/16	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	3	N/A	2024/10/16	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	3	N/A	2024/10/16	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (dissolved) (3)	3	N/A	2024/10/16	BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	3	2024/10/10	2024/10/16	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total) (3)	3	2024/10/15	2024/10/16	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Silica (Reactive) (2)	3	N/A	2024/10/17	AB SOP-00011	EPA 370.1 R1978 m
Total Ammonia-N (1)	3	N/A	2024/10/10	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1, 9)	3	N/A	2024/10/11	CAM SOP-00440	SM 24 4500-NO3I/NO2B
pH (1, 10)	3	2024/10/10	2024/10/11	CAM SOP-00413	SM 24th - 4500H+ B
Field Measured pH (1, 6)	3	N/A	2024/10/10		Field pH Meter



Your P.O. #: OL-1381216
 Site Location: Meliadine
 Your C.O.C. #: 975695

Attention: Reporting

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

Report Date: 2024/10/24
 Report #: R8375374
 Version: 4 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4V8293

Received: 2024/10/09, 10:00

Sample Matrix: Surface Water
 # Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Orthophosphate (1)	3	N/A	2024/10/11	CAM SOP-00461	SM 24 4500-P E
Radium-226 Low Level (4, 11)	3	N/A	2024/10/23	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry
Salinity (1)	3	2024/10/10	2024/10/10	AUTO-CALC	SM 23 2520B
Sodium Adsorption Ratio (SAR) (1)	3	N/A	2024/10/11	CAM SOP-00102	EPA 6010C
Total Dissolved Solids (TDS calc) (1)	3	N/A	2024/10/18		Auto Calc
Calculated Total Dissolved Solids (1)	3	N/A	2024/10/18		Auto Calc
Total Dissolved Solids (1)	3	2024/10/10	2024/10/11	CAM SOP-00428	SM 24 2540C m
Field Temperature (1, 6)	3	N/A	2024/10/10		Field Thermometer
Total Kjeldahl Nitrogen in Water (1)	3	2024/10/10	2024/10/11	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (1, 12)	1	N/A	2024/10/10	CAM SOP-00446	SM 24 5310B m
Total Organic Carbon (TOC) (1, 12)	2	N/A	2024/10/11	CAM SOP-00446	SM 24 5310B m
Total Phosphorus (Colourimetric) (1)	3	2024/10/10	2024/10/11	CAM SOP-00407	SM 24 4500-P I
Low Level Total Suspended Solids (1)	3	2024/10/10	2024/10/11	CAM SOP-00428	SM 24 2540D m
Turbidity (1)	3	N/A	2024/10/10	CAM SOP-00417	SM 24 2130 B
Turbidity - On-site (1)	3	N/A	2024/10/10		
Un-ionized Ammonia (as N) (1, 13)	3	2024/10/10	2024/10/11	Calculation	Calculation

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, EPA, APHA or the Quebec Ministry of Environment.

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



Your P.O. #: OL-1381216
Site Location: Meliadine
Your C.O.C. #: 975695

Attention: Reporting

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

Report Date: 2024/10/24
Report #: R8375374
Version: 4 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4V8293

Received: 2024/10/09, 10:00
customer or their agent.

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

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

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

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

(2) This test was performed by Bureau Veritas Calgary (19th), 4000 19th Street NE , Calgary, AB, T2E 6P8

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

(4) This test was performed by Bureau Veritas Kitimat, 6790 Kitimat Road, Unit 4 , Mississauga, ON, L5N 5L9

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

(6) This is a field test, therefore, the results relate to items that were not analysed at Bureau Veritas.

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

(8) "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).

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

(10) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed 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 and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."

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

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

(13) Un-ionized ammonia is calculated using the total ammonia result and field data provided by the client for pH and temperature.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Katherine Szozda, Project Manager

Email: Katherine.Szozda@bureauveritas.com

Phone# (613)274-0573 Ext:7063633

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		AFKM24			AFKM24		
Sampling Date		2024/10/07 07:20			2024/10/07 07:20		
COC Number		975695			975695		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch

Inorganics							
Salinity	N/A	<2	2	9693672			

Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	93	1.0	9693669			
Calculated TDS	mg/L	2100	1.0	9693677			
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	9693669			
Dissolved Hardness (CaCO ₃)	mg/L	741	0.50	9704551			
Sodium Adsorption Ratio	N/A	6.0		9693673			

Field Measurements							
Field Measured Conductivity	uS/cm	3434	N/A	ONSITE			
Field Measured Dissolved oxygen	mg/L	14.13	N/A	ONSITE			
Field Temperature	Celsius	6.3	N/A	ONSITE			
Field Measured Field Turbidity	NTU	1.46	N/A	ONSITE			
Field Measured pH	pH	7.55		ONSITE			

Inorganics							
Total Ammonia-N	mg/L	3.3 (1)	0.050	9694245			
Total BOD	mg/L	<2	2	9693463			
Conductivity	mS/cm	3.45	N/A	9695906	3.45	N/A	9695906
Free Cyanide (CN)	ug/L	<2.0 (2)	2.0	9704946			
Strong Acid Dissoc. Cyanide (CN)	mg/L	0.00354	0.00050	9702846			
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.0020	0.00050	9702845			
Total Dissolved Solids	mg/L	2180	10	9695168			
Fluoride (F-)	mg/L	<0.10	0.10	9695903	<0.10	0.10	9695903
Total Kjeldahl Nitrogen (TKN)	mg/L	3.0 (1)	1.0	9696548			
Dissolved Organic Carbon	mg/L	9.0	0.40	9694723			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 N/A = Not Applicable
 (1) TKN < NH₄: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.
 (2) 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.



BUREAU
VERITAS

Bureau Veritas Job #: C4V8293

Report Date: 2024/10/24

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: ks

RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		AFKM24			AFKM24		
Sampling Date		2024/10/07 07:20			2024/10/07 07:20		
COC Number		975695			975695		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Total Organic Carbon (TOC)	mg/L	9.8	0.40	9694597			
Orthophosphate (P)	mg/L	<0.010	0.010	9695970			
Dissolved Oxygen	mg/L	11.4	0.050	9694330	11.4	0.050	9694330
pH	pH	7.61		9695896	7.66		9695896
Total Phosphorus	mg/L	0.033	0.020	9694492	0.032	0.020	9694492
Reactive Silica (SiO ₂)	mg/L	3.0	0.050	9707545			
Total Suspended Solids	mg/L	5	1	9694097			
Turbidity	NTU	0.8	0.1	9693454			
Alkalinity (Total as CaCO ₃)	mg/L	93	1.0	9695904	96	1.0	9695904
Dissolved Chloride (Cl ⁻)	mg/L	740	10	9695968			
Nitrite (N)	mg/L	0.441	0.010	9694611			
Nitrate (N)	mg/L	19.2	0.10	9694611			
Dissolved Sulphate (SO ₄)	mg/L	460	2.5	9704945			
Nitrate + Nitrite (N)	mg/L	19.7	0.10	9694611			
Un-ionized Ammonia (as N)	mg/L	0.016	0.0004	9693679			
Metals							
Dissolved Aluminum (Al)	mg/L	0.126	0.0060	9708873			
Total Aluminum (Al)	mg/L	0.649	0.0060	9710230	0.657	0.0060	9710230
Dissolved Antimony (Sb)	mg/L	0.0011	0.0010	9708873			
Total Antimony (Sb)	mg/L	<0.0010	0.0010	9710230	<0.0010	0.0010	9710230
Dissolved Arsenic (As)	mg/L	0.00395	0.00020	9708873			
Total Arsenic (As)	mg/L	0.00633	0.00020	9710230	0.00630	0.00020	9710230
Dissolved Barium (Ba)	mg/L	0.0577	0.0020	9708873			
Total Barium (Ba)	mg/L	0.0517	0.0020	9710230	0.0520	0.0020	9710230
Dissolved Beryllium (Be)	mg/L	<0.00020	0.00020	9708873			
Total Beryllium (Be)	mg/L	<0.00020	0.00020	9710230	<0.00020	0.00020	9710230
Dissolved Boron (B)	mg/L	0.32	0.10	9708873			
Total Boron (B)	mg/L	0.28	0.10	9710230	0.27	0.10	9710230
Dissolved Cadmium (Cd)	mg/L	<0.000020	0.000020	9708873			
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C4V8293

Report Date: 2024/10/24

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: ks

RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		AFKM24			AFKM24		
Sampling Date		2024/10/07 07:20			2024/10/07 07:20		
COC Number		975695			975695		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Total Cadmium (Cd)	mg/L	<0.000020	0.000020	9710230	<0.000020	0.000020	9710230
Dissolved Chromium (Cr)	mg/L	<0.0020	0.0020	9708873			
Total Chromium (Cr)	mg/L	<0.0020	0.0020	9710230	<0.0020	0.0020	9710230
Dissolved Cobalt (Co)	mg/L	0.00221	0.00040	9708873			
Total Cobalt (Co)	mg/L	0.00204	0.00040	9710230	0.00201	0.00040	9710230
Dissolved Copper (Cu)	mg/L	0.00224	0.00040	9708873			
Total Copper (Cu)	mg/L	0.0021	0.0010	9710230	0.0021	0.0010	9710230
Dissolved Iron (Fe)	mg/L	<0.010	0.010	9708873			
Total Iron (Fe)	mg/L	0.027	0.020	9710230	0.027	0.020	9710230
Dissolved Lead (Pb)	mg/L	<0.00040	0.00040	9708873			
Total Lead (Pb)	mg/L	<0.00040	0.00040	9710230	<0.00040	0.00040	9710230
Dissolved Lithium (Li)	mg/L	0.0305	0.0040	9708873			
Total Lithium (Li)	mg/L	0.0274	0.0040	9710230	0.0264	0.0040	9710230
Dissolved Manganese (Mn)	mg/L	0.203	0.0020	9708873			
Total Manganese (Mn)	mg/L	0.182	0.0020	9710230	0.184	0.0020	9710230
Dissolved Molybdenum (Mo)	mg/L	0.0056	0.0020	9708873			
Total Molybdenum (Mo)	mg/L	0.0050	0.0020	9710230	0.0050	0.0020	9710230
Dissolved Nickel (Ni)	mg/L	0.0140	0.0020	9708873			
Total Nickel (Ni)	mg/L	0.0125	0.0020	9710230	0.0127	0.0020	9710230
Dissolved Selenium (Se)	mg/L	0.00139	0.00020	9708873			
Total Selenium (Se)	mg/L	0.00126	0.00020	9710230	0.00125	0.00020	9710230
Dissolved Silver (Ag)	mg/L	<0.000040	0.000040	9708873			
Total Silver (Ag)	mg/L	<0.000040	0.000040	9710230	<0.000040	0.000040	9710230
Dissolved Strontium (Sr)	mg/L	1.90	0.0020	9708873			
Total Strontium (Sr)	mg/L	1.74	0.0020	9710230	1.71	0.0020	9710230
Dissolved Thallium (Tl)	mg/L	0.000027	0.000020	9708873			
Total Thallium (Tl)	mg/L	0.000026	0.000020	9710230	0.000024	0.000020	9710230
Dissolved Tin (Sn)	mg/L	<0.010	0.010	9708873			
Total Tin (Sn)	mg/L	<0.010	0.010	9710230	<0.010	0.010	9710230
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C4V8293

Report Date: 2024/10/24

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: ks

RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		AFKM24			AFKM24		
Sampling Date		2024/10/07 07:20			2024/10/07 07:20		
COC Number		975695			975695		
	UNITS	MEL-14	RDL	QC Batch	MEL-14 Lab-Dup	RDL	QC Batch
Dissolved Titanium (Ti)	mg/L	<0.010	0.010	9708873			
Total Titanium (Ti)	mg/L	<0.010	0.010	9710230	<0.010	0.010	9710230
Dissolved Uranium (U)	mg/L	0.00465	0.00020	9708873			
Total Uranium (U)	mg/L	0.00446	0.00020	9710230	0.00441	0.00020	9710230
Dissolved Vanadium (V)	mg/L	<0.010	0.010	9708873			
Total Vanadium (V)	mg/L	<0.010	0.010	9710230	<0.010	0.010	9710230
Dissolved Zinc (Zn)	mg/L	<0.010	0.010	9708873			
Total Zinc (Zn)	mg/L	<0.010	0.010	9710230	<0.010	0.010	9710230
Dissolved Calcium (Ca)	mg/L	187	0.10	9705898			
Total Calcium (Ca)	mg/L	168	0.10	9704554			
Dissolved Magnesium (Mg)	mg/L	66.3	0.10	9705898			
Total Magnesium (Mg)	mg/L	59.9	0.10	9704554			
Dissolved Potassium (K)	mg/L	27.0	0.10	9705898			
Total Potassium (K)	mg/L	24.0	0.10	9704554			
Dissolved Sodium (Na)	mg/L	347	0.10	9705898			
Total Sodium (Na)	mg/L	329	0.10	9704554			
RADIONUCLIDE							
Radium-226	Bq/L	0.010	0.0050	9709219			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C4V8293

Report Date: 2024/10/24

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: ks

RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		AFKM25			AFKM25			AFKM26		
Sampling Date		2024/10/07 17:56			2024/10/07 17:56			2024/10/07 07:20		
COC Number		975695			975695			975695		
	UNITS	MEL-14 FB	RDL	QC Batch	MEL-14 FB Lab-Dup	RDL	QC Batch	MEL-14 DUP	RDL	QC Batch

Inorganics										
Salinity	N/A	<2	2	9693672				<2	2	9693672
Calculated Parameters										
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	9693669				95	1.0	9693669
Calculated TDS	mg/L	1.0	1.0	9693677				2100	1.0	9693677
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	9693669				<1.0	1.0	9693669
Dissolved Hardness (CaCO ₃)	mg/L	<0.50	0.50	9704551				823	0.50	9704551
Sodium Adsorption Ratio	N/A	0.27 (1)		9693674				6.0		9693674
Field Measurements										
Field Measured Conductivity	uS/cm	16.3	N/A	ONSITE				3434	N/A	ONSITE
Field Measured Dissolved oxygen	mg/L	6.85	N/A	ONSITE				14.13	N/A	ONSITE
Field Temperature	Celsius	18.7	N/A	ONSITE				6.3	N/A	ONSITE
Field Measured Field Turbidity	NTU	.21	N/A	ONSITE				1.46	N/A	ONSITE
Field Measured pH	pH	5.39		ONSITE				7.55		ONSITE

Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	9694245				3.4	0.050	9694245
Total BOD	mg/L	<2	2	9693463				<2	2	9693463
Conductivity	mS/cm	0.00120	N/A	9695906				3.45	N/A	9695906
Free Cyanide (CN)	ug/L	<2.0 (2)	2.0	9704946				<2.0 (2)	2.0	9704946
Strong Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	0.00050	9702846				0.00293	0.00050	9702846
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	0.00050	9702845				0.0019	0.00050	9702845
Total Dissolved Solids	mg/L	<10	10	9695168				2200	10	9695168
Fluoride (F ⁻)	mg/L	<0.10	0.10	9695903				<0.10	0.10	9695903

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

(2) 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.



BUREAU
VERITAS

Bureau Veritas Job #: C4V8293
Report Date: 2024/10/24

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: ks

RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		AFKM25			AFKM25			AFKM26		
Sampling Date		2024/10/07 17:56			2024/10/07 17:56			2024/10/07 07:20		
COC Number		975695			975695			975695		
	UNITS	MEL-14 FB	RDL	QC Batch	MEL-14 FB Lab-Dup	RDL	QC Batch	MEL-14 DUP	RDL	QC Batch
Total Kjeldahl Nitrogen (TKN)	mg/L	<0.10	0.10	9696548				3.0 (1)	1.0	9696548
Dissolved Organic Carbon	mg/L	0.55	0.40	9694723				8.8	0.40	9694723
Total Organic Carbon (TOC)	mg/L	<0.40	0.40	9694597	<0.40	0.40	9694597	9.8	0.40	9694597
Orthophosphate (P)	mg/L	<0.010	0.010	9695970				<0.010	0.010	9695970
Dissolved Oxygen	mg/L	11.5	0.050	9694330				11.6	0.050	9694330
pH	pH	5.74		9695896				7.60		9695896
Total Phosphorus	mg/L	<0.020	0.020	9694492				0.030	0.020	9694492
Reactive Silica (SiO ₂)	mg/L	<0.050	0.050	9707545				2.9	0.050	9707545
Total Suspended Solids	mg/L	<1	1	9694097				5	1	9694097
Turbidity	NTU	<0.1	0.1	9693454				0.9	0.1	9693454
Alkalinity (Total as CaCO ₃)	mg/L	<1.0	1.0	9695904				95	1.0	9695904
Dissolved Chloride (Cl ⁻)	mg/L	<1.0	1.0	9695968				750	10	9695968
Nitrite (N)	mg/L	<0.010	0.010	9694611				0.446	0.010	9694611
Nitrate (N)	mg/L	<0.10	0.10	9694611				19.3	0.10	9694611
Dissolved Sulphate (SO ₄)	mg/L	<0.50	0.50	9704945	<0.50	0.50	9704945	440	2.5	9704945
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9694611				19.7	0.10	9694611
Un-ionized Ammonia (as N)	mg/L	<0.0004	0.0004	9693679				0.017	0.0004	9693679
Metals										
Dissolved Aluminum (Al)	mg/L	<0.0030	0.0030	9708873				0.139	0.0060	9708873
Total Aluminum (Al)	mg/L	<0.0030	0.0030	9710230				0.706	0.0060	9710230
Dissolved Antimony (Sb)	mg/L	<0.00050	0.00050	9708873				0.0012	0.0010	9708873
Total Antimony (Sb)	mg/L	<0.00050	0.00050	9710230				0.0011	0.0010	9710230
Dissolved Arsenic (As)	mg/L	<0.00010	0.00010	9708873				0.00444	0.00020	9708873
Total Arsenic (As)	mg/L	<0.00010	0.00010	9710230				0.00671	0.00020	9710230
Dissolved Barium (Ba)	mg/L	<0.0010	0.0010	9708873				0.0650	0.0020	9708873
Total Barium (Ba)	mg/L	<0.0010	0.0010	9710230				0.0553	0.0020	9710230
Dissolved Beryllium (Be)	mg/L	<0.00010	0.00010	9708873				<0.00020	0.00020	9708873
Total Beryllium (Be)	mg/L	<0.00010	0.00010	9710230				<0.00020	0.00020	9710230

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.



**BUREAU
VERITAS**

Bureau Veritas Job #: C4V8293
Report Date: 2024/10/24

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: ks

RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		AFKM25			AFKM25			AFKM26		
Sampling Date		2024/10/07 17:56			2024/10/07 17:56			2024/10/07 07:20		
COC Number		975695			975695			975695		
	UNITS	MEL-14 FB	RDL	QC Batch	MEL-14 FB Lab-Dup	RDL	QC Batch	MEL-14 DUP	RDL	QC Batch
Dissolved Boron (B)	mg/L	<0.050	0.050	9708873				0.35	0.10	9708873
Total Boron (B)	mg/L	<0.050	0.050	9710230				0.30	0.10	9710230
Dissolved Cadmium (Cd)	mg/L	<0.000010	0.000010	9708873				<0.000020	0.000020	9708873
Total Cadmium (Cd)	mg/L	<0.000010	0.000010	9710230				<0.000020	0.000020	9710230
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	9708873				<0.0020	0.0020	9708873
Total Chromium (Cr)	mg/L	<0.0010	0.0010	9710230				<0.0020	0.0020	9710230
Dissolved Cobalt (Co)	mg/L	<0.00020	0.00020	9708873				0.00246	0.00040	9708873
Total Cobalt (Co)	mg/L	<0.00020	0.00020	9710230				0.00211	0.00040	9710230
Dissolved Copper (Cu)	mg/L	<0.00020	0.00020	9708873				0.00249	0.00040	9708873
Total Copper (Cu)	mg/L	<0.00050	0.00050	9710231				0.0022	0.0010	9710230
Dissolved Iron (Fe)	mg/L	<0.0050	0.0050	9708873				<0.010	0.010	9708873
Total Iron (Fe)	mg/L	0.013	0.010	9710230				0.028	0.020	9710230
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	9708873				<0.00040	0.00040	9708873
Total Lead (Pb)	mg/L	<0.00020	0.00020	9710230				<0.00040	0.00040	9710230
Dissolved Lithium (Li)	mg/L	<0.0020	0.0020	9708873				0.0334	0.0040	9708873
Total Lithium (Li)	mg/L	<0.0020	0.0020	9710230				0.0280	0.0040	9710230
Dissolved Manganese (Mn)	mg/L	<0.0010	0.0010	9708873				0.235	0.0020	9708873
Total Manganese (Mn)	mg/L	<0.0010	0.0010	9710230				0.192	0.0020	9710230
Dissolved Molybdenum (Mo)	mg/L	<0.0010	0.0010	9708873				0.0061	0.0020	9708873
Total Molybdenum (Mo)	mg/L	<0.0010	0.0010	9710230				0.0053	0.0020	9710230
Dissolved Nickel (Ni)	mg/L	<0.0010	0.0010	9708873				0.0154	0.0020	9708873
Total Nickel (Ni)	mg/L	<0.0010	0.0010	9710230				0.0132	0.0020	9710230
Dissolved Selenium (Se)	mg/L	<0.00010	0.00010	9708873				0.00154	0.00020	9708873
Total Selenium (Se)	mg/L	<0.00010	0.00010	9710230				0.00136	0.00020	9710230
Dissolved Silver (Ag)	mg/L	<0.000020	0.000020	9708873				<0.000040	0.000040	9708873
Total Silver (Ag)	mg/L	<0.000020	0.000020	9710230				<0.000040	0.000040	9710230
Dissolved Strontium (Sr)	mg/L	<0.0010	0.0010	9708873				2.12	0.0020	9708873
Total Strontium (Sr)	mg/L	<0.0010	0.0010	9710230				1.85	0.0020	9710230
Dissolved Thallium (Tl)	mg/L	<0.000010	0.000010	9708873				0.000027	0.000020	9708873

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



**BUREAU
VERITAS**

Bureau Veritas Job #: C4V8293
Report Date: 2024/10/24

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: ks

RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		AFKM25			AFKM25			AFKM26		
Sampling Date		2024/10/07 17:56			2024/10/07 17:56			2024/10/07 07:20		
COC Number		975695			975695			975695		
	UNITS	MEL-14 FB	RDL	QC Batch	MEL-14 FB Lab-Dup	RDL	QC Batch	MEL-14 DUP	RDL	QC Batch
Total Thallium (Tl)	mg/L	<0.000010	0.000010	9710230				0.000023	0.000020	9710230
Dissolved Tin (Sn)	mg/L	<0.0050	0.0050	9708873				<0.010	0.010	9708873
Total Tin (Sn)	mg/L	<0.0050	0.0050	9710230				<0.010	0.010	9710230
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	9708873				<0.010	0.010	9708873
Total Titanium (Ti)	mg/L	<0.0050	0.0050	9710230				<0.010	0.010	9710230
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	9708873				0.00523	0.00020	9708873
Total Uranium (U)	mg/L	<0.00010	0.00010	9710230				0.00464	0.00020	9710230
Dissolved Vanadium (V)	mg/L	<0.0050	0.0050	9708873				<0.010	0.010	9708873
Total Vanadium (V)	mg/L	<0.0050	0.0050	9710230				<0.010	0.010	9710230
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	9708873				<0.010	0.010	9708873
Total Zinc (Zn)	mg/L	<0.0050	0.0050	9710230				<0.010	0.010	9710230
Dissolved Calcium (Ca)	mg/L	0.100	0.050	9705898				208	0.10	9705898
Total Calcium (Ca)	mg/L	<0.050	0.050	9704554				176	0.10	9704554
Dissolved Magnesium (Mg)	mg/L	<0.050	0.050	9705898				73.6	0.10	9705898
Total Magnesium (Mg)	mg/L	<0.050	0.050	9704554				63.5	0.10	9704554
Dissolved Potassium (K)	mg/L	<0.050	0.050	9705898				30.2	0.10	9705898
Total Potassium (K)	mg/L	<0.050	0.050	9704554				26.0	0.10	9704554
Dissolved Sodium (Na)	mg/L	<0.050	0.050	9705898				388	0.10	9705898
Total Sodium (Na)	mg/L	<0.050	0.050	9704554				345	0.10	9704554
RADIONUCLIDE										
Radium-226	Bq/L	<0.0050	0.0050	9709219				0.0080	0.0050	9709219
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		AFKM26		
Sampling Date		2024/10/07 07:20		
COC Number		975695		
	UNITS	MEL-14 DUP Lab-Dup	RDL	QC Batch
Inorganics				
Total Ammonia-N	mg/L	3.4	0.050	9694245
Dissolved Organic Carbon	mg/L	9.1	0.40	9694723
Total Suspended Solids	mg/L	4	1	9694097
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate				



ELEMENTS BY ATOMIC SPECTROSCOPY (SURFACE WATER)

Bureau Veritas ID		AFKM24	AFKM25	AFKM26		
Sampling Date		2024/10/07 07:20	2024/10/07 17:56	2024/10/07 07:20		
COC Number		975695	975695	975695		
	UNITS	MEL-14	MEL-14 FB	MEL-14 DUP	RDL	QC Batch
Calculated Parameters						
Total Hardness (CaCO ₃)	mg/L	667	<0.50	702	0.50	9704553
Metals						
Dissolved Calcium (Ca)	mg/L	220	0.40	220	0.05	9695726
Dissolved Magnesium (Mg)	mg/L	69	0.13	68	0.05	9695726
Mercury (Hg)	mg/L	<0.00001	<0.00001	<0.00001	0.00001	9694908
Dissolved Mercury (Hg)	mg/L	<0.00001	<0.00001	<0.00001	0.00001	9694910
Dissolved Potassium (K)	mg/L	33	<1	33	1	9695726
Dissolved Sodium (Na)	mg/L	400	0.8	390	0.5	9695726
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C4V8293

Report Date: 2024/10/24

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: ks

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		AFKM24	AFKM25	AFKM26		
Sampling Date		2024/10/07 07:20	2024/10/07 17:56	2024/10/07 07:20		
COC Number		975695	975695	975695		
	UNITS	MEL-14	MEL-14 FB	MEL-14 DUP	RDL	QC Batch
BTEX & F1 Hydrocarbons						
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	9694872
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	9694872
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	9694872
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	9694872
p+m-Xylene	ug/L	<0.40	<0.40	<0.40	0.40	9694872
Total Xylenes	ug/L	<0.40	<0.40	<0.40	0.40	9694872
F1 (C6-C10)	ug/L	<25	<25	<25	25	9694872
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	9694872
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<90	<90	<90	90	9694071
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	9694071
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	9694071
Reached Baseline at C50	ug/L	Yes	Yes	Yes		9694071
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	111	108	109		9694872
4-Bromofluorobenzene	%	98	92	97		9694872
D10-o-Xylene	%	106	103	106		9694872
D4-1,2-Dichloroethane	%	100	97	99		9694872
o-Terphenyl	%	82	87	85		9694071
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



**BUREAU
VERITAS**

Bureau Veritas Job #: C4V8293
Report Date: 2024/10/24

Agnico-Eagle
Site Location: Meliadine
Your P.O. #: OL-1381216
Sampler Initials: ks

TEST SUMMARY

Bureau Veritas ID: AFKM24
Sample ID: MEL-14
Matrix: Surface Water

Collected: 2024/10/07
Shipped:
Received: 2024/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9695904	N/A	2024/10/11	Nachiketa Gohil
Carbonate, Bicarbonate and Hydroxide	CALC	9693669	N/A	2024/10/11	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	9693463	2024/10/10	2024/10/15	Nusrat Naz
Chloride by Automated Colourimetry	SKAL	9695968	N/A	2024/10/11	Alina Dobreanu
Conductivity	AT	9695906	N/A	2024/10/11	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9694723	N/A	2024/10/10	Gyulshen Idriz
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Jimmy Liu
Dissolved Oxygen	DO	9694330	2024/10/10	2024/10/10	Amrutha Anilkumar
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Jimmy Liu
Petroleum Hydro. CCME F1 & BTEX in Water	HS GC/MSFD	9694872	N/A	2024/10/10	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9694071	2024/10/10	2024/10/11	Mohammed Abdul Nafay Shoeb
Fluoride	ISE	9695903	2024/10/10	2024/10/11	Nachiketa Gohil
Dissolved Mercury (low level)	CV/AA	9694910	2024/10/10	2024/10/11	Maitri PATIL
Mercury (low level)	CV/AA	9694908	2024/10/10	2024/10/11	Maitri PATIL
Lab Filtered Metals Analysis by ICP	ICP	9695726	2024/10/10	2024/10/11	Thuy Linh Nguyen
Low Level Chloride and Sulphate by AC	KONE	9704945	N/A	2024/10/15	Shanna McKort
Cyanide (Free)	SPEC	9704946	N/A	2024/10/15	Amy Phan
Cyanide, Strong Acid Dissociable (SAD)	TECH/UVVS	9702846	2024/10/15	2024/10/15	Ye Hyun KIM
Cyanide WAD (weak acid dissociable)	TECH	9702845	N/A	2024/10/15	Ye Hyun KIM
Hardness Total (calculated as CaCO ₃)	CALC	9704553	N/A	2024/10/16	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	9704551	N/A	2024/10/16	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9705898	N/A	2024/10/16	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	9708873	N/A	2024/10/16	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9704554	2024/10/16	2024/10/16	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	9710230	2024/10/15	2024/10/16	Andrew An
Silica (Reactive)	KONE	9707545	N/A	2024/10/17	Tyler Orr
Total Ammonia-N	SKAL/NH ₄	9694245	N/A	2024/10/10	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9694611	N/A	2024/10/11	Chandra Nandlal
pH	AT	9695896	2024/10/10	2024/10/11	Nachiketa Gohil
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Jimmy Liu
Orthophosphate	SKAL	9695970	N/A	2024/10/11	Alina Dobreanu
Radium-226 Low Level	AS	9709219	N/A	2024/10/23	Chloe Westlake
Salinity		9693672	2024/10/10	2024/10/10	Automated Statchk
Sodium Adsorption Ratio (SAR)	CALC/MET	9693673	N/A	2024/10/11	Automated Statchk
Total Dissolved Solids (TDS calc)	CALC	9693677	N/A	2024/10/18	Automated Statchk
Calculated Total Dissolved Solids	CALC	9693678	N/A	2024/10/18	Automated Statchk
Total Dissolved Solids	BAL	9695168	2024/10/10	2024/10/11	Razieh Tabesh
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Jimmy Liu
Total Kjeldahl Nitrogen in Water	SKAL	9696548	2024/10/10	2024/10/11	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	9694597	N/A	2024/10/11	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	9694492	2024/10/10	2024/10/11	Vidhi Khatri
Low Level Total Suspended Solids	BAL	9694097	2024/10/10	2024/10/11	Razieh Tabesh
Turbidity	AT	9693454	N/A	2024/10/10	Gurpartee KAUAR
Field Measured Dissolved Oxygen	TURB	ONSITE	N/A	2024/10/10	Jimmy Liu
Un-ionized Ammonia (as N)	CALC	9693679	2024/10/11	2024/10/11	Automated Statchk



**BUREAU
VERITAS**

Bureau Veritas Job #: C4V8293

Report Date: 2024/10/24

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: ks

TEST SUMMARY

Bureau Veritas ID: AFKM24 Dup
Sample ID: MEL-14
Matrix: Surface Water

Collected: 2024/10/07
Shipped:
Received: 2024/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9695904	N/A	2024/10/11	Nachiketa Gohil
Conductivity	AT	9695906	N/A	2024/10/11	Nachiketa Gohil
Dissolved Oxygen	DO	9694330	2024/10/10	2024/10/10	Amrutha Anilkumar
Fluoride	ISE	9695903	2024/10/10	2024/10/11	Nachiketa Gohil
Elements by CRC ICPMS (total)	ICP/MS	9710230	2024/10/15	2024/10/16	Andrew An
pH	AT	9695896	2024/10/10	2024/10/11	Nachiketa Gohil
Total Phosphorus (Colourimetric)	SKAL/P	9694492	2024/10/10	2024/10/11	Vidhi Khatri

Bureau Veritas ID: AFKM25
Sample ID: MEL-14 FB
Matrix: Surface Water

Collected: 2024/10/07
Shipped:
Received: 2024/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9695904	N/A	2024/10/11	Nachiketa Gohil
Carbonate, Bicarbonate and Hydroxide	CALC	9693669	N/A	2024/10/11	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	9693463	2024/10/10	2024/10/15	Nusrat Naz
Chloride by Automated Colourimetry	SKAL	9695968	N/A	2024/10/11	Alina Dobreanu
Conductivity	AT	9695906	N/A	2024/10/11	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9694723	N/A	2024/10/10	Gyulshen Idriz
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Jimmy Liu
Dissolved Oxygen	DO	9694330	2024/10/10	2024/10/10	Amrutha Anilkumar
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Jimmy Liu
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9694872	N/A	2024/10/10	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9694071	2024/10/10	2024/10/11	Mohammed Abdul Nafay Shoeb
Fluoride	ISE	9695903	2024/10/10	2024/10/11	Nachiketa Gohil
Dissolved Mercury (low level)	CV/AA	9694910	2024/10/10	2024/10/11	Maitri PATIL
Mercury (low level)	CV/AA	9694908	2024/10/10	2024/10/11	Maitri PATIL
Lab Filtered Metals Analysis by ICP	ICP	9695726	2024/10/10	2024/10/11	Thuy Linh Nguyen
Low Level Chloride and Sulphate by AC	KONE	9704945	N/A	2024/10/15	Shanna McKort
Cyanide (Free)	SPEC	9704946	N/A	2024/10/15	Amy Phan
Cyanide, Strong Acid Dissociable (SAD)	TECH/UVVS	9702846	2024/10/15	2024/10/15	Ye Hyun KIM
Cyanide WAD (weak acid dissociable)	TECH	9702845	N/A	2024/10/15	Ye Hyun KIM
Hardness Total (calculated as CaCO3)	CALC	9704553	N/A	2024/10/16	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9704551	N/A	2024/10/16	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9705898	N/A	2024/10/16	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	9708873	N/A	2024/10/16	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9704554	2024/10/16	2024/10/16	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	9710230	2024/10/15	2024/10/16	Andrew An
Silica (Reactive)	KONE	9707545	N/A	2024/10/17	Tyler Orr
Total Ammonia-N	SKAL/NH4	9694245	N/A	2024/10/10	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9694611	N/A	2024/10/11	Chandra Nandlal
pH	AT	9695896	2024/10/10	2024/10/11	Nachiketa Gohil
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Jimmy Liu
Orthophosphate	SKAL	9695970	N/A	2024/10/11	Alina Dobreanu
Radium-226 Low Level	AS	9709219	N/A	2024/10/23	Chloe Westlake



**BUREAU
VERITAS**

Bureau Veritas Job #: C4V8293

Report Date: 2024/10/24

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: ks

TEST SUMMARY

Bureau Veritas ID: AFKM25
Sample ID: MEL-14 FB
Matrix: Surface Water

Collected: 2024/10/07
Shipped:
Received: 2024/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Salinity		9693672	2024/10/10	2024/10/10	Automated Statchk
Sodium Adsorption Ratio (SAR)	CALC/MET	9693674	N/A	2024/10/11	Automated Statchk
Total Dissolved Solids (TDS calc)	CALC	9693677	N/A	2024/10/18	Automated Statchk
Calculated Total Dissolved Solids	CALC	9693678	N/A	2024/10/18	Automated Statchk
Total Dissolved Solids	BAL	9695168	2024/10/10	2024/10/11	Razieh Tabesh
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Jimmy Liu
Total Kjeldahl Nitrogen in Water	SKAL	9696548	2024/10/10	2024/10/11	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	9694597	N/A	2024/10/10	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	9694492	2024/10/10	2024/10/11	Vidhi Khatri
Low Level Total Suspended Solids	BAL	9694097	2024/10/10	2024/10/11	Razieh Tabesh
Turbidity	AT	9693454	N/A	2024/10/10	Gurpartee KAUAR
Field Measured Dissolved Oxygen	TURB	ONSITE	N/A	2024/10/10	Jimmy Liu
Un-ionized Ammonia (as N)	CALC	9693679	2024/10/11	2024/10/11	Automated Statchk

Bureau Veritas ID: AFKM25 Dup
Sample ID: MEL-14 FB
Matrix: Surface Water

Collected: 2024/10/07
Shipped:
Received: 2024/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low Level Chloride and Sulphate by AC	KONE	9704945	N/A	2024/10/15	Shanna McKort
Total Organic Carbon (TOC)	TOCV/NDIR	9694597	N/A	2024/10/10	Gyulshen Idriz

Bureau Veritas ID: AFKM26
Sample ID: MEL-14 DUP
Matrix: Surface Water

Collected: 2024/10/07
Shipped:
Received: 2024/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9695904	N/A	2024/10/11	Nachiketa Gohil
Carbonate, Bicarbonate and Hydroxide	CALC	9693669	N/A	2024/10/11	Automated Statchk
Biochemical Oxygen Demand (BOD)	DO	9693463	2024/10/10	2024/10/15	Nusrat Naz
Chloride by Automated Colourimetry	SKAL	9695968	N/A	2024/10/11	Alina Dobreanu
Conductivity	AT	9695906	N/A	2024/10/11	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9694723	N/A	2024/10/10	Gyulshen Idriz
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Jimmy Liu
Dissolved Oxygen	DO	9694330	2024/10/10	2024/10/10	Amrutha Anilkumar
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Jimmy Liu
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9694872	N/A	2024/10/10	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9694071	2024/10/10	2024/10/11	Mohammed Abdul Nafay Shoeb
Fluoride	ISE	9695903	2024/10/10	2024/10/11	Nachiketa Gohil
Dissolved Mercury (low level)	CV/AA	9694910	2024/10/10	2024/10/11	Maitri PATIL
Mercury (low level)	CV/AA	9694908	2024/10/10	2024/10/11	Maitri PATIL
Lab Filtered Metals Analysis by ICP	ICP	9695726	2024/10/10	2024/10/11	Thuy Linh Nguyen
Low Level Chloride and Sulphate by AC	KONE	9704945	N/A	2024/10/15	Shanna McKort
Cyanide (Free)	SPEC	9704946	N/A	2024/10/15	Amy Phan
Cyanide, Strong Acid Dissociable (SAD)	TECH/UVVS	9702846	2024/10/15	2024/10/15	Ye Hyun KIM



**BUREAU
VERITAS**

Bureau Veritas Job #: C4V8293

Report Date: 2024/10/24

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: ks

TEST SUMMARY

Bureau Veritas ID: AFKM26
Sample ID: MEL-14 DUP
Matrix: Surface Water

Collected: 2024/10/07
Shipped:
Received: 2024/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide WAD (weak acid dissociable)	TECH	9702845	N/A	2024/10/15	Ye Hyun KIM
Hardness Total (calculated as CaCO ₃)	CALC	9704553	N/A	2024/10/16	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	9704551	N/A	2024/10/16	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9705898	N/A	2024/10/16	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	9708873	N/A	2024/10/16	Andrew An
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9704554	2024/10/16	2024/10/16	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	9710230	2024/10/15	2024/10/16	Andrew An
Silica (Reactive)	KONE	9707545	N/A	2024/10/17	Tyler Orr
Total Ammonia-N	SKAL/NH ₄	9694245	N/A	2024/10/10	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9694611	N/A	2024/10/11	Chandra Nandlal
pH	AT	9695896	2024/10/10	2024/10/11	Nachiketa Gohil
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Jimmy Liu
Orthophosphate	SKAL	9695970	N/A	2024/10/11	Alina Dobreanu
Radium-226 Low Level	AS	9709219	N/A	2024/10/23	Chloe Westlake
Salinity		9693672	2024/10/10	2024/10/10	Automated Statchk
Sodium Adsorption Ratio (SAR)	CALC/MET	9693674	N/A	2024/10/11	Automated Statchk
Total Dissolved Solids (TDS calc)	CALC	9693677	N/A	2024/10/18	Automated Statchk
Calculated Total Dissolved Solids	CALC	9693678	N/A	2024/10/18	Automated Statchk
Total Dissolved Solids	BAL	9695168	2024/10/10	2024/10/11	Razieh Tabesh
Field Measured Dissolved Oxygen	PH	ONSITE	N/A	2024/10/10	Jimmy Liu
Total Kjeldahl Nitrogen in Water	SKAL	9696548	2024/10/10	2024/10/11	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	9694597	N/A	2024/10/11	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	9694492	2024/10/10	2024/10/11	Vidhi Khatri
Low Level Total Suspended Solids	BAL	9694097	2024/10/10	2024/10/11	Razieh Tabesh
Turbidity	AT	9693454	N/A	2024/10/10	Gurparteek KAUR
Field Measured Dissolved Oxygen	TURB	ONSITE	N/A	2024/10/10	Jimmy Liu
Un-ionized Ammonia (as N)	CALC	9693679	2024/10/11	2024/10/11	Automated Statchk

Bureau Veritas ID: AFKM26 Dup
Sample ID: MEL-14 DUP
Matrix: Surface Water

Collected: 2024/10/07
Shipped:
Received: 2024/10/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9694723	N/A	2024/10/10	Gyulshen Idriz
Total Ammonia-N	SKAL/NH ₄	9694245	N/A	2024/10/10	Muskan
Low Level Total Suspended Solids	BAL	9694097	2024/10/10	2024/10/11	Razieh Tabesh



GENERAL COMMENTS

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

Package 1	7.0°C
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Sample AFKM24 [MEL-14] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample AFKM25 [MEL-14 FB] : SAR Analysis: NC = Not Calculable as Calcium and Magnesium were not detected. TOC < DOC: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample AFKM26 [MEL-14 DUP] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample AFKM25, Elements by CRC ICPMS (total): Test repeated.

Results relate only to the items tested.

BUREAU
VERITAS

Bureau Veritas Job #: C4V8293

Report Date: 2024/10/24

QUALITY ASSURANCE REPORT

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: ks

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
9694071	o-Terphenyl	2024/10/10	89	60 - 140	88	60 - 140	89	%				
9694872	1,4-Difluorobenzene	2024/10/10	104	70 - 130	105	70 - 130	109	%				
9694872	4-Bromofluorobenzene	2024/10/10	102	70 - 130	103	70 - 130	96	%				
9694872	D10-o-Xylene	2024/10/10	111	70 - 130	113	70 - 130	107	%				
9694872	D4-1,2-Dichloroethane	2024/10/10	94	70 - 130	95	70 - 130	98	%				
9693454	Turbidity	2024/10/10			102	80 - 120	<0.1	NTU	NC	20		
9693463	Total BOD	2024/10/15					<2	mg/L	2.1	30	99	80 - 120
9694071	F2 (C10-C16 Hydrocarbons)	2024/10/10	91	60 - 140	89	60 - 140	<90	ug/L	NC	30		
9694071	F3 (C16-C34 Hydrocarbons)	2024/10/10	91	60 - 140	88	60 - 140	<200	ug/L	NC	30		
9694071	F4 (C34-C50 Hydrocarbons)	2024/10/10	83	60 - 140	81	60 - 140	<200	ug/L	NC	30		
9694097	Total Suspended Solids	2024/10/11			100	80 - 120	<1	mg/L	8.7	20		
9694245	Total Ammonia-N	2024/10/10	85	75 - 125	96	80 - 120	<0.050	mg/L	0.41	20		
9694330	Dissolved Oxygen	2024/10/10							0.088	30		
9694492	Total Phosphorus	2024/10/11	46 (1)	80 - 120	105	80 - 120	<0.020	mg/L	1.2	20	104	80 - 120
9694597	Total Organic Carbon (TOC)	2024/10/10	97	80 - 120	101	80 - 120	<0.40	mg/L	NC	20		
9694611	Nitrate (N)	2024/10/11	97	80 - 120	99	80 - 120	<0.10	mg/L	1.9	20		
9694611	Nitrite (N)	2024/10/11	106	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
9694723	Dissolved Organic Carbon	2024/10/10	99	80 - 120	99	80 - 120	<0.40	mg/L	3.7	20		
9694872	Benzene	2024/10/10	95	50 - 140	94	50 - 140	<0.20	ug/L	0.60	30		
9694872	Ethylbenzene	2024/10/10	108	50 - 140	106	50 - 140	<0.20	ug/L	5.3	30		
9694872	F1 (C6-C10) - BTEX	2024/10/10					<25	ug/L	1.2	30		
9694872	F1 (C6-C10)	2024/10/10	104	60 - 140	103	60 - 140	<25	ug/L	1.6	30		
9694872	o-Xylene	2024/10/10	103	50 - 140	100	50 - 140	<0.20	ug/L	2.8	30		
9694872	p+m-Xylene	2024/10/10	99	50 - 140	97	50 - 140	<0.40	ug/L	3.1	30		
9694872	Toluene	2024/10/10	90	50 - 140	89	50 - 140	<0.20	ug/L	2.5	30		
9694872	Total Xylenes	2024/10/10					<0.40	ug/L	2.9	30		
9694908	Mercury (Hg)	2024/10/11	97	75 - 125	91	80 - 120	<0.00001	mg/L	NC	20		
9694910	Dissolved Mercury (Hg)	2024/10/11	96	75 - 125	98	80 - 120	<0.00001	mg/L	NC	20		
9695168	Total Dissolved Solids	2024/10/11			95	80 - 120	<10	mg/L	1.5	20		
9695726	Dissolved Calcium (Ca)	2024/10/11	NC	80 - 120	98	80 - 120	<0.05	mg/L	0.041	20		
9695726	Dissolved Magnesium (Mg)	2024/10/11	93	80 - 120	99	80 - 120	<0.05	mg/L	0.19	20		
9695726	Dissolved Potassium (K)	2024/10/11	93	80 - 120	100	80 - 120	<1	mg/L	1.9	20		

BUREAU
VERITAS

Bureau Veritas Job #: C4V8293

Report Date: 2024/10/24

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: ks

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
9695726	Dissolved Sodium (Na)	2024/10/11	NC	80 - 120	101	80 - 120	<0.5	mg/L	0.30	20		
9695896	pH	2024/10/11			102	98 - 103			0.57	N/A		
9695903	Fluoride (F-)	2024/10/11	87	80 - 120	97	80 - 120	<0.10	mg/L	NC	20		
9695904	Alkalinity (Total as CaCO3)	2024/10/11			93	85 - 115	<1.0	mg/L	2.6	20		
9695906	Conductivity	2024/10/11			101	85 - 115	0.000700	mS/cm	0	10		
9695968	Dissolved Chloride (Cl-)	2024/10/11	NC	80 - 120	98	80 - 120	<1.0	mg/L	3.8	20		
9695970	Orthophosphate (P)	2024/10/11	84	75 - 125	88	80 - 120	<0.010	mg/L	0.81	20		
9696548	Total Kjeldahl Nitrogen (TKN)	2024/10/11	103	80 - 120	100	80 - 120	<0.10	mg/L	NC	20	99	80 - 120
9702845	Weak Acid Dissoc. Cyanide (CN)	2024/10/15	111	80 - 120	105	80 - 120	<0.00050	mg/L				
9702846	Strong Acid Dissoc. Cyanide (CN)	2024/10/15	107	80 - 120	108	80 - 120	<0.00050	mg/L				
9704945	Dissolved Sulphate (SO4)	2024/10/15	110	80 - 120	102	80 - 120	0.86, RDL=0.50 (2)	mg/L	NC	20		
9704946	Free Cyanide (CN)	2024/10/15	91	80 - 120	95	80 - 120	<2.0	ug/L				
9707545	Reactive Silica (SiO2)	2024/10/17	101	80 - 120	101	80 - 120	<0.050	mg/L				
9708873	Dissolved Aluminum (Al)	2024/10/16	100	80 - 120	95	80 - 120	<0.0030	mg/L				
9708873	Dissolved Antimony (Sb)	2024/10/16	103	80 - 120	99	80 - 120	<0.00050	mg/L				
9708873	Dissolved Arsenic (As)	2024/10/16	105	80 - 120	99	80 - 120	<0.00010	mg/L				
9708873	Dissolved Barium (Ba)	2024/10/16	99	80 - 120	96	80 - 120	<0.0010	mg/L				
9708873	Dissolved Beryllium (Be)	2024/10/16	100	80 - 120	95	80 - 120	<0.00010	mg/L				
9708873	Dissolved Boron (B)	2024/10/16	102	80 - 120	97	80 - 120	<0.050	mg/L				
9708873	Dissolved Cadmium (Cd)	2024/10/16	102	80 - 120	98	80 - 120	<0.000010	mg/L				
9708873	Dissolved Chromium (Cr)	2024/10/16	94	80 - 120	91	80 - 120	<0.0010	mg/L				
9708873	Dissolved Cobalt (Co)	2024/10/16	94	80 - 120	92	80 - 120	<0.00020	mg/L				
9708873	Dissolved Copper (Cu)	2024/10/16	92	80 - 120	91	80 - 120	<0.00020	mg/L				
9708873	Dissolved Iron (Fe)	2024/10/16	101	80 - 120	99	80 - 120	<0.0050	mg/L				
9708873	Dissolved Lead (Pb)	2024/10/16	102	80 - 120	97	80 - 120	<0.00020	mg/L				
9708873	Dissolved Lithium (Li)	2024/10/16	100	80 - 120	98	80 - 120	<0.0020	mg/L				
9708873	Dissolved Manganese (Mn)	2024/10/16	97	80 - 120	95	80 - 120	<0.0010	mg/L				
9708873	Dissolved Molybdenum (Mo)	2024/10/16	106	80 - 120	103	80 - 120	<0.0010	mg/L				
9708873	Dissolved Nickel (Ni)	2024/10/16	96	80 - 120	94	80 - 120	<0.0010	mg/L				
9708873	Dissolved Selenium (Se)	2024/10/16	102	80 - 120	96	80 - 120	<0.00010	mg/L				
9708873	Dissolved Silver (Ag)	2024/10/16	101	80 - 120	98	80 - 120	<0.000020	mg/L				

BUREAU
VERITAS

Bureau Veritas Job #: C4V8293

Report Date: 2024/10/24

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: ks

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
9708873	Dissolved Strontium (Sr)	2024/10/16	NC	80 - 120	92	80 - 120	<0.0010	mg/L				
9708873	Dissolved Thallium (Tl)	2024/10/16	106	80 - 120	100	80 - 120	<0.000010	mg/L				
9708873	Dissolved Tin (Sn)	2024/10/16	101	80 - 120	100	80 - 120	<0.0050	mg/L				
9708873	Dissolved Titanium (Ti)	2024/10/16	100	80 - 120	96	80 - 120	<0.0050	mg/L				
9708873	Dissolved Uranium (U)	2024/10/16	106	80 - 120	99	80 - 120	<0.00010	mg/L				
9708873	Dissolved Vanadium (V)	2024/10/16	97	80 - 120	92	80 - 120	<0.0050	mg/L				
9708873	Dissolved Zinc (Zn)	2024/10/16	100	80 - 120	97	80 - 120	<0.0050	mg/L				
9709219	Radium-226	2024/10/23			105	85 - 115	<0.0050	Bq/L	NC	N/A		
9710230	Total Aluminum (Al)	2024/10/16	NC	80 - 120	104	80 - 120	<0.0030	mg/L	1.2	20		
9710230	Total Antimony (Sb)	2024/10/16	105	80 - 120	104	80 - 120	<0.00050	mg/L	NC	20		
9710230	Total Arsenic (As)	2024/10/16	110	80 - 120	105	80 - 120	<0.00010	mg/L	0.52	20		
9710230	Total Barium (Ba)	2024/10/16	NC	80 - 120	100	80 - 120	<0.0010	mg/L	0.51	20		
9710230	Total Beryllium (Be)	2024/10/16	104	80 - 120	106	80 - 120	<0.00010	mg/L	NC	20		
9710230	Total Boron (B)	2024/10/16	111	80 - 120	109	80 - 120	<0.050	mg/L	3.2	20		
9710230	Total Cadmium (Cd)	2024/10/16	101	80 - 120	103	80 - 120	<0.000010	mg/L	NC	20		
9710230	Total Chromium (Cr)	2024/10/16	95	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20		
9710230	Total Cobalt (Co)	2024/10/16	92	80 - 120	96	80 - 120	<0.00020	mg/L	1.7	20		
9710230	Total Copper (Cu)	2024/10/16	88	80 - 120	94	80 - 120	<0.00050	mg/L	1.7	20		
9710230	Total Iron (Fe)	2024/10/16	102	80 - 120	104	80 - 120	<0.010	mg/L	1.4	20		
9710230	Total Lead (Pb)	2024/10/16	99	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20		
9710230	Total Lithium (Li)	2024/10/16	101	80 - 120	105	80 - 120	<0.0020	mg/L	3.7	20		
9710230	Total Manganese (Mn)	2024/10/16	NC	80 - 120	101	80 - 120	<0.0010	mg/L	1.3	20		
9710230	Total Molybdenum (Mo)	2024/10/16	118	80 - 120	109	80 - 120	<0.0010	mg/L	0.046	20		
9710230	Total Nickel (Ni)	2024/10/16	92	80 - 120	97	80 - 120	<0.0010	mg/L	1.3	20		
9710230	Total Selenium (Se)	2024/10/16	105	80 - 120	103	80 - 120	<0.00010	mg/L	1.2	20		
9710230	Total Silver (Ag)	2024/10/16	100	80 - 120	103	80 - 120	<0.000020	mg/L	NC	20		
9710230	Total Strontium (Sr)	2024/10/16	NC	80 - 120	100	80 - 120	<0.0010	mg/L	1.6	20		
9710230	Total Thallium (Tl)	2024/10/16	103	80 - 120	106	80 - 120	<0.000010	mg/L	8.0	20		
9710230	Total Tin (Sn)	2024/10/16	104	80 - 120	102	80 - 120	<0.0050	mg/L	NC	20		
9710230	Total Titanium (Ti)	2024/10/16	102	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
9710230	Total Uranium (U)	2024/10/16	115	80 - 120	105	80 - 120	<0.00010	mg/L	1.0	20		
9710230	Total Vanadium (V)	2024/10/16	99	80 - 120	97	80 - 120	<0.0050	mg/L	NC	20		



BUREAU
VERITAS

Bureau Veritas Job #: C4V8293

Report Date: 2024/10/24

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: ks

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
9710230	Total Zinc (Zn)	2024/10/16	93	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
9710231	Total Copper (Cu)	2024/10/17	94	80 - 120	101	80 - 120	<0.00050	mg/L	0.21	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 <= 2x RDL).

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

(2) Method blank exceeds acceptance limits, 2x RDL acceptable for low level analysis



BUREAU
VERITAS

Bureau Veritas Job #: C4V8293

Report Date: 2024/10/24

Agnico-Eagle

Site Location: Meliadine

Your P.O. #: OL-1381216

Sampler Initials: ks

VALIDATION SIGNATURE PAGE

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

Cristina Carriere, Senior Scientific Specialist

David Huang, BBY Scientific Specialist

Danish Samad, MSc., C.Chem, Miss.-Kitimat, Laboratory Supervisor

Mauro Oselin, Technician

Sandy Yuan, M.Sc., QP, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS



Canada



NT-NU 24-HOUR SPILL REPORT LINE

Tel: (867) 920-8130 • Email: spills@gov.nt.ca

A	Report Date:	11/10/24	Report Time:	8:30 am	<input checked="" type="checkbox"/> Original Spill Report OR <input type="checkbox"/> Update # _____ to the Original Spill Report	Report Number:
	Occurrence Date:	11/09/24	Occurrence Time:	8:00 pm		
C	Land Use Permit Number (if applicable): KVPL11D01			Water Licence Number (if applicable): 2AM-MEL1631		
D	Geographic Place Name or Distance and Direction from the Named Location: Meliadine Gold Project				Region: <input type="checkbox"/> NT <input checked="" type="checkbox"/> Nunavut <input type="checkbox"/> Trans-boundary or Ocean	
E	Latitude: 63 Degrees 2 Minutes 21 Seconds			Longitude: 92 Degrees 13 Minutes 41 Seconds		
F	Responsible Party or Vessel Name: Agnico Eagle Mine Ltd.		Responsible Party Address or Office Location: Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	Any Contractor Involved:		Contractor Address or Office Location:			
H	Product Spilled: <input type="checkbox"/> Potential Spill Sewage		Quantity in Litres, Kilograms or Cubic Metres: 60 Litres		U.N. Number: N/A	
I	Spill Source: Wing 4 Lift Station		Spill Cause: Equipment Failure		Area of Contamination in Square Metres: 2	
J	Factors Affecting Spill or Recovery: N/A		Describe Any Assistance Required: N/A		Hazards to Persons, Property or Environment: N/A	
K	Summary of the spill incident and efforts / description of the incident: Approximately 60 L of sewage spilled onto the industrial pad at the Wing 4 lift station. Investigation is currently on-going to determine root cause. The spill was contained to the local area. Clean-up activities were immediately undertaken. The coordinates of the spill are 63° 2'24.10"N, 92°13'44.72"W. No water bodies were impacted by this spill. The nearest natural water body (Lake G2) is 220 m Northwest. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow-up report will be issued after the investigation is completed. Reported by Randy Schwandt, Environment Coordinator, 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com.					
L	Reported to Spill Line by: Alex L. Bourassa	Position: Env. Coordinator	Employer: AEM	Location Calling From: Meliadine	Telephone: (819) 759-3555	
M	Any Alternate Contact: Randy Schwandt	Position: Env. Coordinator	Employer: AEM	Alternate Contact Location: Meliadine	Alternate Telephone: (819) 759-3555	

REPORT LINE USE ONLY

N	Received at Spill Line by:	Position:	Employer:	Location Called:	Report Line Number:
Lead Agency: <input type="checkbox"/> EC <input type="checkbox"/> CCG/TCMSS <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> CIRNAC <input type="checkbox"/> CER <input type="checkbox"/> Other: _____				File Status: <input type="checkbox"/> Open <input type="checkbox"/> Closed	
Agency:		Contact Name:	Contact Time:	Remarks:	
Lead Agency:					
First Support Agency:					
Second Support Agency:					
Third Support Agency:					

December 6th, 2024

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC OGO

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-417 – Release of 60 L of Sewage at the Meliadine Gold Project

On November 10th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 60 L of sewage at the Meliadine Gold Project site (spill location coordinates: 63° 2'24.10"N, 92°13'44.72"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On November 9th, 2024, at approximately 20:00, E&I personnel responded to a high-level alarm at the Wing 4 lift station. Upon arrival, an estimated 60 L of sewage was observed to have spilled onto the industrial pad outside of the lift station.

The spill occurred within the site's water management infrastructure, and as such, no waterbodies were impacted by the spill. The closest water body (Lake G2) is approximately 220 meters northwest, as seen in Figure 1.



Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

The Energy and Infrastructure (E&I) Maintenance supervisor received an alert from the high-level alarm at the Wing 4 lift station and dispatched a plumber to investigate. Upon arrival, the plumber discovered the spill and manually initiated the lift station pumps to stop the spill. A vacuum truck was sent to empty the material inside the secondary containment. The contaminated material on the industrial pad was then excavated and transported to the Landfarm A, in accordance with the Spill Contingency Plan.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:






- The Wing 4 lift station floats became entangled with loose electrical wiring inside the lift station resulting in the pumps not activating automatically. The plastic zip tie securing the wires broke due to wear and tear, leading to the entanglement and failure of the floats. Only a single, light-duty zip tie had been used to secure the wiring.
- The scheduled quarterly float preventative maintenance did not include inspection of some internal system components, such as the presence of loose wiring.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of reoccurrence:

- The lift station wires were secured using heavy-duty zip ties. Multiple zip ties were installed as redundancy. The other lift stations' wiring will be inspected, and heavy-duty zip ties will be installed where necessary.
- The inspection of additional internal parts of the lift station was added to the procedure for the quarterly float preventative maintenance.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Spencer Knowles | Environment Technician
spencer.knowles@agnicoeagle.com | Direct 819.759.3555 x4603903 |
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Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix A – Photos



Photo 1: Sewage spill location.



Photo 2: Spill location post remediation.

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS



Canada



NT-NU 24-HOUR SPILL REPORT LINE

Tel: (867) 920-8130 • Email: spills@gov.nt.ca

A	Report Date: 12 20 24	Report Time: 1:30 pm	<input checked="" type="checkbox"/> Original Spill Report OR <input type="checkbox"/> Update # _____ to the Original Spill Report		Report Number:
B	Occurrence Date: 12 20 24	Occurrence Time: 6:00 am			
C	Land Use Permit Number (if applicable): KVPL11D01		Water Licence Number (if applicable): 2AM-MEL1631		
D	Geographic Place Name or Distance and Direction from the Named Location: Meliadine Gold Project			Region: <input type="checkbox"/> NT <input checked="" type="checkbox"/> Nunavut <input type="checkbox"/> Trans-boundary or Ocean	
E	Latitude: 63 Degrees 2 Minutes 21 Seconds		Longitude: 92 Degrees 13 Minutes 41 Seconds		
F	Responsible Party or Vessel Name: Agnico Eagle Mine Ltd.		Responsible Party Address or Office Location: Meliadine, Rankin Inlet, Nunavut, X0C 0G0		
G	Any Contractor Involved: Audet and Knight		Contractor Address or Office Location: Meliadine, Rankin Inlet, Nunavut, X0C 0G0		
H	Product Spilled: <input type="checkbox"/> Potential Spill Sewage	Quantity in Litres, Kilograms or Cubic Metres: 90 Litres	U.N. Number: NA		
I	Spill Source: Orbit dome wash cart	Spill Cause: Caved-in holding tank	Area of Contamination in Square Metres: 2		
J	Factors Affecting Spill or Recovery: NA	Describe Any Assistance Required: NA	Hazards to Persons, Property or Environment: NA		
K	Summary of the spill incident and efforts / description of the incident: 90 L of sewage spilled onto the industrial pad at the Orbit dome wash cart due to damage to the holding tank. Investigation is currently on-going to determine root cause. The spill was contained to the local area. Clean-up activities were immediately undertaken. Approximate location of spill: 63 01'36.65"N, 92 12'44.44"W. The closest water body (Lake H4) is approximately 720 m northeast. Pursuant to Part H, Item 8c of the Water Licence, a follow-up report will be issued after a closer investigation is completed. Reported by Randy Schwandt/Alexandre Langlais-Bourassa, Environment Coordinator. 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com / alexandre.langlais-bourassa@agnicoeagle.com .				
L	Reported to Spill Line by: Alexandre L. Bourassa	Position: Env. Coordinator	Employer: AEM	Location Calling From: Meliadine	Telephone: (819) 759-3555
M	Any Alternate Contact: Randy Schwandt	Position: Env. Coordinator	Employer: AEM	Alternate Contact Location: Meliadine	Alternate Telephone: (819) 759-3555

REPORT LINE USE ONLY

N	Received at Spill Line by:	Position:	Employer:	Location Called:	Report Line Number:
Lead Agency: <input type="checkbox"/> EC <input type="checkbox"/> CCG/TCMSS <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> CIRNAC <input type="checkbox"/> CER <input type="checkbox"/> Other: _____				File Status: <input type="checkbox"/> Open <input type="checkbox"/> Closed	
Agency:		Contact Name:	Contact Time:	Remarks:	
Lead Agency:					
First Support Agency:					
Second Support Agency:					
Third Support Agency:					

January 11th, 2025

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
XOC 0G0

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-474 – Release of 90 L of Sewage at the Meliadine Gold Project

On Dec 20th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 90 L of sewage at the Meliadine Gold Project site (spill location coordinates: 63 01'36.65"N, 92 12'44.44"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On December 20th, 2024, at approximately 06:00, Energy and Infrastructure (E&I) personnel were performing a routine inspection of lift stations around site. Upon arriving at the Orbit dome lift station (referred to as wash cart in the initial report), the employee noticed that sewage was leaking outside of the holding tank storage area. An estimated 90 L of sewage was frozen on the ground.

The spill occurred within the site's water management infrastructure, and as such, no waterbodies were impacted by the spill. The closest water body (Lake H5) is approximately 720 meters northeast, as seen in Figure 1.

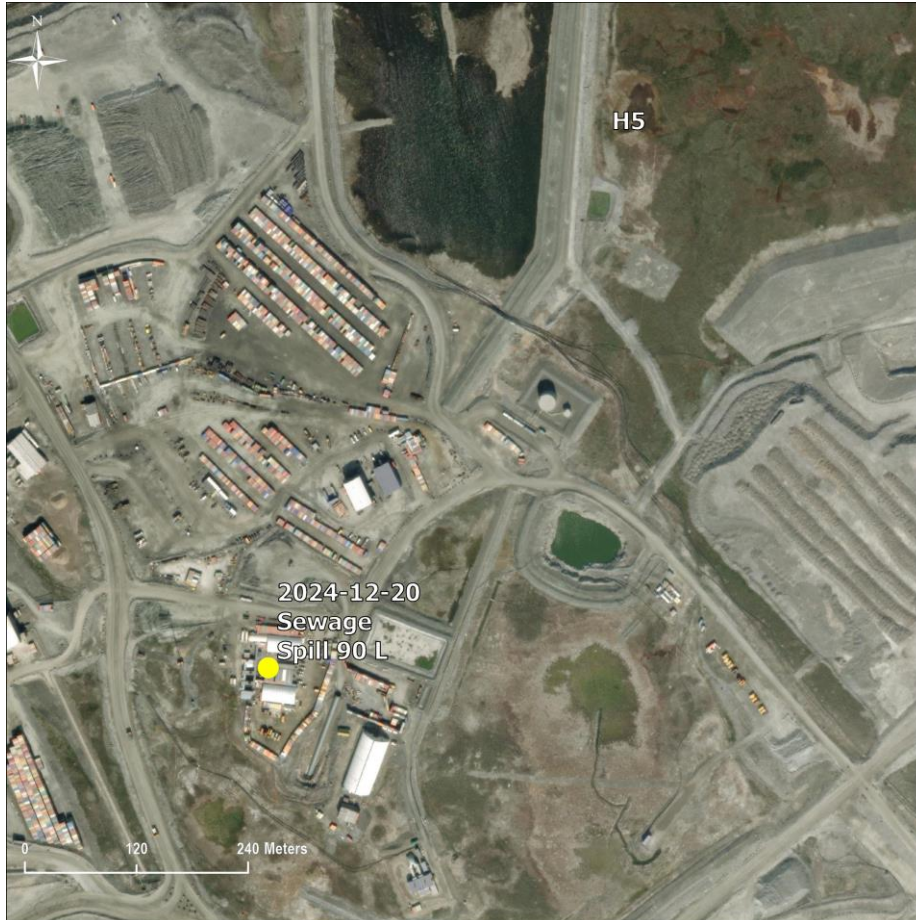


Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

Upon discovering the spill, the worker contacted their supervisor to notify them of the spill and upon inspection, discovered the holding tank was caved in and broken. Most of the spill occurred inside the holding tank storage area, while 90 L escaped to the ground outside. An excavator was sent to clean up the area and the damaged holding tank was replaced. The contaminated material spilled on the industrial pad was excavated and transported to Landfarm A, in accordance with the Spill Contingency Plan.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:






- The holding tank vent was blocked by frozen condensation, causing the tank to collapse when the vacuum truck pump was started.
- The vent inspection had been missed during daily checks.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of recurrence:

- Heat trace was installed on the vent to prevent ice accumulation.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator
randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0
agnicoeagle.com     
Sent from Meliadine

Appendix A – Photos



Photo 1: Sewage spill location.



Photo 2: Sewage tank failure



Photo 3: Spill location post remediation.



Photo 4: New sewage tank installed.

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS



Canada



Inuvialuit Land Administration

NT-NU 24-HOUR SPILL REPORT LINE

Tel: (867) 920-8130 • Email: spills@gov.nt.ca

A	Report Date:	12/27/24	Report Time:	4:30 pm	<input checked="" type="checkbox"/> Original Spill Report OR <input type="checkbox"/> Update # _____ to the Original Spill Report	Report Number:
	B	Occurrence Date:	12/26/24	Occurrence Time:		
C	Land Use Permit Number (if applicable): KVPL11D01			Water Licence Number (if applicable): 2AM-MEL1631		
D	Geographic Place Name or Distance and Direction from the Named Location: Meliadine Gold Project				Region: <input type="checkbox"/> NT <input checked="" type="checkbox"/> Nunavut <input type="checkbox"/> Trans-boundary or Ocean	
E	Latitude: 63 Degrees 2 Minutes 21 Seconds			Longitude: 92 Degrees 13 Minutes 41 Seconds		
F	Responsible Party or Vessel Name: Agnico Eagle Mine Ltd.		Responsible Party Address or Office Location: Meliadine, Rankin Inlet, Nunavut, X0C 0G0			
G	Any Contractor Involved:		Contractor Address or Office Location:			
H	Product Spilled: <input type="checkbox"/> Potential Spill Treated water		Quantity in Litres, Kilograms or Cubic Metres: 20 Cubic Metres		U.N. Number: N/A	
I	Spill Source: Kitchen water supply line		Spill Cause: Equipment failure		Area of Contamination in Square Metres: Unknown	
J	Factors Affecting Spill or Recovery: N/A		Describe Any Assistance Required: N/A		Hazards to Persons, Property or Environment: N/A	
K	Summary of the spill incident and efforts / description of the incident: A heat trace breaker tripped, causing the water supply line to freeze and break beneath the Camp kitchen, causing the unwanted release. Approximate location of spill: 63 2'26.28"N, 92 13'38.01"W. The closest water body (Lake G2) is approximately 275 m northwest. Pursuant to Part H, Item 8c of the Water Licence, a follow-up report will be issued after a closer investigation is completed. Reported by Randy Schwandt/Alexandre Langlais-Bourassa, Environment Coordinator. 819-759-3555 ext. 4603996, randy.schwandt@agnicoeagle.com / alexandre.langlais-bourassa@agnicoeagle.com .					
L	Reported to Spill Line by: Alex L. Bourassa	Position: Env. Coordinator	Employer: AEM	Location Calling From: Meliadine	Telephone: (819) 759-3555	
M	Any Alternate Contact: Randy Schwandt	Position: Env. Coordinator	Employer: AEM	Alternate Contact Location: Meliadine	Alternate Telephone: (819) 759-3555	

REPORT LINE USE ONLY

N	Received at Spill Line by:	Position:	Employer:	Location Called:	Report Line Number:
Lead Agency: <input type="checkbox"/> EC <input type="checkbox"/> CCG/TCMSS <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> CIRNAC <input type="checkbox"/> CER <input type="checkbox"/> Other: _____				File Status: <input type="checkbox"/> Open <input type="checkbox"/> Closed	
Agency:	Contact Name:	Contact Time:	Remarks:		
Lead Agency:					
First Support Agency:					
Second Support Agency:					
Third Support Agency:					

January 6th, 2025

Kyle Amsel
Resource Management Officer
Kivalliq Region, Field Operations Unit
Crown-Indigenous Relations and Northern Affairs Canada
Rankin Inlet, NU
X0C 0G0

Sent via email: kyle.amsel@rcaanc-cirnac.gc.ca

Re: Follow-up Report Spill #2024-481 – Release of 20m³ of potable water at the Meliadine Gold Project

On December 27th, 2024, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a release of 20 m³ of treated water (potable water) at the Meliadine Gold Project site (spill location coordinates: 63 2'26.28"N, 92 13'38.01"W). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

Description of Incident

On December 26th, 2024, at approximately 9:00PM, Kitchen staff reported low pressure in the potable water system. Upon inspection, it was noted that potable water was leaking from the kitchen water supply line underneath the kitchen. Between the time the release was discovered and the supply line shut, it is estimated that 20m³ of water treated with chlorine (sodium hypochlorite) was spilled onto the industrial pad. The incident was a result of a rupture in the water line due to freezing.

No waterbodies were impacted by the spill. The closest water body (Lake G2) is approximately 275 meters northwest, as seen in Figure 1.



Figure 1: Location of the spill and proximity to waterbodies.

Response and Remediation

Upon discovering the leak, the kitchen potable water supply was shut down and the line was repaired on December 27th, 2024, in the early morning. Once the line was repaired, Energy and Infrastructure (E&I) personnel started remediation. Contaminated snow and ice were excavated with a loader and by personnel, and the contaminated material was brought to the contaminated snow cell as per the Spill Contingency Plan.

Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:

- A breaker for the heat trace of the kitchen supply line became loose and tripped, causing the pipe to freeze and break.
- Upon investigation, it was found that the door leading to the mechanical room was left open, and snow made its way inside the room.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of recurrence:

- The faulty breaker was replaced, and the kitchen water supply line was fixed and tested.
- E&I Maintenance will add a mandatory visit to the mechanical room to their PM inspection procedure for the kitchen water line, but also other mechanical rooms around site in early 2025. The procedure was also modified to include photo documentation of the inspection.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



Randy Schwandt | Environment Coordinator

randy.schwandt@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0

agnicoeagle.com     

Sent from Meliadine

Appendix A – Photos



Photos 1 and 2: Unwanted release location and extent.



Photos 3 and 4: Unwanted release location post-remediation.