



**AGNICO EAGLE**

**AMARUQ EXPLORATION ACCESS ROAD**

**2017 Annual Report**

**Prepared for:**

Nunavut Water Board

Indigenous and Northern Affairs Canada

Department of Fisheries and Oceans Canada

Kivalliq Inuit Association

**Prepared by:**

Agnico Eagle Mines Limited

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## DOCUMENT CONTROL

Version	Date (YMD)	Section	Page	Comment
1	2017/03/31	All	All	This has been reviewed by Environmental Staff and will be incorporated into training for all mine staff on behalf of the Mine Manager and Senior Management
2	2018/05/09	All	All	Comprehensive review and update.

Prepared By: Meadowbank Environment Department



Approved By:

*Nancy Duquet Harvey*  
Environmental Superintendent Nunavut

## SECTION 1. INTRODUCTION

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The Amaruq Exploration property is a 408-square kilometre exploration property located on Inuit Owned Land (IOL) approximately 150 kilometres north of Baker Lake and approximately 50 kilometres northwest of the Meadowbank mine. Agnico Eagle purchased exploration rights to the Amaruq property from Nunavut Tunngavik Incorporated in April 2013.

The Amaruq Exploration Access Road (AEAR) was screened by NIRB on November 4<sup>th</sup>, 2015 and a Type 8BC-AEA1525 License was issued by the NWB on November 9<sup>th</sup>, 2016. The road is an important link to fuel and supplies for the advancement of the Amaruq Exploration project. In September 2017, the 64.1 kilometers road connected Meadowbank site to the Whale tail project. The widening of the road from 6.5 m to 9.5 m will commence when the Type B water license predevelopment will be obtained. The Amaruq Exploration Access Road is 6.5 meters (m) wide, located on both Crown and Inuit Owned Lands. With 9 clear bridges, and multiple culverts to pass watercourse crossings and many other localized drainage culverts to prevent erosion, reduce thaw susceptibility and washout of the road during freshet. The bridges and round culverts will allow normal river and stream flow, and fish migration at road water crossings.

The AEAR has 12 borrow/hard quarry areas approved for use with short spur roads and an approved Vault pit as a quarry.

The routing of the AEAR is shown on Figure 1 below; it was selected to minimize possible effects of construction and operations on the environment. Considerations included the overall length of the road, a desire to minimize the number of water crossings, the availability of borrow material along the route, acid rock drainage/metal leaching (ARD/ML) potential of borrow and waste rock materials, and avoidance of archaeological resources.

The AEAR is constructed, inspected, and maintained by Agnico Eagle. Consequently, Agnico Eagle has sole responsibility for the construction, operation, and decommissioning of this road, including the road bed, bridges, culverts, open bottom arch culverts and borrows pits used in the construction of the road.

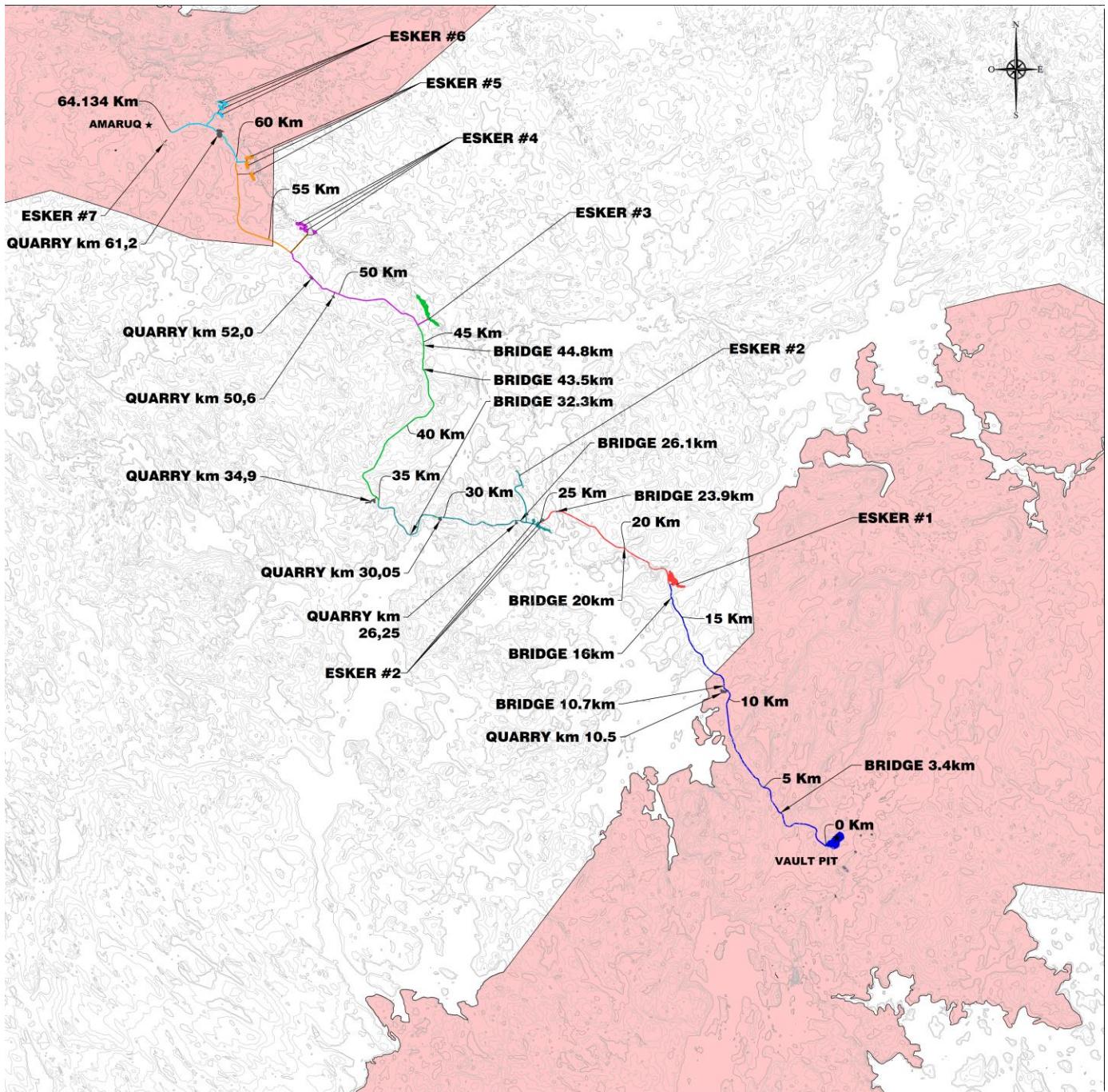
These various components and activities associated with the project require a number of different authorizations, leases and permits from regulatory agencies including the Nunavut Water Board (NWB), the Department of Fisheries and Oceans Canada (DFO), Indigenous and Northern Affairs (INAC) (formerly Aboriginal Affairs and Northern Development Canada (AANDC)); the Kivalliq Inuit Association (KIA) and the Nunavut Impact Review Board (NIRB).

This report is written to address all of the 2017 annual reporting requirements of the project under these authorizations:

NWB Type B Water License 8BC- AEA1525;  
INAC Land Use permit (N2015F0026), Leases 66H/08-02-1 (AWAR) and 66H/08-01-1 (AWAR Quarries);  
KIA Right of Way KVRW15F01 and Quarries KVCA15Q02: and  
DFO Letter of Advice issued to Agnico by DFO on March 14, 2016

The Annual report for the NIRB Screening Decision 11EN010 has been submitted under a separate cover and can be found in Appendix 1.

Figure 1: Amaruq Exploration Access Road Layout



## SECTION 2. ROAD CONSTRUCTION/QUARRIES

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The following section discusses reporting requirements related to road construction.

### 2.1 ROAD CONSTRUCTION

#### 2.1.1 Summary of Construction Activities

As required by Water License 8BC-AEA1525, Part B, Item 5c: *A summary report of construction activities including photographic records before, during and after construction.*

And

As required by INAC N2015F0026 Item 12: *The annual report must contain, but not limited to, the following information: (a) a summary of activities undertaken for the year, (b) a map showing the following items with the exact coordinates (degrees/minutes/sec, in NAD 8), i. All drilling location, ii. All fuel caches, iii. any other location where activities were conducted*

AEAR construction began end of February 2016. The first phase consists to construct the 16.9 Km starting from Vault to Esker 1. This phase was completed end of May 2016. The construction team has been demobilizing to construct a dike at Meadowbank from June to October 2016. During this period the AEAR worksite has been closed. In September, Agnico did some refection on the first 16.9km to adjust the road after the first unfreeze cycle. The second phase has restarted in October 2016 and consists to construct the road from Esker 1 to Amaruq site for an additional 47 Km. This Phase is ongoing until the completion of the road planned end of Q3 2017. As of December 31st 2016, the first 27.5 km of road were completed, Agnico also installed four bridges at Km3.4; Km10.7, km16 and km20. Those bridges are partially installed. By pass with temporary bridges has been installed to allow access to the other side or the shore during the construction of permanent bridges. Some temporary bridges installed in 2016 are steel bridge or Ice Bridge

Beginning of November 2016, Agnico Eagle started to use Esker and hard rock quarry material from Esker 1 and 2. In 2016, Agnico Eagle blasted 118,075 m<sup>3</sup> of NPAG material from Esker #1 and 98,775 m<sup>3</sup> of borrow material from Esker #1 and #2. This material has been used for the construction of the road only.

From January 1<sup>st</sup> 2017 to September 30<sup>th</sup> 2017, Agnico Eagle extended the AEAR from KM27+500 to the Amaruq property. For the road construction, Agnico used esker and hard rock material from eskers and quarries located at KM17.8, KM24.8, KM35, KM46, KM52, KM59.8. All of the material was used for the road construction or the bridge approaches construction. Agnico also excavated gravel and till from different bridges abutment. The gravel was used for the road construction and the till was deposited inside the quarry at KM24.8.

Below is a list of the locations, materials and quantities drilled and blasted by Agnico in 2017 on the Amaruq Road.

**Table 2.1 2017 Drill and blast locations and quantities**

Esker/Quarry/Bridge	Locations	Materials	Quantities (m <sup>3</sup> )
<b>Bridge abutment</b>	KM20	till	N/A
<b>Esker 2b</b>	KM24.8	esker material	181 219
<b>Esker 2c</b>	KM24.8	hard rock NPAG	130 401
<b>Bridge abutments</b>	KM26,1	till	N/A
<b>Quarry 35</b>	KM35	hard rock NPAG	174 400
<b>Bridge abutments</b>	KM43,5	Gravel	12 082
<b>Bridge abutments</b>	KM44.8	Gravel	17 620
<b>Esker 3</b>	KM46	esker material	79 290
<b>Quarry 52</b>	KM52	hard rock NPAG	129 130

During the 2017 construction phase, Agnico Eagle erected 9 bridges located at KM3.5, KM10.4, KM16, KM20, KM23.9, KM26.1, KM32.3, KM43.5 and KM44.8. All of the ice bridges and temporary bridges, except the temporary bridges at KM43.5 and KM44.8, were removed before freshet season.

During freshet season, a temporary fuel cache was assembled at KM33 to allow construction to continue on the north side of the bridge after the temporary bridge was removed because of the freshet. Upon completion of the KM32.3 Bridge, the fuel cache was emptied out and dismantled.

On October 15<sup>th</sup> 2017, Agnico Eagle built a snow mobile crossing at KM12 to facilitate the access to the land on the east side of the road for the people travelling on the land.

A table lists of all the culverts that were installed by Agnico Eagle during the Amaruq Road construction to allow water to flow and prevent road erosion during freshet can be found in Appendix 2.

Photos 1 to 5 below show some section of the road during the 2016 construction and pictures from 6 to 10 show stages of the 2017 construction phase.

**Photo 1: Aerial Photo showing Bridge at KM 16 and Esker 1 (2016)**



**Photo 2: Bridge at KM 10.7 during construction (2016)**



**Photo 3: Esker 1 (2016)**



**Photo 4: Esker 2 (2016)**



**Photo 5: Road KM 29 (2016)**



**Photo 6: Bridge KM 32.3 construction (2017)**



**Photo 7: Fuel cache construction at KM 32.9 (2017)**



**Photo 8: Boulder field KM 46 (2017)**



**Photo 9: Esker (2017)**



**Photo 10: Amaruq tie-in (2017)**



### **2.1.2 Geotechnical Inspection**

**As required by Water License 8BC-AEA1525, Part B, Item 5f: Results of annual geotechnical inspections of the road, including stream crossings and quarry and borrow areas, and descriptions measures taken to address inspection findings**

An annual geotechnical inspection on the AEAR was conducted in 2017. The report is attached in Appendix 3.

During 2017, Amaruq Road Supervisor and Environment Department conducted a weekly inspection to ensure that no geotechnical or environment issues occurred during the construction of the AEAR.

## **2.2 2018 WORK PLAN**

**As required by KIA KVRW15F01 Item 11: No construction or other work, operations or activity may be conducted on the Land until a Work Plan or amended Work Plan has been approved by KIA. AEM shall deliver to KIA not later than January 1st of each year of the Term a work plan.**

And

**As required by INAC N2015F0026 Item 12: The annual report must contain, but not limited to, the following information: (c) a work plan for the following year, including any progressive reclamation work undertaken**

The “2018 Work Plan” for the AEAR, prepared for the Kivalliq Inuit Association (KIA) as required by Right Of Way KVRW15F01, is attached in Appendix 4. This report was submitted to the KIA in January (Version 3) then updated and submitted in May 2018 (Version 4) and outlines the activities planned for the road throughout the 2018 year.

This 2018 Work Plan covers the proposed activities, approval depending, for the Whale Tail Project under the AEAR Right of Way. As explained earlier, the AEAR is located under both Inuit Owned Land and Crown Land and this Work Plan covers principally the part of the road located on Inuit Owned Land (IOL) administered by the Kivalliq Inuit Association. See Figure 1 above for location of the portion of the road located on IOL.

The work on IOL land located on the South section (first 11.2 Km starting near Vault Pit) of the road has been completed in May 2016 with NPAG material coming from Vault Pit. Culverts and erosion protection has been installed under the Engineer recommendation.

2018 Planned Construction Activities are described below:

- The Amaruq Exploration Access Road will be enlarged from its actual width (6.5 m) to a width of 9.5 m along its entire length (from Km 0 to Km 64.1);
- Construction of the road's sub-foundation as well as the top layer with 0-20 mm aggregates. Work will be performed between March 2018 and October 2018 with permitted Eskers and Quarries material;
- Culverts and erosion protection will be installed or extended as per plans and specifications or Engineer recommendation;
- Turn around bays will be constructed each 100m for the safety of workers;
- Work will be performed by AEM's Mine Operations personnel and equipment.

Environmental monitoring (wildlife, blast, ARD/ML, water quality, dust) have begun in 2017 and will continue through 2018 in support of all operational undertakings at AEAR as required by the NWB Type B Water License 2AM-MEA1525, NIRB Screening Decision and DFO Letter of Advice.

## 2.3 QUARRIES

The annual reporting requirements listed in the following sections apply only to quarries located along the AEAR. Esker 7 (see Figure 1) permitted under KIA Lease KVCA15Q01, located inside the Amaruq Commercial Lease is not detailed in this report.

**As required by INAC Land Lease 66H/8-01-1, Item 9(a): The lessee shall file a report, annually, with the Minister in the manner and format stipulated by the Minister, no later than sixty days following the anniversary date of the effective date of the lease.**

And

**As required by KIA KVCA15Q02, Item 16: Prior to the ten day of each month the Permittee shall submit a report to the Association indicating the quantity of material quarried and the quantity of material removed from the Land during the prior month, together with the applicable fees, calculated in accordance with this Permit**

In 2017, a total of 1,024,210 m<sup>3</sup> of material have been excavated from borrow pits (Quarry Permit 66H/8-01-1) located on Crown Land along the Amaruq Exploration Access Road for the construction of the road. Agnico Eagle submitted the report to INAC on March 1<sup>st</sup>, 2018. Details of the material used are described in the table 2.3.1 below.

**Table 2.3.1 Material taken from borrow pits (Quarry Permit 66H/8-01-1)**

<b>Year</b>	<b>Agnico Eagle Quarry/Esker #</b>	<b>AANDC Parcel #</b>	<b>Total Rock Extracted (m<sup>3</sup>)</b>	<b>Total gravel Extracted (m<sup>3</sup>)</b>
2017	Esker 1	Parcel E	-	179,471.97
	Esker 2 ABC	Parcel D	-	311,620.76
	Quarry 35	NA	174,400	-
	Esker 3	Parcel B	-	304,575.81
	Quarry 52	NA	54,141	
<b>Total</b>			<b>228,541</b>	<b>795,668.54</b>

In 2017, a total of 128 519 m<sup>3</sup> have been used on Inuit on land (Esker 5: 103,694.99 m<sup>3</sup>, Esker 6 24,825 m<sup>3</sup>).

## SECTION 3. WATER MANAGEMENT ACTIVITIES

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The following section addresses reporting requirements related to water management activities.

### 3.1 SUMMARY OF WATER USE ACTIVITIES

**As required by Water License 8BC-AEA1525 Part B Item 5a: *A summary report of water use activities.***

And

**As required by Water License 8BC-AEA1525 Part I Item 2: *The Licensee shall measure and record, in cubic metres, the daily volume of water utilized for dust suppression.***

In 2017, Agnico Eagle did pumped a total of 1,067 m<sup>3</sup> of freshwater as approved in the Water License Part C Item 1: “*The Licensee shall obtain all water for use in dust suppression from Pipe Dream Lake, Innuguguayalik Lake, ponded water (against the road), and ponds and lakes proximal to the road as indicated in the Application. The volume of water for the purposes of this Licence shall not exceed two hundred and ninety nine (299) cubic meters per day.*”

No additional details were requested by the NWB regarding the water use.

### 3.2 UNAUTHORIZED DISCHARGES

**As required by Water License 8BC-AEA1525, Part B, Item 5d: *A list of unauthorized discharges and a summary of follow-up actions taken.***

No unauthorized discharge of water to receiving environment has occurred in 2017 along the AEAR.

### 3.3 SEEPAGE MONITORING

**As required by Water License 8BC-AEA1525, Part B, Item 5e: *A list of seeps originating from borrow pits, water quality monitoring results, and measures taken to prevent the flow of seep water into nearby water bodies.***

No seepage was observed during the 2017 freshet period or at during the year.

### 3.4 MONITORING PROGRAM

**As required by Water License 8BC-AEA1525, Part B, Item 5h: *A summary of all information requested and results of the Monitoring Program.***

And

**As required by KIA KVCA15Q02 Item 17: *The permittee shall prepare a water monitoring plan for quarries in which explosives are in use. Prior to the tenth day of each month the Permittee shall submit a report to the***

***Association indicating water quality results. Water results are to be tabulated and compare to applicable CCME and MMER Guidelines***

In 2017, water was monitored closely and consistently by environmental staff along the AEAR and in esker/quarries. No issues were noted or required external sampling. No water was discharged from the sites. Exploitation of quarries on Crown Land started in November 2016 and was maintained in 2017. Water monitoring will keep following the Road Management Plan in 2018.

### **3.5 ADDITIONAL INFORMATION**

***As required by Water License 8BC-AEA1525 Part B Item 5m: Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.***

No additional information was requested in 2017.

## SECTION 4. WASTE MANAGEMENT ACTIVITIES

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### 4.1 GENERAL WASTE DISPOSAL ACTIVITY

As required by Water License 8BC-AEA1525 Part B Item 5b: *A summary of waste disposal activities.*

A temporary office was (only for the construction phase) installed along the road and all domestic waste generated was brought on a daily basis back to Meadowbank mine site. Due to the very low level of waste generated by the construction of the road, it's very difficult to estimate in cubic meter or tons the volume of waste. The quantity of waste is presently reported as waste bag of 127L, not always full to capacity, which could lead to an over estimate of waste generated. A log of waste has been put in place to track the quantity of waste generated. The waste was disposed of in the bin at Vault site and then burn at the incinerator with the flow of waste generated by Meadowbank. More details regarding the Meadowbank incinerator by referencing to Section 5.2 of the 2017 Meadowbank Annual Report. Agnico Eagle didn't see an increase in the incinerator usage following the fact that Amaruq bring waste and consider the generation of Amaruq waste to be very negligible. No waste was produced along the Amaruq Exploration Access Road for the last quarter as the temporary office was removed.

Table 4.1: 2017 Volumes of waste transferred to Meadowbank Mine Site

Month	Number of 127L bag disposed at Meadowbank mine site
January	63
February	79
March	63
April	76
May	56
June	59
July	39
August	53
September*	27
October*	0
November	0
December	0
<b>Total</b>	<b>515</b>

Sewage and grey water were also collected in the AEAR offices approximately every second day. Unfortunately, the volume of sewage pumped was combined with the volume of sewage pumped at Vault mine site so no differentiation was done. However, as per personnel communication with the construction team, the volume pumped should be very negligible. All the sewage pumped is then disposed of at the Meadowbank Sewage Treatment Plan Lift Station #2.

## 4.2 ADDITIONAL INFORMATION

**As required by Water License 8BC-AEA1525 Part B Item 5m: *Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported***

The Board did not request any additional details on waste disposal in 2017.

## SECTION 5. SPILL MANAGEMENT

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**As per Water License 8BC-AEA1525 Part G Item 5c: For each spill occurrence, submit to the Inspector, no later than thirty (30) days after initially reporting the event, a detailed report that will include the amount and type of spilled product, the GPS location of the spill, and the measures taken to contain and clean up the spill site.**

And

**As per Water License 8BC-AEA1525 Part B Item 5d: A list of unauthorized discharges and a summary of follow-up actions taken**

No reportable spills were reported to the GN Spill hotline in 2017. A summary of the non-reportable spills can be found in Table 5.1.

In 2017, thirty-four (34) spills were reported to the environment department. Spills are mainly due to mechanical issues with the equipment. There was no off site impact to any watercourses as a result of spills in 2017 and all contaminated material have been disposed adequately as per the Spill Contingency Plan.

To prevent and ensure all spills are reported internally, spill prevention training was provided to employees in 2017. Training activities include the following:

- All employees and contractors must participate in an induction session online prior to the arrival at the mine site, which includes a training section on spill management (prevention, reporting and cleaning);
- Every employee and contractor who operates a vehicle on the site must participate in training on vehicle operation. Spill management is a component of this training session;
- Toolbox meetings were given by the Environmental Department to road construction team to discussed about the spill response and reporting.

**Table 5.1: 2017 Non-reportable spills**

<b>Date of Spill</b>	<b>Hazardous Material</b>	<b>Quantity (L/Kg)</b>	<b>Description of incident</b>	<b>Clean-up action taken</b>
13-Jan-17	Engine oil	3	Mechanical leak	Contaminated soil was picked up and adequately disposed of.
24-Jan-17	Hydraulic oil	4	Mechanical leak	Contaminated soil was picked up and adequately disposed of.
11-Feb-17	Hydraulic oil	20	Broken hydraulic hose fitting	Contaminated soil was picked up and adequately disposed of.
13-Feb-17	Hydraulic oil	60	Broken seal on a hydraulic system hose	Contaminated soil was picked up and adequately disposed of.
10-Mar-17	Hydraulic oil	40	Hydraulic hose failure	Contaminated soil was picked up and adequately disposed of.
10-Mar-17	Hydraulic oil	30	Hydraulic hose failure	Contaminated soil was picked up and adequately disposed of.
21-Mar-17	Water + Rust	30	Meadowbank tank farm	Contaminated soil was picked up and adequately disposed of.
21-Mar-17	Water + Rust	90	Meadowbank tank farm	Contaminated soil was picked up and adequately disposed of.
25-Mar-17	Diesel	50	Mechanical failure	Contaminated soil was picked up and adequately disposed of.
25-Mar-17	Hydraulic oil	40	Hydraulic hose failure	Contaminated soil was picked up and adequately disposed of.
7-Apr-17	Diesel	25	Disconnection of the diesel fuel hose when moving the equipment	Contaminated soil was picked up and adequately disposed of.
14-Apr-17	Coolant	7	Radiator leak	Contaminated soil was picked up and adequately disposed of.
24-Apr-17	Hydraulic oil	8	Hydraulic hose failure	Contaminated soil was picked up and adequately disposed of.
25-Apr-17	Hydraulic oil	10	Hydraulic hose failure	Contaminated soil was picked up and adequately disposed of.
27-Apr-17	Coolant	40	A seacan slipped on the side during elevation and cause a coolant spill	Contaminated soil was picked up and adequately disposed of.
30-Apr-17	Hydraulic oil	60	The oil tank under the dozer struck a rock and broke	Contaminated soil was picked up and adequately disposed of.
15-May-17	Hydraulic oil	20	Hydraulic hose failure	Contaminated soil was picked up and adequately disposed of.
17-May-17	Hydraulic oil	30	Hydraulic hose failure	Contaminated soil was picked up and adequately disposed of.
25-May-17	Hydraulic oil	8	Hose failure	Contaminated soil was picked up and adequately disposed of.

31-May-17	Hydraulic oil	50	Hose failure	Contaminated soil was picked up and adequately disposed of.
10-Jun-17	Coolant	30	Broken coolant hose	Contaminated soil was picked up and adequately disposed of.
10-Jul-17	Coolant	6	Broken coolant hose	Contaminated soil was picked up and adequately disposed of.
13-Jul-17	Coolant	6	Broken coolant hose	Contaminated soil was picked up and adequately disposed of.
14-Jul-17	Coolant	6	Broken coolant hose	Contaminated soil was picked up and adequately disposed of.
18-Jul-17	Anti-freeze coolant	8	Broken coolant hose	Contaminated soil was picked up and adequately disposed of.
20-Jul-17	Anti-freeze coolant	8	Broken coolant hose	Contaminated soil was picked up and adequately disposed of.
23-Jul-17	Hydraulic oil	40	Broken fan hose	Contaminated soil was picked up and adequately disposed of.
24-Jul-17	Hydraulic oil	40	Hose failure	Contaminated soil was picked up and adequately disposed of.
25-Jul-17	Engine oil	15	mechanic overflow	Contaminated soil was picked up and adequately disposed of.
25-Jul-17	Coolant	40	Broken coolant hose	Contaminated soil was picked up and adequately disposed of.
13-Aug-17	Hydraulic oil	6	A 20l. pail was not closed properly	Contaminated soil was picked up and adequately disposed of.
14-Aug-17	Hydraulic oil	5	Hydraulic hose failure	Contaminated soil was picked up and adequately disposed of.
25-Aug-17	Brake oil	2	Caliper busted	Contaminated soil was picked up and adequately disposed of.
10-Sep-17	Coolant	20	the Fan broke and hit the rad	Contaminated soil was picked up and adequately disposed of.

## SECTION 6. MONITORING

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### 6.1 WATER CROSSINGS VISUAL INSPECTION

*As required by Water License 8BC-AEA1525 Part I Item 1: The Licensee shall implement the Inspection and Maintenance procedures of Amaruq Exploration Access Road in accordance with the approved Road Management Plan under Part E, Item 1.*

And

*As required by Water License 8BC-AEA1525 Part I Item 7: The Licensee shall implement water crossings visual inspection and maintenance program prior to and during spring freshet and after heavy rainfall events to identify issues relating to watercourse crossings structural integrity and hydraulic function.*

Agnico Eagle's Road Management Plan includes a program of inspection and monitoring associated with the freshet and after heavy rain event. Agnico Eagle refers you to Section 8 of the Road Management Plan (Appendix 5) for a complete review of the monitoring and inspection program.

### 6.2 ARCHAEOLOGY

*As required by INAC 66H/8-01-1 Item 66: If an archaeological site is discovered with the Land, the lessee shall immediately advise the Minister and the Territorial Archaeologist in writing.*

In 2017, archaeological impact assessments and mitigation within the Amaruq exploration property were conducted at the Whale Tail zone and along the proposed exploration road between the Meadowbank mine area and the Amaruq property. Archaeological studies were conducted to identify sites that could potentially be impacted by project components and to ensure avoidance and/or to recommend mitigation measures for sites that cannot be avoided. Mitigative activities were conducted at various sites along the road and no grave sites were impacted. On February 28<sup>th</sup>, 2017, Agnico Eagle submitted to the GN Cultural and Heritage department the "Archaeological Site Status Report to 2016 Meadowbank Gold Project and Exploration Activities, Nunavut." (This report and the information contained in it are confidential and therefore were submitted directly to the GN Cultural and Heritage department. Requests for information should be made directly to the GN.)

### 6.3 BLAST MONITORING

Quarry operations required explosives. The design, size, and shape of the blasts are planned with safety being the foremost consideration. A predetermined pattern of drill holes are drilled to a depth not exceeding the overall depth of the quarry and filled with explosives. Prior to a blast, a notice is sent to all employees to inform of the blast location and time. All personnel and equipment are moved to a safe distance from the blast area.

Approved ammonia management procedures at the Meadowbank Mine are adopted to ensure blasting practices monitor explosive quantities and blast performance to optimize the blasting practices while reducing impacts to nearby water quality from blast residue. Agnico Eagle Meadowbank Division developed a blasting program which complies with *The Guidelines for the Use of Explosives In or Near*

*Canadian Fisheries Water* (Wright and Hopky, 1998) as modified by the DFO for use in the North. As a result, Agnico conducts monitoring to evaluate blast related peak particle velocity and overpressure to protect nearby fish bearing waters. For any blast along the Amaruq Road, Agnico will follow the same standard as Meadowbank and the Meadowbank Blast Monitoring Program (March, 2017). It includes the following requirements:

1. No explosive is to be detonated in or near fish habitat that produces an instantaneous pressure change (IPC) greater than 100 kPa in the swim bladder of a fish; representatives from DFO requested that Agnico use a value of 50 kPa instead of 100 kPa; and
2. No explosive is to be detonated that produces a peak particle velocity greater than 13 mm/s in a spawning bed during the period of egg incubation.

In 2017, blast monitoring were conducted along the AEAR and Amaruq exploration site and were found to be within guidelines.

#### 6.4 ACID ROCK DRAINAGE AND METAL LEACHING

Initial testing of borrow/quarry pit materials was completed and found that the esker and quarry sample show no potential to generate acid drainage.

As per the Road Management Plan Section 7.3, additional testing for ARD/ML was conducted during construction of the roads. Each Esker/Quarry pits extracting less than 1 million metric tons (~ 400,000 m<sup>3</sup>) require a minimum of 26 samples, distributed representatively between the bedrock material and the granular material. Samples were then sent to the Meadowbank assay lab for ARD testing. The samples are also sent to an external lab analysis which will test for ABA, Bulk Metal, WRA and SFE.

Table 6.2 below presented a summary of Acid Rock Drainage (ARD) Guidelines used to classify rock.

**Table 6.1: Summary of ARD Guidelines used to classify rock**

Initial Screening Criteria	ARD Potential
NPR < 1	Likely Acid Generating (PAG)
1 < NPR < 2	Uncertain
2 < NPR	Acid Consuming Non Potentially Acid Generating (NPAG)

Results from the Assay lab versus External lab results are then compare to ensure compliance or any major differences between both laboratories. The samples analyzed the percentages of sulphur and carbon. The results from these analyses are used to differentiate Non-Potentially Acid Generating (NPAG) from Potentially Acid Generating (PAG) materials. The Total Sulphur (S) analysis is converted into a Maximum Potential Acidity (MPA) value by multiplying the Total S weight % by 31.25 which yields an MPA value in Kg CaCO<sub>3</sub> equivalent. The Total Inorganic Carbon analysis is similarly converted into a Carbonate Neutralization Potential (NP) by multiplying the Total weight % Inorganic Carbon (reported as %CO<sub>2</sub>) by 22.7 which yields an NP value in Kg CaCO<sub>3</sub> equivalent. The Net Potential Ratio (NPR) for the samples is then calculated as follows: NPR = NP/MPA. The comparison of the result from the on-site

Assay Lab and the External lab also permit to validate the ARD method of Agnico and results. In 2017, 145 samples were analyzed to determine if they are PAG or NPAG. The samples were split according to location and quantity of material removed, as per the table below.

Table 6.2 ARD samples required by tonnage of unit

Tonnage of Unit (metric tonnes)	Minimum number of samples
<10,000	3
<100,000	8
<1,000,000	26
<10,000,000	80

## 6.5 WILDLIFE MONITORING

Two accidents involving wildlife have been reported along the road in 2017. One artic hare (road kill) and one wolf (none-project related). Please find below in Table 6.3 the 2017 Wildlife Log. This information is sent to the GN Wildlife Officer on a monthly basis along with the observations from Meadowbank mine site.

Refer to the Road management Plan Section 10 to see the management and monitoring of the wildlife.

Table 6.3: 2017 Wildlife Log

Date	Time	Wildlife species	Quantity	Location	Behavior	Action taken
2017-01-17	13:30	Muskox	8	Whale Lake west side	In group	None
2017-01-24	12:00	Caribou	10	17 km south of camp site	Eating	None
2017-01-29	7:00	Wolf	4	Whale Lake south side	-	None
2017-02-02	9:30	Caribou	5	500 m west of camp site	Eating	None
2017-02-04	15:00	Wolverine	1	IVR	Walking	None
2017-02-07	9:00	Caribou	6			None
2017-02-13	9:30	Fox	1	Camp site		None
2017-02-13	10:45	Caribou	15	10 km south of ice road		None
2017-02-13	13:30	Caribou	15	8 km south of esker		None
2017-02-14	8:30	Caribou	10	South of esker		None
2017-02-17	16:15	Caribou	6	2 km south of camp		None

2017-02-17	11:15	Caribou	10	South of esker		None
2017-02-18	10:25	Caribou	50	5km NE of Amaruq road		MBK notified
2017-02-20	9:00	Caribou	2	2 km south of camp site		None
2017-02-20	14:00	Caribou	2	Fuel storage area		None
2017-02-21	10:00	Wolf	2	Ice road, north part	Attacking caribou	none
2017-02-21	10:00	Caribou	7	Ice road, north part	Fleeing wolf, one got caught	None
2017-02-21	2:30	Arctic Hare	1	Camp site	Walking	None
2017-02-24	15:00	Fox	1	1 km from camp site	Walking	None
2017-03-02	2:00	Wolf	1	Camp site	Walking	None
2017-03-04	13:00	Wolverine	1	IVR	Walking	Advise workers
2017-03-05	22:00	Wolf	1	Camp site	Walking	None
2017-03-06	15:00	Fox	1	Camp site	Running	None
2017-03-10	15:30	Fox	1	Camp site	Running	None
2017-03-11	18:00	Fox	1	Camp site	Running	None
2017-03-11	20:30	Fox	1	Camp site	Running	None
2017-03-12	7:35	Fox	1	Fuel storage area	Running	None
2017-03-13	1:00	Fox	1	IVR	Walking	None
2017-03-14	1:58	Caribou	1	Ice Road North part	Running	None
2017-03-16	3:00	Fox	1	IVR	Walking	None
2017-03-18	19:10	Fox	1	Fuel Storage Area	Running	None
2017-03-18	8:30	Caribou	8	Ice Road North part	Walking	None
2017-03-21	8:00	Fox	2	IVR	Walking	None
2017-03-22	18:30	Fox	1	IVR	Running	None
2017-04-03	15:00	Fox	1	Camp site	Walking	None
2017-04-14	Night	Wolf	1	Ice road south part	Running	None
2017-04-14	14:30	Fox	1	Whale tail near drill rig	Walking	None
2017-04-16	9:00	Fox	1	Whale tail near drill rig	Sitting	None
2017-04-19	6:00	Wolf	1	near coreshack	Running	None
2017-04-19	15:00	Wolf	1	IVR	Running	None

2017-04-20	14:00	Muskox	25	Ice road north part	Nothing	None
2017-04-20	14:30	Caribou	3	2 km west of Amaruq	Running	None
2017-04-28	18:00	Muskox	11	Rig 1	Nothing	Observed
2017-04-28	16:00	Fox	1	Camp site	Running	None
2017-05-05	12:00	Fox	1	Camp site	Walking	None
2017-05-05	12:16	Fox	3	Rig 2	Walking	None
2017-05-09	12:00	Wolf	4	700 m of the coreshack	Eating caribou	None
2017-05-18	12:30	Ptarmigan	6	Mammoth Lake	Flying	None
2017-05-21	10:30	Wolverine	1	65°15' 96°42'	Running	None
2017-05-21	9:00	Muskox	4	5 km south Amaruq	Walking	None
2017-05-22	8:30	Wolf	1	2 km west of Amaruq	Walking	None
2017-05-22	16:15	Peregrine	1	Camp site		None
2017-05-24	1:45	Ptarmigan	1	Camp site	Walking	None
2017-05-27	10:15	Wolf	1	Whale Lake	Eating caribou	None
2017-05-30	3:00	Wolf	1	Rig 5	Walking	None
2017-05-30	5:15	Ptarmigan	2	Camp site	Walking	None
2017-05-30	10:30	Ground squirrel	1	Camp site		None
2017-06-11	9:30	Wolf	1	Bloc 4 geophysics	Walking on ice	Advise workers
2017-06-11	11:00	Wolf	1	Camp site	Walking	None
2017-06-12	11:00	Muskox	21	1.5 km from fuel farm	Eating, walking	Flight stopped
2017-06-19	10:30	Fox	1	Camp site	Carrying pups	None
2017-06-24	12:00	Muskox	8	Bloc 1 geophysic	Nothing	Avoidance
2017-06-25	2:00	Wolf	1	Drill 7	Walking	None
2017-07-03	9:30	Muskox	12	Meadow river	Walking	Avoidance
2017-07-04	14:00	Muskox	12	Meadow river	Nothing	Avoidance
2017-07-06	9:30	Fox	1	Camp site	Walking	Made noise
2017-07-09	12:30	Fox	1	Camp site	Walking	Made noise
2017-07-12	12:00	Muskox	13	Meadow river	Walking	None
2017-07-12	13:36	Fox	1	Camp site	Walking	None

2017-07-15	1:30	Fox	3	Camp site	Playing	None
2017-07-20	6:55	Fox	2	Camp site	Playing	None
2017-07-22	13:00	Mouse	1	North east	Walking	None
2017-07-28	11:00	Muskox	24	Nemo Lake	Walking	None
2017-08-03	10:00	Fox	2	Camp site	Walking	None
2017-08-05	15:00	Caribou	1	Airstrip	Walking	None
2017-08-09	14:50	Caribou	3	Camp site	Walking	Adv. Supervisor
2017-08-09	15:00	Caribou	2	Camp site	Walking	None
2017-08-09	1:45	Caribou	100	Drill #3	Walking	Restrict helicopter flight and suspend operations drill (email regulators)
2017-08-10	12:30	Caribou	100	Airstrip	Walking	Suspend Otter flights and restrict helicopter flights and operations drill (email government)
2017-08-11	16:45	Ptarmigan	15	Camp site	Walking	None
2017-08-11	15:00	Caribou	1	Drill #5	Walking	None
2017-08-12	14:00	Caribou	1	Drill #7	Walking	None
2017-08-13	13:00	Caribou	1	Camp site	Walking	None
2017-08-13	14:45	Caribou	3	Fuel storage area	Walking	None
2017-08-14	10:30	Caribou	1	Whale Lake	Walking	None
2017-08-15	6:10	Fox	2	Camp site	Playing	None
2017-08-21	15:30	Caribou	1	Camp site	Walking	None
2017-08-23	17:00	Caribou	1	Airstrip	Resting	None
2017-08-30	16:00	Fox	4	Fuel storage area	Playing	None
2017-09-02	8:30	Caribou	2	Camp site	Walking	None
2017-09-06	15:30	Caribou	8	Near the drill #8	Walking	None
2017-09-08	13:30	Caribou	8	Airstrip	Walking	None
2017-09-11	11:30	Bird	5	Camp site	Walking	None
2017-09-24	3:30	Fox	1	Drill 5	Walking	None

2017-09-28	20:00	Fox	1	Camp site	Walking	None
2017-09-29	2:40	Caribou	3	Fuel storage area	Walking	None
2017-09-30	15:00	Wolf	1	Drill 3 and 5	Walking	None
2017-10-02	13:30	Wolf	1	Drilling area	Walking	None
2017-10-06	20:30	Fox	2	Drill 2	Walking	None
2017-10-09	10:30	Fox	1	Drill 5	Walking	None
2017-10-10	9:00	Fox	1	Camp site	Sitting	None
2017-10-16	9:00	Caribou	5000	Km 45	Walking	None
2017-10-17	9:00	Wolf	1	Old drill pad	Hunting	None
2017-10-19	10:05	Fox	1	Near coreshack	Trying to go in	None
2017-10-24	9:00	Muskox	5	Near the Km 30	Running / standing	Observed
2017-10-25	15:30	Fox	1	Service buildings Amaruq	Running walking	Observed
2017-11-04	16:00	Wolf	1	Fuel farm	Walking slowly	Warning safe stay in the camp
2017-11-04	2:15	Wolf	1	Drill #6	Walking around drill	Observed
2017-11-04	12:20	Wolf	1	Drill #6	Going toward the worker and running after snowmobile	Try to deter with snowmobile - wolf not afraid
2017-11-04	7:00	Arctic Hare	2	Heli pad	Running	None
2017-11-08	5:00	Fox	1	Camp site	Walking	Advise supervisor
2017-11-10	10:00	Wolf	1	Camp site	Roaming/standing	deterring action: bear banger +rubber bullet
2017-11-12	6:15	Artic fox	1	Drill #6	Walking	take a picture
2017-11-17	14:30	Wolf	1	Between Mammoth and Whale Lake	Walking	None
2017-11-17	14:00	Caribou	3	Mammoth Lake	walking, heading North	None
2017-11-18	2:15	Wolf	1	Fuel farm	Walking West	None
2017-11-21	10:21	Artic fox	1	Around camp	Walking	None
2017-11-23	18:00	Artic Hare	1	Service building	Walking	None
2017-11-24	11:00	Artic fox	1	Incinerator	Wandering	None
2017-11-24	14:00	Artic fox	2	Quarry #1	Waiting	None
2017-11-25	8:00	Artic fox	1	Incinerator	Wandering	None

2017-11-26	9:00	Wolf	1	Near coreshack	Walking	None
2017-11-26	15:00	Artic fox	1	Drill #1	Wandering	None
2017-11-28	14:00	Artic fox	1	Incinerator	Eating	Put the eatable garbage away
2017-11-29	Night	Wolf	6	Drills	Walking	None
2017-11-30	13:00	Artic fox	1	Pad C	Walking	None
2017-12-02	23:00	Wolf	2	Drill #4	Walking	take a picture and make a sound to attract it
2017-12-06	6:00	Artic fox	1	Camp main entrance	Walking	None
2017-12-16	All day	Artic fox	1	Service Building	Walking	None
2017-12-17	16:00	Artic fox	1	Service Building	Walking	None
2017-12-17	17:00	Artic fox	1	Maintenance Building	Walking	None
2017-12-18	14:00	Artic fox	1	Incinerator	Looking for food	None
2017-12-26	17:00	Artic fox	1	Incinerator	Looking for food	None
2017-12-28	am	Artic fox	2	Around the kitchen area	Playing	None

### 6.5.1 Nest Monitoring Program

Since disturbance or destruction of the nests of breeding birds is not permitted under Section 6(a) of the Migratory Birds Regulations, a nest monitoring program have been established to identify active nests and provides recommendations for avoiding disturbance at all nests. Agnico followed the Breeding Bird Nest Monitoring and Management Plan (Appendix 6) to monitor all is activities.

Two active nests were localized from May 15 to July 31. The details of the bird identification can be found in Appendix 7 (Active Bird Nest Identification).

## SECTION 7. CLOSURE

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### 7.1 PROGRESSIVE RECLAMATION

#### 7.1.1 Road

*As required by Water License 8BC-AEA1525 Part B Item 5j: A description of all progressive and or final reclamation work undertaken, including photographic records of site conditions before, during and after completion of operations.*

And

*As required by INAC 66H/8-02-1 Item 25: The lessee shall file annually a report for the preceding year, outlining the ongoing restoration completed in conformity with the approved Abandonment and Restoration Plan; as well as any variation from the said plan.*

No restoration work was completed in 2017

#### 7.1.2 Quarries

*As required by INAC 66H/8-01-1 Item 35: The lessee shall file annually a report for the preceding year, outlining the ongoing restoration completed in conformity with the approved Abandonment and Restoration Plan; as well as any variation from the said plan*

And

*As required by Water License 8BC-AEA1525 Part B Item 5j: A description of all progressive and or final reclamation work undertaken, including photographic records of site conditions before, during and after completion of operations.*

No restoration work was completed in 2017.

#### 7.1.3 Plan modification

*As required by KIA KVRW15F01 Item 34: AEM shall submit to KIA a revised Plan whenever there is a material variation from the Plan previously provided to KIA. An updated Reclamation and Closure Plan shall also include progress reports on ongoing reclamation work that has been completed and will outline the ongoing borrow area operations completed, the whole in accordance with such Plan*

No modifications to the Conceptual Closure and Reclamation Plan occurred in 2017.

## 7.2 RECLAMATION COSTS

As required by Water License 8BC-AEA1525 Part B Item 5g: *Any updates on reclamation cost estimate*

And

As required by INAC 66H/8-02-1 Item 26: *The lessee shall submit to the Minister a reclamation cost estimate pertaining to the leased are by March 31, 2016. The Lessee shall deposit and maintain with the Minister a security deposit reflecting the cost estimates no later than September 1, 2016 in an acceptable form.*

Agnico Eagle maintains with INAC a security deposit reflecting the cost estimates of the Amaruq Exploration Access Road in the prescribed deadline.

## **SECTION 8. PLANS / REPORTS / STUDIES**

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### **8.1 SUMMARY OF REVISIONS**

**As required by Water License 8BC-AEA1525 Part B Item 5i: *Any updates or revisions to plans as required by changes in operation and/or technology.***

No monitoring and management plans were revised in 2017.

Emergency Response and Spill and Contingency Plan as well as the Conceptual Closure and Reclamation Plan will be revised once the road is completed, surfaced and widened.

### **8.2 EXECUTIVE SUMMARY TRANSLATIONS**

**As required by Water License 8BC-AEA1525 Part B Item 5L: *An executive summary in English and Inuktitut of all plans, reports, or studies conducted under this Licence***

Appendix 8 includes an executive summary in English, French and Inuktitut for the Road Management Plan listed in Section 8.1 above.

## SECTION 9. MODIFICATIONS / GENERAL / OTHER

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### 9.1 PUBLIC CONSULTATION

**As required by Water License 8BC-AEA1525 Part B Item 5K: A public consultation/participation report describing consultation with local organizations and the residents of the nearby communities**

And

**As required by INAC 66H/8-02-1 Item 65: The lessee shall give notice of any closure of the road to the Minister and the reasons thereof, and post any notice of closure at the access point and along the road.**

Summary of consultation conduct in 2017 are presented in Table 9.1 below.

**Table 9.1: 2017 Summary of Consultation**

Date	Location	Event	Purpose	Attendees
January 17, 2017	Meadowbank	Meadowbank site visit	Visit to site to have an update on the operations, site tour, Amaruq road construction	Agnico Eagle (Management) Baker Lake MLA Baker Lake Mayor
February 10, 2017 September 12, 2017 October 20, 2017	Baker Lake	HTO meeting	Presence at regular HTO meetings to answer questions on migration and road safety concerns	Agnico Eagle Baker Lake HTO
April 20, 2017	Baker Lake	Open Door Baker Lake	Open house for public for information on operations, hiring and business opportunities information, and updates on the Whale Tail project	Public meeting
July 25, 2017	Meadowbank/ Amaruq	HTO Site visit	HTO and elders visit to Amaruq area	Agnico Eagle Baker Lake HTO Elders
July 27, 2017 October 11, 2017	Baker Lake	Baker Lake Community Liaison Committee meeting	The site community liaison committee (CLC) is a locally-based, formalized way for a company to engage with local community members on topics related to the company's activities.	Agnico Eagle Meadowbank management Agnico Eagle Human Resources Mayor BL SAO Hamlet Transportation Manager EDO Youth representative DEA representative Community Health representative Community Wellness Coordinator ANC representative CLARC representative Elder representative
October 11-12, 2017 November 7-8, 2017 December 7, 2017	Meadowbank and by phone	On-Site Working Group Committee meetings	Identifies and resolves issues that arise on the project site	Kivalliq Inuit Association Agnico Eagle

As a reminder, the road is not a public road so no notice of closure has been given in 2017.

## 9.2 INSPECTIONS, COMPLIANCE REPORTS AND NON-COMPLIANCE ISSUES

As required by Water License Annual report guideline: *Any responses or follow-up actions on inspection/compliance reports*

On July 31<sup>st</sup> 2017 an inspection was conducted on the Meadowbank Site and Amaruq Site by Environment and Climate Change Canada. Purpose of this visit was to conduct an inspection of the Baker Lake, Meadowbank Site and Amaruq Site for any non-compliance under Environment Canada's inspector jurisdiction (fishery act, MMER, E2, NPRI) and to review relevant documents of interest. No concerns were raised and no report received.

On August 24th and 25th 2017 an inspection was conducted on the Meadowbank Site and Amaruq Road by Nunavut Impact Review Board (NIRB). Purpose of this visit was to conduct an inspection of the Meadowbank Site (including Baker Lake Marshalling facilities) and Amaruq road site for any non-compliance under the project certificate and to review relevant documents of interest. No concerns were raised and no report received.

On September 24<sup>th</sup>, the Kivalliq Inuit Association (KIA) conducted a road assessment on 24th of September 2017 on the Meadowbank All Weather Access Roads (AWAR) and Whale Tail haul road. The purpose of these assessments was to determine if the roads were allowing for easy and safe movement of caribou across the roads. The site assessment was conducted with KIA staff and a consultant driving the roads from Baker Lake to the Meadowbank mine, and then from the Meadowbank mine to the Whale Tail Project. In addition, the KIA staff looked at the current construction of the snowmobile crossing areas, which may potentially be used as caribou crossings as well. Report received.

On October 24th to 27th 2017 an inspection was conducted on the Meadowbank Site and Amaruq Road by Indigenous and Northern Affairs Canada (INAC). Purpose of this visit was to conduct an inspection of the Meadowbank Site (including Baker Lake Marshalling facilities) and Amaruq road site for any non-compliance under the project certificate and to review relevant documents of interest. No concerns were raised, report received.

## 9.3 AWAR USAGE REPORTS

### 9.3.1 Authorized usage

As required by INAC 66H/8-02-1 Item 60: *The lessee shall before the 1 day of September in each and every year during the term of the lease, provide to the minister, a report of that years road activities. The report shall include, but not limited to (A) total number of loafs hauled in that year (B) total road operating costs for that year (c) additional info as required*

This will begin to be reported once the mining in Whale Tail Pit starts and ore hauling will start between Amaruq and Meadowbank.

### 9.3.2 Unauthorized non-mine use

As required by INAC 66H/8-02-1 Item 63: *The lessee agrees to monitor and report unauthorized non-mine use of the road, and collect and report this data to the Minister, who shall make this report accessible to the NIRB, one year after the road is opened and annually thereafter*

No unauthorized non-mine use was reported on the road in 2017. As a reminder the road is not open to public.

### **9.3.3 Safety Incidents**

**As required by INAC 66H/8-02-1 Item 64: *The lessee agrees to report any information received, including accidents or others safety incidents on the road, including the locked gates, to the minister, who shall make this information accessible to the GN, KIA a, the Hamlet of Baker Lake immediately***

A total of thirty-four (34) environmental spills occurred along the road in 2017. Section 5 provides details on each of these spills. All spills were managed appropriately according to Agnico's spill contingency plan. The spills were remediated and contaminated material was deposited at the Meadowbank Landfarm. There were no impacts to any watercourses.