



WATER LICENCE INSPECTION FORM

☒ Original
☐ Follow-Up Report

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Licensee | Licensee Representative |
| Agnico-Eagle Mines Limited | Jennifer Brown |
| Licence No. / Expiry | Representative's Title |
| 2BB-MEL1424 / July 21 st 2024 | Environmental Coordinator |
| Land / Other Authorizations | Land / Other Authorizations |
| -- | -- |
| Date of Inspection | Inspector |
| September 20 th to 21st 2018 | WRO T.Morton |
| Activities Inspected | |
| <input checked="" type="checkbox"/> Camp <input type="checkbox"/> Drilling <input type="checkbox"/> Mining <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Reclamation <input checked="" type="checkbox"/> Fuel Storage | |
| <input checked="" type="checkbox"/> Roads/Hauling <input checked="" type="checkbox"/> Other: Water Supply <input type="checkbox"/> Other: | |

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------|
| SECTION 1 | <input checked="" type="checkbox"/> Comments (s.1) | <input type="checkbox"/> Non-Compliance with Act or Licence (s.__) | <input type="checkbox"/> Action Required (s.__) |
| <p>On September 20th and 21st, 2018 an inspection was conducted of the Agnico Eagle Mines’ (‘AEM’) Meliadine exploration camp area and other associated activities, authorized under water licence no. 2BB-MEL1424. The inspection was completed by Water Resource Officer Tim Morton and was conducted to ensure compliance with the above stated water licence and approved management plans.</p> <p>This report was produced with the findings collected during the inspection.</p> <p><i>Observations</i></p> <ol style="list-style-type: none">1. The intake station water usage logs indicated that there was between 2 and 5 cubic meters per day of water withdrawn from Meliadine Lake for use within the camp (Photo #4). This amount of water is well under the authorized use of 290 cubic meters/day as stated in the water licence 2BB-MEL1424. This amount was only for domestic use within the camp and did not account for any industrial use such as exploration drilling.2. Excavation had begun at the exploration camp generator spill site (Photo #5). The excavated area was ~ 100 meters from the OHWM of Meliadine Lake (Photo #6). AEM stated that the excavation is complete for the season as they are awaiting sample results and will address any remaining areas of contamination after freshet. It was observed that there was a noticeable hydrocarbon odour present within the excavated area which indicated that further excavation is needed.3. The expo camp generator and incinerator area had multiple small hydrocarbon stains (Photo #10). This contaminated soil must be removed and disposed of in accordance with the approved waste management plan. All of the observed stains appeared to be well under the reportable 100 liter threshold however greater attention to detail must be taken in the future to avoid these minor spills.4. The incinerator at the expo camp was not in service at the time of the inspection. All of the incineration takes place under water licence 2AM-MEL1631 at the main camps incineration facility.5. The hazardous waste laydown area located near the expo camp contains the waste from both the expo and main camp. The area appear to be well organized and no concerns were noted.6. AEM’s lab setup at the expo camp is capable of conducting in house sampling for the following parameters: conductivity, and pH. Golder conducts most of the water licence and MMDER sampling.7. MEL-7 designated as the sewage discharge point for the expo camp is no longer in use (Photo #9). All of the sewage generated at the camp is pumped out via vac truck and sent to the main camps sewage treatment plant for treatment and discharge.8. The old fuel farm located between the exploration camp and main camp contained 15 fuel storage tanks that were no longer in use. Three of the tanks were labeled “STP Sludge” (Photo #1). Sewage from the STP was placed within these three tanks which appeared to be overfilled during the transfer (Photo #2). The sewage had spilt under the tanks which were not reported by AEM staff. The NWT/NU spills agreement states that all spills of sewage regardless of quantity must be reported. Part H Condition 4 states that all unauthorized deposits of waste must be immediately reported to the spill line and to the Inspector. The Inspector explained that this spill must be reported immediately. Ms. Brown reported the spill on September 20th 2018 under spill#18-396. The contaminated material will need to be removed and disposed of in accordance with the approved waste management plan.9. All information requested during the inspection has been received. | | | |
| SECTION 2 | <input type="checkbox"/> Comments (s.__) | <input type="checkbox"/> Non-Compliance with Act or Licence (s.2) | <input type="checkbox"/> Action Required (s.__) |
| | | | |
| SECTION 3 | <input type="checkbox"/> Comments (s.__) | <input type="checkbox"/> Non-Compliance with Act or Licence, (s.__) | <input type="checkbox"/> Action Required (s.3) |
| | | | |



| | |
|----------------------------|-------------------------------|
| Licensee or Representative | Inspector's Name |
| | WRO T.Morton |
| Signature | Signature |
| | Original signed on file |
| Date | Date |
| | October 25 th 2018 |

| | | |
|------------------|--------------------------------------------|---------------------------------------------------------------------|
| Office Use Only: | Follow-up report to be issued by Inspector | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|------------------|--------------------------------------------|---------------------------------------------------------------------|

cc.

Erik Allain, Director, Lands Administration, INAC
Manager, Licensing, Nunavut Water Board
Meliadine Environmental Staff, Environmental Coordinator, AEM



Attached: Photo Log, September 20th to 21st 2018

PHOTO LOG

| Date: | Authorization Number: | Camera/Model: | Inspector |
|-----------------------------------------|-----------------------|-------------------------------|------------|
| September 20 th to 21st 2018 | 2BB-MEL1424 | Panasonic Lumix DMC-TS5 | WRO Morton |
| Photo No. | | Lat/Long (DD.MM.SS.SS, NAD83) | |
| Photo 1 | | | |



| Description: |
|-------------------------------------------------------------------------|
| Overview of the old tank farm area. Note the tanks labeled “STP Sludge” |



PHOTO LOG

| Date: | Authorization Number: | Camera/Model: | Inspector |
|-----------------------------------------|-------------------------------|-------------------------|------------|
| September 20 th to 21st 2018 | 2BB-MEL1424 | Panasonic Lumix DMC-TS5 | WRO Morton |
| Photo No. | Lat/Long (DD.MM.SS.SS, NAD83) | | |
| Photo 2 | | | |



| Description: |
|----------------------------------------------------------------------------|
| Tank locaed within the old tank farm that has been overfilled with sewage. |



PHOTO LOG

| Date: | Authorization Number: | Camera/Model: | Inspector |
|-----------------------------------------|-------------------------------|-------------------------|------------|
| September 20 th to 21st 2018 | 2BB-MEL1424 | Panasonic Lumix DMC-TS5 | WRO Morton |
| Photo No. | Lat/Long (DD.MM.SS.SS, NAD83) | | |
| Photo 3 | | | |



| Description: |
|----------------------------------------------------------------|
| Overview of the water intake facility at the exploration camp. |



| | | | |
|-----------------------------------------|------------------------------|--------------------------------------|------------------|
| Date: | Authorization Number: | Camera/Model: | Inspector |
| September 20 th to 21st 2018 | 2BB-MEL1424 | Panasonic Lumix DMC-TS5 | WRO Morton |
| Photo No. | | Lat/Long (DD.MM.SS.SS, NAD83) | |
| Photo 4 | | | |

| DATE | NAME | USAGE | METER BEFORE PUMPING | METER AFTER PUMPING |
|---------------|-------|-----------|----------------------|---------------------|
| Sept 12, 18 | Lance | Washrooms | 4766 | 4767 |
| " | " | " | 4767 | 4768 |
| Sept 13, 18 | Sonny | road | 4768 | 4774 |
| " | Lance | Washrooms | 4774 | 4775 |
| " | " | " | 4775 | 4777 |
| " | Sonny | road | 4777 | 4784 |
| Sept 14, 18 | Lance | Washrooms | 4784 | 4785 |
| " | " | " | 4785 | 4786 |
| " | " | " | 4786 | 4787 |
| " | Sonny | Road | 4780 | 4797 |
| Sept 15, 2018 | Nolan | washrooms | 4797 | 4798 |
| " | Lance | " | 4798 | 4799 |
| Sept 16, 18 | " | " | 4799 | 4801 |
| " | " | " | 4801 | 4803 |
| " | " | " | 4803 | 4804 |
| Sept 17, 18 | " | " | 4804 | 4805 |
| " | " | " | 4805 | 4806 |

Water intake usage logs.



PHOTO LOG

| Date: | Authorization Number: | Camera/Model: | Inspector |
|-----------------------------------------|-----------------------|-------------------------------|------------|
| September 20 th to 21st 2018 | 2BB-MEL1424 | Panasonic Lumix DMC-TS5 | WRO Morton |
| Photo No. | | Lat/Long (DD.MM.SS.SS, NAD83) | |
| Photo 5 | | | |



| Description: |
|--------------------------------------------------------------------------------|
| Overview of the genset spill area located between the camp and Meliadine Lake. |



PHOTO LOG

| Date: | Authorization Number: | Camera/Model: | Inspector |
|-----------------------------------------|-----------------------|-------------------------------|------------|
| September 20 th to 21st 2018 | 2BB-MEL1424 | Panasonic Lumix DMC-TS5 | WRO Morton |
| Photo No. | | Lat/Long (DD.MM.SS.SS, NAD83) | |
| Photo 6 | | | |



| Description: |
|-----------------------------------------------------------------------|
| Genset spill location in relation to the shoreline of Meliadine Lake. |



PHOTO LOG

| Date: | Authorization Number: | Camera/Model: | Inspector |
|-----------------------------------------|-----------------------|-------------------------------|------------|
| September 20 th to 21st 2018 | 2BB-MEL1424 | Panasonic Lumix DMC-TS5 | WRO Morton |
| Photo No. | | Lat/Long (DD.MM.SS.SS, NAD83) | |
| Photo 7 | | | |



| Description: |
|------------------------------------------------------|
| Fuel storage tank located near the exploration camp. |



PHOTO LOG

| Date: | Authorization Number: | Camera/Model: | Inspector |
|-----------------------------------------|-------------------------------|-------------------------|------------|
| September 20 th to 21st 2018 | 2BB-MEL1424 | Panasonic Lumix DMC-TS5 | WRO Morton |
| Photo No. | Lat/Long (DD.MM.SS.SS, NAD83) | | |
| Photo 8 | | | |



| Description: |
|-----------------------------------------------------------------------|
| Small fuel tank with the secondary containment full of water and ice. |



PHOTO LOG


| Date: | Authorization Number: | Camera/Model: | Inspector |
|-----------------------------------------|-------------------------------|-------------------------|------------|
| September 20 th to 21st 2018 | 2BB-MEL1424 | Panasonic Lumix DMC-TS5 | WRO Morton |
| Photo No. | Lat/Long (DD.MM.SS.SS, NAD83) | | |
| Photo 9 | | | |



| Description: |
|-------------------------------------------------|
| Overview of the camp sewage discharge location. |



PHOTO LOG

| | | | |
|------------------------------------------------------------------------------------|-----------------------|-------------------------------|------------|
| Date: | Authorization Number: | Camera/Model: | Inspector |
| September 20 th to 21st 2018 | 2BB-MEL1424 | Panasonic Lumix DMC-TS5 | WRO Morton |
| Photo No. | | Lat/Long (DD.MM.SS.SS, NAD83) | |
| Photo 10 | | | |
|  | | | |
| Description: | | | |
| Small hydrocabon stainting near the camps genset area. | | | |