CULLATON LAKE GOLD MINES LTD. WATER LICENCE 1BR-CUL1118

ANNUAL WATER LICENCE REPORT 2016

PREPARED on behalf of:

BARRICK GOLD INC.

By P.J. Brugger and Associates 1084 County Rd 8 Campbellford, ON K0L 1L0

March 24 2017

Table of Contents

| Exe | cutive Summary (Inuktitut) | i |
|-----|---|----|
| Exe | cutive Summary (English) | ii |
| 1.0 | Site Background / Location | 1 |
| | 1.1 Closure and Post Closure Maintenance History | 1 |
| 2.0 | Water Licence Supplemental Conditions and Notes | 6 |
| 3.0 | 2016 Activities | 10 |
| | 3.1 Annual Site Inspection Findings | 11 |
| | 3.2 Water Quality Monitoring | 12 |
| | 3.3 Thermistor Monitoring | 13 |
| | 3.4 Geotechnical Inspection | 13 |
| 4.0 | Annual Review of Spill Response Plan | 13 |
| 5.0 | Annual Review of Abandonment and Restoration Plan | 13 |
| 6.0 | Annual Review of Quality Assurance / Quality Control | 14 |
| 7.0 | 2017 Proposed Program | 14 |
| | | |
| | endix 1 – Site Photos endix 2 – Water Quality Monitoring Results September 7, 2016 | |

Appendix 3 – Thermistor Monitoring Results September 9, 2016

Appendix 4 – 2017 Spill Response Plan

$\Delta \Delta \Delta \Delta^{\text{GP}}$

- ÅታኈርÞσďďልና Þታናኑርሲፈና ለሮሲልፈቄσ 'የ፡LdΔና ውፈርÞረLፈና ፌዮርሲ ΔσΓጵናጋና ፈናናኑረL∿ቦናጋና ΔረĹጔኈዹናσ ፈናር∩∿ሁ.

 Δ ውርሊትጋናቴካሪ ቴሲርር Δ ርውላኄርላ Þ�Ժ ላ๋Ժ 27, 2016-Γ ውሲር CdታኈጋኈላLላላና ላካኒ ላውርሃትጋቦቱ Δ Γርሊትላዮታቱ ር Δ ላውቱ ላካኒ ላየርጐጋሁናታቱ ፕቴዕትኒቴትላቦቱ. ፕቴዕትኒቴት Δ ርውናፊትና Δ ርውና

 $\dot{\phi}$ ኦሜታ 2016 Δርቦሮኦበላና 5 ርΔԼ $^{\circ}$ ሀናσርΔና ኦ $^{\circ}$ ሶላ $^{\circ}$ ዕኦስል $\dot{\phi}$ ና $\dot{\phi}$ ርኦላና $\dot{\phi}$ ርኦንσላ $^{\circ}$ $\dot{\phi}$ $\dot{$

 Δ ው
 Δ ው
 Δ ው
 Δ ት/ናላሪ

'ԵՐՐԽԵ
 Δ ኅር
 Δ ኅር
 Δ ኅር
 Δ 1
 Δ 1
 Δ 1
 Δ 2
 Δ 2

Thurber Engineering Ltd.-d' P
 Δ 2
 Δ 3
 Δ 4
 Δ 5
 Δ 6
 Δ 6
 Δ 7
 Δ 8
 Δ 9
 Δ 9

4▷፫፻ሀበና ▷ሃና፫ሲነተበ፫σቴር፫ ላቴርዕቴ▷ና ርረቴ No 1 ቴΔΔቴዮናጋቴ ▷≫ቴኒቴኒቲናጋ
 4▷፫፻ሀበና ▷ሃና፫ሲነተበ፫σቴር፫ ላቴርዕቴ▷ና ርረቴ No 1 ቴΔΔቴዮናጋቴ ▷≫ቴኒቴኒቲናጋ

EXECUTIVE SUMMARY

The Cullaton Lake Gold mine is a recognized closed mine site located in the southern part of the Kivalliq Region in the Nunavut Territory. The property is 645 km north of Thompson, Manitoba and 250 km west of Arviat, Nunavut.

The 2016 site activities consisted of two site visits; the first on June 27, 2016 to gather additional water quality data to refine a mass balance review and perform airstrip maintenance and the second on September 7- 9 to perform additional benthic and water quality surveys to support an adaptive management plan, conduct the annual site inspection, water quality and thermistor monitoring and the tailings dam geotechnical inspection pursuant to Water Licence No. 1BR-CUL1118. A planned interim August trip to collect additional water quality data was cancelled due to weather issues.

Summarized, the results of the annual site inspection and monitoring indicate that:

- Water quality continues to remain within the guidelines specified in the Water Licence.
- The tailings storage facility continues to remain stable.
- The permafrost in the tailings cover was found 1.27m below surface on September 9, 2016 by test pit at thermistor T4.

Indigenous and Northern Affairs Canada (INAC, formerly AANDC) also attended during the June 27, 2016 site visit and performed a water license and lease inspection. Inspection reports were issued in August and included a number of findings and required actions.

During 2016 an additional 5 drums of historic fuel were removed from inventory, leaving 13 full drums for removal during future trips. Two drums owned by INAC were found empty on arrival on September 7.

The INAC requested Dam Safety Review initiated by Thurber Engineering Ltd. In 2015 was also completed and submitted to INAC and the NWB on August 2, 2016. Summarized the review indicated that:

- 1. Management of Tailings Pond No 1 is sound with the exception of 2) below.
- 2. There is insufficient freeboard to satisfy the criteria for wind set up and wave run up and therefore consideration should be given in the short term to lowering the full water supply level to allow for proper freeboard.
- 3. Consideration should be given in the long term to decommissioning the dams as continuing to store water for the foreseeable future serves no purpose.

1.0 SITE BACKGROUND / LOCATION

Cullaton Lake Gold Mines Ltd. is a wholly owned subsidiary of Barrick Gold Inc. (Barrick) which in turn is a wholly owned subsidiary of Barrick Gold Corporation.

The Cullaton Lake Gold mine is a recognized closed mine site located in the south central part of the Kivalliq Region in the Nunavut Territory. The property is 250 km west of Arviat, Nunavut, 400 km northwest of Churchill, Manitoba, and 645 km north of Thompson, Manitoba (see figure 1). The mine was in operation for four years from 1981 to 1985. Following operation, the mine was in a care and maintenance mode from 1985 to 1991.

1.1 CLOSURE AND POST CLOSURE MAINTENANCE HISTORY

Decommissioning was initiated in 1991 with the rehabilitation of Tailings Pond No. 1, which included construction of a spillway in the dam and the covering of exposed tailings with water or till/mine rock. In addition, the water level in Tailings Pond No. 2 (the polishing pond) was lowered by partial removal of the dam (see figures 2 and 3 for site features).

Between 1991 and 1993, the fresh water intake, pump house and pipelines at the old diamond drill camp on the Kognak River were dismantled and removed. In 1995 and 1996 the mill buildings were dismantled. Some of the inert, non-salvageable material was crushed and placed in the quarry pit. In 1997, additional cover material was placed over the tailings area and the area was seeded and fertilized with a special arctic seed mix, as was the former mill site. During the winter of 1998/99 some salvageable equipment and material was removed from the property.

During the summer of 2001, all remaining inert material was placed in the former quarry pit and covered with till. All waste oils and hydraulic fluids, as well as tires and batteries were removed from equipment prior to burial and subsequently airlifted to Thompson, Manitoba for proper disposal. In addition, low grade waste rock at the Shear Lake Portal area that had been determined to be acid generating was collected and encapsulated in till adjacent to the portal.

During the 2005 annual inspection, minor maintenance items identified during the 2004 inspection were corrected. These included a second application of seed and fertilizer on the Encapsulated Waste Rock (EWR) cover at Shear Lake and erosion repairs to the EWR cover, Tailings Pond No. 1 spillway and the quarry pit landfill cover.

During the 2006 annual inspection, a small above-water exposed section of rubber liner on the upstream side of the tailings dam south of the No.1 Spillway was removed.

In response to a request from Barrick in 2006 to return the property to the crown, Indian and Northern Affairs Canada (now Indigenous and Northern Affairs Canada (INAC)) initiated a review to assess closure conditions. INAC visited the site in Sept 2006 and commissioned BGC Consulting Ltd. (BGC) to conduct a desk top review of the closure history and monitoring results.

1

The BGC report indicated for a variety of reasons that INAC should not accept return of the property. In response, INAC, BGC, Barrick and Trow Consulting personnel met on the site during the 2007 annual inspection on July 5, to discuss the report findings and confirm a new pH issue at Shear Lake. In addition Barrick volunteered to complete an Ecological Risk Assessment (ERA) to determine a) whether the mitigation efforts at Cullaton Lake have adequately addressed the requirements of the approved 1996 Abandonment and Reclamation Plan, and b) whether the new ARD issue at Shear Lake is having any significant ecological effects.

In 2008 Barrick and Gartner Lee personnel visited the site on 4 occasions to collect field data for completing the ERA. During the August trip, a minor amount of scrap metal was also retrieved from the north bank of the Kognak river and from the former bunkhouse area.

The ERA was finalized and submitted to INAC in August 2009. The report indicated that the surface waters at the site were not significantly impacted by the former mine operation or existing conditions. The findings were not acknowledged by INAC. In April 2014, INAC issued a response letter to Barrick's request to return the property to the Crown, re-stating recommendations outlined by BGC in their March 2007 report. Following a subsequent meeting between the Nunavut Water Board, INAC and Barrick in Iqaluit in April 2015, Barrick proposed by letter dated June 11, 2015 (the June 2015 Letter) to undertake several of the recommendations in the April 2014 letter, including the completion of a Dam Safety Review, a financial assurance review and regular airstrip maintenance; and proposed to initiate an adaptive monitoring plan involving additional water quality and benthic /sediment monitoring aimed at producing additional support for the ERA. Barrick also indicated in the June 2015 letter that it will not be seeking to relinquish the property to the government for the immediate future.

The Dam Safety Review was completed by Thurber Engineering and submitted to INAC and the NWB in August 2016. Airstrip maintenance was initiated in 2015. Additional field work to support an adaptive monitoring plan was initiated in 2016.

The site continues to be inspected at least on an annual basis to confirm chemical and physical stability as per the conditions of the water license. The site visit to fulfill the monitoring conditions of the water license has been moved to September at the request of INAC.

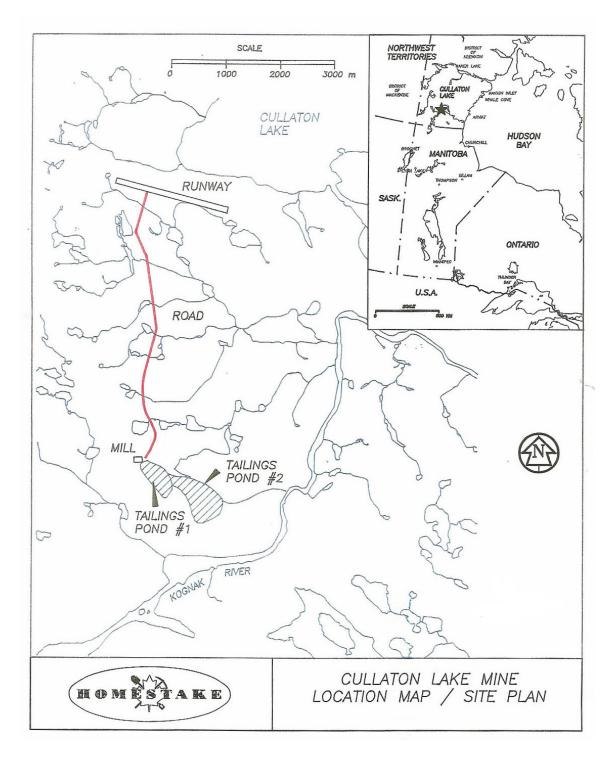


Figure 1: Cullaton Lake Mine location and general site layout

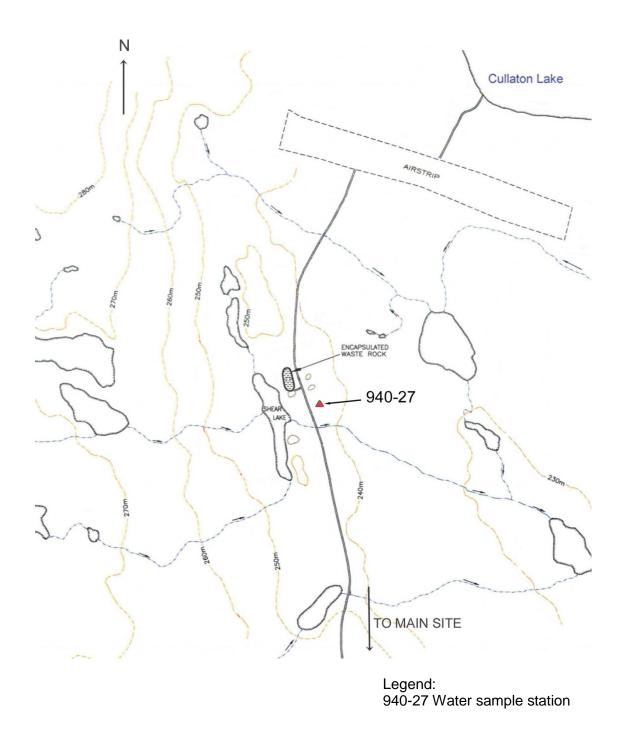
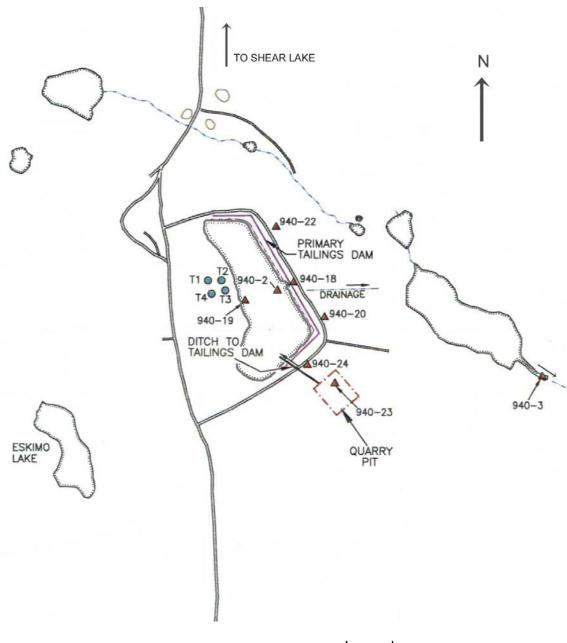


Figure 2: Cullaton Lake Shear Lake site showing features and water sampling station (not to scale).



Legend:

T1: Thermistor station 940-2: Water sample station

Figure 3: Cullaton Lake main site showing features, water sampling and thermistor stations (not to scale).

2.0 WATER LICENCE SUPPLEMENTAL CONDITIONS AND NOTES

Management of Cullaton Lake is conducted pursuant to Water Licence 1BR-CUL1118, which was issued on February 9, 2011 to renew previously issued license number 1BR-CUL0911. 1BR-CUL1118 will expire on January 31, 2018. The following provides a historic summary of supplemental conditions and notes pursuant to previous licences:

Name Change:

On November 13, 2003, application was made to the Nunavut Water Board to change the name on Licence NWB1CUL0207 from Homestake Canada Inc. to Barrick Gold Inc. to reflect changes resulting from the 2001 merger of Barrick Gold Corporation and Homestake Mining Company.

Amendment for Encapsulated Waste Rock at Shear Lake:

Part F, Item 5 of Licence NWB1CUL0207 required submission of an application for amendment to the approved Abandonment and Restoration Plan by January 1, 2003 (subsequently extended to March 31, 2003) for the new waste rock disposal area on the shores of Shear Lake. The application for amendment with supporting documentation was submitted to the Nunavut Water Board on March 31, 2003. The amendment was granted on June 6, 2005. In addition, station 940-25 was removed from the monitoring program and replaced with station 940-27, intended to monitor any seepage from the encapsulated waste rock down-gradient to Shear Lake Creek.

The amendment required that suitable as-built drawings for the encapsulated waste rock be submitted within 6 months of the date of the amendment. Drawings were submitted on Dec 5, 2005.

The amendment also required that Section 4.4 of the Approved Abandonment and Restoration Plan be revised to incorporate the latest information with respect to the closure of the Shear Lake Waste Rock disposal area. The revision was submitted concurrent with the 2005 Annual Report.

Contingency Plan to Address Seepage Issues at the Encapsulated Waste Rock

Part F, Item 6, Amendment No. 1 of Licence NWB1CUL0207 required the submission of a Contingency Plan to address the potential of the permafrost not to re-aggrade into the waste rock pile / cover as anticipated, the clogging of the passive treatment system due to the relatively flat terrain and the remediation or mitigation of sediments contaminated with levels of metals in excess of CCME guidelines due to seepage from the encapsulated waste rock pile. The contingency plan for clogging of the passive treatment system and contamination remediation was submitted concurrent with the 2005 Annual Report and under separate cover. In the same document Barrick requested that the requirement for a Contingency Plan to address the possibility of permafrost not re-aggrading into the waste rock be deleted from the Licence since this condition was identified as an "added benefit" and not a design parameter as specified by URS ¹.

¹ Assessment of Closure Options and Impacts, Shear Lake Zone Waste Rock Dump, Cullaton Lake Mine Nunavut, March 2003, URS Norecol, Dames & Moore Inc.

Amendment for Encapsulated Waste Rock Thermistors:

Water Licence NWB1CUL0207 required the installation of thermistors in the encapsulated waste rock at Shear Lake. An unsuccessful attempt to install the thermistors was made in July 2003. A report detailing this attempt was submitted to the Nunavut Water Board on November 25, 2003 and requested that this requirement be removed from the Licence. The request was granted on June 6, 2005 and station 940-26 was removed from the monitoring program.

Site Map:

Part G, Item 4a of Licence NWB1CUL0207 required submission to the Board of a Site Map of the Project Environmental Impact Area with active Surveillance Network Program (SNP) Stations within 60 days of issuance of the Licence. The required site map was submitted to the Nunavut Water Board on December 16, 2002.

GPS Coordinates:

Part G, Item 4b of Licence NWB1CUL0207 required submission of GPS coordinates of all surface and subsurface sampling points. The required GPS coordinates were submitted to the Nunavut Water Board on August 29, 2003.

Miscellaneous:

The NWB noted the following in their October 10, 2006 review of the 2005 Annual Water Licence report:

1. While the 2004 reported detection limit for nickel had been lowered as previously requested, the detection limit for arsenic was now higher than previously reported $(1\mu g/l)$ compared to 0.1 $\mu g/l$). To clarify the issue the NWB requested that detection limits proposed for the 2007 monitoring be included in the 2006 annual report.

The variability in detection limits is largely the result of the many recent laboratory acquisitions / mergers and procedure changes. After discussing the issue with the present laboratory and reviewing the associated methods and equipment limitations, the 2007 proposed detection limits were as follows:

| Licence Parameter | Method Detection Limit |
|------------------------|------------------------|
| Total Suspended Solids | 1 mg/l |
| Total Cyanide | 0.005 mg/l |
| Total Arsenic | 0.4 μg/l |
| Total Copper | 1 μg/l |
| Total Lead | 0.5 μg/l |
| Total Mercury | 0.00005 mg/l |
| Total Nickel | 1 μg/l |
| Total Zinc | 5 μg/l |

Following the 2007 sampling, the lab erroneously used a TSS detection limit of 10mg/l for the 2007 results. According to the lab, a correction to 1mg/l was not possible due the volume of analysis being less than 500ml. In 2008 the license required water samples were collected by Gartner Lee personnel along with the additional samples required for supporting their ERA. The 2008 and subsequent detection limits were equal to or lower than those shown above except for TSS in 2011 when the lab once again used a higher DL of 4mg/l. In addition to the foregoing, the lab also reported Weak Acid Dissociated (WAD) cyanide instead of the requested Total cyanide. Results were corrected for the 2012 monitoring round.

A new lab (ALS Environmental) was engaged in 2014 for logistical reasons and is the lab going forward for the foreseeable future. As a result detection limits have been adjusted slightly to reflect their standard. The new detection limits are:

| Licence Parameter | Method Detection Limit |
|------------------------|------------------------|
| Total Suspended Solids | 2 mg/l |
| Total Cyanide | 0.002 mg/l |
| Total Arsenic | 1 μg/l |
| Total Copper | 1 μg/l |
| Total Lead | 1 μg/l |
| Total Mercury | 0.00001 mg/l |
| Total Nickel | 2 μg/l |
| Total Zinc | 3 μg/l |

The 2016 surface water samples report detection limits were equal to or lower than the above.

2. The NWB commented on the 2005 anomalous zinc value at station 940-23 (.065 mg/l) Follow-up monitoring is summarized in the following table:

| Station | Year | Zn (mg/l |
|---------------------|------|----------|
| 940-23 (Quarry Pit) | 2005 | 0.065 |
| | 2006 | 0.012 |
| | 2007 | 0.006 |
| | 2008 | 0.009 |
| | 2009 | 0.023 |
| | 2010 | 0.030 |
| | 2011 | 0.014 |
| | 2012 | 0.0504 |
| | 2013 | 0.0119 |
| | 2014 | 0.0140 |
| | 2015 | 0.024 |
| | 2016 | 0.032 |

3. The NWB requested that the Spill Response Plan contact number for the INAC Water Resources Inspector be changed.

The required change was made to the 2006 and subsequent versions.

On review of the 2008 annual report, the NWB requested that the NT-NU spill report form be included with the spill contingency plan. The form was included with the 2009 plan and subsequent plans.

4. The NWB requested that water quality and thermistor data be also provided in Excel format, in order to allow for easier data analysis.

The 2006 data was provided in Excel format via e-mail on October 12, 2006. Subsequent results in Excel format are provided concurrent with the annual reports.

Water Licence 1BR-CUL1118 included a recommendation by Environment Canada and INAC to replace the non-functioning tailings cover thermistors. Subsequent research has indicated that, unless the thermistors are properly anchored in the permafrost, replacements will be susceptible to frost heave upward movement similar to the original installations. However, in light of the subsequent 2009 screening level risk assessment that indicated there are no significant impacts at the Cullaton site, the License holder intends to request that this recommendation is no longer necessary and that it be removed from the license.

3.0 2016 ACTIVITIES

Two of three site visits were completed in 2016. Access to the site for each trip was via a chartered aircraft from Thompson, Manitoba. The first visit occurred on June 27, 2016. Personnel attending the site during this trip included:

Barrick Personnel:

Paul Brugger, P. Eng., Closed Properties Manager, Eastern Canada

Rob Marsland, M.Sc., P.Eng., Senior Environmental Engineer, Palmer Environmental Consulting Group (PECG)

INAC Personnel (arrived separately from Rankin Inlet):

Ian Parson, Regional Coordinator

Christine Wilson, Water Resources Officer

During the June trip surface water samples were collected to assist in refining the mass balance review completed by PECG in 2015 and to support a proposed Adaptive Management Plan for the long term care and maintenance of the site. In addition, INAC, Barrick and PECG personnel completed a joint site inspection while discussing various site related issues.

Also during the June trip 5 drums of cached fuel were emptied into the charter plane.

On August 3-4, 2016 a second trip to collect a second round of surface water samples to support the above studies and perform airstrip maintenance was aborted due to protracted poor weather.

The annual site inspection was conducted during the September 7 - 9, 2016 trip. Personnel attending the site during this trip included:

Barrick Personnel:

Paul Brugger, P. Eng., Closed Properties Manager, Eastern Canada

Demetri Georgiou, MSc, P. Eng., Principle, qualified geotechnical engineer, **exp** Services Inc. (September 7 only)

Eric Cleveland, Environmental Technician, PECG.

Nick Smook, local carpenter from Thomson Manitoba (September 7 only)

During this trip Mr. Brugger conducted visual inspections of the quarry pit, tailings cover, all former underground access areas, EWR and the site in general, collected water samples and excavated the test pit at Thermistor T4 to determine the depth of permafrost pursuant to Water Licence 1BR-CUL1118.

Mr. Georgiou performed the annual geotechnical inspection on September 7th pursuant to Water Licence 1BR-CUL1118 and returned to Thompson the same day.

Mr. Brugger and Mr. Cleveland collected additional surface water samples and conducted benthic surveys to support the above mentioned studies during their stay on site from September 7 to 9.

Mr. Smook cleaned and repaired the airstrip survival shelter on September 7th and returned to Thompson the same day. Several bags of refuse and 10 empty fuel drums were backhauled on the September 7 return trip to Thompson.

3.1 ANNUAL SITE INSPECTION GENERAL FINDINGS

The annual site inspection performed on September 7-9, 2016 indicated that the site remains undisturbed, stable and in good condition. The following findings were noted:

The minor subsidence areas on the quarry pit landfill remain largely unchanged. Two new minor subsidence areas were observed. Most of the affected areas are occupied by arctic ground squirrels.

The site access road is becoming difficult to negotiate due to continually encroaching shrub vegetation.

Select photos are included in Appendix 1.

3.2 WATER QUALITY MONITORING

Duplicate water sampling was completed on September 7, 2016 at 5 of the 9 stations identified in the Water Licence (see Figures 2 and 3 for locations). All other stations were dry during the visit. Results are provided in Appendix 2. Recent historic results are also included for comparison. The following is a brief description of the sampling activities and results:

Station 940-2 (Tailings Pond No. 1 at discharge to Tailings Pond No. 2) – Duplicate water samples were collected on September 7, 2016. Results indicated that all parameters were below the limits prescribed in the Water Licence.

Station 940-3 (Tailings Pond No. 2) – Duplicate water samples were collected on September 7, 2016. Results indicated that all parameters were below the limits prescribed in the Water Licence.

Station 940-18 (Tailings Pond No. 1 spillway) – Duplicate water samples were collected on September 7, 2016. Results indicated that all parameters were below the limits prescribed in the Water Licence.

Station 940-19 (Tailings Pond No. 1 at piezometer) – Duplicate water samples were collected on September 7, 2016. Results indicated that all parameters were below the limits prescribed in the Water Licence.

Station 940-20 (Tailings Pond No. 1 seepage at east side) – There was no flow observed on September 7, 2016 and consequently no samples were collected.

Station 940-22 (Tailings Pond No. 1 seepage at northeast corner) – There was no flow observed on September 7, 2016 and consequently no samples were collected.

Station 940-23 (Quarry Pit) – Duplicate water samples were collected on September 7, 2016. Results indicated that all parameters were below the limits prescribed in the Water Licence. There was also no visible sheen indicating the presence of oil / grease.

Station 940-24 (Quarry Pit flow to Tailings Pond No. 1) - There was no flow from the Quarry Pit to Tailings Pond No. 1 on September 7, 2016 and consequently no samples were collected.

Station 940-27 (Seepage from Encapsulated Waste Rock to Shear Lake Creek) - There was no flow observed on September 7, 2016 and consequently no samples were collected.

The results of the additional surface water quality and benthic surveys completed in 2016 will be included in the supporting documents accompanying the water license renewal application planned for submission by June 30, 2016.

3.3 THERMISTOR MONITORING

A test pit excavated at Thermistor T4 in 2007 indicated that the thermistors are no longer providing correct readings. As in years subsequent to 2007, a test pit was excavated in the vicinity of T4 on September 9, 2016 visit in order to visually ascertain the depth of permafrost. Thermistor readings were not recorded at any of the 4 historic stations as 2 were not functioning and the remaining 2 were inaccessible due to the casing having heaved upwards.

Based on the test pit finding, the permafrost was found at a depth of 1.27m on September 9, 2016. The thickness of the till cover is 90cm at this location. The thawed 37cm of tailings below the cover and above the permafrost was saturated (see field notes and photos in Appendix 3).

3.4 GEOTECHNICAL INSPECTION

Demetri Georgiou (exp Services Inc.) performed the geotechnical inspection on September 7, 2016, pursuant to Part D, Article 8d of Water Licence 1BR-CUL1118. A copy of the inspection report was submitted to the NWB on December 5, 2016 with a copy to INAC.

In summary, the report indicates that the tailings dam remains stable. Continued monitoring for erosion in the No. 1 Spillway channel is also recommended.

Pursuant to Part D, Article 8e of Water Licence 1BR-CUL1118, the condition of the encapsulated waste rock cover at Shear Lake is to be monitored by the geotechnical engineer for erosion until vegetation is sufficiently established so as to stabilize the cover. At the time of the 2016 site inspection, the engineer noted the vegetation continues to take hold and is helping to reduce erosion. A recommendation for additional monitoring was also made.

As in the past 5 annual reports, the engineer has also recommended reducing the frequency of geotechnical inspections to once every 3 years.

4.0 ANNUAL REVIEW OF SPILL RESPONSE PLAN

Pursuant to Part H, Article 1a, b and c of Water Licence 1BR- CUL1118, a review and update of the Spill Response Plan was conducted in February. An updated version is provided in Appendix 4.

5.0 ANNUAL REVIEW OF ABANDONMENT AND RESTORATION PLAN

Pursuant to Part I, Article 2 of the Water Licence, an annual review of the Abandonment and Restoration Plan was completed. A new Abandonment and Reclamation Plan will be submitted this year (see Section 7).

6.0 ANNUAL REVIEW OF QUALITY ASSURANCE / QUALTY CONTROL

A review of the approved quality assurance / quality control plan (QA/QC) was conducted with reference to the document "Quality Assurance (QA) and Quality Control (QC) Guidelines for use by Class B Licensees in Collecting Representative Water Samples in the Field and for Submission of a QA/QC Plan, July 1996. There were no changes made to the plan. Lab QC results for the 2016 samples are included in Appendix 2.

7.0 2017 PROPOSED PROGRAM

The 2017 program will consist of two visits to site in order to comply with the requirements of Water Licence 1BR-CUL1118, collect additional water quality pursuant to recommendations of the 2016 studies and perform maintenance and several corrective measures identified in the 2016 INAC site inspections. Specifically:

- a visit in late June early July (depending on weather) to collect surface water samples, perform airstrip and access road maintenance, collect additional remote refuse identified by INAC and perform aerial surveys to identify surface lease boundaries.
- a visit during the first week of September to perform the annual site inspection, water quality monitoring, tailings dam geotechnical inspection, initiate maintenance work on the Quarry Pit landfill cover and replace water quality station markers.

In addition to the above, an application to renew the water license will be submitted, concurrent with a new Abandonment and Reclamation Plan and a proposed new monitoring plan based on the studies completed in 2016. The current license expires on January 31, 2018.

The removal of additional unauthorized third party fuel drums cached at the airstrip will continue as backhauls are made available.

Appendix 1 Cullaton Lake 2016 Site Photos



Photo 1: Cullaton Lake main site, looking west on September 7, 2016.



Photo 2: Shear Lake site, looking southwest with shrub covered EWR in foreground (courtesy of exp).



Photo 3: Tailings No.1 Pond spillway invert on September 7, 2016



Photo 4: Former Tailings Pond No. 2 spillway flowing on September 7, 2016



Photo 5: Former Shear Lake Portal, September 9, 2016.



Photo 6: Former B Zone Portal and Fresh Air Raise, looking north on September 8, 2016.



Photo 7: Encapsulated Waste Rock at Shear Lake 11 years after the application of additional seed and fertilizer.



Photo 8: Encapsulated Waste Rock cover top looking north on June 27, 2016



Photo 9: Shear Lake low pH pool area on September 9, 2016.



Photo 10: Vegetation on former low grade stockpile area at Shear Lake in June 2016.



Photo 11: New subsidence area in midsection of Quarry Pit landfill cover in June 2016.



Photo 12: Subsidence at southeast corner of Quarry Pit landfill cover in June 2016.

Appendix 2 September 7, 2016 Water Quality Monitoring Results

Cullaton Lake Water Quality Monitoring Results September 7, 2016

| Location | Sample | Field | Temp | Lab | Suspended | Total | Total | Total | Total | Total | Total | Total |
|-----------------------------------|---------|-------|------|------|-------------|----------|---------|----------|----------|------------|----------|---------|
| | Number | PH | °C ¯ | PH | Solids mg/L | Cyanide | Arsenic | Copper | Lead | Mercury | Nickel | Zinc |
| | | | | | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| Tailings Pond No. 1 | 940-2A | 8.09 | 11.1 | 8.02 | < 2.0 | < 0.0020 | 0.0036 | 0.0012 | 0.0011 | < 0.000005 | < 0.0020 | < 0.003 |
| (at discharge) | 940-2B | | | 8.03 | < 2.0 | < 0.0020 | 0.0036 | 0.0011 | 0.0011 | < 0.000005 | < 0.0020 | < 0.003 |
| Tailings Pond No. 2 | 940-3A | 8.20 | 10.4 | 7.97 | 9.3 | < 0.0020 | 0.0036 | 0.0032 | < 0.0010 | < 0.000005 | 0.0038 | < 0.003 |
| | 940-3B | | | 8.08 | 8.1 | < 0.0020 | 0.0036 | 0.0033 | < 0.0010 | < 0.000005 | 0.0039 | < 0.003 |
| Tailings Pond No. 1 | 940-18A | 7.82 | 11.1 | 7.77 | <2.0 | < 0.0020 | 0.0024 | < 0.0010 | < 0.0010 | < 0.000005 | < 0.0020 | < 0.003 |
| (spillway) | 940-18B | | | 7.79 | < 2.0 | < 0.0020 | 0.0024 | < 0.0010 | < 0.0010 | < 0.000005 | < 0.0020 | < 0.003 |
| Tailings Pond No. 1 | 940-19A | 8.40 | 10.6 | 8.08 | 2.4 | < 0.0020 | 0.0031 | 0.0011 | 0.0011 | < 0.000005 | < 0.0020 | < 0.003 |
| (at piezometer) | 940-19B | | | 7.85 | 3.2 | < 0.0020 | 0.0031 | 0.0011 | 0.0011 | < 0.000005 | < 0.0020 | < 0.003 |
| Tailings Pond No. 1 | 940-20A | Dry | | | | | | | | | | |
| (seepage at east side) | 940-20B | | | | | | | | | | | |
| Tailings Pond No. 1 | 940-22A | Dry | | | | | | | | | | |
| (seepage at northeast corner) | 940-22B | | | | | | | | | | | |
| Quarry Pit | 940-23A | 8.19 | 10.2 | 8.17 | < 2.0 | < 0.0020 | 0.0028 | 0.0019 | < 0.0010 | < 0.000005 | 0.0045 | 0.0320 |
| | 940-23B | | | 8.19 | < 2.0 | < 0.0020 | 0.0028 | 0.0019 | < 0.0010 | < 0.000005 | 0.0045 | 0.0315 |
| Quarry Pit | 940-24 | Dry | | | | | | | | | | |
| (flow to Tailings Pond No. 1) | | | | | | | | | | | | |
| Seepage from Shear Lake | 940-27 | Dry | | | | | | _ | _ | | | |
| Encapsulated Waste Rock to | | | | | | | | | | | | |
| Shear Lake Creek | | | | | | | | | | | | |

Cullaton Lake Water Quality Monitoring September 7, 2016 Water Analysis Certificate and Quality Control Report



Barrick Gold of North America.

ATTN: Paul Brugger

2270 Corporate Circle, Suite 100

Henderson NV 89074

Date Received: 08-SEP-16

Report Date: 26-SEP-16 13:04 (MT)

Version: FINAL REV. 2

Client Phone: --

Certificate of Analysis

Lab Work Order #: L1825613
Project P.O. #: NOT SUBMITTED
Job Reference: CULLATON LAKE

C of C Numbers: Legal Site Desc:

Comments: Re-uploaded Metals

Bobbie Caratti Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598 ALS CANADA LTD | Part of the ALS Group | A Campbell Brothers Limited Company



L1825613 CONTD....

PAGE 2 of 5 26-SEP-16 13:04 (MT)

Version: FINAL REV. 2

ALS ENVIRONMENTAL ANALYTICAL REPORT

| | Sample ID Description Sampled Date Sampled Time Client ID | L1825613-1 Surface Water 07-SEP-16 12:40 940-02A | L1825613-2 Surface Water 07-SEP-16 11:30 940-03A | L1825613-3 Surface Water 07-SEP-16 12:25 940-18A | L1825613-4 Surface Water 07-SEP-16 13:05 940-19A | L1825613-5 Surface Water 07-SEP-16 12:00 940-23A |
|----------------|---|--|--|--|--|--|
| Grouping | Analyte | | | | | |
| WATER | | | | | | |
| Physical Tests | pH (pH) | 8.02 | 7.97 | 7.77 | 8.08 | 8.17 |
| | Total Suspended Solids (mg/L) | <2.0 | 9.3 | <2.0 | 2.4 | <2.0 |
| Cyanides | Cyanide, Total (mg/L) | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| Total Metals | Arsenic (As)-Total (mg/L) | 0.0036 | 0.0036 | 0.0024 | 0.0031 | 0.0028 |
| | Calcium (Ca)-Total (mg/L) | 48.3 | 34.1 | 50.4 | 51.0 | 39.2 |
| | Copper (Cu)-Total (mg/L) | 0.0012 | 0.0032 | <0.0010 | 0.0011 | 0.0019 |
| | Iron (Fe)-Total (mg/L) | 0.180 | 0.476 | 0.069 | 0.153 | 0.159 |
| | Lead (Pb)-Total (mg/L) | 0.0011 | <0.0010 | <0.0010 | 0.0011 | <0.0010 |
| | Magnesium (Mg)-Total (mg/L) | 18.9 | 15.6 | 18.8 | 19.4 | 15.0 |
| | Mercury (Hg)-Total (mg/L) | <0.000050 | <0.0000050 | <0.000050 | <0.000050 | <0.0000050 |
| | Nickel (Ni)-Total (mg/L) | <0.0020 | 0.0038 | <0.0020 | <0.0020 | 0.0045 |
| | Zinc (Zn)-Total (mg/L) | <0.0030 | <0.0030 | <0.0030 | <0.0030 | 0.0320 |
| | | | | | | |
| | | | | | | |

^{*} Please refer to the Reference Information section for an explanation of any qualifiers detected.

L1825613 CONTD....

PAGE 3 of 5 26-SEP-16 13:04 (MT)

Version: FINAL REV. 2

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Cyanides Total Metals | Analyte pH (pH) Total Suspended Solids (mg/L) Cyanide, Total (mg/L) Arsenic (As)-Total (mg/L) Calcium (Ca)-Total (mg/L) Copper (Cu)-Total (mg/L) Iron (Fe)-Total (mg/L) Lead (Pb)-Total (mg/L) Magnesium (Mg)-Total (mg/L) | 7.11 <2.0 <0.0020 <0.0010 5.29 0.0028 0.407 | 8.03 <2.0 <0.0020 0.0036 49.5 | 8.08 8.1 <0.0020 0.0036 | 7.79 <2.0 <0.0020 | 7.85 3.2 <0.0020 |
|---|---|---|---|----------------------------------|-------------------------|------------------------|
| WATER Physical Tests Cyanides Total Metals | Total Suspended Solids (mg/L) Cyanide, Total (mg/L) Arsenic (As)-Total (mg/L) Calcium (Ca)-Total (mg/L) Copper (Cu)-Total (mg/L) Iron (Fe)-Total (mg/L) Lead (Pb)-Total (mg/L) | <2.0 <0.0020 <0.0010 5.29 0.0028 | <2.0 <0.0020 0.0036 49.5 | 8.1 <0.0020 0.0036 | <2.0 <0.0020 | 3.2 |
| Cyanides Total Metals | Total Suspended Solids (mg/L) Cyanide, Total (mg/L) Arsenic (As)-Total (mg/L) Calcium (Ca)-Total (mg/L) Copper (Cu)-Total (mg/L) Iron (Fe)-Total (mg/L) Lead (Pb)-Total (mg/L) | <2.0 <0.0020 <0.0010 5.29 0.0028 | <2.0 <0.0020 0.0036 49.5 | 8.1 <0.0020 0.0036 | <2.0 <0.0020 | 3.2 |
| Cyanides Total Metals | Cyanide, Total (mg/L) Arsenic (As)-Total (mg/L) Calcium (Ca)-Total (mg/L) Copper (Cu)-Total (mg/L) Iron (Fe)-Total (mg/L) Lead (Pb)-Total (mg/L) | <2.0 <0.0020 <0.0010 5.29 0.0028 | <2.0 <0.0020 0.0036 49.5 | 8.1 <0.0020 0.0036 | <2.0 <0.0020 | 3.2 |
| Total Metals | Arsenic (As)-Total (mg/L) Calcium (Ca)-Total (mg/L) Copper (Cu)-Total (mg/L) Iron (Fe)-Total (mg/L) Lead (Pb)-Total (mg/L) | <0.0020 <0.0010 5.29 0.0028 | <0.0020 0.0036 49.5 | <0.0020 0.0036 | <0.0020 | |
| Total Metals | Arsenic (As)-Total (mg/L) Calcium (Ca)-Total (mg/L) Copper (Cu)-Total (mg/L) Iron (Fe)-Total (mg/L) Lead (Pb)-Total (mg/L) | <0.0010 5.29 0.0028 | 0.0036 49.5 | 0.0036 | | ₹0.0020 |
| | Copper (Cu)-Total (mg/L) Iron (Fe)-Total (mg/L) Lead (Pb)-Total (mg/L) | 5.29 0.0028 | 49.5 | | 0.0024 | 0.0031 |
| | Iron (Fe)-Total (mg/L) Lead (Pb)-Total (mg/L) | 0.0028 | | 35.7 | 51.1 | 50.2 |
| | Lead (Pb)-Total (mg/L) | | 0.0011 | 0.0033 | <0.0010 | 0.0011 |
| | | | 0.174 | 0.498 | 0.072 | 0.154 |
| | | <0.0010 | 0.0011 | <0.0010 | <0.0010 | 0.0011 |
| | · -· · · · · · · · · · · · · · · · · · | 1.37 | 19.2 | 15.5 | 19.9 | 18.6 |
| | Mercury (Hg)-Total (mg/L) | <0.0000050 | <0.0000050 | <0.0000050 | <0.000050 | <0.0000050 |
| | Nickel (Ni)-Total (mg/L) | 0.0036 | <0.0020 | 0.0039 | <0.0020 | <0.0020 |
| | Zinc (Zn)-Total (mg/L) | <0.0030 | <0.0030 | <0.0030 | <0.0030 | <0.0030 |
| | | | | | | |
| | | | | | | |

^{*} Please refer to the Reference Information section for an explanation of any qualifiers detected.

L1825613 CONTD....

PAGE 4 of 5 26-SEP-16 13:04 (MT) Version: FINAL REV. 2

ALS ENVIRONMENTAL ANALYTICAL REPORT

| | Sample ID Description Sampled Date Sampled Time Client ID | L1825613-11 Surface Water 07-SEP-16 12:00 940-23B | | |
|----------------|---|---|--|--|
| Grouping | Analyte | | | |
| WATER | | | | |
| Physical Tests | рН (рН) | 8.19 | | |
| | Total Suspended Solids (mg/L) | <2.0 | | |
| Cyanides | Cyanide, Total (mg/L) | <0.0020 | | |
| Total Metals | Arsenic (As)-Total (mg/L) | 0.0028 | | |
| | Calcium (Ca)-Total (mg/L) | 39.4 | | |
| | Copper (Cu)-Total (mg/L) | 0.0019 | | |
| | Iron (Fe)-Total (mg/L) | 0.106 | | |
| | Lead (Pb)-Total (mg/L) | <0.0010 | | |
| | Magnesium (Mg)-Total (mg/L) | 15.0 | | |
| | Mercury (Hg)-Total (mg/L) | <0.0000050 | | |
| | Nickel (Ni)-Total (mg/L) | 0.0045 | | |
| | Zinc (Zn)-Total (mg/L) | 0.0315 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

^{*} Please refer to the Reference Information section for an explanation of any qualifiers detected.

L1825613 CONTD.... PAGE 5 of 5

Version: FINAL REV. 2

26-SEP-16 13:04 (MT)

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------|----------------------|-----------|--|
| Matrix Spike | Calcium (Ca)-Total | MS-B | L1825613-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Total | MS-B | L1825613-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9 |

Qualifiers for Individual Parameters Listed:

Qualifier Description

MS-B Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|----------------------|-----------------------------|
| CN-T-CFA-TB | Water | Total Cvanide by CFA | ISO 14403-2:2012 (modified) |

This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.

Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

HG-T-CVAF-TB Water Total Mercury in Water by CVAFS EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAFS.

MET-T-CCMS-TB Water Total Metals in Water by CRC ICPMS EPA 200.2/6020A (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

PH-TITR-TB Water pH APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

TSS-TB Water Total Suspended Solids APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|-----------------------------------|--|
| ТВ | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.





L1825613-COFC

ly (COC) / Analytical lest Form

Affix ALS barcode label here

€ COC Number: 14 -

Page 1 of 2

ALS) Environmental

Canada Toll Free: 1 800 668 9878

| | www.alsglob <u>al.com</u> | | | | É | | | ÷. | - ;- | | 5.3 | ••• | Ì | | | | | | |
|--|---|-------------------|--|------------------------------------|---|----------|--------------|--|--------------------|------|--------------|---------|---------|------------|---------------------------------------|--------------|-------------------|--|---------------------|
| Report To | | | Repo | ort Format | / Distribution | 1 | | Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests) | | | | | | | | | | | |
| Company: | Barrick Galdent Series GOLD INC. | | | | | | | | | | | | | | | | | | |
| Contact: | Paul Brugger | Quality Control | (QC) Re | port with R | eport f⊽∕Yes | 5 | 厂 No | | | | | | | | | | | | |
| Address: | | Critteria on Repo | ort - provide | e details below | w if box checked | | | E Emergency (1-2 bus, days if received by 3pm) 100% surcharge - contact ALS to confirm TAT | | | | | | | | | | | |
| | | Select Distribut | ion: | ☑EMA | il Mail | □FAX | | E2 Same day or weekend emergency - contact ALS to confirm TAT and surcharge | | | | | | | | | | | |
| Phone: | | Email 1 or Fax | pbrugge | (@the tel | ≝ a barrid | L . Co. | ~ | Specify Date Required for E2,E or P: | | | | | | | | | | | |
| | | Email 2 | Email 2 | | | | | | | | | | Analysi | is Req | uest | | | | |
| nvoice To | Same as Report To F Yes F No | | ı | Invoice Dis | stribution | | | Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below | | | | | | | | | | | |
| | Copy of Invoice with Report ✓ Yes No | Select Invoice D | Distributio | on: ☑EN | MAIL MAIL | | х | | ΙΤ | | | | | | | | \Box | | |
| Company: | | Email 1 or Fax | pbrugge | (Otto Viel | met a barrio | cle, c | our | | | | | | | | | | | | |
| Contact: | | Email 2 w | oau m | anna | barricle.c | our | | ≥ | | 1 | | | | | | 1 | 1 1 | | ęn |
| | Project Information | WHATEVER OF OI | l and Ga | s Require | d Fields (client u | 18e) 📖 | | ercury | l i | | | - 1 | 1 | | | | 1 1 | | of Container |
| ALS Quote #: | - · · · · · · · · · · · · · · · · · · · | Approver ID:::: | 44.77 53 6.10 | gladudens, ce en Più en ar e | Cost Center: 🚭 | 100 | | al Mei | - ₽ | | | | | | | İ | | | onta |
| Job #: | Cullaton Lake | GL Account: | | September 18 | Routing Code: | 1.75 | - 27 | Total | ۱ z | | | | | | İ | | 1 | | õ |
| PO / AFE: | | Activity Code: | Personal Property Control of the Con | 170 | | and a | CAN TO SEE | iĝe, | [[[| | | | | | | | i | 1 | |
| SD: | | Location: | engierrodeuri z en Ernense | | TOTAL AND AND AND AND AND AND AND AND AND AND | | | Cyanide, | ្ត | | | | | | | | | Ī | Number |
| men region or | 1023 (1) | 41.6.6 | 3 6088 | き | Commissi T |)<~2 | | Total (| \ \ \ \ | | | - | | | | | i | | Z |
| ALS Lab Wo | rk Order # (lab use only) L1825613 | TALS COURSE: | CARAT | | Sampler: | 53 | | 10 | gg | | | | | | | 1 1 | 1 | | |
| ALS Sample # | Sample Identification and/or Coordinates | Date Time Some | | | | ole Type | pH, TSS, | Fotal Metals | | - | | + 1 | | | | 1 | | | |
| (tab use only) (This description will appear on the report) | | | (dd-mmm-yy | | | Sam | ole Type | Ήd | Ţoţ | | | | 1.1 | | | 1 | | | |
| x, and two objects | 940-02A | | Sept | +7/16 | 12:40 | 5 | W | х | х | | | | | | | | | | 5 |
| | 940-03A | · | 1 | 1 | 11:30 | | i | х | х | | | | 1 1 | | | | | | |
| oble | 904-18A | | | | 12:25 | | | x | × | | | | | | \dashv | | | \neg | _ |
| The second secon | 940-19A | | | | 13:05 | | <u> </u> | х | × | - | _ | + | + + | | + | 1 | - | | + |
| ा विश्वस्थातम् । विश्वस्थातम् | | | | K | | 5 | | x | x | - | | - | + | | | \vdash | | \dashv | $\overline{}$ |
| | THO GOWNIE OF 3 | | | <u> </u> | X | | | | - | | - | + | + | | | - | \rightarrow | | 4 |
| ··· | 940-23A | | _ | ļ | 12:00 | | | X | × | - | | _ | 1 | _ | | | | \dashv | —— |
| | Shear Creek A | | ļ | | 13:40 | | | _ X | X | | | | | | | | \longrightarrow | ightharpoonup | —— |
| 0 1507 (1 1407) | 940-025 | | <u> </u> | | 12:40 | | <u> </u> | × | × | | | | | | | | | | |
| \ iffija' | 940-03B | | | } | 11:30 | | | X. | х | | l | | | | | | \Box | | |
| | 940-18B | | | | 12:25 | | | x | х | | | | | | | | | | \neg |
| \ \\ | 940-19B | | | | 13:05 | | 1 | х | х | | \neg | | + | | | 1 1 | $\overline{}$ | | \neg |
| | <u> </u> | | 1 | | | | | | | - | | +- | ╅━┪ | | - - | + | -+ | | - \ |
| # M | 940-20-A (NO Sample - dvy) | | | <u> </u> | × | | <u>~</u> | X | х | | MDIE | CONDIT | ION AS | PEC | EIVED (I | ab .eec | - Lular | | |
| Drinking | Water (DW) Samples ¹ (client use) Special In | structions / Spec | ify Criteri | is to add or | report (client Us | e) | | Froze | | - 3- | | COMBI | | bserva | · · · · · · · · · · · · · · · · · · · | Yes | | No | |
| Are samples tak | en from a Regulated DW System? | · | | | | | | | acks | Yes | ₹ 1 N | 。 | | | al intact | | | | |
| ĒΥ | - / | | | | | | | ٠, | ng Initia | | ₹ : | ў. П | | | | 163 83. | . L. | 110 | اسيا - ٤٠ (أوأور |
| Are samples for | human drinking water use? | | | | | | | | | | _ | JRES °C | | | VAL COOL | 177,0018 | PERAT | URES *C | enter : |
| ΓY | 7 1 | | | | | | | INITIAL COOLER TEMPERATURES C FINAL COOLER TEMPERATURES C | | | | | | | | | | | |
| $\overline{}$ | SHIPMENT RELEASE (dient use) | INITIAL S | HIPMEN | TRECEPT | TION (lab use ont | V): | | | | | FINAL | SHIPME | NT RE | CEPT | ION (lab | use or | 1lv) | | |
| Released by: | A Date; _ / Time: Receive | | : | | Date | Time | | FINAL SHIPMENT RECEPTION (lab use only) Received by: O Date: Time: | | | | | | | | | | | |
| 12/2 | Date: Fold Time: Receive | <u> </u> | 7.7 | ysa <u></u> | OK-Sapilo | 12 | :15- | | is | N | 'vR | | 神響所 | <u>¥-4</u> | philt | [14] | :50 | <u>) </u> | 41 |
| REFER TO BAC | CPAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION | | | WHI | E - LABORATOR | | | ۰WO. | CLIENT | COPY | | | | N/ | LFM-0376e v09 | road/04 Jenu | #Y 2214 | | Δ٨١ |





L1825613-COFC

dy (COC) / Analytical uest Form ____

Affix ALS barcode label here

(lab use only)

COC Number: 14 -

Page 2_of 2

ALS) Environmental Canada Toll Free: 1 800 668 9878

| | www.alsglobal.com | | | | | A STATE OF STREET | 1 | Sec. 2 | - Webby | 1,3 | Maria - | Tak | | | | | | | | |
|--|---|---|---|---|----------------|-------------------|--|--|--|-------------------|------------------------------|--------|--|---------------|---------------|--------|----------------------|------------|--|--|
| Report To | | | Report Format / Distribution / | | | | | Select Service Level Below (Rush Tumaround Time (TAT) is not available for all tests) | | | | | | | | | | | | |
| Company: | Barrick October Facilities GOLD ING. | | | Select Report Format: PDF EXCEL PEDD (DIGITAL) | | | | | R Regular (Standard TAT if received by 3 pm - business days) | | | | | | | | | | | |
| Contact: | Paul Brugger | Quality Control (QC) Report with Report FYes No | | | | | P Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT | | | | | | | | | | | | | |
| Address: | | | Criteria on Report - provide details below if box checked | | | | | E Emergency (1-2 bus, days if received by 3pm) 100% surcharge - contact ALS to confirm TAT | | | | | | | | | | | | |
| | | Select Distribution: DEMAIL MAIL DEAX | | | | | E2 Same day or weekend emergency - contact ALS to confirm TAT and surcharge | | | | | | | | | | | | | |
| Phone: | | Email 1 or Fax porugger@th. Com | | | | | Specify Date Required for E2,E or P: | | | | | | | | | | | | | |
| | | Email 2 | | | | | Analysis Request | | | | | | | | | | | | | |
| Invoice To | Same as Report To | Invoice Distribution | | | | | Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below | | | | | | | | | | | | | |
| | Copy of Invoice with Report ✓ Yes | Select Invoice Distribution: | | | | | | | | Т | Ť | ГТ | Т | Ì | | | | | | |
| Company: | | | Email 1 or Fax | pbrugger@tbeytel. | net a loarrio | le con | 1 | | | | | | | | | | | | | |
| Contact: | | Email 2 wbaumann & barrick . com | | | | | | | | ļ | | 1 1 | | | | | 10 | | | |
| | Project Information | Oll and Gas Required Fields (client use) | | | | | ភ | | | | | | | | | | Ē | | | |
| ALS Quote #: | | Approver ID: Cost Center | | | | | | ' | | | | l I | | | | | īg. | | | |
| ob #; Cullaton Lake | | | GL Account: | | | | | ğ Z | ı | | | 1 | | | | - 1 | - 1 | క్రి | | |
| PO / AFE: | | 4 | Activity Code | | | | | | . | | | | | | | | , 20 | | | |
| LSD: | | Location: | | | | | 3 | | | | | | | | | | Number of Containers | | | |
| ALS Lab Wo | rk Order# (lab use only) U82 | ALS Contact: BOBBIE | | Sampler: | PJB | . Total Cyanide, | itals - As | | | | | | | | | | Ź | | | |
| ALS Sample # (lab use only) | Sample Identification (This description will a | | Date (dd-mmm-yy) | Time (hh:mm) | Sample Type | pH, TSS | Total Metals | | | | | | | | | | | | | |
| | 940-23B | | | Sept 7/16 | 12:00 | 5W | × | x | | | | \top | | | | \neg | | 5 | | |
| sg of an er | | | | | | | | | | | +- | ╅╾ | | <u> </u> | | | _ | | | |
| 10.1 | | | | | | | - | H | _ | | | + | | ┿┈ | - | | | | | |
| erios in cidades La de la Rigina | | · · · · · · · · · · · · · · · · · · · | | | - | | | ┞—┤ | - - | | - | | | Д | - | | | | | |
| | | · | | | <u>_</u> . | | ļ | | _ _ | | | 1 | | | | j | | | | |
| | | | | | | | | | | | | | | | | - 1 | - 1 | | | |
| | | | | | | | | | | T | | | | | | | | | | |
| 100 | | | | | | | | | | | _ | 1- | | | | \neg | | | | |
| | | | | | | | † | ╁╌═╅ | - | _ | + | ┼─- | | +- | \dashv | -1 | | | | |
| Raji Kasi da da da da da da da | | | - | | | | ┥ | - | | | + | + | | + | | _ | | | | |
| May V | <u></u> | | · | | | | <u> </u> | $\sqcup \downarrow$ | | | - | | | | | | | | | |
| | | | | | | l | | | | | 1_ | ┸ | | 1 | | | | | | |
| 5.5 | | _ | | | <u> </u> | | | | | | 1 | | | | | | | | | |
| : :::::::::::::::::::::::::::::::::::: | | | | | - | | | | | \neg | 1 | | | | | | T | | | |
| D-1-1-1- | Market of Chicago Co. and a 1 of the Assess | Special la | | f. Critorio to add on | | | | | SA | MPLE C | ONDIT | ION A | SRECEN | /ED (la | b use | only) | | | | |
| | | | structions / Specify Criteria to add on report (client Use) | | | | | Frozen SIF Observations Yes No | | | | | | | | | | | | |
| Are samples taken from a Regulated DW System? ☐ Yes ☐ No | | | | lce packs Yes □ No □ Custody seal intact Yes □ No □ Cooling Initiated ☑ | | | | | | | | | | | | | | | | |
| Are samples for human drinking water use? | | | | | | | | | DLER TEN | PERATU | FINAL COOLER TEMPERATURES °C | | | | | | | | | |
| Г Ye | | | | | | | 8.5 | | | | | | | | | | | | | |
| \ | SHIPMENT RELEASE (client use) | INITIAL SHIPMENT RECEPTION (lab use only) | | | | | FINAL SHIPMENT RECEPTION (lab use only) | | | | | | | | | | | | | |
| Reference by: | ~ \dag{\dag{8} 6 | Date Time 08-Septio 12:15 | | | | | ived by | \mathcal{H}_{2} | | Date: Time: 14.50 | | | | | | | | | | |
| REFER TO BACK | PAGE FOR ALS LOCATIONS AND SAMPLING | G INFORMATION | | WHIT | E - LABORATOR | RY COPY YEL | LOW - | CLIENT | COPY | | | | NA-FAIA | 0326a v09 Fro | et/D4 January | 2014 | | ΔM | | |

Cullaton Lake Water Quality Monitoring Results 2003 - 2016

CULLATON LAKE MINE

WATER ANALYSIS REPORT

STATION 940-02A - TAILNGS POND NO. 1 DISCHARGE, 2003 - 2016

| Physical and General | Units | Water | CCME | July 29 | July 7 | Aug. 5 | Aug. 2 | July 5 | June 28 | Aug. 5 | Aug. 4 | Aug. 4 | Aug. 2 | Aug. 15 | Aug 12 | Sept 3 | Sept 7 | MINIMUM | MAXIMUM | AVERAGE |
|--------------------------|------------|-----------|------------|-----------|-----------|----------|-----------|-----------|-----------|-------------|-----------|-------------|---------|-----------|-----------|-------------|------------|------------|-----------|-----------|
| | | License | Guidelines | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | |
| pH (lab) | units | 6.0 - 9.5 | 6.5-9.0 | 8.07 | 7.77 | 7.8 | 8.0 | 7.7 | 7.5 | 8.0 | 7.8 | 7.8 | 7.7 | 8.1 | 8.25 | 7.98 | 8.02 | 7.5 | 8.3 | 7.9 |
| Temperature | °C | | | 21.0 | 15.3 | NR | 14.5 | 15.2 | 12.5 | 15.8 | 13.6 | 13.3 | 14.7 | 18.6 | 15.0 | 11.0 | 10.4 | 10.4 | 21.0 | 14.7 |
| Suspended Solids (105°C) | mg/L | 25.0 | | < 3 | < 3 | 14 | < 1 | < 10 | 1 | < 1 | 1 < | 4 < | 1 | < 1 | < 2 | < 5 < | 2 < | < 1 | 14 | < 4 |
| Total Cyanide (1) | mg/L | 0.80 | | < 0.005 | < 0.0050 | 0.006 | < 0.005 | < 0.005 | 0.0088 | < 0.005 < | 0.005 < | 0.0005 | 0.00264 | 0.00150 | < 0.0020 | < 0.0020 < | 0.0020 < | < 0.0005 | 0.0088 | < 0.0040 |
| Total Hardness | mg CaCO3/L | | | | 197 | 199 | 210 | 220 | 162 | 210 | 230 | 225 | 211 | 207 | Е | Е | Е | 162 | 230 | 207 |
| Minor Cations | | | | | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.30 | 0.005 | 0.0025 | 0.00159 | 0.003 | 0.0018 | 0.0021 | 0.00563 | 0.0019 | 0.0027 | 0.0021 | 0.00212 | 0.00188 | 0.0023 | 0.0022 | 0.0036 | 0.00159 | 0.00563 | 0.00253 |
| Copper | mg/L | 0.20 | 0.004 | 0.002 | 0.0014 | 0.002 | 0.001 | 0.001 | 0.00136 | 0.0012 | 0.0010 | 0.0021 | 0.00115 | 0.00105 | 0.0018 | < 0.0020 | 0.0012 | 0.00100 | 0.00210 | 0.00145 |
| Lead | mg/L | 0.20 | 0.007 | < 0.001 | < 0.0010 | < 0.001 | < 0.0005 | < 0.0005 | 0.00146 | 0.00032 | 0.00038 | 0.00030 | 0.00033 | < 0.00020 | < 0.0010 | < 0.0010 | 0.0011 < | < 0.00020 | 0.00146 | 0.00072 |
| Mercury | mg/L | | 0.0002 | < 0.00005 | < 0.00005 | < 0.0001 | < 0.00005 | < 0.00005 | < 0.00001 | < 0.00002 < | 0.00001 < | < 0.00005 < | 0.00005 | < 0.00005 | < 0.00001 | < 0.00002 < | 0.000005 < | < 0.000005 | < 0.00010 | < 0.00004 |
| Nickel | mg/L | 0.30 | 0.150 | 0.001 | < 0.020 | < 0.002 | < 0.001 | 0.002 | 0.00258 | 0.001 | 0.0008 | 0.0010 < | 0.001 | < 0.001 | < 0.0020 | < 0.0020 < | 0.0020 | 8000.0 | < 0.020 | < 0.00281 |
| Zinc | ma/l | 0.30 | 0.030 | < 0.005 | < 0.005 | < 0.003 | < 0.005 | < 0.005 | 0.0011 | < 0.0025 < | 0.0025 | 0.006 < | 0.005 | - 0.005 | < 0.0030 | < 0.0200 < | 0.0030 | 0.0011 | < 0.0200 | < 0.0051 |

() Laboratory replicate.
[] Results re-checked.
(E) Not analyzed
NR: Not recorded due to equipment malfunction
(1) WAD Cn reported for 2011

Bold values indicate CCME exceedence

CULLATON LAKE MINE

WATER ANALYSIS REPORT STATION 940-03A - TAILNGS POND NO. 2 DISCHARGE, 2003 - 2016

| Physical and General | Units | Water | CCME | July 29 | July 7 | Aug. 5 | Aug. 2 | July 5 | June 28 | Aug. 5 | Aug. 4 | Aug. 4 | Aug. 2 | Aug. 15 | Aug. 12 | Sept 3 | Sept 7 | MUMINIM | MAXIMUM | AVERAGE |
|--------------------------|------------|-----------|------------|-----------|-----------|----------|-----------|-----------|---------|-----------|-------------|---------|-----------|-------------|---------|-----------|------------|------------|-----------|-----------|
| | | License | Guidelines | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | |
| pH (lab) | units | 6.0 - 9.5 | 6.5-9.0 | 8.07 | 7.96 | 7.7 | 7.9 | 7.8 | 7.7 | 8.0 | 8.2 | 7.9 | 7.8 | 8.4 | 8.56 | 7.93 | 7.97 | 7.7 | 8.6 | 8.0 |
| Temperature | °C | | | 20.8 | 19.3 | NR | 17.4 | 13.7 | 17.0 | 15.4 | 11.4 | 12.4 | 14.6 | 18.5 | 16.3 | 10.4 | 11.1 | 10.4 | 20.8 | 15.3 |
| Suspended Solids (105°C) | mg/L | 25.0 | | 5 | < 3 | 2 | 2 | < 10 | 2 | 2 | 13 < | 4 | < 1 | 1.9 < | 2 | < 5 | 9.3 | < 1 | 13 | 4 |
| Total Cyanide (1) | mg/L | 0.80 | | 0.010 | 0.0072 | < 0.0020 | < 0.005 | < 0.005 | 0.0016 | < 0.005 | < 0.005 < | 0.0005 | 0.00192 | 0.00233 < | 0.0020 | < 0.0020 | < 0.0020 | < 0.0005 | 0.010 | < 0.004 |
| Total Hardness | mg CaCO3/L | | | | 92.4 | 100 | 90 | 88 | 82.3 | 94 | 99 | 95.2 | 118 | 109 | Е | Е | Е | 82.3 | 118 | 96.8 |
| Minor Cations | | | | | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.30 | 0.005 | 0.0059 | 0.00305 | 0.004 | 0.0037 | 0.0055 | 0.0032 | 0.0027 | 0.0046 | 0.0029 | 0.00293 | 0.00513 | 0.0044 | 0.0025 | 0.0036 | 0.0025 | 0.0059 | 0.0039 |
| Copper | mg/L | 0.20 | 0.002 | 0.003 | 0.0043 | 0.020 | 0.004 | 0.006 | 0.0037 | 0.0039 | 0.0035 | 0.0036 | 0.00367 | 0.00444 | 0.0046 | 0.0038 | 0.0032 | 0.003 | 0.020 | 0.0051 |
| Lead | mg/L | 0.20 | 0.002 | < 0.001 | < 0.0010 | < 0.001 | < 0.0005 | < 0.0005 | 0.00006 | < 0.00005 | 0.00009 < | 0.0002 | < 0.0002 | < 0.0002 < | 0.0010 | < 0.0010 | < 0.0010 | < 0.00005 | 0.00100 | < 0.00056 |
| Mercury | mg/L | | 0.0002 | < 0.00005 | < 0.00005 | < 0.0001 | < 0.00005 | < 0.00005 | 0.00001 | < 0.00002 | < 0.00001 < | 0.00005 | < 0.00005 | < 0.00005 < | 0.00001 | < 0.00002 | < 0.000005 | < 0.000005 | < 0.00010 | < 0.00004 |
| Nickel | mg/L | 0.30 | 0.065 | 0.004 | < 0.020 | 0.003 | 0.005 | 0.005 | 0.00357 | 0.0036 | 0.0043 | 0.005 | 0.0034 | 0.0055 | 0.0048 | 0.0045 | 0.0038 | 0.003 | < 0.020 | < 0.0054 |
| Zinc | ma/L | 0.30 | 0.030 | < 0.005 | < 0.005 | 0.015 | < 0.005 | < 0.005 | 0.0009 | < 0.0005 | 0.0005 | 0.006 | < 0.005 | < 0.005 < | 0.0030 | < 0.0200 | < 0.0030 | < 0.00050 | < 0.020 | < 0.0056 |

() Laboratory replicate.
[] Results re-checked.
(E) Not analyzed
NR: Not recorded due to equipment malfunction
(1) WAD Cn reported for 2011

Bold values indicate CCME exceedence

CULLATON LAKE MINE

WATER ANALYSIS REPORT STATION 940-18A - TAILNGS POND NO. 1 SPILLWAY, 2003 - 2016

| Physical and General | Units | Water | CCME | July 29 | July 7 | Aug. 5 | Aug. 2 | July 5 | June 28 | Aug. 5 | Aug. 4 | Aug. 4 | Aug. 2 | Aug. 15 | Aug. 12 | Sept 3 | Sept 7 | MINIMUM | MAXIMUM | AVERAGE |
|--------------------------|------------|-----------|------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-------------|----------|------------|----------|-----------|
| | | License | Guidelines | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | |
| pH (lab) | units | 6.0 - 9.5 | 6.5-9.0 | 8.87 | 7.89 | 8.1 | 8.4 | 7.8 | 7.5 | 7.8 | 8.7 | 8.7 | 9.3 | D | 8.69 | 7.97 | 7.77 | 7.5 | 9.3 | 8.3 |
| Temperature | °C | | | 20.5 | 18.5 | NR | 21.4 | 15.2 | 15.8 | 15.8 | 12.8 | 12.6 | 16.9 | D | 15.0 | 10.0 | 11.1 | 10.0 | 21.4 | 15.5 |
| Suspended Solids (105°C) | mg/L | 25.0 | | 4 | < 3 | < 2 | 3 | < 10 | < 1 | 1 | < 1 | < 4 | < 1 | D | < 2 | < 5 < | 2 | < 1 | < 10 | < 3 |
| Total Cyanide (1) | mg/L | 0.80 | | 0.009 | 0.0096 | 0.004 | 0.037 | 0.005 | 0.0077 | < 0.005 | 0.006 | 0.0043 | 0.00361 | D | 0.0022 | 0.0033 < | 0.0020 | < 0.0020 | 0.037 | 0.0076 |
| Total Hardness | mg CaCO3/L | | | | 217 | 200 | 210 | 230 | 159 | 220 | 220 | 228 | 212 | D | Е | Е | Е | 159 | 230 | 211 |
| Minor Cations | | | | | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.30 | 0.005 | 0.0029 | 0.00165 | 0.002 | 0.0055 | 0.0023 | 0.00133 | 0.0033 | 0.0057 | 0.0043 | 0.00375 | D | 0.0055 | 0.0049 | 0.0024 | 0.00133 | 0.0057 | 0.0035 |
| Copper | mg/L | 0.20 | 0.004 | 0.002 | 0.0018 | 0.001 | 0.005 | 0.002 | 0.00086 | 0.0012 | 0.0013 | 0.0021 | 0.0014 | D | 0.0026 | < 0.0020 < | 0.0010 | 0.00086 | 0.005 | 0.00187 |
| Lead | mg/L | 0.20 | 0.007 | < 0.001 | < 0.0010 | < 0.001 | < 0.0005 | < 0.0005 | 0.00032 | 0.00011 | 0.00011 | 0.00030 | < 0.00020 | D | < 0.0010 | < 0.0010 < | 0.0010 | 0.00011 | < 0.001 | < 0.00062 |
| Mercury | mg/L | | 0.0002 | < 0.00005 | < 0.00005 | < 0.0001 | < 0.00005 | < 0.00005 | < 0.00001 | < 0.00002 | < 0.00001 | < 0.00005 | < 0.00005 | D | < 0.00001 | < 0.00002 < | 0.000005 | < 0.000005 | < 0.0001 | < 0.00004 |
| Nickel | mg/L | 0.30 | 0.150 | 0.001 | < 0.020 | < 0.002 | 0.002 | 0.001 | 0.00124 | 0.001 | 0.0009 | 0.003 | 0.001 | D | < 0.0020 | < 0.0020 < | 0.0020 | 0.00090 | < 0.020 | < 0.00301 |
| Zinc | ma/L | 0.30 | 0.030 | < 0.005 | < 0.005 | < 0.003 | < 0.005 | < 0.005 | 0.0003 | < 0.0025 | < 0.0025 | 0.010 | < 0.005 | D | < 0.0030 | < 0.0200 < | 0.0030 | 0.00030 | < 0.020 | 0.00533 |

() Laboratory replicate.

[] Results re-checked.

(E) Not analyzed
NR: Not recorded due to equipment malfunction
(1) WAD Cn reported for 2011
Bold values indicate CCME exceedence

CULLATON LAKE MINE

WATER ANALYSIS REPORT
STATION 940-19A - TAILNGS POND NO. 1 AT PIEZOMETER LOCATION 2003 - 2016

| Physical and General | Units | NWB Water | CCME | July 29 | July 7 | Aug. 5 | Aug. 2 | July 5 | June 28 | Aug. 5 | Aug. 4 | Aug. 4 | Aug. 2 | Aug. 15 | Aug. 12 | Sept 3 | Sept 7 | MINIMUM | MAXIMUM | AVERAGE |
|--------------------------|------------|-----------|------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-------------|---------|-----------|-----------|-----------|-------------|----------|------------|----------|-----------|
| | | License | Guidelines | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | ı |
| pH (lab) | units | 6.0 - 9.5 | 6.5-9.0 | 8.08 | 7.69 | 7.9 | 7.9 | 7.8 | 7.9 | 7.9 | 7.9 | 8.1 | 8.0 | 8.1 | 8.19 | 7.90 | 8.08 | 7.7 | 8.2 | 8.0 |
| Temperature | °C | | | 20.8 | 16.3 | NR | 15.4 | 15.3 | 21.3 | 15.3 | 13.9 | 13.5 | 15.2 | 19.3 | 15.8 | 10.5 | 10.6 | 10.5 | 21.3 | 15.6 |
| Suspended Solids (105°C) | mg/L | 25.0 | | 8 | < 3 | 2 | < 1 | < 10 | < 1 | < 1 | 3 | 7 | 1.3 | < 1 | < 2 | 7 | 2.4 | 1 4 | < 10 | < 4 |
| Total Cyanide (1) | mg/L | 0.80 | | < 0.005 | 0.0074 | 0.006 | < 0.005 | < 0.005 | 0.0009 | < 0.005 | < 0.005 | 0.0074 | 0.00238 | 0.00168 | < 0.0020 | < 0.0020 < | 0.0020 | 0.0009 | 0.0074 | 0.0041 |
| Total Hardness | mg CaCO3/L | | | | 206 | 201 | 210 | 220 | 749 | 220 | 230 | 246 | 210 | 210 | Е | Е | Е | 201 | 749 | 270 |
| Minor Cations | | | | | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.30 | 0.005 | 0.0036 | 0.00209 | 0.002 | 0.0019 | 0.0016 | 0.0025 | 0.0019 | 0.0030 | 0.0021 | 0.00209 | 0.00195 | 0.0023 | 0.0024 | 0.0031 | 0.0016 | 0.0036 | 0.0023 |
| Copper | mg/L | 0.20 | 0.004 | 0.002 | 0.0015 | 0.002 | 0.001 | 0.001 | 0.00143 | 0.0015 | 0.0010 | 0.0010 | 0.00102 | 0.00097 | 0.0013 | < 0.0020 | 0.0011 | 0.00097 | 0.002 | 0.0013 |
| Lead | mg/L | 0.20 | 0.007 | < 0.001 | < 0.0010 | < 0.001 | < 0.0005 | < 0.0005 | 0.00182 | 0.00032 | 0.00036 < | 0.0002 | 0.00034 | < 0.0002 | < 0.0010 | < 0.0010 | 0.0011 | 0.0002 | 0.00182 | < 0.0007 |
| Mercury | mg/L | | 0.0002 | < 0.00005 | < 0.00005 | < 0.0001 | < 0.00005 | < 0.00005 | < 0.00001 | < 0.00002 | < 0.00001 < | 0.00005 | < 0.00005 | < 0.00005 | < 0.00001 | < 0.00002 < | 0.000005 | < 0.000005 | < 0.0001 | < 0.00004 |
| Nickel | mg/L | 0.30 | 0.150 | 0.002 | < 0.020 | < 0.002 | < 0.001 | 0.002 | 0.00858 | 0.001 | 0.0011 | 0.0010 | < 0.001 | < 0.001 | < 0.0020 | < 0.0020 < | 0.0020 | 0.001 | < 0.020 | < 0.0033 |
| Zinc | mg/L | 0.30 | 0.030 | < 0.005 | < 0.005 | < 0.003 | < 0.005 | < 0.005 | 0.0161 | < 0.0025 | < 0.0025 < | 0.005 | < 0.005 | < 0.005 | < 0.0030 | < 0.020 < | 0.0030 | 0.0025 | < 0.020 | < 0.0061 |

() Laboratory replicate.

[] Results re-checked.

(E) Not analyzed

NR: Not recorded due to equipment malfunction
(1) WAD Cn reported for 2011

Bold values indicate CCME exceedence

CULLATON LAKE MINE

WATER ANALYSIS REPORT

STATION 940-20A - TAILNGS POND NO. 1 EAST SIDE SEEPAGE, 2003 - 2016

| Physical and General | Units | Water | CCME | July 29 | July 7 | Aug. 5 | Aug. 2 | July 5 | June 28 | Aug. 5 | Aug. 4 | Aug. 4 | Aug. 2 | Aug. 15 | Aug. 12 | Sept 3 | Sept 7 | MINIMUM | MAXIMUM | AVERAGE |
|--------------------------|------------|-----------|------------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|---------|-------------|---------|--------|-----------|-----------|-----------|
| | | License | Guidelines | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | |
| pH (lab) | units | 6.0 - 9.5 | 6.5-9.0 | D | 8.13 | 7.8 | 8.1 | 8.2 | 8.1 | 8.3 | 8.7 | 8.3 | D | D | 9.14 | 7.81 | D | 7.8 | 9.1 | 8.3 |
| Temperature | °C | | | D | 21.3 | NR | 22.0 | 17.9 | 19.6 | 18.9 | 13.8 | 13.3 | D | D | 21.0 | 10.0 | D | 10.0 | 22.0 | 15.8 |
| Suspended Solids (105°C) | mg/L | 25.0 | | D | < 3 | < 2 | 1 | < 10 | 4 | 1 | 1 | < 4 | D | D | < 2 < | 5 | D | 1 | 10 | 3 |
| Total Cyanide (1) | mg/L | 0.80 | | D | 0.0104 | 0.118 | < 0.005 | < 0.005 | 0.0038 | < 0.005 | < 0.005 | 0.0014 | D | D | < 0.0020 < | 0.0020 | D | 0.001 | 0.118 | 0.016 |
| Total Hardness | mg CaCO3/L | | | | 310 | 338 | 220 | 620 | 370 | 240 | 230 | 215 | D | D | Е | Е | D | 215 | 620 | 254 |
| Minor Cations | | | | | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.30 | 0.005 | D | 0.00297 | 0.001 | 0.0044 | 0.0052 | 0.00337 | 0.0028 | 0.0042 | 0.0057 | D | D | 0.0042 | 0.0017 | D | 0.0010 | 0.0057 | 0.0036 |
| Copper | mg/L | 0.20 | 0.004 | D | 0.0041 | 0.004 | 0.004 | 0.005 | 0.00423 | 0.0031 | 0.0029 | 0.0044 | D | D | 0.0040 | 0.0037 | D | 0.0029 | 0.0050 | 0.0039 |
| Lead | mg/L | 0.20 | 0.007 | D | < 0.0010 | < 0.001 | < 0.0005 | < 0.0005 | 0.00023 | < 0.00005 | 0.00005 | < 0.0002 | D | D | < 0.0010 < | 0.0010 | D | < 0.0001 | < 0.0010 | < 0.0006 |
| Mercury | mg/L | | 0.0002 | D | < 0.00005 | < 0.0001 | < 0.00005 | < 0.00005 | < 0.00001 | < 0.00002 | < 0.00001 | < 0.00005 | D | D | < 0.00001 < | 0.00002 | D | < 0.00001 | < 0.00010 | < 0.00004 |
| Nickel | mg/L | 0.30 | 0.150 | D | < 0.020 | 0.015 | 0.006 | 0.008 | 0.00644 | 0.0036 | 0.0033 | 0.006 | D | D | 0.0041 | 0.0040 | D | 0.0033 | < 0.020 | < 0.0076 |
| Zinc | ma/L | 0.30 | 0.030 | D | < 0.005 | < 0.003 | < 0.005 | < 0.005 | 0.0016 | 0.0038 | < 0.0025 | 0.007 | D | D | 0.0036 < | 0.0200 | D | 0.0016 | < 0.0200 | < 0.0057 |

() Laboratory replicate.
[] Results re-checked.
D Dry
NR: Not recorded due to equipment malfunction
(1) WAD Cn reported for 2011
Bold values indicate CCME exceedence

CULLATON LAKE MINE

WATER ANALYSIS REPORT STATION 940-22A - TAILNGS POND NO. 1 NORTH SIDE SEEPAGE, 2003 - 2016

| Physical and General | Units | Water | CCME | July 29 | July 7 | Aug. 5 | Aug. 2 | July 5 | Jun 28 | Aug. 5 | Aug. 4 | Aug. 4 | Aug. 2 | Aug. 15 | Aug. 12 | Sept 3 | Sept 7 | MINIMUM | MAXIMUM | AVERAGE |
|--------------------------|------------|-----------|------------|---------|--------|----------|--------|--------|-----------|--------|--------|--------|--------|---------|---------|--------|--------|-----------|----------|-----------|
| | | License | Guidelines | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | |
| pH (lab) | units | 6.0 - 9.5 | 6.5-9.0 | D | D | 7.7 | D | D | 8.0 | D | D | D | D | D | D | D | D | 7.7 | 8.0 | 7.9 |
| Temperature | °C | | | D | D | NR | D | D | 18.7 | D | D | D | D | D | D | D | D | 18.7 | 18.70 | 18.70 |
| Suspended Solids (105°C) | mg/L | 25.0 | | D | D | 6 | D | D | 1 | D | D | D | D | D | D | D | D | 1 | 6 | 4 |
| Total Cyanide | mg/L | 0.80 | | D | D | 0.073 | D | D | 0.0015 | D | D | D | D | D | D | D | D | 0.0015 | 0.073 | 0.037 |
| Total Hardness | mg CaCO3/L | | | D | D | 515 | D | D | 546 | D | D | D | D | D | D | D | D | 515 | 546 | 531 |
| Minor Cations | | | | | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.30 | 0.005 | D | D | 0.001 | D | D | 0.00339 | D | D | D | D | D | D | D | D | 0.001 | 0.00339 | 0.0022 |
| Copper | mg/L | 0.20 | 0.004 | D | D | 0.004 | D | D | 0.00239 | D | D | D | D | D | D | D | D | 0.00239 | 0.004 | 0.0032 |
| Lead | mg/L | 0.20 | 0.007 | D | D | < 0.001 | D | D | 0.00057 | D | D | D | D | D | D | D | D | 0.00057 | < 0.001 | < 0.0008 |
| Mercury | mg/L | | 0.0002 | D | D | < 0.0001 | D | D | < 0.00001 | D | D | D | D | D | D | D | D | < 0.00001 | < 0.0001 | < 0.00006 |
| Nickel | mg/L | 0.30 | 0.150 | D | D | 0.045 | D | D | 0.00415 | D | D | D | D | D | D | D | D | 0.00415 | 0.045 | 0.0246 |
| Zinc | mg/L | 0.30 | 0.030 | D | D | < 0.010 | D | D | 0.0022 | D | D | D | D | D | D | D | D | 0.0022 | < 0.010 | < 0.0061 |

NR: Not recorded due to equipment malfunction

^() Laboratory replicate.[] Results re-checked.D Dry

CULLATON LAKE GOLD MINES LTD. CULLATON LAKE MINE

WATER ANALYSIS REPORT STATION 940-23A - QUARRY PIT, 2003 - 2016

| Physical and General | Units | Water | CCME | July 29 | July 7 | Aug. 5 | Aug. 2 | July 5 | June 28 | Aug. 5 | Aug. 4 | Aug. 4 | Aug. 2 | Aug. 15 | Aug. 12 | Sept 3 | Sept 7 | MINIMUM | MAXIMUM | AVERAGE |
|--------------------------|------------|-----------|------------|-----------|-----------|------------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|----------|----------|
| | | License | Guidelines | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | |
| pH (lab) | units | 6.0 - 9.5 | 6.5-9.0 | 8.07 | 7.56 | 7.8 | 8.1 | 7.7 | 7.4 | 8.1 | 8.0 | 8.0 | 7.9 | 8.0 | 8.26 | 8.15 | 8.17 | 7.4 | 8.3 | 7.9 |
| Temperature | °C | | | 20.7 | 15.7 | NR | 15.5 | 14.4 | 14.5 | 14.3 | 13.8 | 13.0 | 14.7 | 18.3 | 14.1 | 10.3 | 10.2 | 10.2 | 20.7 | 14.6 |
| Suspended Solids (105°C) | mg/L | 25.0 | | 10 | < 3 | 4 | 1 | < 10 | < 1 | < 1 | 2 | < 4 | < 1 | < 1 | < 2 | < 5 | < 2 | < 1 | 10 | < 3 |
| Total Cyanide (1) | mg/L | 0.80 | | < 0.006 | < 0.0050 | < 0.002 < | 0.005 | < 0.005 | < 0.0005 | < 0.005 | < 0.005 | < 0.00050 | 0.00074 | 0.00117 | < 0.0020 | < 0.0020 | < 0.0020 | < 0.0005 | < 0.006 | < 0.003 |
| Total Hardness | mg CaCO3/L | | | | 37.9 | 104.0 | 120.0 | 78.0 | 46.7 | 100.0 | 110.0 | 93.6 | 110.0 | 106.0 | E | E | Е | 37.90 | 120.00 | 90.62 |
| Minor Cations | | | | | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.30 | 0.005 | 0.0019 | 0.00096 | 0.002 | 0.0014 | 0.0011 | 0.00084 | 0.0013 | 0.0020 | 0.0017 | 0.00175 | 0.00235 | 0.0033 | 0.0031 | 0.0028 | 0.00084 | 0.0033 | 0.0019 |
| Copper | mg/L | 0.20 | 0.002 | 0.002 | < 0.0010 | 0.002 | 0.002 | < 0.001 | 0.00102 | 0.0024 | 0.0016 | 0.0022 | 0.00227 | 0.00188 | 0.0024 | < 0.0020 | 0.0019 | < 0.001 | 0.0024 | < 0.0018 |
| Lead | mg/L | 0.20 | 0.002 | < 0.001 | < 0.0010 | < 0.001 < | 0.0005 | < 0.0005 | 0.00009 | 0.00014 | 0.00019 | 0.0003 | 0.00028 | < 0.00020 | < 0.0010 | < 0.0010 | < 0.0010 | 0.00009 | 0.00100 | 0.0006 |
| Mercury | mg/L | | 0.0002 | < 0.00005 | < 0.00005 | < 0.0001 < | 0.00005 | < 0.00005 | 0.00001 | < 0.00002 | < 0.00001 | < 0.00005 | < 0.00005 | < 0.00005 | < 0.00001 | < 0.00002 | < 0.000005 | < 0.000005 | < 0.0001 | < 0.0000 |
| Nickel | mg/L | 0.30 | 0.065 | 0.002 | < 0.020 | 0.002 | 0.002 | 0.001 | 0.00141 | 0.0023 | 0.0022 | 0.003 | 0.0026 | 0.0021 | 0.0034 | 0.0034 | 0.0045 | 0.001 | < 0.020 | < 0.004 |
| Zinc | mg/L | 0.30 | 0.030 | 0.007 | 0.0087 | 0.065 | 0.012 | 0.006 | 0.0086 | 0.0229 | 0.0301 | 0.0140 | 0.0504 | 0.0119 | 0.0140 | 0.0240 | 0.0320 | 0.006 | 0.065 | 0.022 |

() Laboratory replicate.
[] Results re-checked.
(E) Not analyzed
NR: Not recorded due to equipment malfunction
(1) WAD Cn reported for 2011
Bold values indicate CCME exceedence

CULLATON LAKE MINE

WATER ANALYSIS REPORT

STATION 940-24A - AREA OF SEEPAGE FROM QUARY PIT TO TAILINGS POND, 2003 - 2016

| Physical and General | Units | Water | CCME | July 29 | July 7 | Aug. 5 | Aug. 2 | July 5 | June 28 | Aug. 5 | Aug. 4 | Aug. 4 | | Aug. 15 | | Sept 3 | Sept 7 | MINIMUM | MAXIMUM | AVERAGE |
|--------------------------|------------|-----------|------------|---------|--------|--------|--------|--------|---------|--------|--------|--------|------|---------|------|--------|--------|---------|---------|---------|
| | | License | Guidelines | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | |
| pH (lab) | units | 6.0 - 9.5 | 6.5-9.0 | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Temperature | °C | | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Suspended Solids (105°C) | mg/L | 25.0 | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Total Cyanide | mg/L | 0.80 | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Total Hardness | mg CaCO3/L | | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Oil and Grease | mg/L | Visible | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Minor Cations | | | | | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.30 | 0.005 | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Copper | mg/L | 0.20 | 0.004 | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Lead | mg/L | 0.20 | 0.007 | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Mercury | mg/L | | 0.0002 | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Nickel | mg/L | 0.30 | 0.150 | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Zinc | mg/L | 0.30 | 0.030 | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |

() Laboratory replicate. [] Results re-checked. D: Dry

CULLATON LAKE GOLD MINES LTD. CULLATON LAKE MINE

WATER ANALYSIS REPORT

STATION 940-27A - AREA OF SEEPAGE FROM EWR TO SHEAR LAKE CREEK (1), 2003 - 2016

| Physical and General | Units | Water | CCME | July 29 | July 7 | Aug 5 | Aug 2 | July 5 | June 28 | Aug 5 | Aug. 4 | Aug. 4 | Aug. 2 | Aug. 15 | Aug. 12 | Sept 3 | Sept 7 | MINIMUM | MAXIMUM | AVERAGE |
|--------------------------|------------|-----------|------------|---------|--------|-------|-------|--------|---------|-------|--------|--------|--------|---------|---------|--------|--------|---------|---------|---------|
| | | License | Guidelines | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | |
| pH (lab) | units | 6.0 - 9.5 | 6.5-9.0 | | | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Temperature | °C | | | | | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Suspended Solids (105°C) | mg/L | 25.0 | | | | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Total Cyanide | mg/L | 0.80 | | | | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Total Hardness | mg CaCO3/L | | | | | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Sulphate | mg/L | | | | | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Minor Cations | | | | | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | 0.30 | 0.005 | | | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Copper | mg/L | 0.20 | 0.004 | | | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Lead | mg/L | 0.20 | 0.007 | | | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Mercury | mg/L | | 0.0002 | | | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Nickel | mg/L | 0.30 | 0.150 | | | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| Zinc | mg/L | 0.30 | 0.030 | | | D | D | D | D | D | D | D | D | D | D | D | D | | | |

⁽¹⁾ Station added in 2005 () Laboratory replicate. [] Results re-checked. D: Dry

Appendix 3 September 9, 2016 Thermistor Monitoring Results

THERMISTOR MONITORING RESULTS Station 940-21

Field notes for pit excavated on September 9, 2016 next to pit excavated in 2015 (immediately north of T4).

0 – 0.9m: till cover

0.9m - 1.27m: saturated tailings

1.27m: Permafrost



September 9, 2016 test pit next to (water ponded) 2015 pit with 1.27m probe bar.

Thermistor Reading - Test Pit Comparison

September 3, 2015 Test Pit Field Notes:

0 - 0.9m: till cover

0.9m - 1.42m: saturated tailings

1.42m: Permafrost

September 3, 2015 Thermistor readings (See Notes below)

| Depth (m) | T1 (°C) | T2 (°C) | T3 (°C) | T4 (°C) |
|-----------|---------|---------|---------|---------|
| 0.3 | NR(3) | NR(2) | NR(2) | NR(3) |
| 0.8 | NR(3) | NR(2) | NR(2) | NR(3) |
| 1.3 | NR(3) | NR(2) | NR(2) | NR(3) |
| 1.8 | NR(3) | NR(2) | NR(2) | NR(3) |
| 2.3 | NR(3) | NR(2) | NR(2) | NR(3) |
| 2.8 | NR(3) | NR(2) | NR(2) | NR(3) |

August 12, 2014 T4 Test Pit Field Notes:

0 -0.9m: till cover

0.9m -1.07m: saturated tailings

1.07m: permafrost

August 12, 2014 Thermistor Readings (See Notes Below)

| Depth (m) | T1 (°C) | T2 (°C) | T3 (°C) | T4 (°C) |
|------------------|---------|--------------------|---------|---------|
| 0.3 | NR(3) | 21.26 | 18.45 | NR(3) |
| 8.0 | NR(3) | Nr | 15.67 | NR(3) |
| 1.3 | NR(3) | 7.02 | 17.50 | NR(3) |
| 1.8 | NR(3) | 5.49 | 9.09 | NR(3) |
| 2.3 | NR(3) | 1.68 | 8.50 | NR(3) |
| <mark>2.8</mark> | NR(3) | <mark>-0.66</mark> | NR(3) | NR(3) |

Notes:

- (1) Thermistor readings are suspect and are included for comparison with test pit findings. High temperature readings for the top 2 sensors (0.3m and 0.8m) indicate they are above ground level and reflect daytime heating in the exposed black plastic casing.
- (2) Cable was not accessible.
- (3) Reading indicated open circuit.

Appendix 4 2017 Spill Response Plan

CULLATON LAKE ENVIRONMENTAL SPILL RESPONSE PLAN

COMPANY INFORMATION

Cullaton Lake Gold Mines Ltd. is wholly owned by Barrick Gold Inc. The Barrick head office responsible for the site is located at:

Barrick Gold Inc. BCE Place, Canada Trust Tower, Suite 3700 161 Bay Street, P.O. Box 212 Toronto, Ontario M5J 2S1

The site manager is:

Paul Brugger, Barrick Gold Inc. 1084 County Rd 8 Campbellford, Ontario K0L 1L0

Phone: 705-632-1871 Cell: 807-631-4895

e-mail: pbrugger@barrick.com

SITE LOCATION:

The Cullaton Lake property is located in the southern part of the District of Keewatin in the Nunavut Territory. The property is 250 km west of Arviat, NU, 400 km northwest of Churchill, Manitoba and 645 km north of Thompson, Manitoba. A topographic map is attached as Figure 1.

PROJECT HISTORY AND CURRENT ACTIVITY:

Cullaton Lake operated as an underground gold mine for four years from 1981 to 1985. Decommissioning and reclamation began in 1991 and was completed in 2001. By the end of 2001, all mine buildings had been removed, roads were decommissioned and the tailings impoundment area was reclaimed. No chemicals, fuels or reagents remain on site.

Present site activities consist of a one-day annual visit for inspection and monitoring purposes. The site is dormant and uninhabited for the remainder of the year.

REVISIONS AND EFFECTIVE DATE OF PLAN:

This plan was reviewed and revised on February 21, 2017 and is effective until March 31, 2018.

SPILL CONTROL AND REPORTING PROCEDURES:

Should it be necessary to mobilize contractors to the site for any reason in the future, the contractor will be required to supply spill control and clean up materials, have a spill control plan and train personnel in spill response procedures.

Upon discovery of a spill, the person discovering the spill will take the following actions:

INITIAL ACTIONS:

- a. Stop the flow if possible.
- b. Eliminate open flame ignition sources (i.e. extinguish cigarettes, shut off motors (from a remote location if surrounded by vapours).
- c. Contain flow of fuel by dyking, barricading or blocking flow by any means available. Use earth-moving equipment if available. A dam made of earth or other available fill can be quickly constructed to contain and prevent a spill from spreading. If the ground is permeable, it may be necessary to excavate a shallow depression and line it with plastic to prevent the spill from seeping away.

ACTION IN CASE OF FIRE:

- a. Use C0₂, dry chemical, foam or water spray (fog), although water may spread the fire.
- b. Use jet streams to wash away burning gasoline.
- c. Use fog streams to protect any rescue team and trapped people.
- d. Use water to cool surface of tanks.
- e. Divert the oil or gasoline to an open area and let it burn off under control. If the fire is put out before all the fuel is consumed, beware of re-ignition. Rubber tires are almost impossible to extinguish after igniting with fire. Remove vehicles with burning tires from the danger area.

RECOVERY PROCEDURE:

- a. Unburned oil or gasoline can be soaked up by sand and peat moss, or by commercial absorbents such as Graboil.
- If necessary, contaminated soil should be excavated and disposed of as per the following section.
- c. Fuel entering the ground can be recovered by digging sumps or trenches.

DISPOSAL:

- a. Evaporation may be used if appropriate.
- b. Disposal as per the approved Abandonment and Restoration (1996) Plan.

REPORTING:

An individual discovering a spill must report it as soon as possible to the 24 hour Spill Report Line by calling:

(867) 920-8130

- (1) A person reporting a spill shall give as much of the following information as possible:
 - date and time of spill
 - location of spill
 - direction spill is moving
 - name and phone number of a contact person close to the location of the spill
 - type and description of contaminant spilled including an estimate of the quantity
 - cause of spill
 - status of spill (i.e. continuing or stopped)
 - action taken to contain, recover, clean-up, and dispose of contaminant
 - name, address and phone number of person reporting the spill
 - name of owner, or person in charge or control of contaminant at time of spill
- (2) No person shall delay reporting a spill because of lack of knowledge of the factors listed in subsection (1).
- (3) The person reporting the spill shall also contact:
- INAC Manager of Field Operations at: (867) 975-4295
- Environment Canada at (867) 920-8130
- Government of Nunavut Environmental Protection at (867) 975-7700
- Kivalliq Inuit Association at (867) 645-5733 or 1-800-220-6581 Contact Stephen Hartman
- Barrick Gold Corporation :

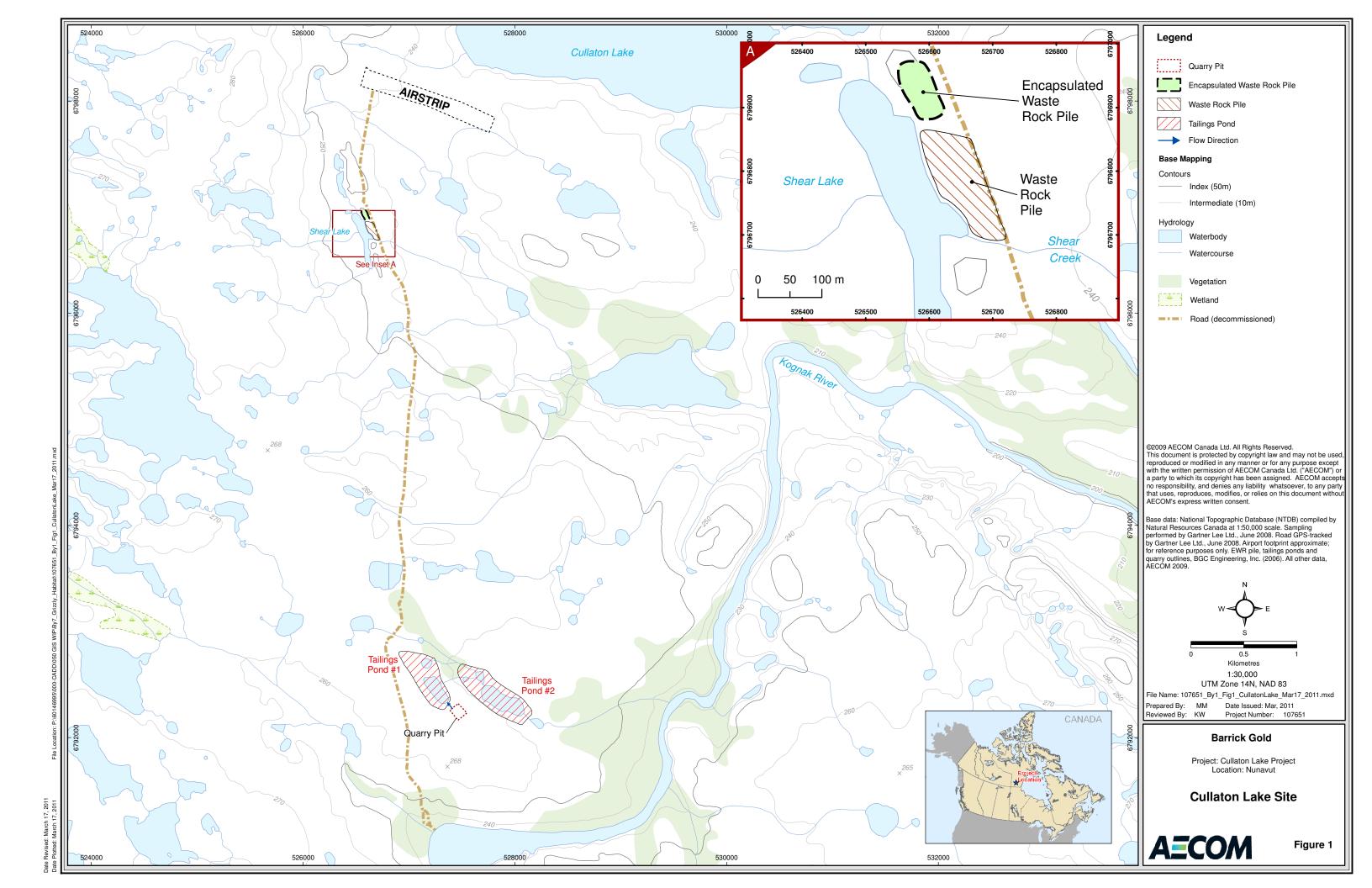
Paul Brugger, Site Manager

Phone: **705-632-1871** Cell: 807-631-4895

Alternate:

Walter Baumann, Manager, Closure Sites Phone: 702-522-6941 Cell: 801-244-3540

- If required:
 - RCMP Arviat at (867) 857-0123
 - Arviat Hospital at (867) 857-3100
 - Arviat Fire Response at (867) 857-9999
- (4) The attached NT-NU Spill Report will also be completed and submitted to the Nunavut spills reporting office at fax: (867) 873-6924 or email spills@gov.nt.ca



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS







NT-NU 24-HOUR SPILL REPORT LINE

| Tel: (867) 92 | 0-8130 • | Fax: (867) 8 | 73-6924 • | Email: spills@gov.nt.ca |
|---------------|----------|--------------|-----------|-------------------------|

| Tel: (867) 920-8130 ● Fax: (867) 873-6924 ● Email: spills@gov.nt.ca | | | | | | | | | | |
|---|---|--|----------------------|--|--|--|--------------------------------|--------|----------------------|--|
| Α | Report Date: | Report Tim | Report Time: | | Original Spill Report | | | | port Number: | |
| В | Occurrence Date: | Occurrenc | ence Time: | | OR Update # to the Original Spill Report | | | t | | |
| С | Land Use Permit Number (if applicable): | | | Wat | Water Licence Number (if applicable): | | | | | |
| D | Geographic Place Name or Distance and Direction from the Named I | | | | Location: Region: NT Nunavut Adjacent Jurisdiction or Ocean | | | | | |
| Е | Latitude: Degrees Minutes Sec | | | conds | Longitude: s Degrees Minutes Seconds | | | | | |
| F | Responsible Party or Vessel Name: Responsible Party Address or Office Location: | | | | | | | | | |
| G | Any Contractor Involved: | | | Contractor Address or Office Location: | | | | | | |
| Н | Product Spilled: Potential | Quantity in Litres, Kilograms or Cubic Metres: | | | | U.N. Number: | | | | |
| I | Spill Source: | Spill Cause: | | | | Area of Contamination in Square Metres: | | | | |
| J | Factors Affecting Spill or Recove | Describe Any Assistance Required: | | | | Hazards to Persons, Property or Environment: | | | | |
| К | Additional Information, Commer | nts, Actions Propo | sed or Taken | to Contain | , Recover or | Dispose of | Spilled Product and 0 | Contar | minated Materials: | |
| L | Reported to Spill Line by: Position: | | Employer | | : | | Location Calling From: | | Telephone: | |
| М | Any Alternate Contact: Position: | | Employer | | : Alte | | rnate Contact Location: | | Alternate Telephone: | |
| REPORT LINE USE ONLY | | | | | | | | | | |
| N | Received at Spill Line by: Position: | | Em | Employer: | | | Location Called: R | | Report Line Number: | |
| Lead Agency: EC CCG/TCMSS GNWT AANDC NEB Other: | | | GN ILA Significance: | | | | ☐ Minor File ☐ Major ☐ Unknown | | Status: Open Closed | |
| Agency: Contact Name: | | | Contac | Contact Time: | | | Remarks: | | | |
| Lead Agency: | | | | | | | | | | |
| First Support Agency: | | | | | | | | | | |
| Seco | ond Support Agency: | | | | | | | | | |
| Third | Support Agency: | | | | | | | | | |