APPENDIX 5-E

Evaluation of the Geochemical Properties of Waste Rock, Ore, Tailing, Overburden and Sediment from the Whale Tail Pit and Road Aggregate Materials

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AGNICO EAGLE

Golder Associates

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REPORT ON

Evaluation of the Geochemical Properties of Waste Rock, Ore, Tailing, Overburden and Sediment from the Whale Tail Pit and Road Aggregate Materials
Agnico Eagle Mines, Meadowbank Division

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Executive Summary

Agnico Eagle Mines Limited – Meadowbank Division (Agnico Eagle) is proposing to develop Whale Tail Pit (Project), a satellite deposit located on the Amaruq Exploration property. Agnico Eagle is proposing to continue mine operations and milling at the Meadowbank Mine and gain approval to extend Meadowbank Mine to include development of resources from Whale Tail Pit. Concurrent with the reconsideration of the Project Certificate by the NIRB, Agnico Eagle is seeking an amendment to the Meadowbank Mine Type A Water Licence (No. 2AM-MEA1525) to include mining of Whale Tail Pit and the construction and operations of associated infrastructure from the Nunavut Water Board (NWB).

The Amaruq property is a 408 square kilometre (km^2) site located on Inuit Owned Land approximately 150 kilometres (km) north of the hamlet of Baker Lake and approximately 50 km northwest of Meadowbank Mine in the Kivalliq Region of Nunavut. The deposit will be mined as an open pit (i.e., Whale Tail Pit), and ore will be hauled to the approved infrastructure at Meadowbank Mine for milling.

Mining facilities include accommodation buildings, two ore stockpiles, one overburden stockpile, one rock storage facility area planned to receive waste rock and waste overburden, a water management system that includes collection ponds, water diversion channels, and retention dikes/berms, and a Water Treatment Plant.

The proposed open pit mine, mined by truck-and-shovel operation, will produce 8.3 million tonnes (Mt) of ore, 46.1 Mt of waste rock, and 5.6 Mt of overburden waste. There are four phases to the development: one year of construction, three to four years of mine operation, seven years of closure, and the post-closure period.

Agnico Eagle mandated Golder to evaluate the geo-environmental properties of geological materials that will be disturbed by mining of the Whale Tail Pit; namely, waste rock, ore, tailings produced by milling of the ore, overburden and Whale Tail Lake sediments in the footprint of the proposed open pit. Potential road construction materials (esker material and Vault waste rock) were also evaluated (Golder 2015; Appendix A) and results are included in this report. This study investigates the potential of these materials to generate acidic rock drainage (ARD) and to release metals (metal leaching, or ML) to the receiving environment in the short and long term, within the context of the site climate and proposed mine management plans.

This report presents the results of the geochemical characterization program completed to date. The tests include chemical analyses and kinetic weathering tests. Kinetic tests are on-going on samples of waste rock and ore from the deposit. A kinetic weathering test on the one waste rock sample and one tailings sample was stopped after 44 weekly cycles of leaching.

Site Geology

The main lithological units that will be mined include: ultramafic komatiites, sedimentary rocks (greywacke, iron formation and chert), mafic volcanic rocks and felsic to intermediate intrusive rocks. The Whale Tail deposit mineralization is low sulphur but the sulphur carries arsenic which is enriched in all waste rock types along with antimony and bismuth. In addition to arsenic, chromium and nickel enrichment is observed in ultramafic, iron formation and mafic volcanic waste rock.

Waste rock

The majority (73%) of waste rock to be generated by mining is low sulphur and not potentially acid generating (non PAG), including: ultramafic, iron formation, mafic volcanic, southern greywacke and intermediate intrusive waste rock. This is from low sulphur content and excess carbonate-mineral (reactive) buffering capacity. A limited number of samples from the ultramafic and iron formation units are PAG but the bulk of these lithologies carry sufficient reactive carbonate buffering capacity to neutralize any acidity that could be generated from these samples.

Arsenic is the principal element of environmental interest in Whale Tail mining wastes. No other element is systematically released in leachate from any rock type, tailings, ore or sediments at concentrations that exceed the Meadowbank effluent limits. Arsenic is released at concentrations that exceed the Meadowbank effluent limits from the non PAG rock ultramafic and iron formation lithologies, which comprise approximately 46% of the waste rock to be generated by mining, or 63% of the non PAG waste rock at Whale Tail Pit. The mafic volcanic lithology can leach elevated arsenic at the contact with the ultramafic and greywacke units, but the bulk of the samples are low arsenic. The exceedances noted in static and kinetic leaching tests do not necessarily mean that water contacting this rock at site will necessarily exceed the comparative criteria because conditions at site differ substantially from the aggressive leaching conditions of the laboratory tests. This does suggest, however, that arsenic is likely to be released from this rock upon contact with water and that this drainage should be captured and monitored before discharge to the receiving environment. The ore and lithologies that host to the ore, namely central greywacke and chert waste rock, are PAG. They represent 27% of waste rock to be generated by mining. The central greywacke samples (within the mineralized zone) are more silicified than the southern greywacke unit (outside the mineralized zone). Based on results to date, a total sulphur content of 0.1 wt% appears to be a suitably conservative cut-off criteria below which chert and greywacke waste rock are non PAG. Samples above 0.8 wt% are PAG. The ARD potential of samples having 0.1 to 0.8wt% sulphur is uncertain.

Kinetic leaching tests performed on 1-kg samples and on large bulk lithological samples corroborate results of static testing. Only one of the three PAG greywacke samples generated acid rock drainage (ARD) during testing. This sample represents a high-tier ARD potential end-member of this unit (high sulphur, low buffering capacity). Theoretical mineral depletion calculations and consideration of the field time equivalency of laboratory kinetic tests infers the PAG rock will not begin to generate ARD at site for more than a decade, as a minimum, if no ARD control mechanisms were put in place. This period of time is substantially longer than the 4 years of mine construction and operations. Accordingly, ARD control mechanisms will be implemented at the end of mining operations, during the closure period. The possible exception being the upper tier high sulphur – low buffering capacity greywacke or chert rock, which may require ARD or metal leaching control during operations. Existing operations at Vault Pit, a satellite deposit currently in operation at the Meadowbank Mine show little to no drainage or seepage from the Vault waste rock storage facility, thus Whale Tail Waste Rock Storage Facility drainage control is not expected to be an issue.

Mine Site Construction Rock

Early mine development rock from the Whale Tail deposit (intermediate intrusive, southern greywacke waste rock and mafic volcanic rock away from the greywacke and ultramafic units) is being considered for use as infrastructure construction material on the mine site. These units are non PAG and leach relatively low levels of arsenic. These materials appear suitable for use in construction based on testing completed as part of this

study. As a precaution, monitoring will continue to evaluate the sulphur content of the south greywacke waste rock and Agnico Eagle will avoid rock that contains more than 0.1 wt% sulphur. Mafic volcanic rock proximal to the ultramafic and greywacke contacts will also be avoided.

Based on the aggressive laboratory leaching tests completed to date, the ultramafic and iron formation waste rock may not be suitable for construction in areas where the rock will be in contact with water because of the potential to release arsenic in leachate. The actual leachability of these materials will be verified under site conditions prior to use.

Ore and Tailings

The ore and tailings are enriched in arsenic, antimony, bismuth, selenium and silver, and are slightly enriched in chromium. Copper is elevated in tailings but given its low levels in ore and waste rock, this may reflect copper sulphate addition during the cyanide destruction process. Process water quality exceeds the Meadowbank effluent limits for ammonia, arsenic and total cyanide.

Ore and tailings are PAG due to their elevated sulphur content and low buffering capacity; however, kinetic leaching tests showed sustained buffering capacity over 10 to 44 weeks of leaching. Both ore samples leached concentrations that exceeded one or both Meadowbank effluent limits for arsenic. No other exceedances are noted. Mineralogical depletion calculations indicate a fairly long delay to the possible initiation of ARD. Given that ore storage at the Whale Tail site is temporary (it will be transported to the Meadowbank mill and ultimately report to tailings at the Meadowbank area), ARD is not expected to require control during mine construction and operations. However, for this reason Agnico Eagle has planned to stockpile or store ore at the Whale Tail Pit site in areas within the drainage area of the attenuation pond. If ore were to be stockpiled permanently; the material would require means to control oxidation and ARD in the long term.

The tailings sample showed neutral pH, low conductivity and sulphate concentrations over 44 weeks of accelerated kinetic weathering test. Metal and arsenic concentrations remained below both the Portage and Vault effluent criteria throughout testing. The cell was terminated after 44 weeks having reported steady state conditions and exceeded the anticipated exposure period of tailings at site. The maintenance of neutral pH despite the solid sample having no buffering capacity may be due to the presence of lime added to the tailings slurry in metallurgical processing. It is expected that this added buffering capacity will eventually be consumed, after which the tailings may start to oxidize and develop acidic conditions, as suggested based on mineral depletion calculations.

Tailings are expected to require ARD control in the long term. Consideration will be given to avoiding the prolonged exposure of the tailings to prevent the development of localized acidification. The Medowbank TSF is designed with such long term controls, namely the placement of a capping layer to isolate the underlying tailings from exposure to the surrounding environment.

Whale Tail tailings contact water and process water is likely to require capture and monitoring of quality prior to discharge if the Whale Tail ore is processed by itself (not mixed with ore from other deposits).

Overburden and Lake Sediment

The shallow overburden is non PAG based on the low sulphide sulphur content. The arsenic content is low, and its leachable arsenic content is below CCME aquatic life in laboratory tests. This material has a suitable chemistry for use as construction materials; however, the fines portion of the samples could be amenable to

erosion and transport as suspended solids in contact water. This, along with the chemistry and leachability of deep overburden, will be monitored prior to its use where it would be exposed to runoff.

The five lake sediment samples tested are non-acid generating. However, the lake sediment samples are enriched in arsenic, and the arsenic is somewhat leachable; three of the five samples have short term test leachate concentrations that are above the effluent limit for Vault.

Exploration Road Construction Materials

All esker samples tested from potential borrow sources show no potential to generate ARD and all release low concentrations of chemical constituents (within one order of magnitude of the CCME aquatic life criteria).

Vault Pit waste rock has variable ARD potential, depending on the sulphur content of the sample analyzed. The current operational sampling plan is effective at defining the ARD potential of waste rock being extracted from the open pit and as such, can be relied upon to identify non PAG rock for construction use. Furthermore, grab samples from the existing non PAG waste rock stockpile adjacent to the Vault Pit confirm that this material is non PAG and suitable for construction use. However, one sample from the non PAG area was identified as having an uncertain ARD potential due to its higher sulphur content. Using both the total sulphur and CaNPR segregation criteria will help to optimize the effectiveness of the on-going segregation program.

Arsenic leaching from Vault Pit waste rock is not expected to pose a risk to the environment because of the small quantity of rock that will be exposed along the road corridor, especially considering that the majority of the top layer will be sourced from natural eskers. The quality of road contact water will be monitored during road construction.

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1.0 INTRODUCTION

Agnico Eagle Mines Limited – Meadowbank Division (Agnico Eagle) is proposing to develop Whale Tail Pit (Project), a satellite deposit located on the Amaruq Exploration property. Agnico Eagle is proposing to continue mine operations and milling at the Meadowbank Mine and gain approval to extend Meadowbank Mine to include development of resources from Whale Tail Pit. Concurrent with the reconsideration of the Project Certificate by the NIRB, Agnico Eagle is seeking an amendment to the Meadowbank Mine Type A Water Licence (No. 2AM-MEA1525) to include mining of Whale Tail Pit and the construction and operations of associated infrastructure from the Nunavut Water Board (NWB).

The Amaruq property is a 408 square kilometre (km^2) site located on Inuit Owned Land approximately 150 kilometres (km) north of the hamlet of Baker Lake and approximately 50 km northwest of Meadowbank Mine in the Kivalliq Region of Nunavut (Map 1). The deposit will be mined as an open pit (i.e., Whale Tail Pit), and ore will be hauled to the approved infrastructure at Meadowbank Mine for milling.

Mining facilities include accommodation buildings, two ore stockpiles, one overburden stockpile, one rock storage facility area planned to receive waste rock and waste overburden, a water management system that includes collection ponds, water diversion channels, and retention dikes/berms, and a Water Treatment Plant.

The proposed open pit mine, mined by truck-and-shovel operation, will produce 8.3 million tonnes (Mt) of ore, 46.1 Mt of waste rock, and 5.6 Mt of overburden waste. There are four phases to the development: one year of construction, three years of mine operation, seven years of closure, and the post-closure period.

As part of baseline data collection in support of the Environmental Review for the Project, Agnico Eagle mandated Golder Associates (Golder) to carry out an evaluation of the geochemical properties of geological materials that will be displaced by mining of the Whale Tail Pit; namely, waste rock, ore, tailings produced by milling of the ore, overburden and Whale Tail Lake sediments within the footprint of the pit. Potential road construction materials (esker material and Vault waste rock) were also evaluated (Golder 2015; Appendix A) and results are included in this report. This study investigates the potential of these materials to generate acidic rock drainage (ARD) and to release metals (metal leaching, or ML) to the receiving environment in the short and long term, within the context of the site climate and anticipated mine management plans.

This study was completed in a phased approach. Phase 1 consisted of the collection of core samples by Agnico Eagle staff from existing exploration boreholes drilled mostly within the west part of the Whale Tail Pit. Phase 2 included the analysis of assay reject materials from an analytical laboratory, including samples that originated mostly from the eastern part of the Whale Tail Pit, and the collection of a tailings sample from mineral processing tests directed by Agnico Eagle. The Phase 3 investigation consisted of collecting waste rock and available ore samples from existing exploration boreholes, overburden, and lake sediment samples from within the footprint of the Whale Tail Pit. The third stage of sampling targeted spatial and lithological data gaps from the first two stages, and was completed by Golder personnel, except for lake sediment samples which were collected by Azimuth Consulting.

This report describes the geology of the deposit, the sampling and analytical methods used to characterize the geochemical properties of the mined and borrow materials, and presents the results the static tests and on-going kinetic leaching tests on tailings, ore and waste rock. The results serve to identify the predominant geo-environmental trends of the materials, on the basis of which appropriate mine waste and water management plans will be developed.

1.1 Information Reviewed

Background information on the geology, mineralogy, and chemistry of rock types present at the site was extracted from the following documentation provided by Agnico Eagle:

- Project Description, Whale Tail Deposit, Nunavut (Agnico Eagle 2015);
- Whale Tail Ore Types & Lithology Summary;
- Mine plan provided by Agnico Eagle - *6108_PJS-002_R3.xlsx* received by Golder on February 22, 2016; and,
- Geological cross-sections, borehole logs and maps.

A previous report on the geochemical characterization program of potential road fill materials for the Whale Tail access road (Golder 2015) is referenced in this study and excerpts are included in this report for completeness. The full report on the geochemical characterization program of potential road fill materials for the Whale Tail access road is included in Appendix A.

Other information on mine planning, mineral processing and mine waste management was collected via discussions and email exchanges with Agnico Eagle staff and Whale Tail Project team members during this study.

1.2 Regional and Site Geology

The following summary is adapted from the Agnico Eagle lithology summary provided by Agnico Eagle staff.

1.2.1 Regional Geology

The Amaruq property is underlain by Archean supra crustal rocks of the metamorphosed Woodburn Lake Group; the same sequence as at the Meadowbank Mine. These rocks are believed to have been deposited in a continental rift setting. They are comprised of mafic to ultramafic volcanic and volcaniclastic rocks interlayered with clastic sedimentary units that include greywacke, siltstone, mudstone, banded iron formation, and chert. This rock sequence has been intruded by granitoid rocks and lamprophyres, and underwent multiple deformation events and metamorphism to the upper greenschists facies. There are four Paleo-Proterozoic aged events of deformation recognised, two of which have significant effects on the geometry of the deposit.

1.2.2 Site Geology

The main lithological units associated with the Whale Tail deposit include: ultramafic komatiites, clastic sedimentary rocks, mafic volcanic rocks and felsic to intermediate intrusive rocks. These lithologies are briefly described as follows:

Ultramafic (V4a) – Komatiite – There are two main units that are grouped into this lithology: komatiite (geological code 0a) and a transitional komatiite (0b); for the basis of this report both are referred to as ultramafic rocks. The 0a unit can host mineralization and bounds the deposit on the northern part of the open pit, while the 0b unit is on the south side of the open pit. Both units are commonly altered with a talc-chlorite-carbonate package and are often deformed. The transitional ultramafic rock is distinguished based on whole rock chemistry, which is intermediate between the calc-alkaline and tholeiite units.

Clastic Sedimentary (3b) – Greywacke and Mudstone (S3) – This unit is dominantly comprised of greywacke (S3) that is dominantly present in the southern portion of the deposit (S3S) and centrally between the two ultramafic units mentioned above (S3C). There is a small northern unit (S3N), but this unit falls outside the pit outline and was not a part of this study. The S3C unit has varying amounts of silica, which was noted during sample collection by Golder but is not defined in the geological model.

Chemical Sediments (3b) - Chert (S10) – Predominantly located within or proximal to the ore zones and is sometimes interbedded with greywacke. This unit has some graphitic lenses, mostly associated with mudstone lenses. The chert unit is host to some of the economical mineralization which is noted by an increase in quartz veining and general silicification. In rocks related to the mineralization, the host sedimentary fabric is no longer distinguishable.

Chemical Sediments (3b) - Iron Formation (S9) – This is a hard, dense and banded unit comprised of two sub units: a sulfide facies Iron Formation (S9E) and a silicate facies Iron Formation (S9D), which cannot be distinguished chemically. The formation of this rock is interpreted as the subaqueous deposition of sediments associated with the V4_0a unit. The iron formation commonly contains many alteration-related minerals (calcite, amphiboles and chlorite) and can sometimes be harder than the ultramafic unit due to silicification. This unit can also be weakly to strongly magnetic closer to the mineralized zones because of the minerals present as part of the alteration package. Carbonate veins and veinlets, which sometimes contain pyrrhotite, are often present within this unit.

Mafic Volcanic (V3; 1b) – This basalt unit has a very similar colour and texture to greywacke (S3). The contact between the two units is diffuse and gradational; whole rock analyses are needed to properly distinguish these two units.

Intermediate Intrusive (I2; 8b) – This unit is located in the southern and eastern part of the development. It consists mostly of diorite, which is commonly porphyritic with medium sized grains of plagioclase that are often sheared and flattened. It is non-altered and non-mineralized.

1.2.3 Overburden Composition

Overburden in the Whale Tail Pit area is expected to be similar to that of the Meadowbank Mine. At the Meadowbank Mine, overburden consists of glacial till having an average thickness of 2.75 m, with local deposits over 10 m thick (CRL 2003). The glacial till varies from silty sand to gravel with minor boulders (Golder 2002). In a previous report (Golder 2005), overburden is described as silty to sand-sized with 25 to 50% pebble to boulder-sized particles. These data have been confirmed during the construction of the Meadowbank Mine from 2008 to 2010. Where sampled at Whale Tail Pit (in July), the overburden was frozen below 1 meter depth, and samples were collected in the surficial unfrozen zone only.

1.2.4 Whale Tail Mineralization

Three different mineralization styles are present at the Whale Tail deposit. The first style is associated with pyrrhotite-amphibole-carbonate layers, lenses or disseminations within the silicate-sulfides iron formation (S9E). The second style is characterized by silica flooding with presence of pyrrhotite, arsenopyrite and local pyrite, contained in chert-rich levels within a sediment sequence. The third style is associated with decimeter to several meters, quartz-galena-sphalerite-chalcopyrite-native gold veins cutting through the entire Whale Tail rock sequence. Mineralization within the Whale Tail deposit is widely dispersed in the western part, where multiple chert horizons are distinguished. Toward the east, the ore zones merge together. In all three style of mineralization, gold is

associated with pyrrhotite or arsenopyrite, as inclusions or grains along fractures, or as free gold in a quartz-rich matrix.

1.3 Whale Tail Mine Plan

This section describes the mine plan at the time of report preparation. Approximately 8.3 million tonnes (Mt) of ore will be extracted from the Whale Tail Pit, producing approximately 46.1 Mt of waste rock and resulting in the removal of 5.6 Mt of overburden from the open pit footprint (Table 1). The geochemical characterization study and sampling plan for the Project were designed based on an open pit scenario generating 51.7 Mt of waste and 8.3 Mt of ore (*6108_PJS-002_R3.xlsx* dated February22, 2016, from Agnico Eagle).

Table 1: Proportions of Waste Rock and Overburden to be Mined from the Whale Tail Pit

Lithology	Chemical Code	Rock Code	Waste (t)[a]	Waste %
Ultramafic	V4a	0a	7,839,953	17%
Transitional Ultramafic	V3-V4	0b	6,292,816	14%
		Sum of Ultramafic	**14,132,768**	**31%**
Greywacke	3b	S3C	3,167,882	7%
	3b	S3S	9,707,441	21%
		Sum of Greywacke	**12,875,323**	**28%**
Chert	3b	S10	9,069,203	20%
Iron Formation	3b	S9E	7,080,011	15%
Mafic Volcanic	V3	1b	2,324,150	5%
Intermediate Intrusive	I2	8b	622,937	1%
		Sub Total	**46,104,394**	**100%**
Overburden			5,618,359	-
		Total	**51,722,752**	-

Note: [a] Individual tonnages may not sum to the total due to rounding
Source: Agnico Eagle, personal communication, February 2016.

1.3.1 Mining Schedule and Technique

The Whale Tail deposit will be mined by open pit. The life of mine for the Whale Tail Pit is expected to be eleven (11) years including one (1) year of construction, three (3) to four (4) years of operations, and seven (7) years of closure (Volume 1, Section 1.4). Mining is expected to begin in June 2018 with the first ore being extracted in Q4 2018. A summary of the expected mine life materials balance for the purposes of the assessment is provided in Table 2.

Table 2: Summary of Mine Life Materials Balance (February 2016)

Year	Ore Mined	Waste Mined*	Ore Stockpiled	Ore Stockpile Balance
	tonnes			
2018	160,020	2,899,672	160,020	160,020
2019	2,289,976	17,916,444	647,476	807,495
2020	3,352,314	21,585,794	67,314	874,809
2021	2,476,834	9,320,843	- 808,166	66,644
2022			- 66,644	-
Total	**8,279,144**	**51,722,753**	-	-

Note: * Includes overburden. Individual tonnages may not sum to the total due to rounding.
Source: Agnico Eagle, personal communication, February 2016.

1.3.2 Management of Mine Waste Materials

It is expected that waste rock and overburden will be co-disposed in the Whale Tail Waste Rock Storage Facility adjacent to the north-west of the Whale Tail Pit. A smaller stockpile of esker material will be located west of the Attenuation Pond for possible use as construction material.

Ore will be temporarily stockpiled on three ore pads located north-east and west of the proposed Attenuation Pond. It will be trucked to the Meadowbank milling facility for processing. Tailings will be deposited in the Meadowbank Tailings Storage Facility (TSF).

1.3.3 Waste Rock for Use as Construction and Closure Material

During the first year of operations, Agnico Eagle plans on developing one quarry (Quarry 2) from which they will obtain suitable construction rock (i.e. non PAG and non-leachable). This quarry is located within the west side of the deposit and is part of the ultimate open pit outline.

Lithologies anticipated to be used for construction and closure include southern greywacke (S3S or 3bS), mafic volcanic (V3 or 1b) and intermediate intrusive (I2 or 8b).

1.3.4 Access Road Construction Materials

Agnico Eagle proposes to expand the 64-km exploration access road from the Meadowbank Mine to the Whale Tail Pit to accommodate hauling of ore to the Meadowbank Mill. Fill and road surface materials will continue to be sourced from esker materials along the road alignment and from Meadowbank Mine Vault Pit waste rock, which is non-acid-generating (non PAG).

The amount of material (both from eskers and the Vault Pit) required to build the exploration access road is estimated at 718,229 tonnes (Agnico Eagle, 2015b). The expansion of the access road will be sourced from the same locations and within the same footprint. Vault Pit waste rock will continue to be used for the road base and possibly for the surface for the 16 km segment closest to the Vault Pit.

2.0 SAMPLE COLLECTION AND TEST METHODS

2.1 Sample Selection and Collection

This section summarizes the sampling and analytical programs completed for the geo-environmental characterization study, which was completed in three phases. The geology of the deposit was re-interpreted between Phase 2 and Phase 3 sampling rounds, and some borehole intervals already collected were re-logged as different lithologies; mostly between chert and central greywacke but also for two samples of mafic volcanic (one laboratory reject sample which was originally logged as greywacke and another now substantially closer to the UM 0b contact than previously defined). The lithology of each sample discussed in this report reflects the new geological interpretation. Cross-sections illustrating the location of borehole sample intervals are included in Appendix B. The sections show some differences between the apparent lithology of some samples on cross-section and the lithology stated in the tables for the same sample. This is an artefact of projecting lithological contacts and borehole intervals on the cross-section. The tabulated lithologies are considered to be more accurate than the graphical interpretations on sections.

2.1.1 Waste Rock and Ore Samples

The sampling plan for Whale Tail Pit waste rock considered MEND (2009) guidance, which recommends that the number of samples collected and analyzed be volumetrically representative of each lithology of waste rock to be mined.

Agnico Eagle personnel completed the sample collection for Phases 1 and 2 under the guidance of Golder. Samples were sent to the laboratory directly without viewing by Golder. Phase 3 sampling of waste rock and overburden was completed by Golder during a site visit in July 2015. An additional 10 ore and 2 waste rock samples were subsequently collected by Golder in December 2015. The Golder personnel that developed the sampling plan and collected the samples are registered professional geologists in Nunavut.

For Phase 3, Golder geochemists reviewed geological cross-sections through the Whale Tail Pit to target sample intervals that represent each lithological unit to be removed and exposed by mining. Sampling of waste rock was focused on obtaining spatial and compositional representation of each lithology. Overall, samples were collected from areas within the open pit footprint, just below the pit outline, and along the planned open pit walls. Table 3 presents the number of waste rock and ore samples collected compared to the total tonnage of waste materials expected to be generated by mining.

Table 3: Anticipated Tonnage of Tailings and Mined Materials and Sample Count

Rock Name	Rock Code	Estimated Tonnage[a]	Proportion of Total Tonnage (%)	# of Samples Collected			% of Samples Collected
				Phases 1 and 2	Phase 3	Total All Phases	
Ultramafic	0a	7,839,953	17%	12	9	21	13%
	0b	6,292,816	14%	10	4	14	9%
Iron Formation	S9E	7,080,011	15%	10	12	22	13%
Greywacke	S3C	3,167,882	7%	20	23	43	26%
	S3S	9,707,441	21%	10	13	23	14%
Chert	S10	9,069,203	20%	-	14	14	9%
Mafic Volcanic	1b	2,324,150	5%	5	3	8	5%
Intermediate Intrusive	8b	622,937	1%	2	3	5	3%
Ore	various	8,279,144	-	1	12	13	8%
Tailing	mixed		-	1	-	1	-
Total		**54,383,538**	100%	**71**	**93**	**164**	100%

Note: [a] Individual tonnages may not sum to the total due to rounding

Each sample of waste rock and ore collected by Golder was described in terms of rock type, estimated sulphide content and mineralogy, alteration, and staining associated with sulphide mineral oxidation. For samples collected as part of Phase 3, each sample consisted of a composite of 3 to 5 kilograms of core (whole or split) collected from previously drilled diamond drill core over an interval of up to 10 metres. The total length of the sample interval was intended to represent a nominal bench height, and to circumvent the effect of mineral clusters, particularly sulphide minerals and calcite or silica veins.

All waste rock and ore samples were sent to SGS Canada Inc. (SGS) in Lakefield Ontario for geochemical testing, as summarized in Appendix C.

2.1.2 Tailings and Process Water Samples

One sample of metallurgical processing wastes (tailings) and its process water were retained from test work conducted by Agnico Eagle. The ore used to generate a representative composite of the Whale Tail Pit tailings material analyzed in this study is presented in Table 4.

Table 4: Summary of Ore Zones Used to Generate a Representative Composite of Tailings Material

Host Rock	Description	Major Ore Zone[1]	Total Ore Removed over LOM (t)	Total Ore Removed over LOM (%)	Proportion of Ore Zone Used to Generate Tailings Sample
S10	Reflects mineralization associated with quartz veining and silica flooding hosted in greywacke and chert within the western part of the Whale Tail deposit	S3-QZ	3,322,778	40%	50%
V4a/S9E	Associated with pyrrhotite and carbonate veining in chert (silicate-rich greywacke) and iron formation, centrally located within the Whale Tail deposit	V4_Alt	4,186,347	51%	25%
Various – East Part of Deposit	Mineralization associated with high grade quartz veining in the eastern part of the Whale Tail deposit	HGZ	770,019	9%	25%
		Total	***8,279,144***	***100%***	

Source: 1 - Agnico Eagle, personal communication, November 2015.
LOM = Life of Mine; HGZ – High Grade Zone

2.1.3 Overburden and Lake Sediment Samples

Table 5 presents the number of overburden and lake sediment samples collected, as well as the total tonnage of overburden expected to be excavated for mining of the Whale Tail Pit.

Table 5: Overburden and Lake Sediment Sample Count

Rock Name	Estimated Tonnage to be Removed[1]	Estimated Proportion of Total Tonnage of Waste (%)[2]	# of Samples Collected
Overburden	5,618,359	10%	12
Lake Sediment			5
Total	**5,618,359**	**10%**	**17**

Notes:
[1] Tonnage of Lake Sediment is not available but expected to be a minimal proportion compared with the overburden, with which it will be removed during operations.

[2] Based on the total tonnage of all waste types reporting to the Whale Tail Waste Rock Storage Facility.

Overburden samples were collected in 2015, with sampling locations shown on Map 2. Samples were collected by Golder using a metal shovel to a depth that was limited by the presence of large boulders and/or frozen ground conditions. Each overburden sample consisted of approximately 5 kg of material, and was described in terms of texture, colour and water/ice content.

Five lake sediment samples were collected in 2015 from within the footprint of the proposed open pit, in the north basin of Whale Tail Lake (Map 2). Samples were collected in 125 mL glass sample jars by Azimuth Consulting personnel from a boat using a Petite Ponjar instrument. Each sediment sample consisted of a homogenized composite sample of two Ponjar grabs from approximately the top 0.10 m of sediment. The top 3 to 5 cm of

sediment from each grab was retained, homogenized in a stainless steel bowl and analyzed for total metals, total organic carbon (TOC), grain size, moisture content, and pH at ALS Environmental in Vancouver, BC under the direction of Azimuth Consulting. The lower portion of the sample (below ~ 5 cm) was retained, homogenized and subject to analysis at ALS and SGS for chemical composition, acid-base accounting (ABA) and static metal leaching tests (SFE) at Golder's request.

2.1.4 Road Construction Material Samples

A study was completed to assess the chemical characteristics of the esker material and the Vault waste rock that are targeted for use in road construction to the Whale Tail Pit. The study report is included in Appendix A. A summary description of the report is provided hereafter.

Twenty four (24) samples were collected from six eskers by Agnico Eagle staff with input from Golder. Five samples each were collected from Esker 1 and 3, four samples each were collected from Esker 2, 5, and 6, and two samples were collected from Esker 4. All samples were described as sand to gravel with sand based on grain size analysis (Agnico Eagle, personal communication, November 10, 2014).

Existing geochemistry data from the Vault Pit operational database were used for this assessment. The data included results on sulphur and carbon content for approximately 11,200 blast hole samples obtained by Agnico Eagle from Leco furnace analysis at the Meadowbank Mine. Database information is described in the report included in Appendix A. These results were complemented by test results from confirmatory duplicate samples submitted to an external laboratory (SGS) by Agnico Eagle as part of their quality control - quality assurance (QA/QC) program over the period of Q4-2014 to Q1-2015. In addition, 17 grab samples were collected from the non PAG and PAG Vault waste rock stockpiles adjacent to the Vault Pit, from which some of the construction rock may be sourced.

Esker samples were packaged by Agnico Eagle staff and shipped to SGS for geochemical testing, which included chemical composition, ABA and SFE.

2.2 Test Methods

The test program incorporated standard geochemical test methods to characterize the chemical composition and ARD/ML potential of the different material types expected to be generated from mining. The testing program included the following analyses:

- Mineralogical identification: by X-ray diffraction and Rietveld pattern analysis on a subset of greywacke waste rock samples, and by Scanning Electron Microscopy (SEM) and optical mineralogy on a subset of iron formation and ultramafic rock.
- Chemical composition through whole rock (XRF) analysis for major elements, and through inductively coupled plasma-mass spectroscopy (ICP-MS) for trace element chemistry preceded by 4-acid digestion.
- ARD potential through ABA testing by the Modified Sobek method (MEND 2009).
- Sequential Net Acid Generation (NAG) pH tests on a subset of waste rock samples and on the tailings sample (Amira 2002 Method).

- The following leaching tests on solids:
  - i) readily leachable metals through short-term leach testing by a modified version of the shake flask extraction test (SFE; Modified ASTM D3987).
  - ii) Sequential NAG leaching tests. Samples selected for this testing are the same as selected for the Sequential NAG pH testing mentioned above.
  - iii) Kinetic leaching tests, including:
    - (a) eight 1-kg humidity cell tests (HCTs; ASTM method D5744) on waste rock samples.
    - (b) two 1-kg humidity cell tests (HCTs; ASTM method D5744) on ore samples.
    - (c) one 1-kg humidity cell test (HCTs; ASTM method D5744) on the tailings sample.
    - (d) seven 26-kg to 60-kg large column leaching tests on single lithology bulk composite samples.
    - (e) one 41.5 kg submerged leaching column on a bulk composite sample of the ultramafic and iron formation lithologies.
- Metallurgical process water chemistry:
  - pH, alkalinity, carbonate and bicarbonate, conductivity, cyanide (total, free and WAD), cyanate (CNO) and thiocyanate (CNS).
  - Anions: chloride (Cl), sulphate (SO_4), nitrite (NO_2), nitrate (NO_3), bromide (Br), ortho-phosphate (P), fluoride (F), total ammonia (NH_3+NH_4).
  - Dissolved Metals: silver (Ag), aluminum (Al), arsenic (As), boron (B), barium (Ba), beryllium (Be), bismuth (Bi), calcium (Ca), cadmium (Cd), cobalt (Co), chromium (Cr), chromium VI [Cr(VI)], copper (Cu), iron (Fe), potassium (K), lithium (Li), magnesium (Mg), manganese (Mn), molybdenum (Mo), sodium (Na), nickel (Ni), phosphorus (P), lead (Pb), antimony (Sb), selenium (Se), silicon (Si), tin (Sn), strontium (Sr), titanium (Ti), thallium (Tl), uranium (U), vanadium (V), zinc (Zn), and mercury (Hg).

All chemical tests and analyses were performed at the SGS laboratory, except for the tests on lake sediment samples, which were performed at ALS. Geochemical test methods are discussed in the next sections.

2.2.1 Mineralogical Analyses

Five (5) samples of greywacke and two (2) samples of chert waste rock were selected for mineralogical analysis by X-Ray Diffraction (XRD) and XRD pattern interpretation by Rietveld method at SGS Minerals in Lakefield, ON. Rietveld interpretation allows for a quantitative evaluation of the crystalline mineral phases to approximately 1%. Mineral phases present in concentration between 1% and 0.5% can be identified but quantification is imprecise. XRD does not detect amorphous mineral phases.

This analysis was used to identify and quantify minerals that provide buffering capacity and acidification potential to the samples in order to help define the propensity for acid generation from the lithologies tested. Samples were selected based on their sulphur content and on the difference between the carbonate mineral buffering capacity and bulk buffering capacity, which includes non-carbonate buffering minerals such as alumino-silicates (Section 2.2.3).

Two samples of iron formation waste rock and one sample of ultramafic rock were observed by SEM, which focussed on identifying arsenic-bearing mineral phases and mapping arsenic content in the different mineral phases. Unlike XRD, this is not a quantitative mineralogical assessment. Samples were selected based on their elevated leachable arsenic content relative to (lower) total arsenic content. Optical mineralogy was also completed at the Université du Québec en Abitibi-Témiscamingue (UQAT) on these three samples to assist in the identification of major mineral phases prior to SEM observation.

2.2.2 Chemical Composition of Solids

The chemical composition of all solid materials was determined through whole rock and trace element analysis to determine the content of major rock forming elements and trace metals, respectively. This information is used to assess the variation in chemical composition by lithology, and to identify parameters of potential environmental concern with respect to leachability. Trace metal results for waste rock and overburden are compared to typical elemental abundances in continental crust (Price 1997). The following components were included in the chemical analyses:

- Metals (including arsenic and selenium) by ICP-MS, with samples extracted using a concentrated strong acid solution of perchloric, nitric, hydrochloric and hydrofluoric acids. The digestion of the solids is not complete but does provide a better insight into the parameters that may be environmentally available within each sample.
- Mercury by cold vapour atomic absorption spectroscopy (CVAAS), EPA245.1 methodology.
- Whole rock analysis for major metals by borate fusion / x-ray fluorescence (XRF).

2.2.3 Potential for Acid Rock Drainage

The potential of geologic material to oxidize and generate acidic drainage was evaluated through acid-base accounting (ABA). This test was conducted following the Modified Sobek method (MEND 2009) and included determination of the following parameters:

- paste pH;
- total sulphur by LECO furnace (ASTM E 1915 method);
- sulphate sulphur by acid digestion and sulphide sulphur by difference from the total sulphur content;
- total carbon (TC as %C), graphitic carbon (as %C) and carbonate (as %C) by LECO furnace; and,
- bulk neutralization potential (NP; by the 1996 Modified NP procedure; MEND 2009).

A subset of waste rock samples and the tailings sample were subjected to sequential NAG tests (AMIRA 2002) to provide additional information on the ARD potential of samples.

Neutralization Potential (NP)

Neutralization potential (NP) is a bulk measurement of the acid-buffering capacity of a sample provided by various minerals of different reactivities and effective neutralization capacity. Neutralization potential was evaluated using two different analytical techniques:

***1996 Modified NP Procedure*:** Represents the bulk NP of the sample, including contributions from carbonate minerals and some reactive aluminosilicate minerals, where present. It is calculated from the amount of base consumed to neutralize (to pH 8.3) the acid remaining from the acid-digested sample at room temperature.

***Carbonate NP (CaNP)*:** Represents the NP available from calcite, dolomite, and other carbonate minerals only. This also includes siderite, ankerite and any other divalent metal carbonates, as well as graphite, all of which provide less to no net neutralization compared with calcite and dolomite. The carbonate NP was calculated from the carbonate content of the sample (as %C), less any graphitic carbon when it was detected in the sample. The reported carbonate NP values are corrected for the graphite content.

Acid Potential (AP)

Acid potential (AP) is a measure of the total potential acidity of a sample, and assumes that all sulphur is in the form of available pyrite. For waste rock and ore, AP is calculated from the total sulphur content of the samples (rather than sulphide content) on the basis that there are no sulphate minerals present in any lithologies based on the geology of the deposit.

For tailings, overburden, lake sediment and esker material samples, AP was determined based on the sulphide content (the difference between total sulphur and sulphate sulphur) because these materials have been exposed to oxidizing conditions and can contain secondary sulphate phases that would not generate acid.

Values of AP, NP and CaNP are reported as kg equivalent calcium carbonate per tonne of rock.

2.2.3.1 Sequential Net Acid Generation (NAG) Test

Sequential net acid generation (NAG) tests are used in combination with ABA to assess the ARD potential of a sample. The NAG test (Amira 2002) uses hydrogen peroxide to induce complete oxidation of sulphide minerals, with the sulfuric acid (H_2SO_4) produced being buffered concurrently by any available neutralizing minerals in the sample. Unlike ABA results, NAG tests do not provide an estimate of NP relative to AP, but rather indicate the net effect of sulphide oxidation and buffering reactions within a sample. Of note, this test may not successfully oxidize all sulphide sulphur into sulphate under certain circumstances (such as, but not limited to, too much sulphur or the presence of carbonates, iron and copper, and organic material). To monitor for this situation, the total amount of sulphate captured over the four sequences of leaching during the NAG test was calculated and compared against the total sulphur content of the sample measured in the ABA test.

When the NAG test is successful (when all the sulphide is oxidized to sulphate), it can be used to define the ARD potential of samples considered uncertain (having a CaNPR between 1 and 2) and those containing low AP and low NP. The NAG leachate chemical composition can be used to assess the total metal load that would be generated upon complete oxidation of sulphide minerals and consumption of buffering capacity, and to compare the rate of release of metals in kinetic leaching tests.

Sequential NAG tests were conducted on 38 samples of waste rock and on the tailings sample. Waste rock samples were selected for sequential NAG pH testing based on their low CaNPR and NPR values, generally on samples having an uncertain ARD potential (CaNPR between 1 and 2 or conflicting results between CaNPR and NPR), and on some PAG samples identified during Phase 1.

2.2.3.2 ARD Screening Criteria

The ABA results were compared to Canadian guidelines outlined in MEND (2009). The suggested screening criteria for inferring ARD potential are summarized in Table 6. For this study the carbonate mineral NPR (CaNPR) was used to quantify the reactive carbonate buffering capacity in the sample (CaNPR excludes the less reactive silicate minerals).

Table 6: Acid-Base Accounting Screening Criteria

Potential for ARD	Initial Screening Criteria	Description
Likely	CaNPR < 1	Likely to generate acidity, unless sulphide minerals are non-reactive
Uncertain	1≤ CaNPR <2	Neither clearly acid-generating nor acid consuming
None	CaNPR ≥ 2	Acid consuming, low acid generating potential

Note: Based on MEND (2009) but conservatively uses CaNPR rather than NPR.

Samples with CaNPR values greater than or equal to 2 are considered to have no ARD potential since there is no preferential exposure of sulphides along fracture planes, nor very reactive sulphides, and buffering capacity is in the form of carbonate minerals (see Section 3.3.1).

Results of NAG pH tests were compared to the criteria presented in Table 7.

Table 7: Net Acid Generation Criteria (AMIRA, 2002)

NAG pH	NAG Acidity (to pH 7) kg H_2SO_4/t[1]	Potential for Acid Generation
≥ 4.5	0	Non-acid generating
< 4.5	≤ 5 [2]	Low potential to be acid-generating
< 4.5	> 5 [2]	Potentially acid-generating.

Note: [1] kg sulfuric acid (H_2SO_4)/t
[2] The NAG criteria used may vary from site to site with a cut-off up to 10 kg H_2SO_4/t (Source: AMIRA 2002).

2.2.4 Leaching Tests

Leaching tests are used to assess the potential of waste rock to release readily-soluble metals to the receiving environment by simulating interaction between water and solids. The leach tests completed in this study are outlined in Table 8 and discussed hereafter.

Table 8: Summary of Leaching Tests

Test Type	Test Method	Location	Number of Samples	Status
Short-Term Leach Test	Shake Flask Extraction	laboratory	181	Completed
	NAG Leachate	laboratory	15	Completed
Long-term Leach Test	Humidity Cell Tests	laboratory	11	Ongoing[1]
	Large Column Tests	laboratory	8	Ongoing

Note: [1] Tailings HCT was terminated at 40 weeks.

Short-term leach tests are an initial screening tool in the identification of potential constituents of concern at neutral pH (outside of the potential for acid generation), in view of mine site water management and potential water treatment requirements. However, these test methods do not consider the kinetics of weathering reactions. To this end, kinetic leaching tests were initiated on a select subset of samples to provide a more representative assessment of likely chemical release rates in a controlled laboratory setting. Still, laboratory kinetic tests have limited ability to represent the effect of field conditions (climate, hydrology) on the weathering behaviour of materials in the field, and contact water quality. Short-term and kinetic leach tests are discussed in Sections 2.2.4.1 and 2.2.4.2, respectively.

2.2.4.1 Short-Term Leaching Tests (Shake Flask Extraction – SFE)

Samples were subjected to short-term leach tests using a modified version of shake flask extraction (SFE, Modified ASTM D3987). Crushed samples (<9.5 mm; reject samples are <2mm) of waste rock and ore were mixed with distilled water (4:1 solution to solid ratio), placed in a flask, and shaken for 24 hours using a variable speed shaker table. Leachate was collected from a pump through a 0.45-μm filter and analyzed for pH, sulphate, chloride and dissolved metals. Tailings, overburden, lake sediments and esker materials were tested at the grain size received (not crushed).

2.2.4.2 Kinetic Leaching Tests

Kinetic leaching tests are a repetitive leach test meant to simulate accelerated weathering conditions on a specific charge material (e.g., waste rock, tailings, etc.) by promoting sulphide mineral oxidation and dissolution of acid-buffering minerals over the duration of the testing period. Kinetic leach tests are being carried out on different quantities of charge material to verify the effect of scale and water contact on the rate of chemical releases; specifically 1-kg humidity cell tests (HCTs), 20- to 60-kg large columns, and one 40-kg submerged leach column.

Humidity Cell Test Method (HCTs)

The HCT method is based on the standard method ASTM D5744 where a 1-kg sub sample of crushed (<9.5 mm) waste rock, ore or tailings (as-is) is placed in a cylindrical vessel and subjected to a seven-day cycle of leaching, which includes three days of dry air circulation followed by three days of humid air circulation, and a subsequent flushing with 1 litre (L) of distilled water (1:1 liquid to solid ratio by weight) on the seventh day. Approximately 1 L of leachate was collected each week for analysis of short- and long-suite groups of parameters as follows:

- short suite parameter group with weekly analysis from Cycle 0, including:
  - volume of leachate recovered, pH, conductivity, alkalinity, acidity, sulphate, and calcium;

- long suite group of parameters analyzed at Cycle 0-5, 10, 15, 20, 25, 30, 35 and 40 including:
  - chloride and fluoride;
  - dissolved Ag, Al, Sb, As, Ba, Be, Bi, B, Cd, Cr, Co, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Se, Sn, Sr, Th, Ti, U, V, Zn; and
  - tailings only: bromide, chromium VI, cyanide (total and WAD), cyanate (CNO) and thicyanate (CNS), total ammonia (NH_3+NH_4 as N), nitrate (NO_3 as N), and nitrite (NO_2 as N).

Results from humidity cells are used to assess the oxidation rate and the release rates of chemical constituents from mine wastes upon exposure to water. However, these leachates may not be direct analogues of expected water quality because the testing does not consider the scale (size, shape) of the mine waste infrastructure, nor the effect of climate (moisture content, temperature) on drainage quality, such as freshet conditions and frozen winter conditions.

HCT Sample Selection Rationale

Humidity cell test sample selection was designed to represent the dominant waste rock groups that will generate the largest volume of waste, and to capture the effect of specific compositional characteristics on leachate chemistry; namely, that of the average and high-end or upper quartile concentration ranges of constituents of interest, including NP, CaNP and sulphide content for the greywacke lithology, and arsenic content for ultramafic lithology.

Table 9 summarizes the sample selection rationale and the ARD designation for each HCT sample based on static testing. The composite ore sample consists of two 500 gram samples: 1) iron formation ore; and 2) ultramafic ore. Note that greywacke sample AMQ-ENV-28 was subjected to a re-assay on a riffle split sample from the crushed portion, and was found to have high heterogeneity in composition (Sections 2.3 and 3.6).

Table 9: HCT Sample Selection Rationale

Rock Type	Rock Code	Sample Information		Concentration and Percentile Ranking of the Sample based on Static Results per Rock Type (Concentration Percentile Ranking)						Selection Rationale
		Sample ID	ARD Potential[1]	Total As (mg/kg)	Leachable As[2] (mg/L)	Total Sulphur (wt. %)	NP (kg $CaCO_3$/ t)[3]	NPR	CaNPR	
Ultramafic	V4 - 0a	AMQ-ENV-32	Non PAG	440 45th	0.98 45th	0.028 35th	124 75th	142 70th	145 75th	Median As leaching
Iron Formation	S9E – 3b	AMQ-ENV-43	Non PAG	820 55th	4.0 75th	0.033 20th	290 max	281 95th	302 95th	High quartile As leaching
Greywacke	S3C – 3b	AMQ-ENV-37	Non PAG	33 50th	0.12 85th	0.16 35th	23 75th	4.7 80th	3.6 80th	Non PAG, sulphur less than 0.2 %
Greywacke	S3C – 3b	AMQ-ENV-18	**PAG**	33 50th	0.084 80th	0.31 55th	14 30th	1.5 50th	0.68 60th	Uncertain ARD Potential (NPR vs PAG CaNPR), median sulfur, high quartile As leaching.
Greywacke	S3C – 3b	AMQ-ENV-28	**PAG**	90 80th	0.031 30th	0.56 70th	8.9 <5th	0.51 25th	0.16 20th	PAG (NPR and CaNPR), high quartile sulphur content
Greywacke	S3C – 3b	AMQ-ENV-40	**PAG**	280 90th	0.074 10th	1.3 75th	14 30th	0.34 20th	0.38 45th	PAG, high quartile sulphur content
Chert	S10 – 3b	AMQ-ENV15-133	**PAG**	970 max	0.056 40th	2.8 75th	13 10th	0.15 10th	0.024 10th	PAG, high quartile sulphur content, high As
Intermediate Intrusive	I2 – 8b	AMQ-ENV-114	Non PAG	8.7 min	0.029 75th	0.046 min	17 min	12 50th	4.5 50th	Median NPR and CaNPR
Ore	S3C – ALTV41	AMQ-ENV15-144	**PAG**	1100 90th	0.90 75th	3.9 90th	41 60th	0.34 15th	0.19 10th	PAG, high quartile As leach
Ore Composite[4]	SE9 and 0b	AMQ-ENV15-089 and 076	**PAG**	735 65th	1.7 75th	3.6 75th	72 85th	0.63 35th	0.38 35th	High As leach, high S^{2-}
Tailings	Mixed	RE-13872/ RE-13874	**PAG**	3200	0.023	3.3	-6.8	-0.08	0.22	Available sample

Notes:
[1] Based on results of static testing
[2] Based on results of SFE static leaching test
[3] kg calcium carbonate ($CaCO_3$)/t
[4] Results presented represent the average from the two samples used to create the composite sample

Column Leaching Tests

Larger scale kinetic weathering tests consisting of leaching columns are being carried out on bulk lithological samples to measure the effects of accelerated wetting and drying on sulphide mineral oxidation and chemical leaching rates from a larger quantity of material for a given lithology. The large column test uses a lower leaching water to solid ratio than the 1-kg HCT tests and thus provides a closer approximation of likely contact water quality under field conditions at the Project site than the smaller scale tests HCT.

Four large scale leaching columns (Columns C-1 to C-4) were initiated on September 30th, 2015. Columns 5 (C-5) and 6 (C-6) were initiated on October 9th, 2015 and column 7 was initiated on January 6th, 2016 (Figure 1). The charge material for these columns consists of crushed (<9.5 mm) waste rock samples left over from the static testing program (Figure 2) with known chemical characteristics (Table 10). Rock samples of similar lithologies were mixed together prior to charging the columns. The mass of the charge material used in each column was defined by the amount of static test reject rock available for use. An equal mass of sample was used to make up each composite to avoid biasing the charge material with any one particular sample.

The crushed rock material was placed in PVC columns of 91 cm height by 25 cm diameter for columns C-1 to C-4, and 20 cm diameter for columns C-5 to C-7. The columns are trickle leached (slow rain-like precipitation of water at the top) on a weekly basis with laboratory grade de-ionized water at a 10:1 solid to liquid ratio (i.e., the 20 kg column is leached with 2 litres of water). The solid to liquid ratio was selected in order to approximate the monthly precipitation in the Project region.

A valve is fitted at the bottom of the columns to release leachate. Unlike the standard HCT, the leaching columns were not subjected to 3 days of dry air circulation and 3 days of humid air circulation between weekly leaching cycles. Leachate was collected on the seventh day for analysis following the same analytical suite and schedule as described for the HCTs above.



Figure 1: Six Waste Rock Columns Currently Underway.



Figure 2: Typical Grain Size (< 9.5 mm) of the Large Column Charge Material

For three cycles[1], the amount of distilled water added to each column was decreased to 750 ml. This was followed by a larger flush volume on March 9th, 2016 in which sufficient water was added to each column so that the charge material was completely submerged. This was done to simulate dry summer conditions followed by an intense rain fall conditions. After this, the regular 10:1 solid to liquid ratio continued. Results from this process are used to assess the effect of varying the infiltrated water volume on waste rock leachate quality.

Table 10: Leaching Column Charge Material Properties

Column	Rock Type	Test Material Mass (kg)	Water Leaching Volume (L)	Total Arsenic (mg/kg)	Leachable Arsenic (mg/L)	Total Sulphur (wt.%)	CaNPR (ratio)	ARD Potential
C-1	Ultramafic (0a)	40	4.0	682	0.89	0.13	23	Non PAG
C-2	Iron Formation(S9E)	42.5	4.25	689	1.4	0.69	2.9	Non PAG
C-3	Greywacke (S3C)	45	4.5	163	0.057	1.0	0.25	**PAG**
C-4	Greywacke (S3C and S3S)	60	6.0	41	0.053	0.31	1.7	Uncertain
C-5	Ultramafic (0b)	26.4	2.64	71	0.20	0.084	29	Non PAG
C-6	Chert; (S10)	28.8	2.88	222	0.065	2.2	0.12	**PAG**
C-7	Mafic Volcanic (1b)	20.3	2.03	30	0.15*	0.046	32	Non PAG
Submerged Leaching Column								
C-8	0b + S9E	41.5	4.15	543	0.91	0.34	801	Non PAG

Note: * The average leachable arsenic content is influenced by one sample having 10x higher leachable arsenic content than the other samples used as test material.

[1] columns C-1 to C-4 (cycles 20, 21 and 22), C-5 and C-6 (cycles 16, 17, 18), and C-7 (cycles 6, 7 and 8)

The rationale for running four different ultramafic and iron formation columns (Columns 1, 2, 5 and 8) is to verify the arsenic leaching properties of composites having differing total and leachable arsenic content.

Columns 3 and 4 represent greywacke waste rock from two different locales in the Whale Tail deposit. Column 3 contains silicified PAG greywacke from the central unit (S3C) exclusively. The charge material has a higher sulphur content than the south greywacke, and samples that make up the S3C charge material are within 25 m of the ore zone. Column 4 represents the less silicified, lower total sulphur greywacke from both the central and southern greywacke units. The charge material in Column 4 represents the greywacke that would be exposed along the south pit wall and potentially used as construction material. The C-4 charge material is a conservative representation of the low sulphur greywacke because the average sulphur content (0.31%) of the charge material is higher than that of the static database average (0.07%, see Section 3.3.1) for the south greywacke (S3S).

Column 6 represents PAG chert material and is intended to verify the propensity and time of this material to onset of ARD, and to determine metal release rates before and after the onset of ARD.

Column 7 is composed of non PAG mafic volcanic material and is intended to verify the general leaching properties of this bulk material.

Column 8 is a submerged column and is discussed in the section below.

Submerged Column Leaching Test

A submerged leaching column (Column 8) was initiated on January 13th, 2016. The column is a bulk sample of the lithologies identified during static leaching tests as having high leachable arsenic concentrations; namely, ultramafic (0a and 0b) and iron formation (S9E). These units will be exposed in the pit wall and in the open pit lake. The objective of the test was to assess the chemical load that may report from these lithologies in fully flooded conditions, simulating the exposure of the open pit wall in the flooded pit lake in post-closure.

The charge material consists of sample reject left over from the static testing program and includes samples from the ultramafic (0a and 0b) and iron formation lithologies. All material is crushed to the same size as the subaerial columns (<9.5mm). A total of 46 equal-weighted samples were used to charge the submerged column from the ultramafic (16 samples), transitional ultramafic (10 samples), and the iron formation (17 samples) units.

The charge material was placed in a custom-built leaching column consisting of a PVC pipe (91 cm high by 34 cm diameter) that is closed with a valve at the bottom and open at the top. Approximately 40 kg of charge material was placed in the column. Three water-sampling ports were installed at specific depths above and below the water/rock interface: two locations within the waste rock charge material and one location above it in the water column (Figure 3). Port 1 is located 5 cm below the water/rock interface and is sampled using a porous cup
(Figure 4). Port 2 is located 5 cm above the water/rock interface and in the water column, while Port 3 is located 25 cm above the water rock interface. The column was filled with distilled water so that the height of the water (61cm) within the column was over twice the height of the charge material (28 cm).

The water sample collection process for Port 2 and Port 3 requires the use of a small pump attached to the port to collect the pre-determined volume of water. Once both the charge material and distilled water was added, the submerged column was left for 24 hrs before the initial sampling event was initiated. Sample collection from

each port occurs on days 1, 3, 6, 10, 15, 20, 27, 35 (week 5), 49 (week 7), 70 (week 10), 105 (week 15) and 140 (week 20).

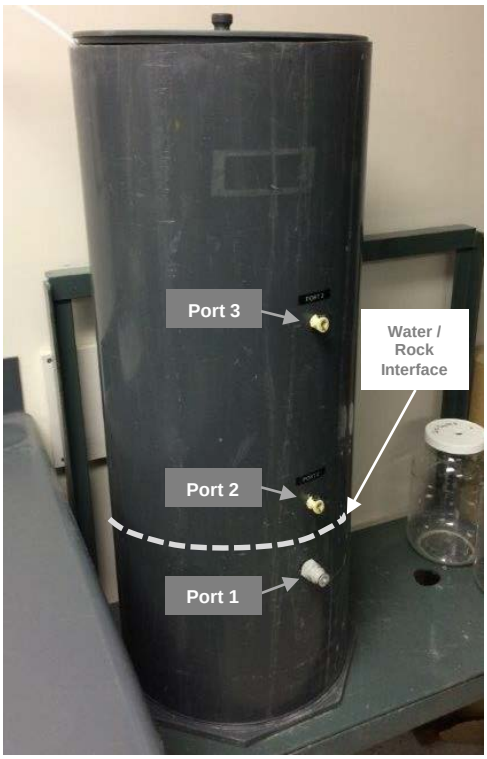


Figure 3: Submerged Column with Three Sampling Ports



Figure 4: View of the Porous Cup Sampler (Port 1)

Actual Time Equivalency of Kinetic Leaching Tests

The 1-kg HCT is an accelerated weathering test meant to speed up the process of sulphide mineral oxidation in order to facilitate the measurement of weathering and its products on a shorter time scale than might occur in reality. This is achieved by forcing a rapid succession of alternating wet and dry cycles, and by actively flushing out the weathering products through the use of a high liquid to solid ratio (1:1 water to rock proportion by weight). The HCT test method (ASTM D 5744-07) states a 10-fold acceleration of the weathering rate compared to field conditions.

In practice, many factors will influence weathering characteristics of the exposed mined materials and the rate of chemical release at site. Of importance are site climate and pile hydrology which affect the water to solid contact and the rate of chemical reactions.

The Whale Tail waste rock will be piled and will be exposed to far less precipitation than both HCT and leaching columns. The average annual rainfall is 145 mm over 4 frost-free months (average of 36 mm/month), while each of the HCTs receive the equivalent of 127mm/week (508 mm/month), and the leaching columns receive the equivalent of between 63 and 122 mm/week (254 and 488 mm/month[2]). Each weekly cycle represents more

[2] Based on the different column diameters.

flushing than one average summer month at site. Thus conservatively, one leaching cycle can be said to represent 1 month of leaching at site. Comparatively, a 10-fold weathering rate acceleration (per ASTM) equates to 1 weekly cycle of leaching representing 2.5 months of weathering in the field.

In addition, as observed at Meadowbank, freezing conditions prevail for 8 months of the year in the surficial active thaw depth of the rock storage facility. The deeper portion of the pile remains frozen. The frozen winter conditions are not represented in laboratory leaching cycles. Laboratory tests simulate frost-free periods only (the four summer months). Consequently, 4 leaching cycles can be considered to represent the four months of active water ingress into the waste rock pile, or one year at site, insofar as 4 months in the field constitutes the frost-free summer period where water can seep through the waste rock pile. By extension, a 20-cycle kinetic test would represent approximately 5 years at site.

2.2.4.3 Water Quality and Leachate Screening Criteria

Leachates and ore processing liquids were screened against effluent limits for the Meadowbank Mine (NWB, 2AM-MEA1525, July 2015). The maximum monthly mean limits for the Vault and Portage effluents are shown in Table 11.

Table 11: Meadowbank Effluent Quality Criteria (July 2015)

Parameter	Unit	Portage Effluent Criteria (maximum monthly mean)	Vault Effluent Criteria (maximum monthly mean)
pH	no unit	6-9	6-9
TSS	mg/L	15	15
TDS	mg/L	1400	1400
Turbidity	NTU	15	15
Total Aluminum	mg/L	1.5	1.5
Dissolved Aluminum	mg/L	1.0	1.0
Total Arsenic	mg/L	0.3	0.1
Total Cadmium	mg/L	0.002	0.002
Total Chloride	mg/L	1000	500
Total Cyanide	mg/L	0.5	(no value)
Total Copper	mg/L	0.1	0.1
Total Mercury	mg/L	0.0004	0.004
Ammonia (NH_3 as N)	mg/L	16	20
Total Nickel	mg/L	0.2	0.2
Total Nitrate (as N)	as N mg/L	20	50
Total Lead	mg/L	0.1	0.1
Total Phosphorus	mg/L	1.0	1.5
Total Zinc	mg/L	0.4	0.2

2.3 Quality Assurance and Quality Control

The objective of a quality assurance/quality control (QA/QC) program is to assess sample representativeness and defensibility of reported results based on the analytical precision achieved during the study. Samples of core and overburden collected by Golder were obtained using a consistent sampling procedure and sample size. Sampled material was bagged individually to avoid cross-contamination, provided unique sample identification and sent to the analytical laboratory with chain-of-custody records. Similar analytical methods were used on all solid samples (rock, ore, overburden, lake sediments and tailings) to allow direct comparison of results.

Results for the duplicate samples were analyzed following EPA Guidelines for Inorganic Data Review (USEPA, 1994) and are included in Appendix D. In keeping with this guideline, the relative percent difference (RPD) was calculated and compared with an RPD of 20% (aqueous analyses) and 35% (solid material analyses) for each parameter. If the RPD value is greater than the guideline value (20% and 35%, respectively), the analytical precision for that parameter is considered unacceptable.

When rock and overburden samples arrive at the laboratory, all of the material collected and placed in the bag during sample collection is crushed (<9.5 mm), homogenized, and placed back into the sample bag. A riffle split of roughly 1kg is collected using a sample splitter to ensure that a representative sample is collected. From this riffle split, 300 g is split off for use in the SFE test, while the remaining 700 g is pulverized (passing 200 µm) for ABA, whole rock analysis (WRA) and total metal analysis.

To assess laboratory analytical precision, analyses were performed on approximately 10% of the samples analyzed. Two groups of analyses were completed as follows:

- Duplicate analyses collected from the riffle splits of sample material to assess the analytical repeatability. Completed for ABA, whole rock, total metals, and SFE analyses.
- Replicate analyses using various sub-samples collected from the bulk crushed sample material, then pulverized individually prior to analysis (with the exception of SFE, which is not pulverized). This was completed to assess sample heterogeneity at the crushed size fraction.

Results of this QAQC program are presented in Section 3.6.

Grain Size Effect on Chemistry

Samples of waste rock and ore were collected from existing and new exploration drill core and from assay reject material. The main difference between these two source materials is grain size. The reject material was received at SGS as fine samples (< 2mm), while core samples were crushed by SGS to <9.5mm. The grain size does not affect the ABA or chemical composition analyses since these require pulverized material; however, it could have affected the SFE test because it uses crushed material (< 9.5 mm). In order to verify the effect of the smaller grain size, and thus, larger surface area per unit weight of assay results, replicates of four assay reject samples were collected during Phase 3 from core collected from the same interval as the assay reject. These ‘replicate’ core samples were crushed to <9.5 mm and subjected to the same suite of testing as their replicated assay intervals.

Results indicate that the variance due to differences in grain size is minor since only 30 out of the 115 (26%) parameters tested showed a difference larger than an order of magnitude. Furthermore, in some instances it was the crushed core sample that exhibited higher concentrations than the pulverized reject sample. This trend is likely due to the heterogeneity of the samples targeted within the duplicated interval, which was confirmed through further QA/QC testing completed and presented in Section 3.6.

Because of their small grain size, no reject sample was submitted for kinetic testing.

3.0 RESULTS OF GEOCHEMICAL CHARACTERIZATION

Tabulated static test results and figures are presented in Appendix E. Kinetic test results are presented in Appendix F as time series graphs. Laboratory analytical certificates for the static tests and kinetic tests are included in Appendices G and H, respectively.

For the purposes of data analysis, samples were sorted based on the lithological classification provided by Agnico Eagle, as described in Section 1.2 and presented in Table 1.

3.1 Mineralogical Analyses

Mineralogical results from X-ray diffraction analysis and SEM observations are tabulated in Appendix E.1 and summarized below.

3.1.1 Greywacke and Chert Waste Rock Samples

This analysis focussed on identifying minerals that contribute to acidification and buffering capacity to assist in the interpretation of the ARD potential of central greywacke and chert.

The central greywacke samples (S3C) have variable mineralogical assemblages but overall consist primarily of quartz (32 to 73 weight percent or wt%), albite (1.5 to 28 wt%), chlorite (1.7 to 20 wt%), cummingtonite (3.2 to 15 wt%), and muscovite (2.9 to 22 wt%) with lesser almandine (2.0 to 3.9 wt%) and biotite (2.7 to 6.0 wt%).

All samples contain calcite which ranges from 0.8 to 7.2 wt%. One of the 5 samples also contained trace ankerite at 1.2 wt%. Pyrrhotite is the only sulphide mineral identified in two of the 5 samples: at 3.7 wt% in the uncertain ARD sample and 5.6 wt% in the PAG sample. No sulphide minerals are identified in the other two central greywacke samples; their sulphur content being less than 0.21 wt%. Sphalerite (0.2 wt%) is the only sulphide mineral present in the one southern greywacke sample.

The two chert samples primarily contain quartz (25 to 47 wt%), phlogopite (4.4 to 18 wt%), chlorite (11 to 14 wt%), albite (3.3 to 13 wt%), biotite (2.7 to 13 wt%) with lesser orthoclase (0.7 to 2.7 wt%) and stilpnomelane (2.0 to 3.5 wt%). Carbonate minerals include calcite (2.7 to 5.5 wt%) and siderite (0.3 to 3.1 wt%). Pyrite (2.4 wt%) is present in one sample and pyrrhotite (2.1 wt%) in the other.

The XRD analyses corroborate with the results of ABA (Section 3.3) and chemical composition (Section 3.2) tests for these samples. Mineralogy shows that the two samples with higher silica content also had the highest sulphide mineral content, which would support the observation that silicified greywacke more frequently tends to be PAG than samples from the less silicified greywacke, such as in the south greywacke unit.

3.1.2 Ultramafic and Iron Formation Waste Rock Samples

The two samples of iron formation waste rock (AMQ-ENV-43 and AMQ-ENV-125) and one sample of ultramafic rock (AMQ-ENV-31) contain the following sulphide minerals: pyrrhotite and pyrite, sometimes with traces of pentlandite ($(Fe,Ni)_9S_8$) and chalcopyrite ($CuFeS_2$), all of which are arsenic-free according to microprobe analyses. The nickel arsenide mineral gersdorffite (NiAsS) is present in all samples, and traces of nickeline (NiAs) are present in the ultramafic sample as identified by SEM. The sulphide minerals identified are generally of small grain size (less than 500 µm).

Gersdorffite is in a solid solution series with cobaltite, often referred to as (Ni,Fe,Co)AsS. The gersdorffite identified contains between 45 and 50 wt% arsenic, 1 to 22 wt% cobalt and 5 to 31% nickel. It can be reactive and may be a source of labile arsenic, nickel and cobalt from its potentially rapid oxidation kinetics (Jackson *et al*. 2003; MEND 2004).

No silicate gangue minerals were found to contain arsenic.

3.2 Chemical Composition

3.2.1 Waste Rock, Ore, and Tailings

The chemical composition of samples is presented in the tables and figures included in Appendix E.2. Summary statistics are provided for each sample type, including: minimum, maximum, average, median, 75th percentile and standard deviation. Results are summarized in Table 12.

Table 12: Compositional Enrichment in Waste Rock, Ore and Tailings

Rock Type	Rock Unit	Number of Samples Collected	Parameter Concentrations Greater than Five Times Typical Crustal Abundance (Price 1997)
Ultramafic	V4a – 0a	21	Ag(2), As(21), Bi(6), Cr(20), Ni(11), Sb(14)
	V4a – 0b	14	Ag(1), As(12), Bi(4), Cr(10), Se(1)
Iron Formation	S9E – 3b	22	Ag(5), As(22), Bi(13), Cr(20), Ni(17), Sb(16)
Greywacke	S3C – 3b	43	Ag(3), As(41), Bi(40), Cr(3), Mo(3), Sb(5), Se(2)
	S3S – 3b	23	As(11), Bi(14), Cr(8), Pb(1)
Chert	S10 – 3b	14	Ag(4), As(14), Bi(10), Cr(1), Ni(1), Sb(7), Se(2)
Mafic Volcanic	V3 – 1b	8	As(5), Ba(1), Bi(2), Cr(4), Li(1), P(1)
Intermediate Intrusive	I2 – 8b	5	As(4), Bi(3), Pb(1)
Ore	Various	13	Ag(6), As(13), Bi(5), Cr(5), Ni(3), Pb(1), Sb(6), Se(5)
Tailings	Mixed	1	Ag, As, Bi, Cu, Sb, Se

Note: Number in parenthesis represents the number of samples that are enriched relative to typical crustal abundance.

Major constituents in all rock types, ore and the tailings sample are silica, aluminum and iron, but also include magnesium in ultramafic and mafic volcanic rocks. Minor constituents in all rock types are calcium and potassium, with the addition of sodium in both greywacke units (S3C and S3S) and intermediate intrusive lithologies. Major constituents show little variation within each lithological group as demonstrated by low standard deviation values.

Trace element concentrations that are greater than five times the typical crustal abundance (Price, 1997) are considered to be significantly enriched in Whale Tail deposit materials. Enrichment is observed for arsenic and bismuth in all waste rock lithologies; antimony for 0a ultramafic, chert and iron formation; as well as chromium and nickel in many but not all ultramafic, iron formation and mafic volcanic waste rock samples.

Two of the mafic volcanic samples have an arsenic content that is 10 times higher than the other six (6) samples: sample AMQ-ENV-01 is located near the contact with UM 0b lithology, while sample AMQ-ENV-51 was previously logged as a greywacke sample. This may explain the apparent variability of arsenic content in this lithology.

Ore and tailings are enriched in selenium in addition to antimony, arsenic, bismuth, chromium and silver. Tailings also contain elevated copper, but given that copper content is very low in this deposit, this likely reflects copper sulphate addition in the cyanide destruction process. The milling process is not yet finalized and copper content may differ in actual tailings.

3.2.1.1 Arsenic Content in Waste Rock, Ore, and Tailings

Arsenic has been identified as a parameter of environmental interest because of its association with gold mineralization and its enrichment in most mine wastes.

Arsenic concentrations are above five times typical crustal abundance (9 mg/kg) in samples from all rock types, including the median concentration for most rock groups.

A strong correlation does not exist between the total arsenic concentration and the samples' proximity to the ore zone for most rock groups, ore and tailings (Figure 5).

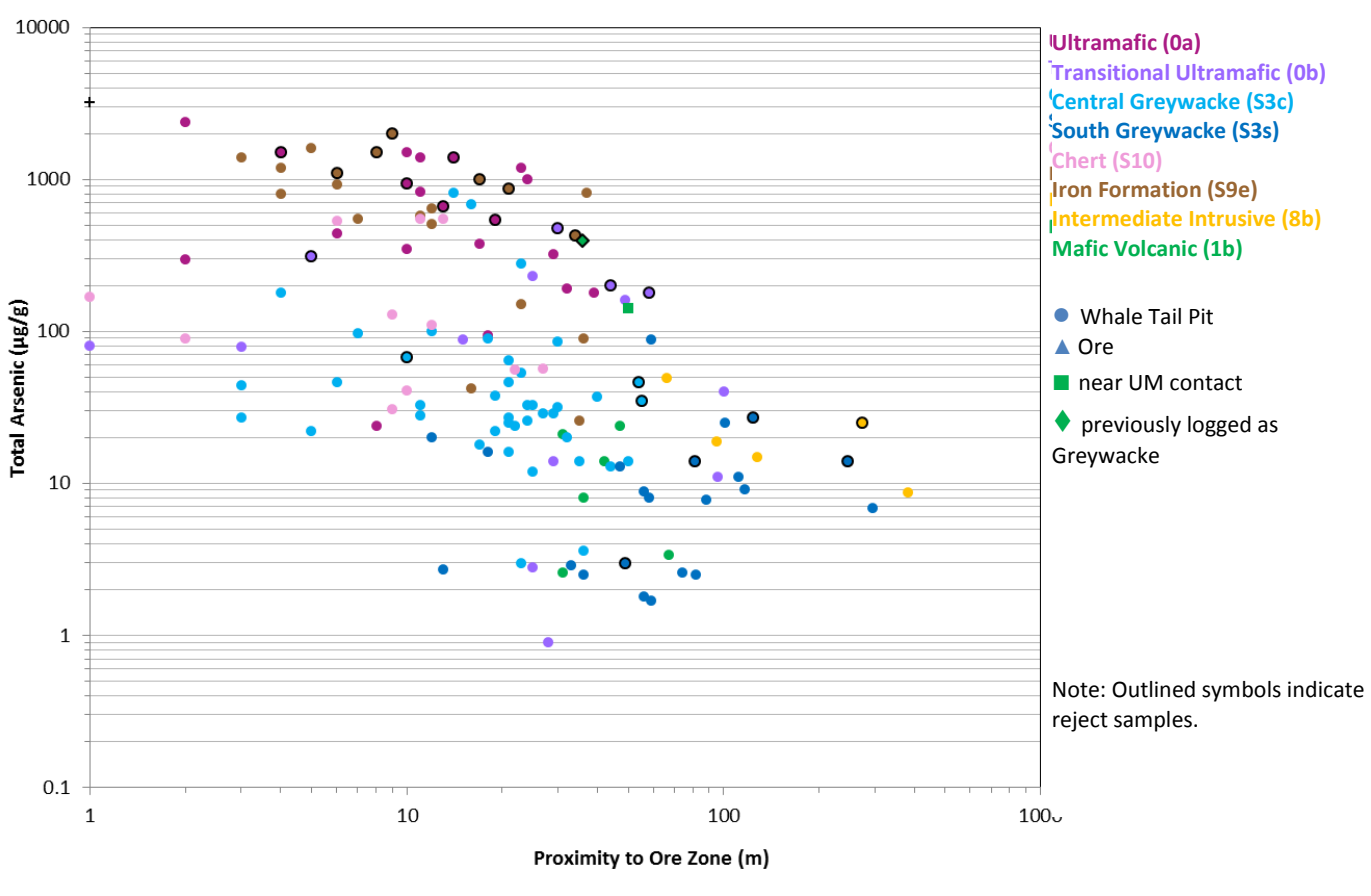


Figure 5: Proximity to the Ore Zone vs Total Arsenic Content

Figure 6 illustrates the relationship between the arsenic and the sulphur content in waste rock, ore and tailings samples.

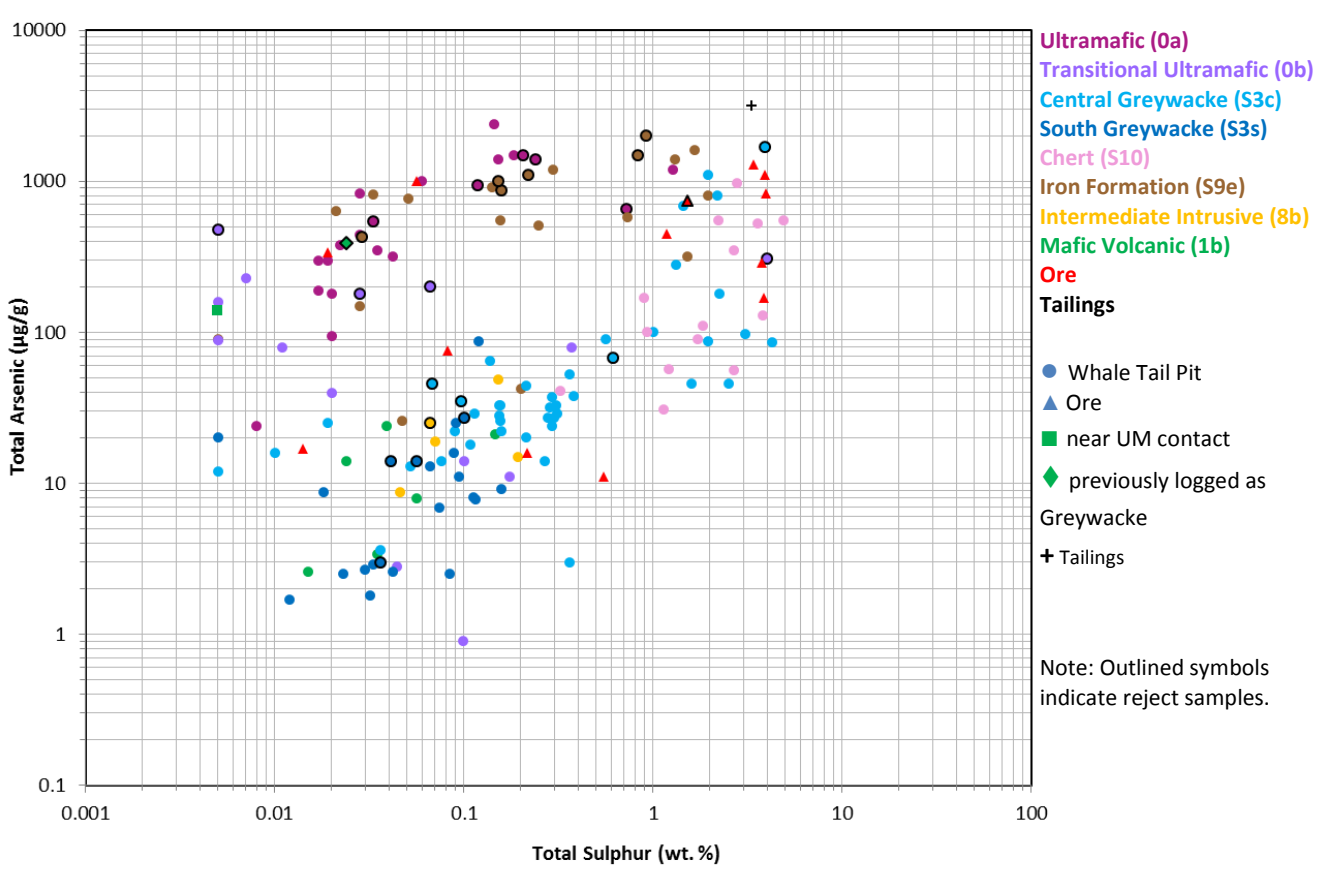


Figure 6: Total Sulphur vs Total Arsenic

The highest arsenic concentrations (Table 13) are associated with the ultramafic and iron formation lithologies, which also have a relatively low sulphur content compared to greywacke and chert. Mineralogical observations suggest that arsenic occurs as nickel arsenide minerals gersdorffite and nickeline in these lithologies. There was no arsenic in pyrite in three samples of these lithologies observed under SEM and analyzed by microprobe. Gersdorffite and nickeline are documented to be reactive (fast oxidation kinetics) and a source of labile arsenic (MEND 2004, Jackson et al. 2003). These minerals may not be the only source of labile arsenic in iron formation or ultramafic rock.

Ore has a moderately high arsenic content, while the tailings have the highest content of arsenic and sulfur and are also highly leachable. In ore and tailings, arsenic is likely associated with arsenopyrite (FeAsS) and possibly with arsenical pyrite (FeS_2) since they are documented to be present in the mineralized zone of the Whale Tail deposit (Agnico Eagle, 2014). Other trace minerals could be present, including gersdorffite and nickeline given that some of the ore is hosted in iron formation and ultramafic rock.

The correlation between arsenic and sulphur was evaluated for each lithological group. Results of this analysis indicate a moderate correlation between these two parameters in central greywacke (R^2 =0.37). A similar correlation exists in chert (R^2 =0.40. This relationship is weaker in south greywacke (R^2 =0.25), ore (R^2 =0.26), and intermediate intrusive (R^2 =0.22) waste rock samples. There is no such correlation in samples of ultramafic

and transitional ultramafic waste rock, in iron formation, or in mafic volcanic waste rock samples (R^2 <0.2 for each).

Parametric correlation analysis suggests that arsenic content is likely associated with sulphide minerals in chert and central greywacke, but not in ultramafic and iron formation waste rock where leachable arsenic is highest (Table 13). This may be explained by the presence of sulphide mineral phases that do not contain arsenic.

Table 13: Average Arsenic and Sulphur Content of Waste Rock, Ore and Tailings

Rock Type	Rock Unit	Average Total Arsenic (mg/kg)	Average Total Sulphur (wt. %)
Ultramafic	V4a – 0a	759	0.16
	V4a – 0b	134	0.35
Iron Formation	S9E – 3b	787	0.49
Greywacke	S3C – 3b	143	0.79
	S3S – 3b	14	0.066
Chert	S10 – 3b	267	2.2
Mafic Volcanic	V3 – 1b	75	0.043
Intermediate Intrusive	I2 – 8b	23	0.11
Ore	-	488	1.7
Tailings	-	3200	3.3

3.2.2 Overburden and Lake Sediments

Major constituents are similar for both the overburden and the lake sediments and include silica, aluminum and iron. Minor constituents include calcium, magnesium, potassium and sodium. Bismuth is enriched in most overburden samples compared to typical crustal abundance (Table 14).

In the lake sediment samples, arsenic, bismuth, and selenium concentrations are enriched in all samples, while manganese and molybdenum are enriched in 3 of 5 samples.

Table 14: Compositional Enrichment in Overburden and Lake Sediment

Material Type	Number of Samples Collected	Parameter Concentrations Greater than Five Times Typical Crustal Abundance (Price 1997)
Overburden	12	Bi(12), Mo(3)
Lake Sediment	5	As(5), Bi(5), Mn(3), Mo(3), Se(5)

Note: Number in parenthesis represents the number of samples that are enriched relative to typical crustal abundance.

3.2.2.1 Arsenic Content in Overburden and Lake Sediments

Overburden samples reported an average total arsenic concentration of 4.3 mg/kg, while lake sediments reported an average concentration of 1007 mg/kg; the latter is substantially enriched compared to typical crustal abundance and higher than observed average concentrations in the waste rock (Table 13).

3.2.3 Access Road Construction Materials

The major element and trace metal content of esker materials targeted for potential road construction are fairly homogeneous with few exceptions (Appendix A). Major constituents include silica and aluminum with minor iron, potassium, sodium, magnesium, and calcium. Arsenic, chromium, nickel, and copper naturally exceed CCME soil guidelines in esker samples.

No new assessment of Vault Pit waste rock was completed in this study. Compositional information is presented in a previous report (Golder 2005; Appendix A) where it is shown that the average arsenic content of Vault Pit waste rock samples collected at the time of the report was 148 ppm based on 36 samples. The Vault waste rock consists almost exclusively of intermediate volcanic rock. This arsenic content is at or slightly higher than the average for mafic volcanic, intermediate intrusive and non-chert greywacke waste rock of the Whale Tail deposit, but lower than the Whale Tail chert and ultramafic waste rock, ore and tailings.

3.3 Acid Generation Potential

3.3.1 Waste Rock, Ore and Tailings

The results of ABA and NAG testing are presented as tables and figures in Appendix E.3. The results provide information on the ARD potential of each sample as determined based on total sulphur content, the net potential ratio (CaNPR (CaNP/AP) and NAG pH. Presented with the data are results of statistical analyses and the calculated bulk characteristics for each lithological group using the sum of AP (calculated from total sulphur) and sum of CaNP from all the samples of a given lithology.

In some lithologies, carbonate minerals account for the bulk of the NP, and as such, the use of CaNP and CaNPR is considered more suitable to define non-PAG samples.

A summary of the ARD potential of all samples and the designated ARD potential for each sample group is presented in Table 15 and is illustrated in Figure 7 to Figure 9.

Table 15: Summary of ABA Results for Waste Rock, Ore and Tailings

Rock Type	Rock Codes	Quantity of Waste (tonnes)	Number of Samples	Sample Count			Bulk Potential by Rock Type		
				non-PAG	un-certain	PAG	Average Sulphur (wt.%)	Bulk CaNPR[1]	Bulk ARD Designation
Ultramafic	V4a – 0a	7,839,953	21	21	0	0	0.16	17	non PAG
	V4a – 0b	6,292,816	14	13	0	1	0.35	7.7	non PAG
Iron Formation	S9E – 3b	7,080,011	22	14	2	6	0.49	4.4	non PAG
Greywacke	S3C – 3b	3,167,882	43	10	6	27	0.79	**0.43**	**PAG**
	S3S – 3b	9,707,441	23	23	0	0	0.066	12	non PAG
Chert	S10 – 3b	9,069,203	14	0	0	14	2.2	**0.15**	**PAG**
Mafic Volcanic	V3 – 1b	2,324,150	8	8	0	0	0.007	32	non PAG
Intermediate Intrusive	I2 – 8b	622,937	5	4	1	0	0.10	4.9	non PAG
Ore	various	8,279,144	13	4	2	7	1.7	**0.66**	**PAG**
Tailings	mixed		1	0	0	1	3.3	**0.22**	**PAG**

Note: [1] Calculated as the Sum of CaNP/Sum of AP from all samples in each lithology

Waste rock samples collected from the central greywacke and chert lithologies, as well as the ore and tailings samples, are PAG. All other lithologies (ultramafic, southern greywacke, iron formation, mafic volcanic and intermediate intrusive waste rock) are non PAG. The non PAG lithologies have a combination of lower sulphur content and excess available carbonate buffering capacity to neutralize any acidity generated should all sulphides oxidize (Figure 7).

Non PAG rock represents a total of 33.9 million tonnes of rock, or 73% of the waste rock produced during mine life. The PAG chert waste rock represents 20% of the waste rock, while the PAG central greywacke lithology represents 7%.

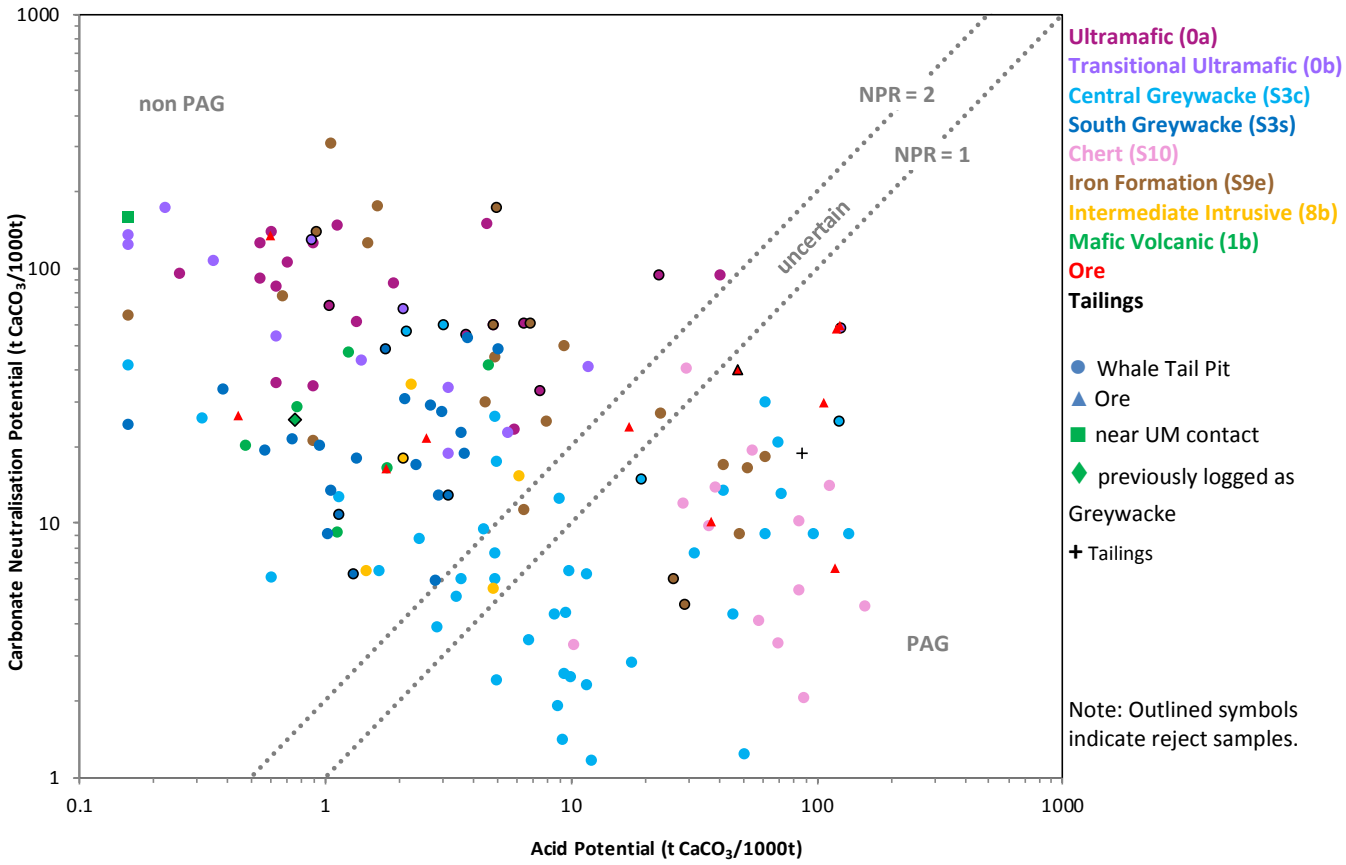


Figure 7: Acid Potential (AP) vs Carbonate Neutralization Potential (CaNP)

Waste rock total sulphur concentrations range from 0.11 to 4.9 wt%. The dominant sulphur species in most samples is sulphide sulphur, which is the source of acidity (Appendix E, Figure E.3-1). Total sulphur is highest in ore, tailings and chert waste rock, and lowest in the south greywacke and mafic volcanic lithologies (Table 15).

Buffering capacity (or neutralization potential) is typically highest in the ultramafic (0a and 0b) and iron formation lithologies. Two samples of the mafic volcanic unit (AMQ-ENV-01 near the contact with UM 0b and AMQ-ENV-51 previously logged as greywacke) have substantially higher CaNP than the other samples of the lithology. These are likely uncharacteristic of the overall mafic volcanic unit.

Overall, the central greywacke (S3C) and chert lithologies exhibit lower buffering capacities than the other waste rock lithologies, ore and tailings (Figure 8). Paste pH values range from 5.9 to 10.2, indicating there is some readily available buffering capacity in most samples. The bulk NP is similar to the Carbonate NP (Figure 8) in most lithologies except central and south greywacke waste rock, where non carbonate (less reactive) minerals provide some of the bulk buffering capacity measured in the laboratory test. The non-carbonate minerals are typically insufficiently reactive to buffer acidity under field conditions. Thus for these lithologies, it is more prudent to use CaNP to designate available buffering capacity. For ore and all other lithologies, carbonate minerals are the primary source of NP.

Consequently in this study, CaNP and CaNPR are used to evaluate acid generation potential of mine wastes.

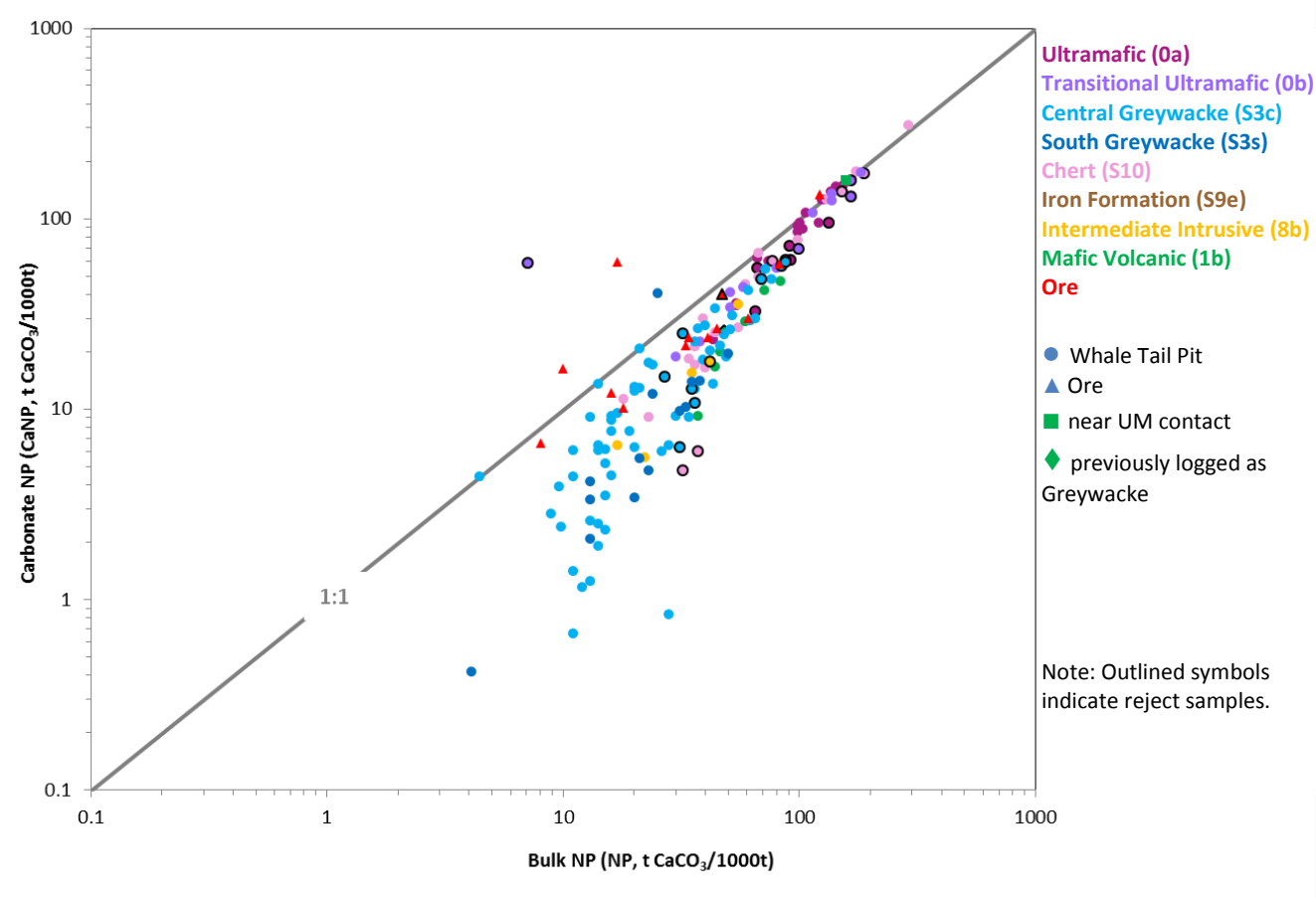


Figure 8: Bulk Neutralization Potential vs Carbonate Neutralization Potential (CaNP)

Figure 9 illustrates the relationship between sulphur content and the ARD potential of samples.

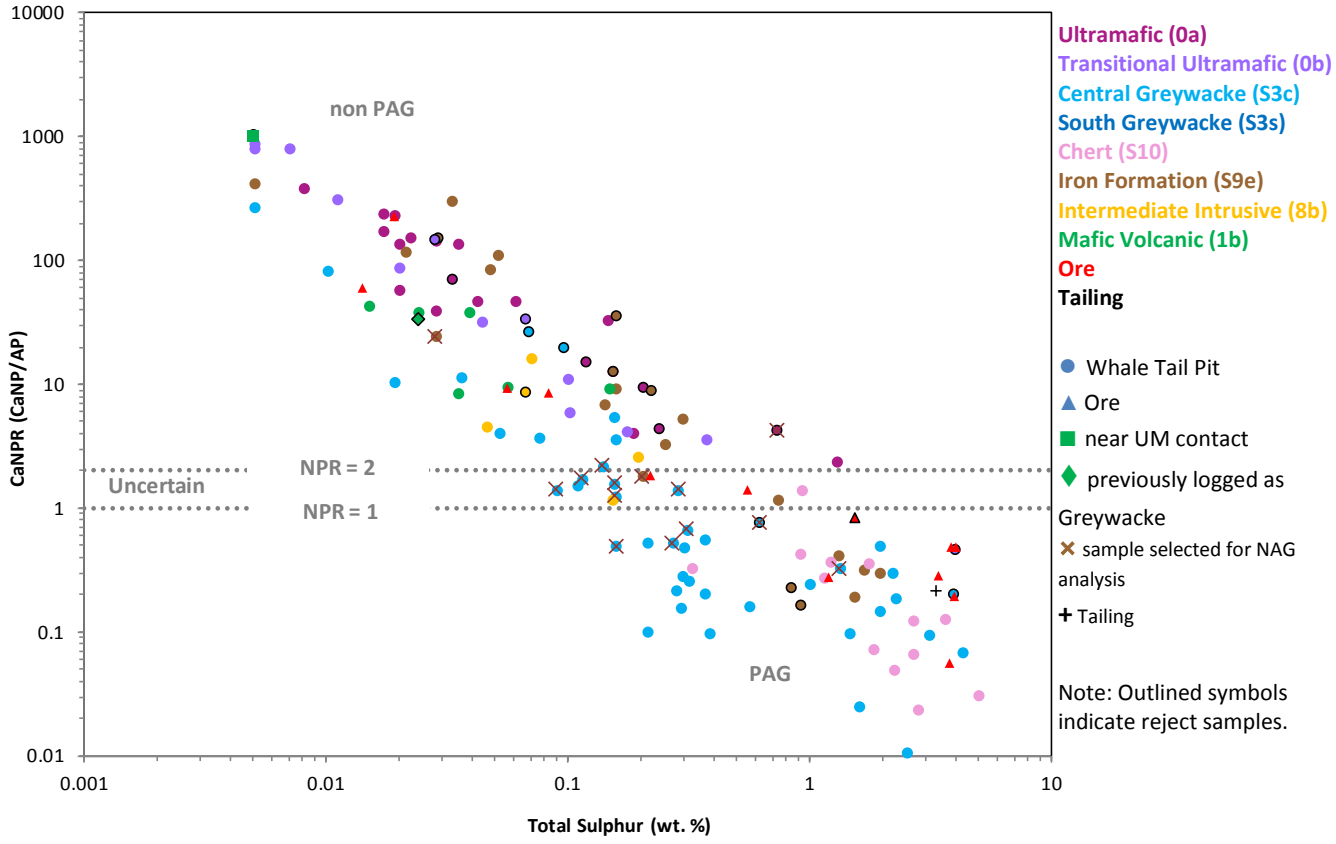


Figure 9: Total Sulphur vs Carbonate Neutralization Potential Ratio (CaNPR)

All samples that have a sulphur content less than 0.1 wt% are non PAG, while most of those above 0.8 wt% are PAG. The tailings sample and all ore samples contain more than 0.1% sulphur and most are PAG, except for two of the 13 samples of ore.

For PAG lithologies of central greywacke and chert, samples with a sulphur content above 0.1% are PAG. Based on the data to date, this sulphur content (0.1 wt%) appears to be a suitably conservative cut-off to define non PAG waste rock for these PAG lithologies.

ARD Potential by Waste Type and Lithology

The following discussion focuses on ARD classification (MEND 2009) for each lithology of waste rock. Figures E-3.3 to E-3.5 illustrate the ARD potential of all samples.

Non PAG Waste Rock

Ultramafic Lithologies (V4a) – Unaltered (Oa) and Transitional (0b): The bulk of these units is non PAG, with bulk CaNPR values of 17and 7.7, respectively. The average sulphur content (wt%) of these units is low (0.16 and 0.35, respectively).

The only PAG sample within the transitional ultramafic unit had a sulphur content of 4.0 wt% and was located within 5 m of an ore zone. All other samples have a total sulphur content of less than 0.4 wt%.

Iron Formation (S9E – 3b): This unit is non PAG with a bulk CaNPR of 4.4 and moderately low sulphur content. Six (6) out of the 22 samples collected are PAG, and have a total sulphur content greater than 0.8 wt% and a carbonate content less than 1.1 wt%. These samples were located within 5 to 10 m of the ore zone. Two samples have an uncertain ARD potential based on CaNPR but the NPR values are above 2. The non PAG samples have a total sulphur content of less than 0.3 wt% and a carbonate content greater than 1.5 %. The bulk CaNPR and generally low sulphur content suggest there is excess buffering capacity to neutralize any acid that may be generated from this lithology

South Greywacke (S3S – 3b): this unit is non PAG with a bulk CaNPR value of 12. All 23 samples tested are non PAG and report a low total sulphur content that ranges from <0.005 to 0.16 wt%.

Mafic Volcanics (V3 – 1b): All eight (8) samples are non PAG. Samples have a low average sulphur content of 0.043 wt% and a bulk CaNPR value of 32.

Intermediate Intrusive (I2 – 8b): Four (4) of the five (5) samples are non PAG while one sample is uncertain. Overall, these samples also have a low average sulphur content of 0.11 wt% and a bulk CaNPR value of 4.9.

PAG Waste Rock

Central Greywacke (S3C – 3b): Overall the central greywacke unit has a PAG bulk ARD potential. The average sulphur content is 0.79 wt% and the bulk CaNPR is 0.46. Samples that are PAG have an average sulphur content of 1.2 wt%. Those with an uncertain ARD potential have an average sulphur content of 0.15 wt%, and non PAG samples average 0.08 wt% sulphur.

Greywacke samples with a total sulphur content of less than 0.1 wt% are non PAG (Figure 9). Those above 2 wt% are all PAG, while those in between are uncertain or PAG.

The lower CaNPR values in the uncertain and PAG samples are related to both the higher total sulphur content (higher AP) and the lower carbonate content (lower CaNP), which may be related to the silicic alteration of the deposit. Silicification was observed in the central greywacke samples collected by Golder in Phase 3 (Figure 10), most of which are PAG. These are highlighted with an 'X' in Figure 9.



Figure 10: Photo showing the different appearance of (a) silicified greywacke and (b) non or less silicified greywacke

Chert (S10 – 3b): The chert lithology is PAG. The low bulk CaNPR value of 0.15 is attributed to a combination of an average total sulphur content of 2.2 wt. % and a low overall buffering capacity (NP and CaNP).

Ore

The ore shows a bimodal ARD potential largely due to variability in sulphur content. Seven of 13 samples are PAG and have a high sulphur content (between 1.2 wt% and 3.8 wt%), while the 4 non PAG samples have a sulphur content less than 0.55 wt%. The paste pH of all samples is alkaline, attesting to the presence of some immediately available buffering capacity; however, the carbonate content (and CaNP) values are low suggesting that the buffering capacity is likely to be short lived.

Tailings

The tailings sample is PAG with a CaNPR value of 0.22. It has a sulphide sulphur content of 2.8 wt%, and a sulphate sulphur content of 0.54 wt% indicating that some of the sulphur has oxidized, possibly in the metallurgical process. Although the NP value of -22 t $CaCO_3$/1000 t equivalent indicates there is stored acidity in the sample, the paste pH value is alkaline. The sample contains a small amount of carbonate buffering capacity, attesting to the presence of some immediately available buffering capacity in the sample, but the buffering capacity could be short-lived.

3.3.2 NAG Test Results on Waste Rock and Tailings

Results of the Sequential NAG tests are reported in Appendix E.4. The NAG test results confirmed the 0.1% sulphur content cut-off below which samples are non PAG.

The sulphate analysis completed at each NAG step suggests that most of the sulphur content of the samples was oxidized to sulphate (from 70 to 133 %) during the NAG test. It can be inferred that where the NAG test consumed more than 90% of the sulphur of a given sample, the test was largely successful in oxidizing its sulphide mineral content. The variation of sulphur consumed relative to initial sulphur content could reflect residual unoxidized sulphur; however, given that some of the values report over 100% of sulphur oxidation, it could also reflect heterogeneity of the individual subsamples from which sulphur was measured (Total S from the ABA analysis subsample and sulphate-S from the NAG test subsample).

Ten (10) samples returned a sulphur removal of less than 90%: thee (3) iron formation, three (3) chert and three (3) greywacke samples, all of which have a sulphur content above 0.9 wt%; and (1) ultramafic sample, which had a sulphur removal of 70% and the highest CaNP of all samples subjected to the NAG test. For most of these samples, the NAG pH returned an alkaline pH and low acidity most likely reflecting the incomplete oxidation of all sulphide minerals. Thus, the result for these samples is not conclusive; the test would have required more than 4 steps of NAG leaching (AMIRA 2002). Figure 11 presents a summary of NAG pH vs NAG acidity results.

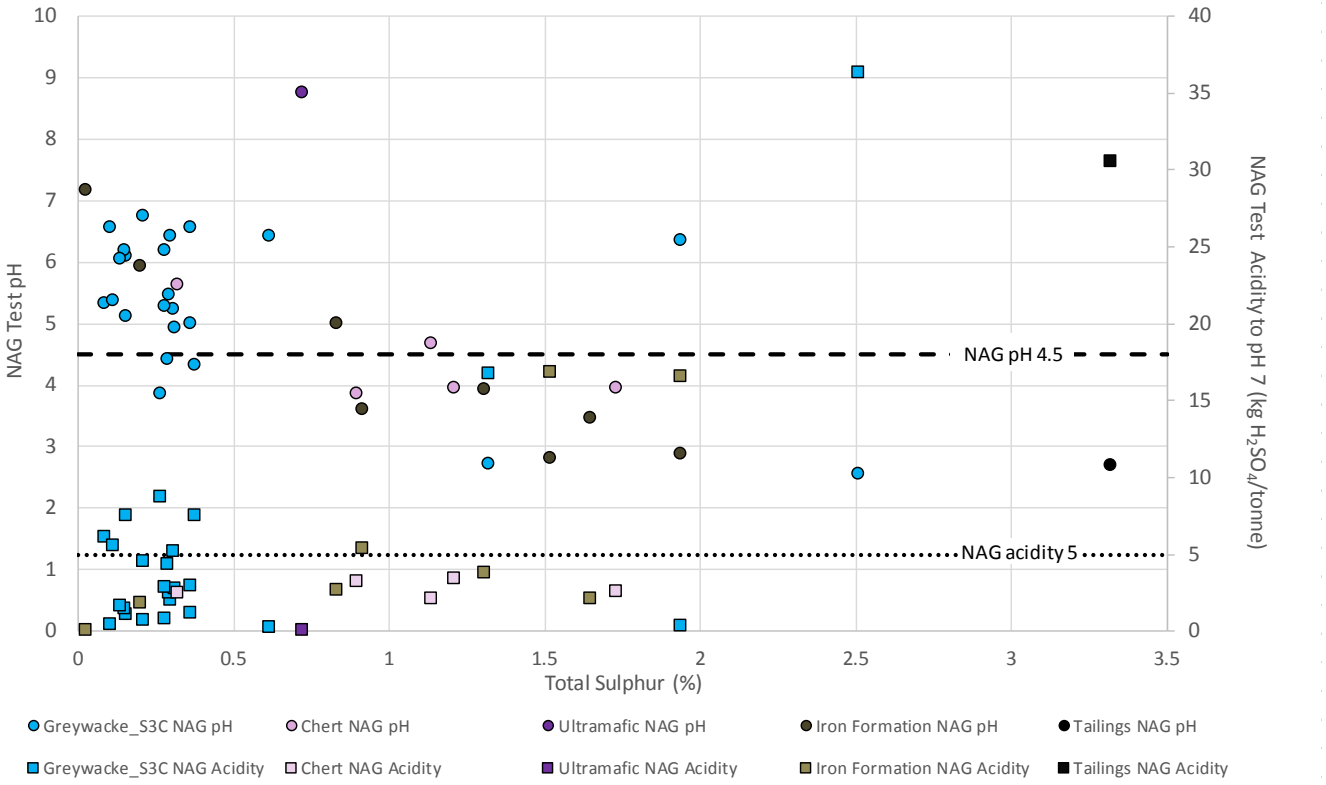


Figure 11: NAG test pH (circle) and corresponding NAG test acidity (square) compared to sulphur content.

Waste rock samples of **central greywacke (S3C)** having a sulphur content above 0.1wt% are shown to be mostly PAG. Some exceptions are observed where the NAG pH value is less than 4.5 but NAG acidity is greater than 5 kg H_2SO_4/t. These could be false negatives caused by the presence of carbonate in these samples, which is preferentially consumed by the peroxide solution (over sulphide mineral oxidation) and can result in an over-buffered pH of the NAG solution (AMIRA 2002). Given that most S3C samples have low CaNP, the NAG test confirms a cut off of 0.1% below which samples from this lithology are non PAG.

The **iron formation** and **chert** waste rock samples with a sulphur content of above 0.2wt% and 0.3wt% respectively are PAG, but for all chert and many iron formation samples (4 of 6), sulphide oxidation released low levels of acidity. This would classify them as *low capacity PAG* samples (low metal release). Samples with a sulphide content of between 0.1% and 0.3 wt% are non PAG according to the NAG test. This trend should be verified with additional samples.

The NAG test on the **0a ultramafic** (non PAG) waste rock sample (AMQ-ENV-49) was completed to confirm that this samples in non PAG and to verify whether all the arsenic would be released upon sulphide oxidation. This sample has one of the highest sulphur contents (660 ppm) of the lithology, but also has an elevated CaNP. The NAG pH did confirm the non PAG character of the sample. For arsenic release, only 3% of the total arsenic content of the sample (660 ppm) was released upon 70% oxidation of the sulphides. This could mean that much of the arsenic is not associated with sulphide minerals in this sample or that arsenic was retained (adsorbed) within the NAG-leached sample.

The tailings sample is PAG according to the NAG test and the ABA test. It released a substantial amount of metal acidity upon oxidation of the sulphide minerals, suggesting that upon ARD development, tailings could be an elevated source of metal release to receiving waters.

3.3.3 ARD Potential of Overburden and Lake Sediments

A summary of the ARD potential for overburden and lake sediments is provided in Table 16. Results are detailed in Appendix E.

Table 16: ARD Potential for Overburden and Lake Sediments

Rock Type	Number of Samples Collected	Sample Count			Average Sulphide (wt.%)	Bulk ARD Designation
		non PAG	uncertain	PAG		
Overburden	12	12	0	0	<0.005	Non PAG
Lake Sediment	5	5	0	0	0.04	Non PAG

Sulphide sulphur concentrations in overburden are all below detection limit, and are present but in low concentrations in lake sediments where they range from 0.03 to 0.07 wt%. The carbonate buffering capacity is low to below detection limits in most samples. Paste pH values of the overburden samples are circum-neutral, ranging from 6.2 to 8.5, corroborating the low amount of buffering capacity in some of the samples. Despite their lack of buffering capacity, the overburden and lake sediments are non PAG given their very low sulphide content.

3.3.4 ARD potential of Road Construction Materials

All esker samples tested show no potential to generate ARD (Appendix A). This stems from the low sulphide content and sufficient buffering capacity, and is corroborated by neutral to alkaline paste pH, NAG pH and SFE pH values.

Vault Pit waste rock has a variable ARD potential, largely defined by the sulphur content. The Agnico Eagle operational dataset and results of additional testing correlate well together (Figure 12). Results show that in general, material with a total sulphur content below 0.2% reports a CaNPR > 2, and thus is designated as non PAG as previously proposed (Golder 2005). Material with total sulphur content between 0.2% and 0.3% could also be non PAG depending on the CaNP (Figure 12).

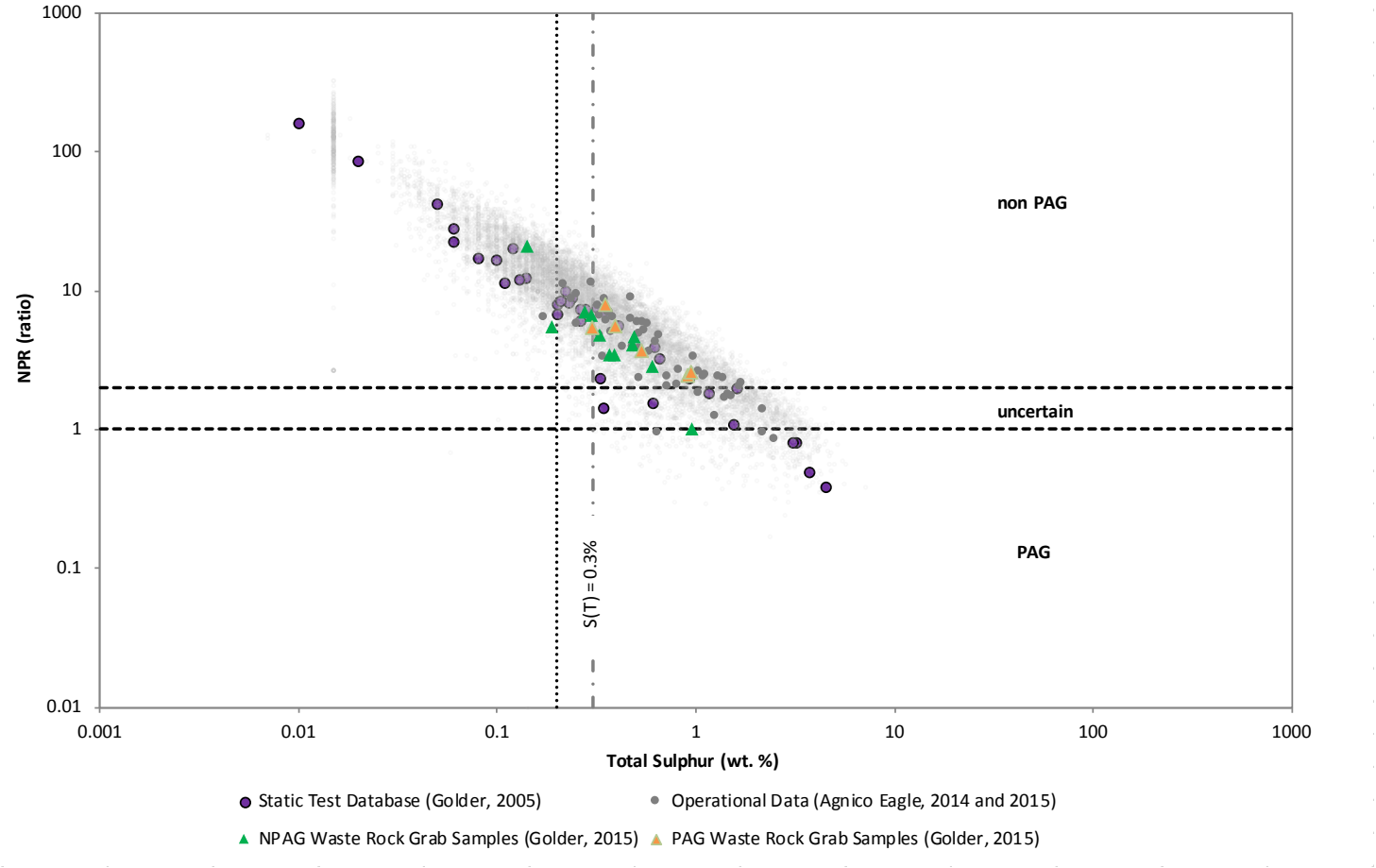


Figure 12: Comparison of the Vault WRSF grab samples (Golder, 2015), the Vault operational sample database (Agnico Eagle, pers. commun. 2014 and 2015), and the Vault waste rock geochemical characterization results (Golder, 2005)

3.4 Metal Leaching Potential

3.4.1 Short-Term Leach Tests (SFE)

3.4.1.1 Waste Rock, Ore and Tailing

Leachate quality results for waste rock, ore and tailings samples are presented in Appendix E.5. Results are compared to Meadowbank Effluent Limits for the Vault and Portage areas as outlined in Water License #2AM-MEA1525 (NWB, July 2015). Table 17 summarizes parameters that exceed the screening criteria.

Table 17: Summary of SFE Leachate Exceedances to Screening Criteria

Rock Type	Rock Unit	Number of Samples Collected	Average Final pH	Average As (mg/L)	Parameters in Exceedance of Effluent Quality Criteria[1]	
					Portage Criteria	Vault Criteria
Ultramafic	V4a – 0a	21	9.5	1.8	As(14), P(4)	As(17), P(4)
	V4a – 0b	14	9.4	0.32	As(6)	As(8)
Iron Formation	S9E – 3b	22	9.5	2.2	Al(1), As(18), P(4)	Al (1), As(19), P(8)
Greywacke	S3C – 3b	43	9.2	0.057	Al(19)	Al (19), As(8),
	S3S – 3b	23	9.8	0.055	As(1)	As(2)
Chert	S10 – 3b	14	8.7	0.072	Al(2), Cd(1)	Al (2), As(5), Cd(1)
Mafic Volcanic	V3 – 1b	8	9.7	0.37	As(2)	As(2)
Intermediate Intrusive	I2 – 8b	5	9.5	0.027	Al (3)	Al (3)
Ore	various	13	9.1	1.1	As(5), P(1)	As(9), P(1)
Tailings	mixed	1	8.2	0.02	n.e.	n.e.

Note: [1] Number in parenthesis represents the number of samples that exceed their respective effluent limit.
n.e. no exceedances.

The final pH values of the SFE leachates are circum-neutral to alkaline with values ranging from 6.4 to 10.0, corroborating the presence of some available buffering capacity to neutralize acid in the short term in all samples.

For all rock types investigated, the concentrations of almost all leachate parameters are below Portage and Vault mine effluent criteria (NWB 2015), except for arsenic which is elevated in ore and in a number of samples from most waste rock types (except Intermediate Intrusive); aluminum in some samples of central greywacke, chert and intermediate intrusive waste rock; and phosphorous in some ultramafic and iron formation waste rock samples.

Total versus leachable arsenic for all waste rock and ore samples is illustrated in Figure 13.

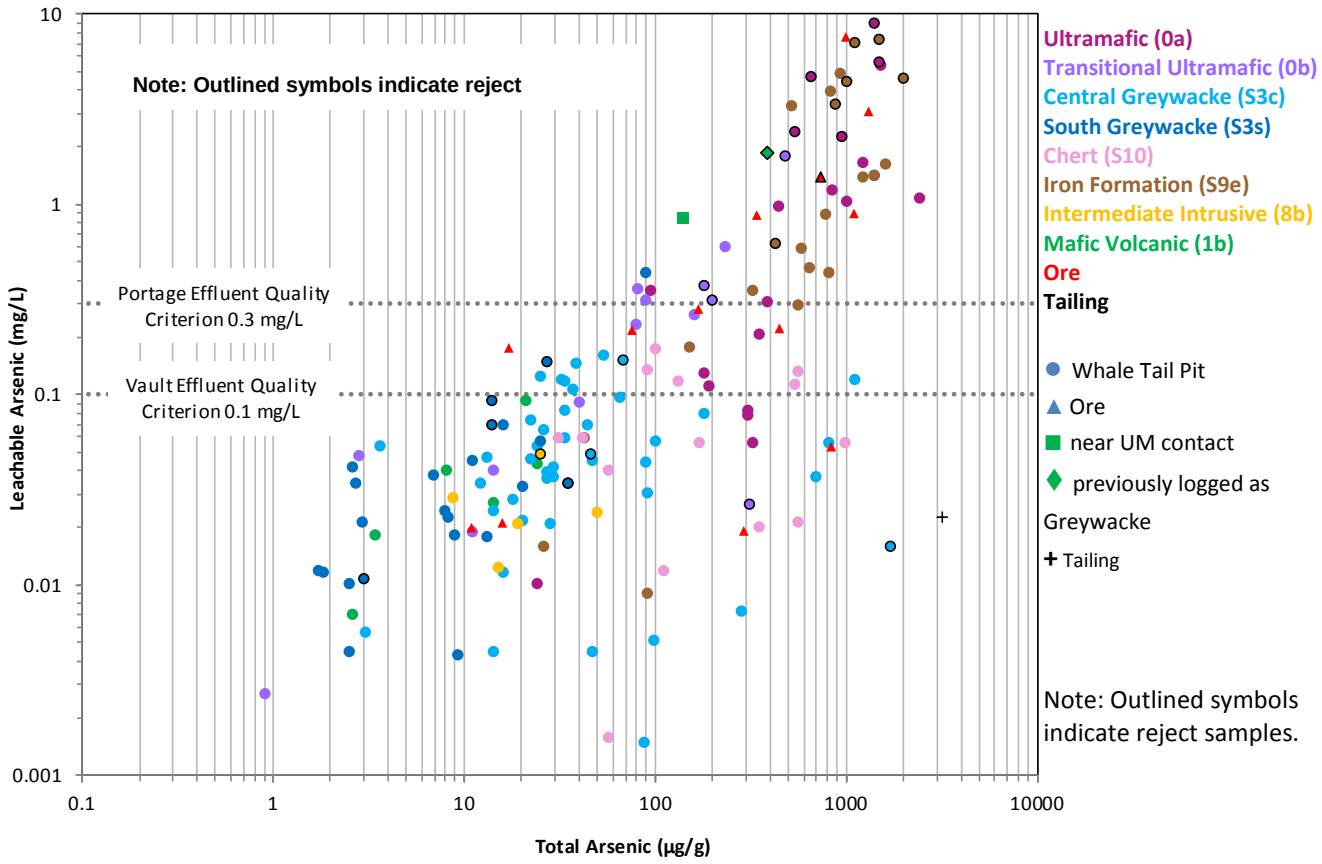


Figure 13: Total Arsenic vs Leachable Arsenic in Waste Rock, Ore, and Tailings

Arsenic is leached at concentrations that are within one order of magnitude or above the Meadowbank effluent limits (0.1 mg/L for Vault and 0.3 mg/L for Portage) in many samples. The average arsenic concentration in leachates of samples from both greywacke units (central and south), chert and intermediate intrusive waste rock units is below the effluent limits, but the average leachable arsenic in ultramafic and iron formation waste rock, as well as in ore, exceeds these limits. The leachate in most samples of ultramafic and iron formation waste rock and in ore exceeds the criteria by more than one order of magnitude.

There is a good correlation between total and leachable arsenic in ultramafic, iron formation and south greywacke waste rock (R^2 >0.50). The correlation is weaker in ore (R^2=0.35), and absent in the other rock types.

The large majority of greywacke (S3C and S3S) and mafic volcanic samples, as well as all chert and intermediate intrusive samples, do not show elevated leachable arsenic in the SFE leaching tests; most concentrations meet the Portage effluent criterion for arsenic regardless of their initial arsenic concentration, although most samples do have less than 100 µg/g (ppm) total arsenic. A few of these samples exceed the Vault effluent criterion. Two (2) of the eight (8) samples of mafic volcanic waste rock take exception; their leachable arsenic exceeds both Portage and Vault effluent criteria. One sample having 0.85mg/L arsenic in leachate is proximal to the contact with 0b ultramafic rock. It has similar compositional characteristics, most prominently, it has a CaNP value that falls in the much higher range of those of ultramafic rock. The other mafic volcanic rock was previously logged as greywacke and has an anomalously high total and leachable arsenic content for the mafic volcanic lithology.

Samples that exhibit higher leachable arsenic (iron formation and ultramafic samples as well as the two mafic volcanic samples discussed previously) tend to have a total arsenic content that is greater than 100 µg/g (ppm), and almost all of these samples leach arsenic at concentrations that exceed the Portage effluent criterion. Samples with less than 60 ppm total arsenic leach concentrations meet the Vault effluent criteria. Of note, however, is that exceedances to the effluent criterion in these aggressive laboratory leaching tests do not necessarily infer that contact water quality will also exceed this criterion.

The only other parameters that show exceedances to Portage effluent criteria are aluminum and phosphorous in multiple samples, and one marginal exceedance of the cadmium criterion in a chert sample (0.0032 mg/L compared to the criterion of 0.002 mg/L for both Portage and Vault effluent).

Concentrations of aluminum in leachate are exceeded in samples of central greywacke, chert, iron formation and intermediate intrusive waste rock, while phosphorous is exceeded in ultramafic and iron formation rock. Aluminum and phosphorous concentrations are only slightly higher than the Meadowbank effluent limits.

Aluminum exceedances in short-term leach tests are often an artefact of the test protocol itself resulting from vigorous shaking and passing of very fine aluminum-bearing colloids through the filter rather than an occurrence in true soluble form.

Phosphorous is exceeded in all samples where arsenic concentrations are leached at concentrations above 3.0 mg/L.

The actual leachability of phosphorous, aluminum, arsenic and all other elements are verified though kinetic testing, discussed in Section 3.5 of this report.

3.4.1.2 Overburden and Lake Sediments

Leachate quality results for overburden and lake sediment samples are presented in Appendix E.3, and parameters exceeding screening criteria are summarized in Table 18.

Table 18: Summary of SFE Leachate Results

Rock Type	Number of Samples Collected	Average Final pH	Average As (mg/L)	Parameters in Exceedance of Portage Effluent Quality Criteria	Parameters in Exceedance of Vault Effluent Quality Criteria
Overburden	12	5.7	0.0036	Al (1)	Al (1)
Lake Sediment	5	5.0	0.17	Al(1), As(1), Ni (2)	Al (1), As(3), Ni (2)

Note: the number in parenthesis represents the number of samples that exceed the effluent limit

The final average pH values of the SFE leachates are 5.7 and 5.0 for the overburden and lake sediment samples respectively, attesting to the lack of available buffering capacity in these samples.

Most samples report leachate parameter concentrations that meet Portage and Vault effluent criteria with few exceptions; namely, aluminum in overburden and lake sediments, as well as marginal exceedances of arsenic and nickel in lake sediments only.

Leachate aluminum concentrations marginally exceed the Portage and Vault effluent criterion (of 1.0 mg/L dissolved aluminum) for one lake sediment sample and one overburden sample. Overburden concentrations range from 0.3 to 1.1 mg/L, while lake sediment aluminum concentrations range from 0.009 to 1.0 mg/L.

Total versus leachable arsenic for all overburden and lake sediment is illustrated in Figure 14.

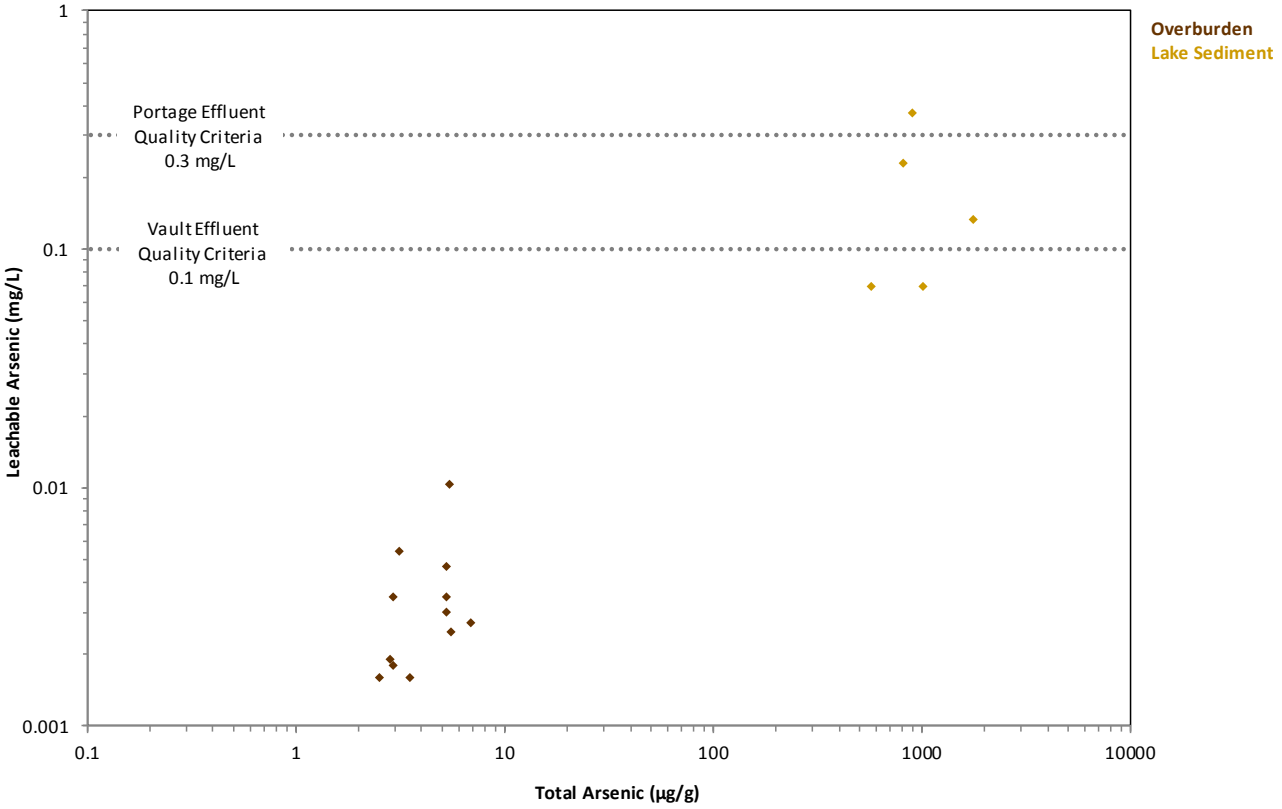


Figure 14: Total Arsenic vs Leachable Arsenic in Overburden and Lake Sediments

Arsenic concentrations range from 0.07 to 0.37 mg/L in the lake sediment samples. Leachate nickel concentrations exceed the 0.2 mg/L Portage and Vault effluent limit for nickel in two lake sediment samples, but the average concentration for all lake sediment samples (0.12 mg/L) is below the effluent limit. No other parameters exceed the Meadowbank effluent limits.

3.4.1.3 Road Construction Materials

Some esker samples report metal leachate concentrations that are naturally above the CEQG guideline for the protection of aquatic life (CCME 2007); namely arsenic, copper, and lead (Appendix A). However, leachate concentrations are within the same order of magnitude as the respective CEQG guideline, and thus are not expected to be a concern to receiving water quality. Iron concentrations reported for all esker samples exceed the CCME criterion (0.3 mg/L) by two to three orders of magnitude, but given the neutral pH values of the test leachates, it is likely that elevated iron concentrations are related to colloidal iron (total iron) rather than dissolved.

Based on these results, the Vault waste rock leachate chemistry was not required to be further assessed in this or the Amaruq Exploration Access road materials study.

3.4.1.4 Process Water

Chemical analysis results for the process water are presented in Appendix E.6. For the purposes of this assessment, the results are compared to both the Portage and Vault effluent limits; however, the water will either be reclaimed or mixed with natural lake water during closure of the Meadowbank Mine and therefore not discharged directly to the receiving environment. For more details on modelling closure refer to the Tailings Management Plan in Volume 8 Appendix 8.A-1. The limits apply to the attenuation pond discharge rather than direct, unrecycled mill effluent, which this sample emulates.

For comparative purposes, the process water quality from the one tailings sample tested meets the Portage average monthly effluent limits for most of the regulated parameters except:

- arsenic at 0.33 mg/L exceeds the limit of 0.3 mg/L;
- ammonia at 69 mg/L exceeds the limit of 16 mg/L; and
- total cyanide at 2.02 mg/L exceeds the limit of 0.5 mg/L.

It should be noted that the cyanide destruction process and cyanide dosage used for the generation of this sample may not necessarily reflect the final mill effluent total cyanide content at Meadowbank Mine. Agnico Eagle will use the current cyanide destruction circuit at Meadowbank Mine.

All other parameter concentrations are below Portage and Vault effluent limits.

3.5 Kinetic Leaching Tests

All but one kinetic leaching tests on waste rock and ore are on-going, and the tailings HCT has been stopped. The HCT for the central greywacke PAG sample AMQ-ENV-28 (cycle 24) was terminated because ARD developed and stable leaching rates occurred. The tailings sample (cycle 44) was terminated because the test time extended beyond anticipated tailings exposure time and stable leaching trends were observed.

Leachate concentrations in time-series graphs are presented in Appendix F.1. The results are presented up to the cycles identified in Table 19. Results are compared to Portage and Vault Effluent Limits.

3.5.1 Leaching Tests on Waste Rock and Ore

Based on the kinetic leaching test results, most leachates from the waste rock and ore samples are circum-neutral (values ranging from 6.7 to 8.1), including two PAG greywacke samples, one PAG chert sample and both ore samples. These samples have maintained a leachate with low conductivity and sulphate content throughout the test period to date. The other PAG greywacke sample AMQ-ENV-28 was acid from the first cycle onward, at a pH of around 4.2. Sulphate content and conductivity for this sample are moderately high. A re-analysis of the sample source for this HCT using a replicate riffle split of the sample (Sections 2.3 and 3.6) yielded a much higher sulphur content (1.2 wt% compared to the 0.56 wt% initially reported for the sample), but similar metal content, NP and SFE values for parameters of interest. At 1.2 wt% sulphur, this sample has the 75th percentile sulphur content of the central greywacke lithology but the 20th percentile carbonate buffering capacity. At the latter sulphur content, it represents a high ARD potential end member of this unit.

The PAG greywacke and chert samples remained neutral, corroborating the immediately-available buffering capacity in these samples (Table 19).

Almost all parameter concentrations in HCT and column test leachates are below Vault and Portage effluent criteria except for the PAG greywacke sample AMQ-ENV-28 (Table 19) which, because of its acidic drainage, has higher parameter concentrations than leachate from the other HCT and columns.

One exception is arsenic, which exceeds both Meadowbank effluent limits by more than one order of magnitude in the HCT and leaching columns of ultramafic and iron formation waste rock. In ore, only the first few cycles of leaching exceed the effluent criteria but concentrations decreased to below these levels thereafter. In all other waste rock types arsenic meets both Meadowbank effluent criteria for arsenic. The bulk mafic volcanic column, which contains the one sample located proximal to the contact with ultramafic rock (and reported an elevated static test leachate arsenic content), also released arsenic concentrations that slowly rose to slightly exceed the Portage effluent criterion after 8 weeks of testing.

In ultramafic and iron formation rock, arsenic shows stable leaching rates from the beginning of testing in both HCT and columns; no decreases were observed over the test period so far. Arsenic leaching is on a slight decreasing trend for greywacke, chert and intermediate intrusive.

These different arsenic leaching behaviours suggests a different mineralogical occurrence of arsenic in ultramafic and iron formation rock compared to greywacke, chert and intermediate intrusive rock.

Table 19: Summary of Kinetic Weathering Test Results to Date

Kinetic Test	Rock Type	Rock Code	Sample Information		Kinetic Results			
			Sample ID	ARD Potential (ABA)	Last Leaching Cycle Analyzed	pH at Last Leach Cycle	Parameters in Exceedance of Portage Effluent Quality Criteria	Parameters in Exceedance of Vault Effluent Quality Criteria
HCT	Ultramafic	V4a - 0a	AMQ-ENV-32	Non PAG	28	7.1	As	As
	Iron Formation	S9E – 3b	AMQ-ENV-43	Non PAG	28	7.0	As	As
	Greywacke	S3C – 3b	AMQ-ENV-37	Non PAG	28	7.0	n.e.	n.e.
	Greywacke	S3C – 3b	AMQ-ENV-18	PAG	28	6.7	n.e.	n.e.
	Greywacke	S3C – 3b	AMQ-ENV-28	PAG	24	4.1	pH(<6.0), Ni	pH(<6.0), Ni
	Chert	S10 – 3b	AMQ-ENV15-133	PAG	9	7.1	n.e.	n.e.
	Greywacke	S3C – 3b	AMQ-ENV-40	PAG	28	6.2	n.e.	n.e.
	Intermediate Intrusive	I2 – 8b	AMQ-ENV-114	Non PAG	28	6.8	n.e.	n.e.
	Ore	S3C – 3b	AMQ-ENV15-144	PAG	9	7.7	As	As
	Ore	SE9 and 0b	Composite	PAG	25	6.7	n.e.	As
	Tailing	mixed	RE-13872/ RE-13874	PAG	40	7.4	n.e.	n.e.
Leaching Column	Ultramafic	V4a - 0a	C-1	Non PAG	24	8.1	As	As
	Iron Formation	S9E – 3b	C-2	Non PAG	24	7.8	As	As
	Greywacke	S3C – 3b	C-3	PAG	24	7.8	n.e.	n.e.
	Greywacke	S3C[1] and S3S	C-4	Uncertain	24	7.7	n.e.	n.e.
	Ultramafic	V4a - 0b	C-5	Non PAG	20	8.1	As	As
	Chert	S10 - 3b	C-6	PAG	20	7.7	n.e.	n.e.
	Mafic Volcanic	V3 - 1b	C-7	Non PAG	10	8.0	As	As
	Ultramafic and Iron Formation	0b and S9E	C-8	Non PAG	Day 75	7.7[2]	As (all 3 ports)	As (all 3 ports)

Notes:
[1] Contains samples of S3C located farther than 10 m away from the ore zone
[2] Represents the average pH over the 3 sampling ports

In addition to arsenic, the following trends were observed for both HCT and column tests:

- Sulphate concentrations and conductivity are generally stable inferring low oxidation rates of sulphide minerals in PAG samples even under accelerated weathering conditions in the laboratory. In ultramafic, iron formation and mafic volcanic rock, the low sulphate content and slightly higher conductivity may reflect low sulphur content rather than slow oxidation rate since the reactive gersdorffite sulphide mineral was identified as the likely source of labile arsenic.
- Alkalinity, and the major ions that are released from its consumption (calcium, magnesium), are low and have a stable trend.
- Trace metal concentrations (Co, Cu, Fe, Mn, Ni, Pb) in leachates are low and on a stable to slightly decreasing trend in most HCT samples and columns except for the acidic AMQ-ENV-28 sample, in which metal concentrations are up to two orders of magnitude higher than in other HCTs. Nickel concentration in this sample exceeds the Portage and Vault effluent limit in the first cycle, while the other metals meet the limits.

The liquid to solid ratio of the leaching tests has an effect on parameter concentrations. In leaching columns where the solid to liquid ratio is higher than in HCTs (10:1 vs 1:1 respectively), higher concentrations are noted for major ions (alkalinity, SO_4, Ca, K, Mg, Na) and a number of trace elements (As, Ba, B, Co, F, Li, Mo, Ni, Sb, Se, Sr, Tl, Sb, U and V) in most lithologies for which there are HCTs and columns, as well as Cd, Mn and P in greywacke only.

The effect of liquid to solid ratio was further demonstrated, (i.e., showing similar trends) in leaching column cycles where the amount of leaching water was modified to simulate 3 dryer cycles, where concentrations increased, and one wet flushing cycle where concentrations decreased. Concentrations differed by approximately the same factor as the liquid to solid ratio difference.

Submerged Column Leaching Test on Waste Rock

The data for submerged leaching columns are tabulated and illustrated in time-series graphs included in Appendix F-2.

After 75 days (2.5 months) of submergence, the waste rock charge material consisting of mixed iron formation and ultramafic waste rock shows relatively stable contact water quality for most parameters.

The water collected from Port 1, located in the waste rock pore space 5 cm down from the rock-water interface, had consistently higher parameter concentrations than water in the column above the rock surface where water quality was similar at both ports (5 cm and 25 cm above the rock-water interface). Concentrations in the pore space were initially up to two orders of magnitude higher than in the water column, but in time, trended toward similar concentrations.

For some parameters, pore space concentration decreased with time (for Sb, Cl, Cr, Li, Mo, Ni, Pb, Se, V), while for others, pore space concentrations remained steady (major ions: Al, Ca, Mn, Na, K, SO_4, conductivity and alkalinity, and some trace elements including: As, Be, Bi, B, Cd, Co, Cu, F, P, Si, Sn, Th, Tl, U). The stable pore-water concentrations for these parameters suggests an occurrence in soluble minerals; their concentration in the pore space being solubility controlled rather than related to sulphide mineral oxidation, which would be arrested upon submergence (concentrations would go down in time as chemicals diffuse out of the pore space into the

water column). This corroborates the mineralogical observation and supporting literature review suggesting that gersdorffite, which is present in ultramafic and iron formation rock samples, is a source of labile arsenic upon flooding (MEND 2004).

Notwithstanding these trends, the water quality from all three ports continues to meet Vault and Portage effluent levels for most parameters except arsenic. Arsenic concentrations in the pore space (Port 1) remained steady since the beginning of testing at 1.5 to 2.4 mg/L, while concentrations in the water column above increased from 0.02 mg/L to 0.6 mg/L, or twice the Portage effluent limit of 0.3 mg/L.

3.5.1.1 Mineral Consumption Rates and Evaluation of ARD Potential from Kinetic Tests

Mineral depletion calculations provide an estimate of time to depletion of acid generating (sulphide) minerals and acid-consuming minerals (carbonates), and thus can be used to evaluate the likelihood of the generation of ARD and approximate time to onset of ARD. Theoretical mineral depletion calculations for pyrite and buffering capacity were completed based on the MEND (2009) guidance using the static ABA data, the measured sulphate and alkalinity release rates, and the leachate volumes. The calculations were completed for all kinetic test samples. Depletion calculations are theoretical in nature and assume that the sulphide oxidation and buffering mineral dissolution rates observed in the tests will remain stable in the future, which may not be the case when active ARD is initiated (sulphide oxidation rates are substantially higher at acidic pH where oxidation is bacterially-mediated). Based on this assumption, and testing results to date, the estimated maximum number of years to full depletion of sulphide and buffering minerals are summarized in Table 20.

Depletion calculation results are in general agreement with the static ABA results indicating that the ultramafic, iron formation, mafic volcanic and intermediate intrusive lithologies will remain buffered with carbonate minerals, and largely outlast the time required for complete oxidation of sulphide minerals in these samples.

Conversely, the chert samples could acidify in the HCT in another year, and in 2 years in the leaching column. The PAG greywacke leaching column would be amenable to acidification in more than 4 years. This time frame for the laboratory leaching columns (1.5 to 5 years or 78 to 260 weeks) represents more than a decade in the field (Section 2.2.4.2). This period of time is likely underestimated because it does not consider 1) the buffering capacity afforded by the other waste rock with which it will be mixed in the pile, 2) slower sulphide mineral oxidation kinetics at lower site temperatures and 3) the 8 months of freezing conditions and lower rock to liquid ratio in the field that slows the rate of buffering mineral dissolution (consumption). In summary, the calculated delay to the onset of ARD in PAG samples is substantially longer than the 7 years of mine construction, operations and closure, with the possible exception of the upper tier high sulphur – low buffering capacity greywacke or chert rock.

Table 20: Mineral Depletion Calculations

Cell	Rock Type	Sample	Rock Code	S(T) %	NP	CaNP	CaNPR	NPR	ARD (CaNPR)	Depletion Calculations					
										Years to Depletion				ARD (Kinetic Test)	Effective ARD Potential
										S_T	S^{2-}	CaNP	NP		
HCT	Ultramafic	AMQ-ENV-32	V4a – 0a	0.03	124	127	145	142	Non PAG	5.7	1.7	233	227	Non-PAG	non-PAG
	Iron Formation	AMQ-ENV-43	S9E – 3b	0.03	290	312	302	281	Non PAG	7.6	1.9	577	536	non-PAG	non-PAG
	Greywacke	AMQ-ENV-37	S3C – 3b	0.16	23	18	3.6	4.7	Non PAG	64	41	62	81	PAG	uncertain
	Greywacke	AMQ-ENV-18	S3C – 3b	0.31	14	6.5	0.68	1.5	PAG	80	50	21	46	PAG	PAG
	Greywacke	AMQ-ENV-28	S3C – 3b	0.6	8.9	2.8	0.16	0.51	PAG	20	18	2.5	8.8	PAG	PAG
	Greywacke	AMQ-ENV-40	S3C – 3b	1.3	14	14	0.33	0.34	PAG	100	86	36	33	PAG	PAG
	Chert	AMQ-ENV15-133	S10 – 3b	2.8	13	2.1	0.02	0.15	PAG	60	50	1.0	7.0	PAG	PAG
	Intermediate Intrusive	AMQ-ENV-114	I2 – 8b	0.05	17	6.5	4.5	12	non PAG	13	9	37	98	non-PAG	non-PAG
	Ore	AMQ-ENV15-144	S3C – 3b	3.9	41	24	0.19	0.34	PAG	907	643	31	54	PAG	PAG
	Ore - UM / IF	AMQ-ENV15-076/ -089 composite	Ob / S9E	3.6	72	44	0.38	0.63	PAG	86	79	43	70	PAG	PAG
	Tailing	RE-13872/RE-13874	-	3.3	-6.8	19	0.22	-0.08	PAG	13	11	2.6	-2.1	PAG	PAG
Leaching Column	Ultramafic	C-1	V4a – 0a	0.13	100	92	23	25	Non PAG	21	16	246	267	non-PAG	non-PAG
	Iron Formation	C-2	S9E – 3b	0.69	75	62	2.9	3.5	Non PAG	66	59	118	142	non-PAG	non-PAG
	Greywacke	C-3	S3C – 3b	1.0	19	8	0.2	0.6	PAG	19	14	4.5	9.7	PAG	PAG
	Greywacke	C-4	S3C1 and S3S	0.31	31	16	1.7	3.3	Uncertain	22	17	26	50	Non-PAG	non-PAG
	Ultramafic	C-5	V4a – 0b	0.08	88	76	29	34	Non PAG	7	5	121.6	151.2	non-PAG	non-PAG
	Chert	C-6	S10 – 3b	2.2	25	8	0.1	0.4	PAG	24	16	2.2	7.7	PAG	PAG
	Mafic Volcanic	C-7	V3 – 1b	0.05	71	46	32	50	Non PAG	2.1	1.2	55	84	non-PAG	non-PAG

3.5.2 Humidity Test Cells on Tailings

Although the tailings sample is PAG with relatively elevated sulphur and sulphide content and little mineral buffering capacity, the sample remained neutral after 44 cycles of accelerated weathering,. This was likely due, at least in part, to the added lime at the time of processing. The concentrations of all parameters analyzed were below both Vault and Portage Effluent limits after 44 cycles, with the following general trends observed:

- The leachate pH remained neutral, ranging between 7.0 and 8.2.
- Sulphate concentrations decreased from 720 mg/L at cycle 0 to 130 mg/L at cycle 5 and remained steady since cycle 5 at around 90 mg/L. This consistent release of sulphate could reflect low level sulphide oxidation.
- Conductivity steadily decreased from an initial concentration of 1620 us/cm to 222 us/cm at cycle 21, where it remained stable to cycle 44.
- Arsenic concentrations remained stable since the beginning of testing, where leachate concentrations were slightly below the Vault effluent criteria of 0.1 mg/L.
- Chloride concentrations were above 100 mg/L, yet below Meadowbank effluent criteria for the first 5 cycles, then decreased to below method detection limit at cycle 10 where concentrations remained until HCT termination.
- Copper concentrations rose above the Portage and Vault Effluent Limits at cycles 3 and 5, but decreased thereafter to below Effluent Limits. From cycle 15 to cycle 44, concentrations remained steady at around 0.0004 mg/L.
- Silver showed peak concentrations at cycles 2 and 3 but continually and substantially decreased thereafter.
- The cyanide and nitrate concentrations declined steadily during the first 4 weeks of testing. This reflects the process water being flushed out of the sample. Cyanide analyses were stopped after 5 weeks.

3.6 Laboratory QA/QC Results

To assess laboratory analytical precision, both duplicate and replicate analyses were performed on approximately 15% of the samples analyzed. Eight duplicates were used to assess the analytical repeatability, while the remaining replicate samples were collected after riffling to assess sample heterogeneity. Relative percent differences (RPDs) were calculated and evaluated following USEPA guidelines (USEPA, 1994), and are included in Appendix D.

The type of quality assurance/quality control (QA/QC) conducted, rationale for analysis and number of samples analyzed as part of the QA/QC program are described in Table 21.

Table 21: Summary of the QA/QC Program

Analysis or Sample Type	Number of Samples	Rationale
Duplicate analysis of same subsample (after riffle split)	9	Analytical repeatability
Riffle split duplicate samples from same crushed core	18	Assess sample homogeneity
Duplicate mineralogical analysis by XRD	2	Analytical precision

All QA/QC analytical results are presented in Appendix D with the exception of duplicate mineralogical analysis, which are included in the results table in Appendix E.1. Relative percent differences (RPD) between analytical results for each parameter were calculated following USEPA Guidelines for Inorganic Data Review (USEPA, 1994). In keeping with this guidance, the aqueous metal leach data were compared to an RPD of 20%, while results from chemical analysis and ABA for the waste rock and soil samples were compared to an RPD of 35%. This differentiation between water and soil/rock material is to compensate for increased sample heterogeneity, and thus difficulty in obtaining truly representative duplicates (USEPA, 1994).

Duplicates

Results suggest that the precision of the analytical results for constituents of environmental interest is acceptable for the purpose of evaluating potential environmental impacts. Although several parameters have RPD values greater than 20% for one or two samples, none of the parameters had consistently elevated RPD values. Furthermore, many RPD differences occurred at lower concentrations, and according to Fritz (1994), this is acceptable considering higher sample variability at low concentrations, and therefore no systematic error is suspected. The analytical data from SFE tests is therefore considered to have adequate repeatability.

Riffle Split Replicates

Eighteen (18) riffle split replicate samples were prepared and analyzed to provide an assessment on the heterogeneity of the samples, with a focus on the variability of the ABA within a sample. Some samples were also submitted for WRA and bulk metal parameters.

Overall, there was good agreement between the replicates and the original data in the solid portion of testing parameters. Out of the 63 parameters tested, most samples reported RPD differences less than 35% for more than 47 parameters. The ability of the acids used to digest the material precision does not completely dissolve all of the silicon in the sample which explains why this parameter was consistently showing RPD of greater than 60%.

There were two replicate samples which reported noticeable RPD differences; sample AMQ-ENV-28 and AMQ-ENV15-025. The replicate of sample AMQ-ENV15-025 reported an RPD of greater than 35% for almost half of the parameters tested. However, during sample collection Golder personnel noted that this sample was distinctively banded and contained numerous, thin calcite veins. This heterogeneity in geology likely explains the differences noted in the total metals, while the presence of the calcite veins may explain the large difference in the carbonate content (80% RPD). Meanwhile sample AMQ-ENV-28 also showed a noticeable difference between the replicate and the original sample in the ABA testing, but not in the total metals nor SFE leachate. This sample was collected by Agnico Eagle staff and no descriptions are available to assist in explaining the high

RPDs. However, because most other replicate samples reported low RPD differences, it is expected that the difference noted in the RPD for this sample is based on sample heterogeneity and not on laboratory methods.

Results of SFE parameters for the replicate samples show variability in the number of parameters with an RPD difference greater than 20%. Some samples report less than 10 parameters with an RPD greater than 20%, while others report 20 or more. No correlation exists between the samples with numerous RPD exceedances and its respective lithology. Sample AMQ-ENV15-027 (iron formation) was the only sample that showed a noticeable difference in the leachable arsenic content between the original sample and its replicate. During sample collection Golder personnel noted that this sample contained numerous, thin quartz and calcite veins, as well as a variable amount of disseminated sulphides; the latter of which could explain the variability of the arsenic content.

Overall, results of the replicate samples indicate that geochemical variability within a sample is possible, which based on visual observations in the field during sample collection, is not unexpected. Even though some geochemical variability is expected, results reported for all lithologies are considered representative and the results of the QAQC program do not change the ABA classification for the lithologies. Results further strengthen the position that during sample collection, caution must be taken to ensure that the material collected represent the lithology as much as possible; geological anomalies within the core samples (e.g., pockets of minerals (vugs), veins, zones of weathering, etc.) may skew testing results.

4.0 CONCLUSIONS

4.1 Summary of Geo-Environmental Properties of Mine Wastes

This report presents the results of the geochemical characterization program conducted to date on mining wastes that are expected to be produced from the exploitation of the Whale Tail Pit, and on materials planned to be used to build the exploration road to the deposit from the Meadowbank Mine. The tests completed to date include static geochemical tests and kinetic weathering tests to evaluate the chemical composition, acid-generation and metal leaching potentials and relative reactivity of ore, tailings, mine wastes and construction materials. Kinetic weathering tests are still on-going on samples of waste rock and ore from the deposit. The kinetic weathering test on the one tailings sample was stopped after 44 weekly cycles of leaching.

The following presents a summary of the results of the geochemical characterization program completed to date.

4.1.1 Waste Rock

Sulphide mineralization of the Whale Tail deposit carried arsenic, which is enriched in all waste rock types along with antimony and bismuth. In addition to arsenic, chromium and nickel enrichment is observed in ultramafic, iron formation and mafic volcanic waste rock. The Whale Tail deposit mineralization is low in sulphur.

The majority (73%) of waste rock is non PAG based on the low sulphur content and presence of excess carbonate buffering capacity, including: ultramafic, iron formation, mafic volcanic, southern greywacke and intermediate intrusive waste rock. Only a few samples from the ultramafic units are PAG. Given that the bulk of these lithologies contain ample excess carbonate-mineral (reactive) buffering capacity, they are not expected to require means to control ARD.

Sulphur is generally contained within the ore and waste rock host to ore including the chert central greywacke units. These units are PAG and represent 27% of waste rock to be generated by mining. The central greywacke samples are more silicified than the southern greywacke unit, which is associated with higher sulphide content and lower buffering capacity. Based on results to date, a total sulphur content of 0.1 wt% appears to be a suitably conservative theoretical cut-off criteria below which chert and greywacke waste rock are non PAG. NAG test results suggest this cut off could potentially be higher for iron formation and chert (0.2 wt% and 0.3 wt% respectively) but this needs to be verified with additional samples in this sulphur range.

Kinetic leaching tests performed on 1-kg samples and on large, bulk lithological samples corroborate results of static testing. One of the three PAG greywacke samples generated acidic drainage from initiation of testing and released elevated metal concentrations, while the other two samples continue to be buffered to pH values of 6.2 and 6.7 after 29 weeks of testing, slowly decreasing from a pH near 8 when the kinetic tests were initiated. The acidic greywacke represents a high ARD potential (high sulphur, low buffering capacity) end-member of this unit. None of the other PAG samples developed acidic conditions during the kinetic leaching testing completed to date (chert HCT, chert leaching column and central greywacke leaching column). Mineral depletion calculations together with consideration of the field time equivalency of laboratory kinetic tests infers the PAG rock will not generate ARD at site for more than a decade, as a minimum, if no ARD control mechanisms were put in place. This period of time is substantially longer than the 4 years of mine construction and operations. Accordingly, ARD control mechanisms will be implemented at the end of mining operations, with the possible exception of the

upper tier high sulphur – low buffering capacity greywacke or chert rock, which will be managed during operations.

Arsenic is the principal element of environmental interest. It is released at concentrations that exceed the Meadowbank Mine effluent limits from ultramafic and iron formation waste rock in the static and kinetic leaching tests and in submerged leaching tests completed to date. The mafic volcanic lithology has an overall low leachability except for one anomalous sample (initially logged as greywacke), and another sample near the contact with ultramafic rock. The latter was included in the column material, while the former was a pulverized reject and not included in the column charge material. This near ultramafic sample is likely to contribute most of the leachable arsenic from the mafic volcanic bulk column because all other samples included in the column contain low total and leachable arsenic. No other element is systematically released in leachate from any rock type, tailings, ore or sediments at concentrations that exceed the Vault or Portage effluent limits.

The amount of arsenic released by leaching is generally proportional to the total arsenic content of the sample. There is a moderate to weak correlation between total arsenic and sulphide sulphur in lithologies that leach lower concentrations of arsenic (central greywacke, chert and intermediate intrusive waste rock), but no such correlation is apparent in ultramafic and iron formation waste rock, tailings or ore. Mineralogical observations suggest that in ultramafic and iron formation waste rock, some of the arsenic is present as nickel arsenides. Nickel arsenides are documented to be reactive and can be sources of labile arsenic. No other sources of arsenic have been identified in these units based on the limited mineralogical studies completed to date on waste rock. Arsenopyrite is documented to be present in greywacke and in the ore but this mineral was not detected by X-ray diffraction in the samples analyzed in this study.

4.1.2 Ore and Tailings

The ore and tailings are enriched in arsenic, antimony, bismuth, selenium and silver, and are slightly enriched in chromium. Copper is elevated in tailings but given its low levels in ore and waste rock, this may reflect copper sulphate addition during the cyanide destruction process. Process water quality exceeds the Meadowbank effluent limits for ammonia, arsenic and total cyanide; however cyanide and ammonia concentrations will reflect the current practices at Meadowbank Mine.

Ore and tailings are PAG due to their elevated sulphur content and low buffering capacity. Ore storage at the Whale Tail site will be temporary and runoff will be directed into the attenuation pond; ore will ultimately report to tailings after processing at the Meadowbank Mill.

Kinetic testing on ore reports neutral pH conditions over the duration of testing to date, but the composite ore HCT (of iron formation and ultramafic ore) reports an arsenic concentration in leachate that exceeds the Vault effluent criteria (of 0.1 mg/L), while the other ore HCT reports arsenic concentrations above both Meadowbank effluent criteria. No other exceedances were noted.

The tailings sample showed neutral pH, low conductivity and sulphate concentration over 44 weeks of accelerated kinetic weathering testing. Metal and arsenic concentrations remained below both the Portage and Vault effluent criteria throughout testing. The cell was terminated after 44 weeks having reported steady state conditions and exceeded the anticipated exposure period of tailings at site. The maintenance of neutral pH, despite the solid sample having no buffering capacity, may be due to the presence of lime added to the tailings slurry in metallurgical

processing. It is expected that this added buffering capacity will eventually be consumed, after which the tailings may start to oxidize and develop acidic conditions, as suggested based on mineral depletion calculations.

4.1.3 Overburden and Lake Sediment

The overburden is non PAG based on the low sulphide sulphur content. The leachable arsenic content in these samples was low, below CCME aquatic life. However the fines content may be amenable to transport as suspended solids in runoff.

All lake sediment samples tested were non-acid generating based on the low sulphide content. The lake sediment samples are enriched in arsenic and the arsenic is somewhat leachable; three of the five samples had short term test leachate arsenic concentrations above the effluent limit for Vault, one sample was above the limit for Portage. The average leachate arsenic concentration for all five samples (0.15 mg/L) was also above the Vault effluent limit but meets the Portage limit for arsenic.

4.1.4 Haul Road Expansion Construction Materials

All esker samples tested from potential borrow sources showed no potential to generate ARD and all released low concentrations of chemical constituents (within one order of magnitude of the CCME aquatic life criteria).

Vault Pit waste rock has variable ARD potential, depending on the sulphur content of the sample analyzed. The current operational sampling plan is effective at defining the ARD potential of waste rock being extracted from the open pit and as such, can be relied upon to identify non PAG rock for construction use. Furthermore, grab samples from the existing non PAG waste rock stockpile adjacent to the Vault Pit confirmed that this material is non PAG and suitable for construction use. Using both the total sulphur and CaNPR segregation criteria will help to optimize the effectiveness of the on-going segregation program.

4.2 Mine Waste Management Considerations

The following mine waste management considerations are preliminary and subject to re-evaluation upon completion of additional studies, further sampling, and/or modification/finalization of the mining plan and mine waste management plans.

4.2.1 Waste Rock

The chert lithology (20% of waste rock) and the central greywacke (7% or less of the waste rock) will require means to prevent oxidation of sulphides to control ARD in the long-term, after the currently projected operations phase of the Project. Central greywacke waste rock can be further split into PAG and non PAG rock by sulphur content. Samples having less than 0.1 wt% are non PAG, while those having more than 0.8 wt% sulphur are PAG. The ARD potential of samples having 0.1 to 0.8wt% sulphur is uncertain; a larger database of results would be needed to define a higher than 0.1 wt% sulphur cut-off. On-going kinetic testing suggests that the delay to onset of ARD for PAG waste rock is likely to be much longer than the construction, operations and closure phases of the Project combined. Thus, ARD control measure will be implemented after mining operations are complete, with the possible exception of chert samples with higher tier ARD potential, which may need to be managed separately or have ARD control measures implemented during operations.

All other waste rock lithologies (73% of the waste rock) do not require means to control ARD. However, 63% of the non PAG rock at Whale Tail Pit (the ultramafic and iron formation lithologies; 46% of the total waste rock

tonnage) leaches arsenic at concentrations that exceed Meadowbank effluent limits in aggressive laboratory testing. This does not necessarily mean that water contacting this rock will exceed the comparative effluent criteria because conditions at site differ substantially from the aggressive leaching conditions of the laboratory tests; however, this suggests that arsenic is likely to be released from this rock upon contact with water, and drainage will be captured and monitored before discharge to the receiving environment.

4.2.2 Construction Materials

Mine Site

Early mine development rock from the Whale Tail deposit (intermediate intrusive, southern greywacke (S3S) and mafic volcanic) is being considered for use as infrastructure construction material on the mine site. The intermediate intrusive, southern greywacke, and mafic volcanic waste rock are non PAG and the leachate quality from kinetic tests meet the Portage and Vault effluent criteria for all parameters including arsenic. Based on laboratory data obtained in this study, these materials are suitable for use in construction. As a precaution, monitoring will continue to evaluate the sulphur content of the south greywacke waste rock and Agnico Eagle will avoid rock that contains more than 0.1 wt% sulphur. Similarly for mafic volcanic, a precaution will be taken to avoid using the rock located at or very near the lithological contact with greywacke and ultramafic rock.

Based on laboratory observations obtained in this study, ultramafic and iron formation waste rock may not be suitable for construction in areas where the rock will be in contact with water owing to the potential to release arsenic in leachate.

Access Road Construction Materials

There is no ARD or metal leaching concern from the esker material tested. This material can be used for road construction. The current waste rock monitoring program being followed by Agnico Eagle is effective at identifying non PAG waste rock being mined from the Vault Pit. The surface material being stored in the non PAG Vault waste rock stockpile is indeed non PAG and is suitable for use as road construction material. Although not tested as part of this study, previous studies (Golder 2005) have identified that the Vault Pit waste rock leaches relatively low concentrations of metals. Arsenic leaching from Vault Pit waste rock is not expected to pose a risk to the environment because of the small quantity of rock that will be exposed along the road corridor, especially considering that the majority of the top layer will be sourced from natural eskers. The quality of road contact water will be monitored during road construction.

4.2.3 Whale Tail Waste Rock Storage Facility

The use of the non PAG and non-leachable lithologies for construction material (approximately 4.5% of the waste) will leave a slightly greater proportion of PAG and leachable waste rock to be managed in the Whale Tail Waste Rock Storage Facility. Nevertheless, approximately 10.4 Mt of non PAG and non-leachable lithologies will be available to complete the closure of this facility. The tonnage proportions of waste rock that will report to the rock storage facility are presented in Table 22 along with a summary of their key geochemical properties.

Table 22: Proportion of Waste Rock to be Stored in the Whale Tail Waste Rock Storage Facility

Lithology	Lithology Code	Proportion (by weight) Reporting to WRSF[1]	Bulk ARD Designation (based on bulk CaNPR)	Arsenic Leachability
Ultramafic	V4a – 0a	23%	Non PAG	High
Transitional Ultramafic	V4a – 0b	19%	Non PAG	Moderate
Central Greywacke	S3C – 3b	9%	PAG	Low
Chert	S10 – 3b	27%	PAG	Low
Iron Formation	S9E – 3b	21%	Non PAG	High

Note: [1] Individual proportions may not sum to 100% due to rounding.

4.2.4 Tailings and Ore

Should some of the ore remain stockpiled permanently, the material will require means to control oxidation and ARD in the long term, however it is important to note that no long term storage of ore at the Whale Tail site is planned.

Tailings are also expected to require ARD control in the long term. Through design structures and closure planning, consideration has been given to avoiding the prolonged exposure of the tailings to prevent the development of localized acidification. The current closure plan for the Meadowbank TSF is to cover tailings at closure to minimize contact with the surrounding environment.

Whale Tail tailings contact water and process water will be captured and the water quality monitored prior to discharge according to standards currently approved for operation of the Meadowbank TSF.

4.2.5 Overburden and Lake Sediments

The shallow overburden has a suitable chemistry for use as construction materials; however, the fines portion of the samples could be amenable to erosion and transport as suspended solids in contact water. This will be monitored if overburden is used where it will be exposed to runoff. The chemistry and leachability of the deep overburden will be verified prior to its use.

Lake sediments may not be used in construction because of their potential for arsenic leaching, albeit not high levels of arsenic. If lake sediments are to be used for construction, these assumptions will be verified with additional samples prior to construction.

5.0 LIMITATIONS

This report was prepared for the exclusive use of Agnico Eagle Mines Limited (Agnico Eagle). The report, which specifically includes all tables, figures and attachments, is based on samples, data and information collected by Golder Associates Ltd. (Golder) and Agnico Eagle staff, and is based solely on the conditions of the properties at the time of sampling. It is supplemented by a previous investigation completed by Golder and Agnico Eagle as well as information and planned operational data provided by Agnico Eagle at the time of this report. Many of the mine design parameters and management plans are being developed concurrently and may change in the future.

Except where specifically stated to the contrary, the information contained in these reports was provided to Golder by others and has not been independently verified or otherwise examined by Golder to determine its accuracy or completeness. Golder has relied in good faith on this information and does not accept responsibility for any deficiency, misstatements, or inaccuracies contained in the reports as a result of omissions, misinterpretation, fraudulent acts or the persons interviewed or contacted or errors or omissions in the reviewed documentation.

The assessment of geochemical characteristics for mine wastes and potential borrow sites for the Project has been made using the results of chemical analysis of discrete samples from a limited number of locations, collected by the Agnico Eagle, Azimuth Consulting and Golder. Sample locations and borehole intervals collected by others were not observed or visited by Golder. Subsurface conditions may vary from these sample locations. Additional study, including further surface and subsurface investigation, can reduce the inherent uncertainties associated with this type of study. However, it is never possible even with exhaustive sampling and testing to dismiss the possibility that part of a site, of an ore zone, tailings or waste rock may have considerably different characteristics than the average properties identified by the sampling and analyses completed as part of this study.

The services performed as described in this report were conducted in a manner consistent with that level of care and skill normally exercised by other members of the geoscience profession currently practising under similar conditions, subject to the time limits and financial and physical constraints applicable to the services. Any use which a third party makes of this report, or any reliance on, or decisions to be made based of it, are the responsibilities of such third parties. Golder accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

The content of this report is based on information collected during our investigation, our present understanding of the site conditions, and our professional judgement in light of such information at the time of this report. This report provides a professional opinion and therefore no warranty is expressed, implied, or made as to the conclusions, advice and recommendations offered in this report. This report does not provide a legal opinion regarding compliance with applicable laws. With respect to regulatory compliance issues, it should be noted that regulatory statutes and the interpretation of regulatory statutes are subject to change.

The findings and conclusions of this report are valid only as of the date of this report. If new information is discovered in future work, including excavations, borings, or other studies, Golder should be requested to re-evaluate the conclusions of this report, and to provide amendments as or if required.

6.0 CLOSURE

We trust this report meets your current needs. Should you have any questions regarding this report, please contact the undersigned.

GOLDER ASSOCIATES LTD.



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Senior Geochemist / Associate

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MAPS

Map 1: Site Location
Map 2: Locations of Overburden and Lake Sediment Samples

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560000 580000 600000 620000 640000 660000 680000 700000 720000

7260000 7240000 7220000 7200000 7180000 7160000 7140000

N

Whale Tail Pit

Meadowbank Mine to Whale Tail (71.5 km)

Vault Pit

Baker Lake to Meadowbank Mine (107.5 km)

Baker Lake

Pipedream Lake

Tehek Lake

Schultz Lake

Baker Lake

7012 7014 7001 7009 7013 7016 7912

LEGEND

- COMMUNITY
- PROPOSED HAUL ROAD
- ALL WEATHER ROAD
- WHALE TAIL PIT
- MEADOWBANK OPERATION AND INFRASTRUCTURE
- CLAIM BOUNDARY
- WATERCOURSE
- WATERBODY



REFERENCE

1. HAUL ROAD OBTAINED FROM AGNICO EAGLE MINES LIMITED. 2015-10-14 FROM 6103-117-230-200_R0.dwg
2. CLAIM BOUNDARIES OBTAINED FROM AGNICO EAGLE MINES LIMITED.
3. WATERCOURSE AND WATERBODY DATA OBTAINED FROM CANVEC © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
4. INSET MAP DATA OBTAINED FROM ESRI.

DATUM: NAD 83 CSRS PROJECTION: UTM ZONE 14

12 0 12

KILOMETRES

PROJECT

AGNICO EAGLE

AGNICO EAGLE MINES LIMITED:
MEADOWBANK DIVISION
WHALE TAIL PIT PROJECT

TITLE

SITE LOCATION

Golder Associates

PROJECT		1541520	FILE No.	
DESIGN	JR	24 Mar. 2016	SCALE AS SHOWN	REV. 0
GIS	CDB	24 Mar. 2016		
CHECK	JR	09 May 2016		
REVIEW	LY	09 May 2016		

MAP 1

606000
606500
607000
7256000
7255500
7255000
N
A-P10
A-P5
BERM
AMQ-ENV15-119
AMQ-ENV15-118
AMQ-ENV15-117
WTN-4
WTN-5
WTN-1
WTN-2
WTN-3
EXPLORATION LAYDOWN AREA
CRUSHING AREA (2X CRUSHER)
ORE STOCKPILE 1
185
6508-WHL-001-001
AMQ-ENV15-116
NORTH CHANNEL
AMQ-ENV15-130
AMQ-ENV15-129
AMQ-ENV15-131
AMQ-ENV15-132
186
AMQ-ENV15-128
MAMMOTH CHANNEL CULVERT
AMQ-ENV15-125
AMQ-ENV15-127
AMQ-ENV15-126
EXPLORATION RAMP VENT RAISE
WHALE TAIL ATTENUATION POND
A16
MAMMOTH DIKE
ORE STOCKPILE 3

LEGEND

- LAKE SEDIMENT SAMPLE LOCATION
- OVERBURDEN SAMPLE LOCATION
- EXPLORATION LAYDOWN AREA
- ORE STOCKPILE
- STORM WATER STORAGE POND
- ATTENUATION POND
- DIKE
- NATURAL WATERSHED
- ROAD
- TEMPORARY ROAD
- DIVERSION CHANNEL
- COLLECTION CHANNEL
- CULVERT
- INTAKE WATER PIPE
- CONTACT WATER PIPE
- FRESHWATER PIPE
- WATERCOURSE
- WATERBODY

REFERENCE

1. INFRASTRUCTURE OBTAINED FROM AGNICO EAGLE MINES LIMITED FROM 6108-600-210-002_R2(2019)s.dwg.
2. WATERCOURSE AND WATERBODY DATA OBTAINED FROM PHOTOSAT
DATUM: NAD 83 CSRS PROJECTION: UTM ZONE 14

100 0 100
METRES

PROJECT
AGNICO EAGLE
AGNICO EAGLE MINES LIMITED:
MEADOWBANK DIVISION
WHALE TAIL PIT PROJECT

TITLE
LOCATIONS OF OVERBURDEN AND LAKE SEDIMENT SAMPLES

Golder Associates

PROJECT		1541520	FILE No.	
DESIGN	JR	24 Mar. 2016	SCALE AS SHOWN	REV. A
GIS	MH	09 May. 2016		
CHECK	JC	10 Jun. 2016		
REVIEW	VB	10 Jun. 2016		

MAP 2

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APPENDIX A

Geochemical Assessment of Proposed Construction Material for the Road to the Amaruq Deposit, Meadowbank Mine, Nunavut

TECHNICAL MEMORANDUM

DATE 23 December 2014 **PROJECT No.** 14-12623

TO Ryan Vanengen
Agnico-Eagle Mines Ltd. (AEM)

CC Erika Voyer, AEM

FROM Jennifer Cole and Valérie Bertrand **EMAIL** jcole@golder.com
vbertrand@golder.com

GEOCHEMICAL ASSESSMENT OF PROPOSED CONSTRUCTION MATERIAL FOR THE ROAD TO THE AMARUQ DEPOSIT, MEADOWBANK MINE, NUNAVUT

1.0 INTRODUCTION

Agnico-Eagle Mines Ltd. (AEM) proposes to construct and operate an exploration road to the Amaruq Project site located 50 km north of the Meadowbank Mine. In September 2014, AEM and Golder Associates Ltd. (Golder) initiated a geochemical study of materials proposed for use in construction of the road that included the following:

a) A geochemical characterization program for the proposed road construction material collected from a number of borrow source locations (eskers), and,

b) An overview of available data from the Meadowbank Vault deposit, an additional proposed material borrow source location for road construction proximal to the Meadowbank mine.

The geochemical characterization was carried out following methods that apply to mining wastes for comparative purposes only (MEND, 2009).

The objective of the program is to evaluate the chemical characteristics of the esker material and the Vault waste rock that is targeted for use in road construction. Static testing methods were used to assess the chemical composition of the esker material, its potential to generate acid rock drainage (ARD) and its potential to leach metals (ML) to the receiving environment upon exposure to ambient conditions. Results of this static testing program are meant to guide the selection of appropriate material for use as road fill, with particular emphasis on potential ARD/ML that could affect water quality in nearby water courses, in order to minimize potential effects to nearby lakes and streams.

This report discusses the static test results for the esker material, describes the methods utilized as part of the static testing program, and presents the interpreted test results.

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1.1 Regional and Site Geology

The local geology of the Meadowbank mine area is part of the Rae subprovince of the Canadian Shield Churchill Province (AMEC 2005), and consists of folded and variably metamorphosed Archean sedimentary rocks, quartzites, iron formation, and felsic to ultramafic volcanic rocks. Specifically, the deposits themselves consist of metasedimentary quartzite (QTZ group), banded iron formation of oxide-facies (IF group), felsic to intermediate sericitized and chloritized volcaniclastic tuffs and agglomerates (IV group), and mafic to ultramafic amphibolites and komatiites (UM group) (Sherlock et al., 2000; CRL, 2003).

The Vault deposit is located at the southern end of the road alignment and is currently being mined. It is mostly comprised of IV group rocks. These rocks contain massive lava flows and interbedded volcaniclastic sediments. Major mineral constituents are quartz and feldspar, with minor epidote, biotite, chlorite, and muscovite (Sherlock et al., 2000; CRL, 2003). The stratigraphy of the Vault deposit also includes fine-grained, feldspar-quartz-chlorite-sericite schists, oxide-facies iron formation, and medium-grained quartz-feldspar-sericite-chlorite schist (AMEC 2005). The chlorite-sericite alteration of the Vault deposit geology is thought to either reflect the original composition of the rocks pre-metamorphism, or be the product of local alteration caused by the mineralization process.

Overburden in the Meadowbank mine area consists of glacial till with an average thickness of 2.75 m; however local deposits have been noted to be over 10 m thick (CRL 2003). The glacial till varies from silty sand to gravel with minor boulders (Golder 2002). In the Golder (2005), sampled overburden is described as silty to sand-sized with between 25 to 50% pebble to boulder-sized particles.

1.2 Vault Deposit Operations ARD Database

AEM is considering the use of waste rock from the Vault deposit for construction of the southern portion of the road which will start at the Vault deposit. Data collected for internal control during operations at Vault was provided by AEM for comparison with the Vault geochemical database (Golder, 2005) to evaluate which Vault material might be appropriate for use in road construction. The Vault database from AEM included results for 11198 samples analyzed at the on-site laboratory for total sulphur, buffering capacity (NP), acid potential (AP), the ratio of NP to AP (NPR) and total carbon. The focus of the evaluation of these data was to define the minimum sulphur concentration below which Vault waste rock has no ARD potential. Note that metal leaching potential was not evaluated as relevant information was not available in the Vault operations database. Results of the ARD evaluation are reported in Section 3.2.

1.3 Sample Collection

A total of 24 samples were collected from six eskers by AEM staff with input from Golder. Five samples were collected from Esker 1 and 3, four samples were collected from Esker 2, 5, and 6, and two samples were collected from Esker 4. All samples were described as sand to gravel with sand based on grain size analysis (E. Voyer, pers. commun. November 10, 2014).

Samples were packaged by AEM staff and shipped from Meadowbank to SGS Canada Ltd. (SGS) of Lakefield, Ontario for geochemical testing.

2.0 ANALYTICAL METHODS

The test program incorporated a comprehensive set of standard geochemical methods to characterize the ARD and ML potential of the Esker samples collected by AEM. The static testing program included the following components:

- Potential to generate acidic drainage analyzed through acid base accounting (ABA) by the Modified Sobek method and the net acid generation test (NAG);
- Whole rock and trace element chemical composition; and,
- Readily leachable metals through short-term metal leach testing by a modified version of the shake flask extraction (SFE; Modified ASTM D3987).

All analyses were performed at SGS. Methods are discussed briefly in the following sections.

2.1 Potential for Acid Rock Drainage

The potential of geologic material to oxidize and generate acidic drainage was evaluated through acid-base accounting (ABA) and net acid generation (NAG) tests.

2.1.1 Acid Base Accounting (ABA)

ABA tests were conducted following the Modified Sobek method and included determination of the following parameters:

- Paste pH;
- Total sulphur and total carbon by induction furnace, (ASTM E 1915-01 methodology);
- Acid leachable sulphate sulphur and sulphide sulphur by difference;
- Carbonate (as %C) by pyrolysis; and,
- Bulk neutralization potential (NP; by the 1996 Modified NP method (MEND 2009)).

The following sections describe neutralization potential (NP) and acid potential (AP) in terms of acid rock drainage prediction.

Neutralization Potential (NP)

The NP is a bulk measurement of the acid-buffering capacity of a sample provided by various minerals of different reactivity and effective neutralization capacities. It is measured by digestion of a pulverized portion of the sample using a strong acid. This process consumes all minerals affected by the acid, including minerals that may not normally be reactive under ambient conditions and minerals that would not neutralize to pH-neutral conditions (such as silicate minerals; Blowes and Ptacek 1994). Because the type and occurrence of neutralizing minerals present in the sample will have a determining effect on whether the ARD potential of a sample will be realized, NP was evaluated using two different analytical techniques to more accurately determine the amount of available NP:

***1996 Modified NP Determination*:** Represents the bulk NP of the sample, including contributions from some reactive aluminosilicate minerals, if present. It is calculated from the amount of base consumed to neutralize acid remaining from the sample acid-digested at room temperature. This test method is modified from the Standard (Sobek) NP method which more aggressively dissolves neutralization minerals and may thus overestimate NP because of the higher digestion temperature (boiling).

***Carbonate NP*:** Represents the NP available from reactive carbonate minerals, including siderite and other divalent metal carbonates (which provide no net neutralization). It was calculated based on the carbonate ($\%CO_3$) content of the sample, assuming all carbonate is in the form of carbonate minerals.

Acid Potential (AP)

The AP is calculated from the sulphide sulphur content of the sample, on the basis that the entire sulphide content of the rock will oxidize to generate acid. The sulphide content of the sample is calculated as the difference between laboratory-measured total sulphur and sulphate sulphur.

Values of AP, NP and CaNP are reported as kg equivalent calcium carbonate per tonne of material.

2.1.2 Net Acid Generation (NAG)

Net acid generation (NAG) tests are used in combination with ABA to assess the ARD potential of a sample. The NAG test (Amira, 2002) uses hydrogen peroxide to induce complete oxidation of sulphide minerals and concurrent buffering by available minerals in the sample. Unlike ABA results, NAG tests do not provide an estimate of NP relative to AP, but rather the net effect of sulphide oxidation and buffering reactions within a sample. This test is particularly useful for samples containing low AP and low NP or where results from other tests yield conflicting predictions. Results of NAG pH are used to verify ARD potential, while NAG leachate chemical composition can be used to assess the potential degree of metal release upon sulphide oxidation.

2.1.3 ARD Screening criteria

For this study, ABA results were compared to the federal guidance Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials (MEND, 2009). The suggested screening criteria for inferring ARD potential is based on the net potential ratio (NPR) which is the ratio of NP to AP (or CaNP to AP for CaNPR). The screening criteria are summarized in Table 1.

Table 1: Acid-Base Accounting Screening Criteria (MEND 2009)

Potential for ARD	Initial Screening Criteria	Description	Classification
Likely	NPR < 1	Likely to generate acidity, unless sulphide minerals are non-reactive	PAG: Potentially Acid Generating
Uncertain	1 ≤ NPR ≤2	Neither clearly acid-generating nor acid consuming	Uncertain
Low	NPR > 2	Acid consuming	Non-PAG: non Potentially Acid Generating

According to MEND (2009), samples with NPR values less than 1 are considered potentially acid generating (PAG). Samples with NPR values between 1 and 2 are considered “possibly acid generating” if NP is insufficiently reactive or is depleted at a rate faster than the sulphide oxidation rate. Samples with NPR values greater than 2 have low potential to generate acid unless there is a significant preferential exposure of sulphide minerals along fracture planes, or extremely reactive sulphides in combination with insufficiently reactive NP.

Results of NAG tests were compared to criteria defined by AMIRA (2002) to identify the ARD potential of the test material, as summarized in the following table.

Table 2: Net Acid Generation Criteria (AMIRA, 2002)

NAG pH	NAG Acidity (to pH 4.5) kg H_2SO_4/t	Potential for Acid Generation
≥ 4.5	0	Non acid-generating.
< 4.5	≤ 5 [1]	Low potential to be acid-generating.
< 4.5	> 5 [1]	Potentially acid-generating.

Note: The NAG criteria used may vary from site to site with a cut-off up to 10 kg H_2SO_4/t (Source: AMIRA 2002).

2.2 Chemical Composition

The chemical composition of each sample was determined through whole rock and trace element analysis to establish the content of major rock-forming elements and trace metals, respectively. The following components were included in the chemical analyses:

- Metals, arsenic and selenium by inductively coupled plasma-mass spectroscopy (ICP-MS), with samples extracted using a concentrated strong acid solution of perchloric, nitric, hydrochloric and hydrofluoric acids; and,
- Whole rock analysis for major metals by borate fusion / x-ray fluorescence (XRF).

This information is used to assess the variation in chemical composition and to identify parameters for which concentrations are considered enriched compared with values that are considered to be representative of background (CCME guidelines). Results for the Esker material are compared against Canadian Soil Quality Guidelines (CEQG) for the Protection of Environmental and Human Health (industrial land use) (CCME 2007).

2.3 Metal Leaching Potential

Metal leaching tests are used to assess the potential of the waste rock to release readily-soluble metals to the receiving environment by simulating interaction between water and solids.

Samples were subjected to short-term leach tests using a modified version of the shake flask extraction (Modified ASTM D3987). Crushed samples (< 9.5 mm) were mixed with distilled water (4:1 solution to solid ratio) and the pulp was placed in a flask and shaken for 24 hours using a variable speed shaker table. Leachate was collected from the pump through a 0.45-μm filter and analyzed for pH, sulphate, and dissolved metals. The pH reported herein was measured after the shaking was complete and prior to filtration of the sample.

The results of the short-term leach tests were compared to Metal Mining Effluent Regulations (MMER) (DFO 2006) and Canadian Environmental Quality Guidelines (CEQG) for the Protection of Freshwater Aquatic Life (CCME 2007). These comparisons are an initial screening tool in the identification of potential constituents of concern. Short-term leach tests provide an estimate of which metals have a potential to leach from a particular material. However, actual drainage chemistry at site will almost certainly differ from short-term leach test results due to the inability of short-term leach tests to accurately simulate natural conditions, in particular transient processes such as sulphide oxidation. Short term leach test results are therefore only considered as indicators of potential constituents of interest rather than accurate representations of future drainage compositions.

2.4 Quality Assurance / Quality Control (QA/QC)

The objective of a quality assurance/quality control (QA/QC) program is to assess analytical precision and defensibility of reported results. A total of 10 sample splits were prepared by SGS and submitted for duplicate analysis for the SFE test.

To assess analytical precision, the relative percent difference (RPD) was calculated for each duplicate and its original sample based on USEPA Guidelines for Inorganic Data Review (USEPA, 1994). In keeping with this guidance, the results are compared to an RPD of 35%.

3.0 RESULTS

Static test results for samples collected from the proposed borrow source locations (eskers) are discussed in the following sections, followed by a summary of the evaluation of ABA data from the Vault deposit. Tabulated results and figures are presented in Attachment A, the QA/QC assessment is provided in Attachment B, and laboratory analytical certificates are included in Attachment C. The results tables include summary statistics for each esker sample group, including: minimum, maximum, average, median, 75th percentile and standard deviation.

3.1 Esker Material

3.1.1 Acid Generation Potential

The results provide information on the ARD potential of each sample as determined based on sulphide content, net neutralization potential (NNP = NP - AP), net potential ratio (NPR = NP/AP), and Carbonate NPR (CaNPR = CaNP/AP). The bulk ARD characteristics were calculated for each esker group, including bulk NNP (sum NP – sum AP), bulk NPR (sum NP / sum AP), and the resulting bulk ARD potential.

A summary of the ARD potential for each sample group is presented in Table 3.

Table 3: Summary of Esker Material ARD Potential

Proposed Location	Sample Count	Sample Count		Median Paste pH	Median NAG pH	Average Sulphide Sulphur (%)	Overall ARD Designation
		Non PAG	PAG				
Esker 1	5	5	0	7.6	6.6	0.01	Non PAG
Esker 2	4	4	0	7.2	6.2	<0.01	Non PAG
Esker 3	5	5	0	7.7	6.7	0.012	Non PAG
Esker 4	2	2	0	8.2	7.5	<0.01	Non PAG
Esker 5	4	4	0	7.5	6.5	<0.01	Non PAG
Esker 6	4	4	0	7.2	6.4	0.018	Non PAG

The esker samples show no potential to generate acid drainage. The low ARD potential stems from the low sulphide content and sufficient buffering capacity of the sample material. Sulphide sulphur content ranges from <0.01 to 0.018% and total sulphur ranges from <0.005 to 0.068%. The dominant species in most samples is sulphide sulphur as sulphate is almost always below the analytical method detection limit (MDL) (<0.01%), with the exception of one sample from Esker 6 which is contains equal amounts of sulphide sulphur and sulphate.

Paste pH is circum-neutral to alkaline and ranges from 6.7 to 8.9, suggesting the presence of a limited amount of natural buffering capacity. Bulk buffering capacity (NP) ranges from 2.3 to 8 tonnes $CaCO_3$ /100 tonnes, while carbonate buffering capacity (CaNP) ranges from 0.17 to 5.3. NP values are mostly greater than CaNP values, suggesting that buffering capacity is comprised of reactive carbonate minerals as well as less reactive aluminosilicates.

ARD classification (MEND 2009) is shown graphically for all samples in Figure 1. Based on the low sulphide sulphur content and high NPR values, all samples are classified as non acid generating (non PAG).

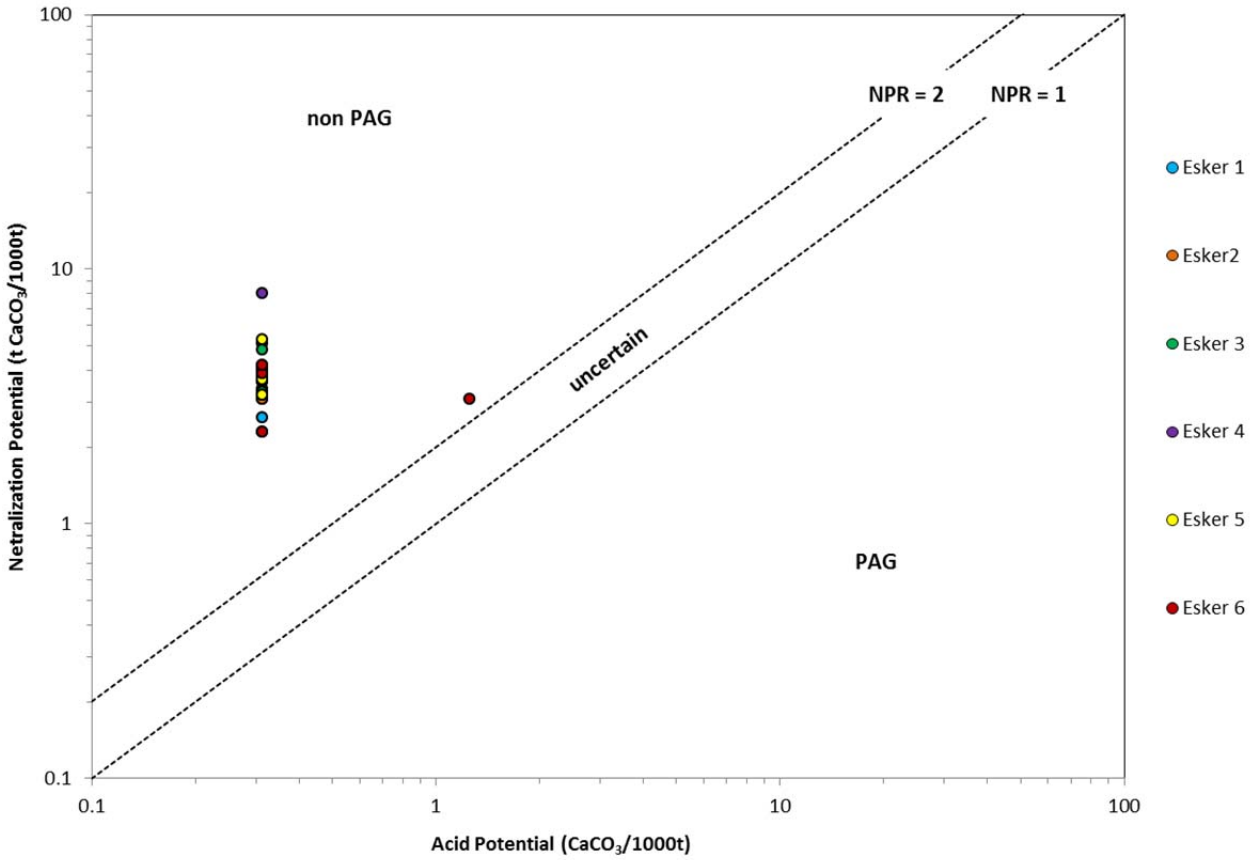


Figure 1: AP versus NP for Esker Samples

NAG pH values are circum-neutral and range from 6.1 to 8.3, with the exception of one sample from Esker 6 that reports a NAG pH of 4.3, however, this Esker 6 sample still has a low potential to generate acid based on its NAG acidity (to pH 4.5) value being less than 5 kg H_2SO_4/t.

3.1.2 Chemical Composition

Major constituents are similar for all esker samples and include silica and aluminum with minor iron, potassium, sodium, magnesium, and calcium. Major oxides show little variation within each sample group as demonstrated by the low standard deviation values, suggesting that the materials in the eskers have a relatively homogeneous chemical composition.

Trace element composition was evaluated against CEQG Soil Quality Guidelines for the Protection of Environmental and Human Health, Industrial Land Use (CCME, 2007). The results of these comparisons are summarized in Table 4. Trace metal content is also fairly homogeneous across samples and eskers with few exceptions. Arsenic, chromium, nickel, and copper naturally exceed CCME soil guidelines in some of the eskers.

Table 4: Summary of Trace Element Composition

Proposed Location	Sample Count	Parameter Concentrations Above CCME Industrial Soil Guideline [1,2]
Esker 1	5	**As,** Cr
Esker 2	4	As
Esker 3	5	**Cr, Ni**
Esker 4	2	**Cr, Ni**
Esker 5	4	**Cr, Ni**
Esker 6	4	Cu, Ni

Notes: [1] Where at least one sample exceeds CCME soil guidelines; and,
[2] bold values indicate parameters where median concentration exceeds CCME soil guidelines.

3.1.3 Metal Leaching Potential

Leach test results are compared with effluent regulations (MMER; DFO 2006) and CEQG guidelines for the protection of aquatic life (CCME 2007). Results are summarized in Table 3 below and include a summary of parameters exceeding screening criteria.

Exceedances in leachates from laboratory tests do not necessarily imply non-compliance of contact water quality. The quality of drainage water will depend on a number of factors that are difficult to reproduce in static leach tests such as the SFE test, including, but not necessarily limited to, material exposure, drainage patterns and site climate which affect the ratio of leaching solution to solid material and water-rock contact time. Rather, results discussed below underline the propensity of the till material to release metals in dissolved form when in contact with water.

Table 5: Summary of SFE Parameters Exceeding Screening Criteria

Proposed Location	Sample Count	Median Final pH	CEQG[1]	MMER[2]
Esker 1	5	7.2	pH (<6.5), As, Cu, Fe, Pb	n.e.
Esker 2	4	6.5	pH (<6.5), Cu[3], Fe, Pb[3]	n.e
Esker 3	5	7.1	Cu[3], Fe, Pb[3]	n.e.
Esker 4	2	7.8	As, Cu, Fe	n.e.
Esker 5	4	7.1	Cu[3], Fe[3]	n.e.
Esker 6	4	7.0	pH (<6.5), Cu, Fe	n.e

Notes: [1] Canadian Environmental Quality Guidelines for the protection of aquatic life (CCME 2007);
[2] Metal Mining Effluent Regulations (DFO 2006); and,
[3] Exceedance not observed in all duplicate samples
n.e. = no exceedances

The SFE pH values are below the CEQG range (pH<6.5) for some samples from eskers 1, 2 and 6. Values for all samples range from 6.2 to 8.7. For most samples, the neutral to alkaline pH values corroborate the available buffering capacity. Four samples reporting mildly acidic pH values (pH<6.5) may reflect either less available buffering capacity or the release of some stored metal acidity.

Arsenic, copper, iron, and lead concentrations naturally exceed CEQG guidelines. Arsenic concentrations are above the CEQG guidance (0.005 mg/L) in two samples from Esker 1 (0.0057 mg/L) and Esker 4 (0.0063 mg/L). Copper and lead report average concentrations above CEQG guidelines for some eskers; however, the averages are only slightly higher than CEQG and as such, these parameters are not expected to be of concern to receiving water quality. Further, not all duplicate pairs both report concentrations above criteria for copper and lead, further supporting the marginality of exceedances.

Iron presents average values two to three times higher than CEQG and exceeds the CEQG guidance (0.3 mg/L) in all samples. Chemical principles dictate that the dissolved iron concentration should be lower in the pH range of the SFE tests. In neutral to slightly alkaline pH conditions, the reported elevated concentrations of iron are likely to include a portion of colloidal (particulate) iron in the leachate sample. Colloidal particles are typically smaller than the 0.45-µm filter pore size used to collect leach test water for analysis and thus this solid-phase fraction can be reported as a dissolved phase concentration.

All parameters meet mine effluent criteria (MMER; DFO 2006) with the exception of pH in samples from Eskers 3 and 5.

3.2 Quality Assurance / Quality Control (QA/QC) Assessment

A total of 10 samples were analyzed as duplicates as described in Section 2.4. The QA/QC assessment results are presented in Attachment B.

Analytical precision was assessed through calculated relative percent differences (RPD) following USEPA Guidelines for Inorganic Data Review (USEPA, 1994). The USEPA guidance suggests that duplicates from solid samples be compared to an RPD of 35% and duplicates from liquid samples be compared to an RPD of 20% where both samples are above 5 times the method detection limit. Aqueous metal leach data from the SFE test are compared to an RPD of 35% since the duplicates are generated from solid sample splits rather than duplicates of the leachate water. Where one or both samples is not within 5 times the detection limit, these samples are compared with respect to whether they are within the detection limit of each other, and designated as “> MDL” where they are not.

Six or more (>50%) duplicates show RPD values above 35% or >MDL for arsenic, barium, calcium, cobalt, lithium, magnesium, manganese, lead, titanium, and zinc. The variability in concentration between the duplicate pairs is likely attributable to the low detected concentrations (Fritz 1994), where analytical precision is typically lower at lowest concentrations. Notwithstanding this, this variability does not alter the interpretation of the results. Therefore, although some parameters show relatively low analytical precision (below USEPA guidelines), no systematic error is suspected, nor does this affect the interpretation of results.

3.3 Vault Data Analysis

Operational data from the Vault deposit provided by AEM (“Vault Operational Data (AEM, 2014)”) was compared to static test database collected by Golder during project start-up (“Vault Static Test Database (Golder, 2005)”) in order to recommend a minimum sulphur cut-off concentration to be used to identify material that is non PAG. The NPR values for both datasets were compared to test the fit of both data sets and to determine the total sulphur content at which material may be considered as potentially acid generating per MEND (2009).

NPR values are plotted against total sulphur in Figure 2. The datasets correlate and in general, material with a total sulphur content below 0.2% reports an NPR > 2 and thus, is designated as non PAG. Therefore, <0.2% is recommended as an appropriate criterion for selecting non PAG Vault material for use in road construction.

With regards to the leaching potential of the Vault material, leachable parameters from the Vault Operational Data (AEM, 2014) database include aluminum, arsenic, and copper. When comparing the solid and leachable concentrations of these parameters against total sulphur, no correlation can be found that would serve as useful selection criteria in terms of metal leaching potential.

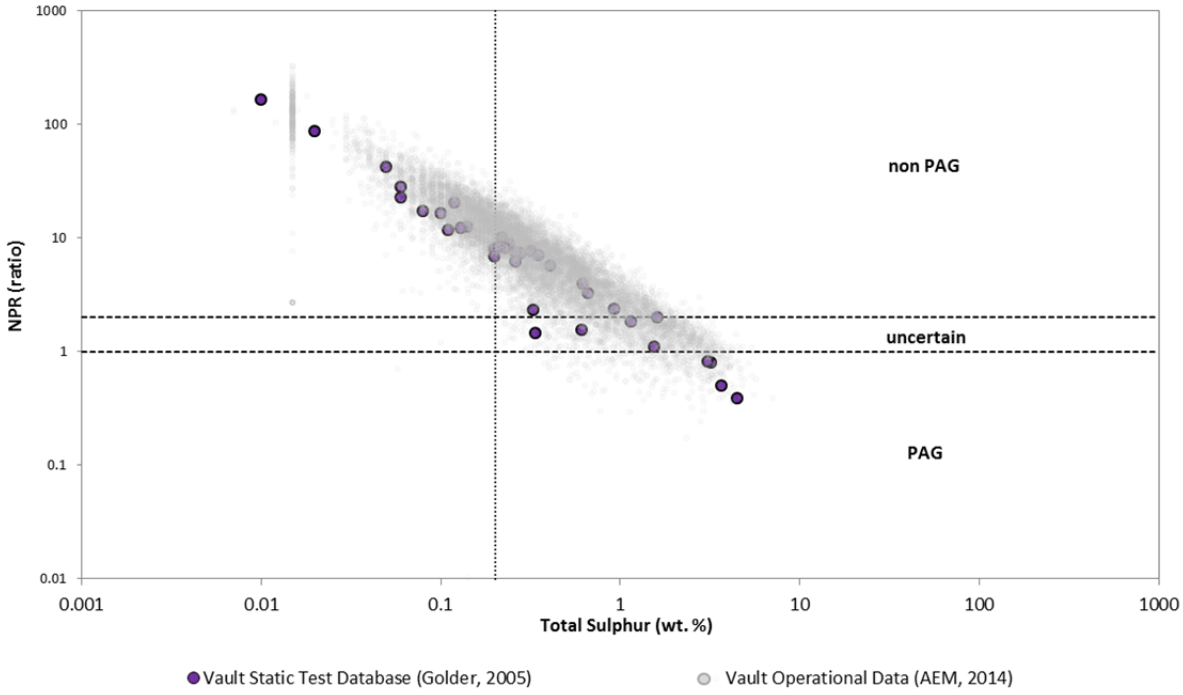


Figure 2: Comparison of Vault Static Test Database (Golder, 2005) and Vault Operational Data (AEM, 2014)

4.0 SUMMARY AND RECOMMENDATIONS

The geochemical characterization program conducted to date is limited to the use of static tests. With these results, it is possible to develop observations with regards to the general chemical characteristics of the materials tested. The following considerations are preliminary and are subject to re-evaluation upon further sampling if warranted, should the size or quantity of material extracted from a borrow area be substantially larger than anticipated. Observations include:

- All esker samples tested show no potential to generate ARD. This stems from the low sulphide content and sufficient buffering capacity, and is corroborated by neutral to alkaline paste pH, NAG pH and SFE pH values. As such, there is no concern for ARD generation from similar esker material used for road construction.
- For Vault waste rock, an appropriate selection criterion of total sulphur <0.2% is recommended to identify non PAG waste rock material to be used for road construction. Vault waste rock material with total sulphur less than 0.2% consistently shows NPR values above 2 and is thus this material would not be likely to generate ARD.
- Metal concentrations in leaching tests for the esker samples are below MMER (DFO 2006) criteria. However, some samples report metal leachate concentrations that are naturally above the CEQG guideline for the protection of aquatic life (CCME 2007), namely arsenic, copper, and lead. Concentrations are within

the same order of magnitude as the respective CEQG guideline and thus are not expected to be a concern to receiving water quality. Road material and borrow area contact water quality monitoring should be carried out post construction to verify this.

- Iron concentrations reported for all esker samples exceed the CCME criterion (0.3 mg/L) by two to three orders of magnitude. Given the neutral pH values of the test leachates, it is likely that elevated iron concentrations are related to colloidal iron (total iron) rather than in dissolved form.
- Based on a comparison of the two Vault datasets, no correlation was found between total sulphur and metal concentrations. Therefore, a selection criterion could not be developed with respect to metal leaching from Vault waste rock. Actual contact water quality from Vault waste rock and open pit could be considered to evaluate the leaching potential of this rock.

A strategy should be adopted whereby esker locations on higher topographic features are favoured over potential locations in low-lying areas. This strategy would utilize locations where the material can be stripped to the surrounding ground elevation rather than digging below grade and minimize the potential for water to accumulate at these locations. This strategy would reduce the requirement for future water management at the quarry locations.

5.0 LIMITATIONS

This report was prepared for the exclusive use of Agnico-Eagle Mines Ltd. (AEM). The report, which specifically includes all tables, figures and appendices, is based on samples, data and information collected by AEM and is based solely on the conditions of the properties at the time of sampling. It is supplemented by a previous investigation completed by Golder Associates Ltd. as well as information and operational data provided by AEM.

Except where specifically stated to the contrary, the information contained in these reports was provided to Golder Associates Ltd. by others and has not been independently verified or otherwise examined by Golder Associates Ltd. to determine its accuracy or completeness. Golder Associates Ltd. has relied in good faith on this information and does not accept responsibility for any deficiency, misstatements, or inaccuracies contained in the reports as a result of omissions, misinterpretation, fraudulent acts or the persons interviewed or contacted or errors or omissions in the reviewed documentation.

The assessment of geochemical characteristics for potential borrow sites for this project has been made using the results of chemical analysis of discrete till samples from a limited number of surface locations, collected by the client but not visited by Golder. Subsurface conditions may vary from these sample locations. Additional study, including further surface and subsurface investigation, can reduce the inherent uncertainties associated with this type of study. However, it is never possible, even with exhaustive sampling and testing, to dismiss the possibility that part of a site may have considerably different characteristics, such as different lithologies at depth.

The services performed as described in this report were conducted in a manner consistent with that level of care and skill normally exercised by other members of the geoscience profession currently practising under similar conditions, subject to the time limits and financial and physical constraints applicable to the services. Any use which a third party makes of this report, or any reliance on, or decisions to be made based of it, are the responsibilities of such third parties. Golder Associates Ltd. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

The content of this report is based on information collected during our investigation, our present understanding of the site conditions, and our professional judgement in light of such information at the time of this report. This report provides a professional opinion and therefore no warranty is expressed, implied, or made as to the conclusions, advice and recommendations offered in this report. This report does not provide a legal opinion regarding compliance with applicable laws. With respect to regulatory compliance issues, it should be noted that regulatory statutes and the interpretation of regulatory statutes are subject to change.

The findings and conclusions of this report are valid only as of the date of this report. If new information is discovered in future work, including excavations, borings, or other studies, Golder Associates Ltd. should be requested to re-evaluate the conclusions of this report, and to provide amendments as required.

6.0 CLOSURE

We trust this technical memorandum meets your current requirements. Please contact us should you have any questions or comments.

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Attachments: Attachment A – Compiled Data Tables and Figures
Attachment B – Quality Assurance / Quality Control Assessment
Attachment C – SGS Laboratory Certificates of Analysis

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ATTACHMENT A

Compiled Data Tables and Figures

Attachment A: Whole Rock Analysis
IVR Road
Agnico-Eagle Mines Ltd.

Sample ID	Location	Primary composition	SiO_2	Al_2O_3	Fe_2O_3	MgO	CaO	Na_2O	K_2O	TiO_2	P_2O_5	MnO	Cr_2O_3	V_2O_5	LOI	Sum
			%	%	%	%	%	%	%	%	%	%	%	%	%	%
E1-1	Esker 1	Gravel and sand	75	11	5.3	1.9	0.84	1.8	2.1	0.36	0.11	0.040	0.030	< 0.01	2.2	101
E1-2	Esker 1	Sand with gravel	75	12	4.7	1.7	0.52	2.0	2.6	0.39	0.11	0.030	0.020	0.010	2.1	101
E1-3	Esker 1	Sand with gravel	77	11	3.8	1.3	0.45	1.7	2.7	0.36	0.070	0.020	0.030	< 0.01	2.8	101
E1-4	Esker 1	Sand and gravel	78	11	4.2	1.5	0.47	1.6	2.2	0.32	0.080	0.020	0.020	< 0.01	2.2	101
E1-5	Esker 1	Gravel with sand	79	10	4.0	1.5	0.48	1.6	2.2	0.34	0.080	0.030	0.020	0.020	1.9	101
		MINIMUM	75	10	3.8	1.3	0.45	1.6	2.1	0.32	0.070	0.020	0.020	< 0.01	1.9	101
		MAXIMUM	79	12	5.3	1.9	0.84	2.0	2.7	0.39	0.11	0.040	0.030	0.020	2.8	101
		MEDIAN	77	11	4.2	1.5	0.48	1.7	2.2	0.36	0.080	0.030	0.020	0.010	2.2	101
		AVERAGE	77	11	4.4	1.6	0.55	1.7	2.4	0.35	0.090	0.028	0.024	0.012	2.3	101
		STANDARD DEVIATION	1.5	0.67	0.55	0.20	0.15	0.15	0.23	0.023	0.017	0.0075	0.0049	0.0040	0.31	0.16
		75TH PERCENTILE	78	11	4.7	1.7	0.52	1.8	2.6	0.36	0.11	0.030	0.030	0.010	2.2	101
E2-1	Esker 2	Sand with gravel	73	13	4.2	1.2	1.4	2.9	3.3	0.41	0.11	0.050	0.020	< 0.01	1.7	101
E2-2	Esker 2	Sand with gravel	74	12	4.3	1.3	1.1	2.4	3.2	0.40	0.12	0.030	0.020	0.010	2.1	101
E2-3	Esker 2	Sand with gravel	73	13	4.4	1.3	1.3	2.9	3.3	0.41	0.13	0.040	0.030	< 0.01	2.0	101
E2-4	Esker 2	Sand and gravel	75	12	4.0	0.99	1.1	2.8	3.2	0.37	0.10	0.030	0.030	< 0.01	1.6	101
		MINIMUM	73	12	4.0	0.99	1.1	2.4	3.2	0.37	0.10	0.030	0.020	< 0.01	1.6	101
		MAXIMUM	75	13	4.4	1.3	1.4	2.9	3.3	0.41	0.13	0.050	0.030	0.010	2.1	101
		MEDIAN	74	12	4.2	1.2	1.2	2.8	3.2	0.41	0.12	0.035	0.025	nc	1.9	101
		AVERAGE	74	12	4.2	1.2	1.2	2.7	3.3	0.40	0.12	0.038	0.025	nc	1.8	101
		STANDARD DEVIATION	0.82	0.33	0.16	0.12	0.13	0.22	0.076	0.016	0.011	0.0083	0.0050	nc	0.21	0.15
		75TH PERCENTILE	74	13	4.3	1.3	1.3	2.9	3.3	0.41	0.12	0.043	0.030	nc	2.0	101
E3-1	Esker 3	Sand	71	13	4.3	2.9	1.1	2.9	3.2	0.34	0.10	0.060	0.040	0.010	2.4	101
E3-2	Esker 3	Sand	70	13	4.7	3.2	1.1	2.9	3.0	0.35	0.10	0.040	0.040	< 0.01	2.4	101
E3-3	Esker 3	Sand with gravel	70	13	4.5	3.0	1.1	3.1	2.7	0.35	0.090	0.060	0.030	< 0.01	2.4	101
E3-4	Esker 3	Sand	70	13	4.6	2.9	1.2	2.9	2.9	0.36	0.090	0.050	0.030	0.010	2.7	101
E3-5	Esker 3	Sand	69	13	4.9	3.4	1.1	2.8	3.0	0.37	0.10	0.050	0.040	< 0.01	2.5	100
		MINIMUM	69	13	4.3	2.9	1.1	2.8	2.7	0.34	0.090	0.040	0.030	< 0.01	2.4	100
		MAXIMUM	71	13	4.9	3.4	1.2	3.1	3.2	0.37	0.10	0.060	0.040	0.010	2.7	101
		MEDIAN	70	13	4.6	3.0	1.1	2.9	3.0	0.35	0.10	0.050	0.040	nc	2.4	101
		AVERAGE	70	13	4.6	3.1	1.1	2.9	3.0	0.35	0.096	0.052	0.036	nc	2.5	101
		STANDARD DEVIATION	0.66	0.14	0.19	0.19	0.034	0.11	0.16	0.010	0.0049	0.0075	0.0049	nc	0.11	0.37
		75TH PERCENTILE	70	13	4.7	3.2	1.1	2.9	3.0	0.36	0.10	0.060	0.040	nc	2.5	101
E4-1	Esker 4	Sand with gravel	67	12	5.1	6.0	1.7	2.6	2.3	0.35	0.090	0.070	0.080	< 0.01	3.3	101
E4-2	Esker 4	Sand with gravel	71	12	4.6	3.6	1.2	2.8	2.5	0.38	0.090	0.050	0.050	< 0.01	3.0	101
		MINIMUM	67	12	4.6	3.6	1.2	2.6	2.3	0.35	0.090	0.050	0.050	<0.01	3.0	101
		MAXIMUM	71	12	5.1	6.0	1.7	2.8	2.5	0.38	0.090	0.070	0.080	<0.01	3.3	101
		MEDIAN	69	12	4.9	4.8	1.4	2.7	2.4	0.37	0.090	0.060	0.065	nc	3.1	101
		AVERAGE	69	12	4.9	4.8	1.4	2.7	2.4	0.37	0.090	0.060	0.065	nc	3.1	101
		STANDARD DEVIATION	1.7	0.050	0.25	1.2	0.23	0.095	0.11	0.015	0.0	0.0100	0.015	nc	0.16	0.10
		75TH PERCENTILE	70	12	5.0	5.4	1.5	2.8	2.4	0.37	0.090	0.065	0.073	nc	3.2	101
E5-1	Esker 5	Sand with gravel	75	12	3.2	1.9	0.74	2.7	2.9	0.29	0.080	0.030	0.030	< 0.01	2.1	101
E5-2	Esker 5	Sand	73	12	3.7	2.4	0.81	2.6	3.0	0.30	0.080	0.040	0.030	< 0.01	2.5	101
E5-3	Esker 5	Sand with gravel	73	12	3.6	2.3	1.1	2.9	3.0	0.32	0.090	0.040	0.040	< 0.01	2.1	100
E5-4	Esker 5	Sand and gravel	74	12	3.2	1.8	0.88	2.8	3.0	0.29	0.080	0.030	0.030	0.010	1.9	99
		MINIMUM	73	12	3.2	1.8	0.74	2.6	2.9	0.29	0.080	0.030	0.030	< 0.01	1.9	99
		MAXIMUM	75	12	3.7	2.4	1.1	2.9	3.0	0.32	0.090	0.040	0.040	0.010	2.5	101
		MEDIAN	74	12	3.4	2.1	0.85	2.7	3.0	0.30	0.080	0.035	0.030	nc	2.1	101
		AVERAGE	74	12	3.4	2.1	0.88	2.7	3.0	0.30	0.083	0.035	0.033	nc	2.1	100
		STANDARD DEVIATION	1.0	0.33	0.24	0.27	0.13	0.11	0.064	0.012	0.0043	0.0050	0.0043	nc	0.24	0.78
		75TH PERCENTILE	74	12	3.6	2.3	0.93	2.8	3.0	0.31	0.083	0.040	0.033	nc	2.2	101
E6-1	Esker 6	Gravel with sand	76	12	3.1	1.4	0.84	2.7	3.3	0.25	0.070	0.020	0.030	< 0.01	1.7	101
E6-2	Esker 6	Sand with gravel	75	12	3.0	1.4	0.88	2.6	3.2	0.29	0.090	0.030	0.020	< 0.01	2.3	101
E6-3	Esker 6	Gravel and sand	76	11	3.5	2.0	0.90	2.4	2.9	0.30	0.090	0.030	0.040	< 0.01	2.0	102
E6-4	Esker 6	Gravel and sand	76	11	2.9	1.6	0.92	2.5	2.9	0.28	0.070	0.030	0.030	< 0.01	2.3	101
		MINIMUM	75	11	2.9	1.4	0.84	2.4	2.9	0.25	0.070	0.020	0.020	<0.01	1.7	101
		MAXIMUM	76	12	3.5	2.0	0.92	2.7	3.3	0.30	0.090	0.030	0.040	<0.01	2.3	102
		MEDIAN	76	12	3.0	1.5	0.89	2.5	3.1	0.29	0.080	0.030	0.030	nc	2.1	101
		AVERAGE	76	12	3.1	1.6	0.89	2.5	3.1	0.28	0.080	0.028	0.030	nc	2.1	101
		STANDARD DEVIATION	0.42	0.41	0.20	0.24	0.030	0.12	0.19	0.019	0.010	0.0043	0.0071	nc	0.23	0.27
		75TH PERCENTILE	76	12	3.2	1.7	0.91	2.6	3.3	0.29	0.090	0.030	0.033	nc	2.3	101

CCME Soil Quality Guidelines for the Protection of Environmental and Human Health (Industrial Use)[1]					12	2000				22		87	91		50					
Sample ID	**Location**	**Primary composition**	**Ag**	**Al**	**As**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**	**Co**	**Cr**	**Cu**	**Fe**	**Hg**	**K**	**Li**	**Mg**	**Mn**	**Mo**
			µg/g	**µg/g**	**ug/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**
E1-1	Esker 1	Gravel and sand	0.15	44000	12	450	1.0	13	5200	0.17	11	80	13	32000	< 0.05	17000	19	9400	400	1.1
E1-2	Esker 1	Sand with gravel	0.23	48000	**14**	510	1.1	18	3300	0.19	10	**88**	18	29000	< 0.05	21000	17	8400	350	0.80
E1-3	Esker 1	Sand with gravel	0.15	39000	**14**	510	1.2	11	2500	0.18	8.3	81	11	23000	< 0.05	21000	17	6500	300	1.0
E1-4	Esker 1	Sand and gravel	0.13	40000	**16**	400	1.1	11	3000	0.15	8.8	70	11	25000	< 0.05	17000	17	7100	310	0.70
E1-5	Esker 1	Gravel with sand	< 0.01	21000	**13**	170	0.50	12	2000	0.070	9.1	44	12	23000	< 0.05	5600	14	6500	310	1.0
		MINIMUM	<0.01	21000	12	170	0.50	11	2000	0.070	8.3	44	11	23000	<0.05	5600	14	6500	300	0.70
		MAXIMUM	0.23	48000	16	510	1.2	18	5200	0.19	11	88	18	32000	<0.05	21000	19	9400	400	1.1
		MEDIAN	0.15	40000	14	450	1.1	12	3000	0.17	9.1	80	12	25000	nc	17000	17	7100	310	1.0
		AVERAGE	0.13	38400	14	408	0.98	13	3200	0.15	9.4	73	13	26400	nc	16320	17	7580	334	0.92
		STANDARD DEVIATION	0.071	9265	1.3	126	0.25	2.6	1094	0.043	0.96	15	2.6	3555	nc	5651	1.6	1144	37	0.15
		75TH PERCENTILE	0.15	44000	14	510	1.1	13	3300	0.18	10	81	13	29000	nc	21000	17	8400	350	1.0
E2-1	Esker 2	Sand with gravel	0.020	44000	5.9	520	1.4	6.8	8100	0.14	5.7	24	6.8	24000	< 0.05	20000	13	5400	340	0.70
E2-2	Esker 2	Sand with gravel	0.17	48000	**13**	660	1.6	12	6800	0.21	7.4	60	12	26000	< 0.05	26000	15	6200	330	0.80
E2-3	Esker 2	Sand with gravel	0.18	49000	5.0	660	1.7	7.1	7300	0.23	5.4	50	7.1	25000	< 0.05	25000	13	5600	370	0.70
E2-4	Esker 2	Sand and gravel	0.18	48000	6.0	640	1.8	7.8	7000	0.21	4.8	51	7.8	24000	< 0.05	26000	14	4600	320	0.70
		MINIMUM	0.020	44000	5	520	1.40	7	6800	0.140	4.8	24	7	24000	<0.05	20000	13	4600	320	0.70
		MAXIMUM	0.18	49000	13	660	1.8	12	8100	0.23	7	60	12	26000	<0.05	26000	15	6200	370	0.8
		MEDIAN	0.18	48000	6	650	1.7	7	7150	0.21	5.6	51	7	24500	nc	25500	14	5500	335	0.7
		AVERAGE	0.14	47250	7	620	1.63	8	7300	0.20	5.8	46	8	24750	nc	24250	14	5450	340	0.73
		STANDARD DEVIATION	0.068	1920	3.2	58	0.15	2.1	495	0.034	0.97	13	2.1	829	nc	2487	0.8	572	19	0.04
		75TH PERCENTILE	0.18	48250	8	660	1.7	9	7500	0.22	6	53	9	25250	nc	26000	14	5750	348	0.7
E3-1	Esker 3	Sand	0.090	50000	5.4	650	1.5	7.9	6300	0.16	12	**120**	7.9	26000	< 0.05	26000	18	15000	500	0.50
E3-2	Esker 3	Sand	0.13	48000	4.3	610	1.5	9.9	6500	0.16	13	**110**	9.9	27000	< 0.05	24000	18	16000	430	0.40
E3-3	Esker 3	Sand with gravel	0.12	49000	4.1	570	1.4	8.3	6500	0.17	11	**100**	8.3	27000	< 0.05	22000	18	15000	430	0.50
E3-4	Esker 3	Sand	0.10	51000	4.4	590	1.4	7.4	6700	0.18	12	**110**	7.4	27000	< 0.05	23000	17	15000	440	1.1
E3-5	Esker 3	Sand	0.14	49000	5.7	640	1.5	11	6500	0.18	14	**130**	11	29000	< 0.05	24000	20	17000	470	1.5
		MINIMUM	0.090	48000	4	570	1.40	7	6300	0.160	11.0	100	7	26000	<0.05	22000	17	15000	430	0.40
		MAXIMUM	0.14	51000	6	650	1.5	11	6700	0.18	14	130	11	29000	<0.05	26000	20	17000	500	1.5
		MEDIAN	0.12	49000	4	610	1.5	8	6500	0.17	12.0	110	8	27000	nc	24000	18	15000	440	0.5
		AVERAGE	0.12	49400	5	612	1.46	9	6500	0.17	12.4	114	9	27200	nc	23800	18	15600	454	0.80
		STANDARD DEVIATION	0.019	1020	0.6	30	0.05	1.3	126	0.009	1.02	10	1.3	980	nc	1327	1.0	800	27	0.43
		75TH PERCENTILE	0.13	50000	5	640	1.5	10	6500	0.18	13	120	10	27000	nc	24000	18	16000	470	1.1
E4-1	Esker 4	Sand with gravel	0.11	53000	6.9	490	1.1	16	11000	0.16	21	**250**	16	32000	< 0.05	18000	18	31000	570	0.50
E4-2	Esker 4	Sand with gravel	0.13	46000	4.8	510	1.5	7.5	6600	0.19	14	**160**	7.5	27000	< 0.05	19000	15	19000	460	0.50
		MINIMUM	0.110	46000	5	490	1.10	8	6600	0.160	14.0	160	8	27000	<0.05	18000	15	19000	460	0.50
		MAXIMUM	0.13	53000	7	510	1.5	16	11000	0.19	21	250	16	32000	<0.05	19000	18	31000	570	0.5
		MEDIAN	0.12	49500	6	500	1.3	12	8800	0.18	17.5	205	12	29500	nc	18500	17	25000	515	0.5
		AVERAGE	0.12	49500	6	500	1.30	12	8800	0.18	17.5	205	12	29500	nc	18500	17	25000	515	0.50
		STANDARD DEVIATION	0.010	3500	1.1	10	0.20	4.3	2200	0.015	3.50	45	4.3	2500	nc	500	1.5	6000	55	0.00
		75TH PERCENTILE	0.13	51250	6	505	1.4	14	9900	0.18	19	228	14	30750	nc	18750	17	28000	543	0.5
E5-1	Esker 5	Sand with gravel	0.20	46000	3.0	540	1.3	6.8	4300	0.16	7.1	83	6.8	19000	< 0.05	23000	14	9400	320	0.50
E5-2	Esker 5	Sand	0.12	48000	4.1	560	1.3	7.9	4800	0.16	9.9	**100**	7.9	23000	< 0.05	25000	15	12000	370	0.70
E5-3	Esker 5	Sand with gravel	0.13	48000	4.1	550	1.4	8.1	6400	0.16	8.7	**94**	8.1	21000	< 0.05	24000	15	12000	360	0.60
E5-4	Esker 5	Sand and gravel	0.11	47000	2.2	560	1.5	5.7	5100	0.17	6.5	80	5.7	19000	< 0.05	24000	13	8900	320	0.60
		MINIMUM	0.110	46000	2	540	1.30	6	4300	0.160	6.5	80	6	19000	<0.05	23000	13	8900	320	0.50
		MAXIMUM	0.20	48000	4	560	1.5	8	6400	0.17	10	100	8	23000	<0.05	25000	15	12000	370	0.7
		MEDIAN	0.13	47500	4	555	1.4	7	4950	0.16	7.9	89	7	20000	nc	24000	15	10700	340	0.6
		AVERAGE	0.14	47250	3	553	1.38	7	5150	0.16	8.1	89	7	20500	nc	24000	14	10575	343	0.60
		STANDARD DEVIATION	0.035	829	0.8	8	0.08	1.0	776	0.004	1.34	8	1.0	1658	nc	707	0.8	1436	23	0.07
		75TH PERCENTILE	0.15	48000	4	560	1.4	8	5425	0.16	9	96	8	21500	nc	24250	15	12000	363	0.6
E6-1	Esker 6	Gravel with sand	0.11	45000	7.4	550	1.4	5.8	4600	0.15	6.5	70	5.8	18000	< 0.05	26000	13	6300	320	0.50
E6-2	Esker 6	Sand with gravel	0.080	49000	2.4	560	1.4	170	5200	0.14	6.0	66	**170**	18000	< 0.05	26000	15	6700	310	0.40
E6-3	Esker 6	Gravel and sand	0.11	44000	3.7	510	1.4	7.2	5200	0.15	8.3	80	7.2	20000	< 0.05	22000	16	9800	310	0.50
E6-4	Esker 6	Gravel and sand	0.080	45000	3.1	540	1.2	4.9	5400	0.13	6.2	86	4.9	17000	< 0.05	23000	15	7600	300	0.40
		MINIMUM	0.080	44000	2	510	1.20	5	4600	0.130	6.0	66	5	17000	<0.05	22000	13	6300	300	0.40
		MAXIMUM	0.11	49000	7	560	1.4	170	5400	0.15	8	86	170	20000	<0.05	26000	16	9800	320	0.5
		MEDIAN	0.10	45000	3	545	1.4	7	5200	0.15	6.4	75	7	18000	nc	24500	15	7150	310	0.5
		AVERAGE	0.10	45750	4	540	1.35	47	5100	0.14	6.8	76	47	18250	nc	24250	15	7600	310	0.45
		STANDARD DEVIATION	0.015	1920	1.9	19	0.09	71.0	300	0.008	0.91	8	71.0	1090	nc	1785	1.1	1355	7	0.05
		75TH PERCENTILE	0.11	46000	5	553	1.4	48	5250	0.15	7	82	48	18500	nc	26000	15	8150	313	0.5

Notes:
1- CEQG Soil Quality Guidelines for the Protection of Environmental and Human Health, Industrial Land Use (CCME, 2007).
Bolded and shaded values = values above CCME Industrial Soil Guideline
nc = not calculated

CCME Soil Quality Guidelines for the Protection of Environmental and Human Health (Industrial Use)[1]				50	600		2.9				1	300	130		360
Sample ID	**Location**	**Primary composition**	**Na**	**Ni**	**Pb**	**Sb**	**Se**	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Y**	**Zn**
			µg/g	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**	**µg/g**
E1-1	Esker 1	Gravel and sand	12000	48	9.5	< 0.8	< 0.7	0.70	120	890	0.37	2.0	52	6.4	46
E1-2	Esker 1	Sand with gravel	13000	42	11	2.3	< 0.7	0.90	110	900	0.42	2.2	52	7.2	43
E1-3	Esker 1	Sand with gravel	12000	32	11	< 0.8	1.1	0.90	88	840	0.48	2.0	45	5.6	40
E1-4	Esker 1	Sand and gravel	11000	39	11	< 0.8	0.90	0.70	94	660	0.38	1.8	44	5.5	37
E1-5	Esker 1	Gravel with sand	510	33	7.1	< 0.8	1.4	< 0.5	32	420	0.16	1.7	30	7.5	35
		MINIMUM	510	32	7.1	<0.8	<0.7	<0.5	32	420	0.16	1.7	30	5.5	35
		MAXIMUM	13000	48	11	2.3	1.4	0.90	120	900	0.48	2.2	52	7.5	46
		MEDIAN	12000	39	11	nc	0.90	0.70	94	840	0.38	2.0	45	6.4	40
		AVERAGE	9702	39	9.9	nc	0.96	0.74	89	742	0.36	1.9	45	6.4	40
		STANDARD DEVIATION	4639	5.9	1.5	nc	0.27	0.15	31	183	0.11	0.17	8.0	0.81	4.0
		75TH PERCENTILE	12000	42	11	nc	1.1	0.90	110	890	0.42	2.0	52	7.2	43
E2-1	Esker 2	Sand with gravel	12000	17	14	< 0.8	1.3	1.3	130	1400	0.42	2.5	29	15	44
E2-2	Esker 2	Sand with gravel	16000	30	14	< 0.8	1.0	1.2	150	1400	0.50	2.4	37	9.8	40
E2-3	Esker 2	Sand with gravel	18000	22	14	< 0.8	1.6	1.5	140	1600	0.50	2.5	29	11	44
E2-4	Esker 2	Sand and gravel	19000	13	14	< 0.8	1.1	1.5	130	1500	0.49	2.6	26	12	40
		MINIMUM	12000	13	14.0	<0.8	1.000	1.200	130	1400	0.42	2.4	26	9.8	40
		MAXIMUM	19000	30	14	<0.8	1.6	1.50	150	1600	0.50	2.6	37	15.0	44
		MEDIAN	17000	20	14	nc	1.20	1.40	135	1450	0.50	2.5	29	11.5	42
		AVERAGE	16250	21	14.0	nc	1.25	1.38	138	1475	0.48	2.5	30	12.0	42
		STANDARD DEVIATION	2681	6.3	0.0	nc	0.23	0.13	8	83	0.03	0.07	4.1	1.93	2.0
		75TH PERCENTILE	18250	24	14	nc	1.4	1.50	143	1525	0.50	2.5	31	12.8	44
E3-1	Esker 3	Sand	19000	**89**	11	< 0.8	0.90	0.90	160	1200	0.41	1.3	42	5.5	45
E3-2	Esker 3	Sand	19000	**95**	11	< 0.8	1.3	0.80	160	1200	0.40	1.4	45	6.1	46
E3-3	Esker 3	Sand with gravel	21000	**82**	11	< 0.8	1.1	0.80	160	1300	0.35	1.4	42	6.3	46
E3-4	Esker 3	Sand	19000	**77**	11	< 0.8	1.1	0.90	160	1300	0.36	1.4	43	6.0	47
E3-5	Esker 3	Sand	18000	**110**	11	< 0.8	1.6	0.80	160	1300	0.39	1.4	47	6.2	50
		MINIMUM	18000	77	11.0	<0.8	0.900	0.800	160	1200	0.35	1.3	42	5.5	45
		MAXIMUM	21000	110	11	<0.8	1.6	0.90	160	1300	0.41	1.4	47	6.3	50
		MEDIAN	19000	89	11	nc	1.10	0.80	160	1300	0.39	1.4	43	6.1	46
		AVERAGE	19200	91	11.0	nc	1.20	0.84	160	1260	0.38	1.4	44	6.0	47
		STANDARD DEVIATION	980	11.5	0.0	nc	0.24	0.05	0	49	0.02	0.04	1.9	0.28	1.7
		75TH PERCENTILE	19000	95	11	nc	1.3	0.90	160	1300	0.40	1.4	45	6.2	47
E4-1	Esker 4	Sand with gravel	17000	**240**	8.4	< 0.8	1.3	0.70	150	1200	0.28	1.3	53	7.0	46
E4-2	Esker 4	Sand with gravel	19000	**130**	7.9	< 0.8	1.7	0.90	120	1200	0.34	1.4	45	6.3	45
		MINIMUM	17000	130	7.9	<0.8	1.300	0.700	120	1200	0.28	1.3	45	6.3	45
		MAXIMUM	19000	240	8	<0.8	1.7	0.90	150	1200	0.34	1.4	53	7.0	46
		MEDIAN	18000	185	8	nc	1.50	0.80	135	1200	0.31	1.4	49	6.7	46
		AVERAGE	18000	185	8.2	nc	1.50	0.80	135	1200	0.31	1.4	49	6.7	46
		STANDARD DEVIATION	1000	55.0	0.3	nc	0.20	0.10	15	0	0.03	0.05	4.0	0.35	0.5
		75TH PERCENTILE	18500	213	8	nc	1.6	0.85	143	1200	0.33	1.4	51	6.8	46
E5-1	Esker 5	Sand with gravel	18000	50	7.2	1.2	1.5	0.90	120	1000	0.33	1.5	27	6.1	34
E5-2	Esker 5	Sand	17000	**79**	8.3	< 0.8	0.90	0.80	120	1000	0.33	1.5	33	5.8	36
E5-3	Esker 5	Sand with gravel	19000	**63**	7.6	< 0.8	1.6	0.90	120	1200	0.32	1.8	33	7.5	35
E5-4	Esker 5	Sand and gravel	18000	45	8.0	< 0.8	1.7	0.80	140	1200	0.31	1.6	28	6.6	34
		MINIMUM	17000	45	7.2	<0.8	0.900	0.800	120	1000	0.31	1.5	27	5.8	34
		MAXIMUM	19000	79	8	1.2	1.7	0.90	140	1200	0.33	1.8	33	7.5	36
		MEDIAN	18000	57	8	nc	1.55	0.85	120	1100	0.33	1.6	31	6.4	35
		AVERAGE	18000	59	7.8	nc	1.43	0.85	125	1100	0.32	1.6	30	6.5	35
		STANDARD DEVIATION	707	13.2	0.4	nc	0.31	0.05	9	100	0.01	0.12	2.8	0.64	0.8
		75TH PERCENTILE	18250	67	8	nc	1.6	0.90	125	1200	0.33	1.7	33	6.8	35
E6-1	Esker 6	Gravel with sand	17000	31	10	< 0.8	1.6	1.0	110	1000	0.37	2.8	24	6.5	33
E6-2	Esker 6	Sand with gravel	17000	32	6.6	< 0.8	1.9	1.1	140	1200	0.29	1.4	27	6.5	35
E6-3	Esker 6	Gravel and sand	15000	**56**	7.3	< 0.8	2.4	0.80	120	1300	0.29	1.7	29	7.2	34
E6-4	Esker 6	Gravel and sand	15000	44	6.7	< 0.8	1.7	0.70	110	1100	0.27	1.3	25	5.4	31
		MINIMUM	15000	31	6.6	<0.8	1.600	0.700	110	1000	0.27	1.3	24	5.4	31
		MAXIMUM	17000	56	10	<0.8	2.4	1.10	140	1300	0.37	2.8	29	7.2	35
		MEDIAN	16000	38	7	nc	1.80	0.90	115	1150	0.29	1.6	26	6.5	34
		AVERAGE	16000	41	7.7	nc	1.90	0.90	120	1150	0.31	1.8	26	6.4	33
		STANDARD DEVIATION	1000	10.2	1.4	nc	0.31	0.16	12	112	0.04	0.60	1.9	0.64	1.5
		75TH PERCENTILE	17000	47	8	nc	2.0	1.03	125	1225	0.31	2.0	28	6.7	34

Notes:
1- CEQG Soil Quality Guidelines for the Protection of Environmental and Human Health, Industrial Land Use (CCME, 2007).
Bolded and shaded values = values above CCME Industrial Soil Guideline
nc = not calculated

Attachment A: ABA and NAG pH Results
IVR Road
Agnico-Eagle Mines Ltd.

Sample ID	Location	Primary composition	Paste pH	NAG pH	Total Carbon	Carbonate	CaNP	Total Sulphur	Sulphate	Sulphide Sulphur	NP	AP	Net NP	NPR	ARD Potential
			-	-	%	%	t $CaCO_3$/ 1000 t	%	%	%	t $CaCO_3$/1000t			Ratio	%
E1-1	Esker 1	Gravel and sand	7.8	7.7	0.16	0.17	2.8	0.0070	< 0.01	< 0.01	3.6	0.31	3.3	12	non PAG
E1-2	Esker 1	Sand with gravel	7.6	6.8	0.072	0.045	0.75	< 0.005	< 0.01	< 0.01	3.4	0.31	3.1	11	non PAG
E1-3	Esker 1	Sand with gravel	6.7	6.1	0.46	0.020	0.33	0.0060	< 0.01	< 0.01	2.6	0.31	2.3	8.4	non PAG
E1-4	Esker 1	Sand and gravel	7.5	6.4	0.14	0.020	0.33	< 0.005	< 0.01	< 0.01	2.3	0.31	2.0	7.4	non PAG
E1-5	Esker 1	Gravel with sand	7.6	6.6	0.072	0.030	0.50	0.0070	< 0.01	0.010	3.1	0.31	2.8	9.9	non PAG
		BULK ARD POTENTIAL									**15**	**1.6**	**13**	**9.6**	**non PAG**
		MINIMUM	6.7	6.1	0.072	0.020	0.33	<0.005	<0.01	< 0.01	2.3	0.31	2.0	7.4	
		MAXIMUM	7.8	7.7	0.46	0.17	2.8	0.0070	<0.01	0.010	3.6	0.31	3.3	12	
Esker 1		**MEDIAN**	7.6	6.6	0.14	0.030	0.50	0.0060	nc	nc	3.1	0.31	2.8	9.9	
		AVERAGE	7.5	6.7	0.18	0.057	0.95	0.0060	nc	nc	3.0	0.31	2.7	9.7	
		STANDARD DEVIATION	0.39	0.54	0.14	0.057	0.95	0.00089	nc	nc	0.49	0.0	0.49	1.6	
		75TH PERCENTILE	7.6	6.8	0.16	0.045	0.75	0.0070	nc	nc	3.4	0.31	3.1	11	
E2-1	Esker 2	Sand with gravel	7.3	6.2	0.18	0.010	0.17	< 0.005	< 0.01	< 0.01	3.1	0.31	2.8	10	non PAG
E2-2	Esker 2	Sand with gravel	7.1	6.3	0.31	0.015	0.25	< 0.005	< 0.01	< 0.01	4.2	0.31	3.9	14	non PAG
E2-3	Esker 2	Sand with gravel	6.9	6.1	0.26	0.025	0.42	< 0.005	< 0.01	< 0.01	3.6	0.31	3.3	12	non PAG
E2-4	Esker 2	Sand and gravel	7.4	6.5	0.20	0.050	0.83	< 0.005	< 0.01	< 0.01	5.1	0.31	4.8	17	non PAG
		BULK ARD POTENTIAL									**16**	**1.3**	**15**	**13**	**non PAG**
		MINIMUM	6.9	6.1	0.18	0.010	0.17	<0.005	<0.01	<0.01	3.1	0.31	2.8	10	
		MAXIMUM	7.4	6.5	0.31	0.050	0.83	<0.005	<0.01	<0.01	5.1	0.31	4.8	17	
Esker 2		**MEDIAN**	7.2	6.2	0.23	0.020	0.33	nc	nc	nc	3.9	0.31	3.6	13	
		AVERAGE	7.2	6.3	0.24	0.025	0.42	nc	nc	nc	4.0	0.31	3.7	13	
		STANDARD DEVIATION	0.19	0.15	0.052	0.015	0.26	nc	nc	nc	0.74	0.0	0.74	2.4	
		75TH PERCENTILE	7.3	6.4	0.27	0.031	0.52	nc	nc	nc	4.4	0.31	4.1	14	
E3-1	Esker 3	Sand	7.3	6.7	0.13	0.015	0.25	< 0.005	< 0.01	< 0.01	3.2	0.31	2.9	10	non PAG
E3-2	Esker 3	Sand	8.1	7.0	0.094	0.010	0.17	< 0.005	< 0.01	< 0.01	4.1	0.31	3.8	13	non PAG
E3-3	Esker 3	Sand with gravel	7.7	6.3	0.19	0.035	0.58	0.024	< 0.01	0.020	4.8	0.31	4.2	7.7	non PAG
E3-4	Esker 3	Sand	7.4	6.5	0.25	0.020	0.33	< 0.005	< 0.01	< 0.01	3.3	0.31	3.0	11	non PAG
E3-5	Esker 3	Sand	7.9	7.0	0.095	0.010	0.17	< 0.005	< 0.01	< 0.01	4.0	0.31	3.7	13	non PAG
		BULK ARD POTENTIAL									**19**	**1.6**	**18**	**12**	**non PAG**
		MINIMUM	7.3	6.3	0.094	0.010	0.17	<0.005	<0.01	<0.01	3.2	0.31	2.9	7.7	
		MAXIMUM	8.1	7.0	0.25	0.035	0.58	0.024	<0.01	0.020	4.8	0.31	4.2	13	
Esker 3		**MEDIAN**	7.7	6.7	0.13	0.015	0.25	nc	nc	nc	4.0	0.31	3.7	11	
		AVERAGE	7.7	6.7	0.15	0.018	0.30	nc	nc	nc	3.9	0.31	3.5	11	
		STANDARD DEVIATION	0.32	0.25	0.060	0.0093	0.15	nc	nc	nc	0.58	0.0	0.49	2.0	
		75TH PERCENTILE	7.9	7.0	0.19	0.020	0.33	nc	nc	nc	4.1	0.31	3.8	13	
E4-1	Esker 4	Sand with gravel	8.9	8.3	0.20	0.32	5.3	< 0.005	< 0.01	< 0.01	8.0	0.31	7.7	26	non PAG
E4-2	Esker 4	Sand with gravel	7.6	6.8	0.35	0.030	0.50	< 0.005	< 0.01	< 0.01	4.1	0.31	3.8	13	non PAG
		BULK ARD POTENTIAL									**12**	**0.63**	**11**	**19**	**non PAG**
		MINIMUM	7.6	6.8	0.20	0.030	0.50	<0.005	<0.01	<0.01	4.1	0.31	3.8	13	
		MAXIMUM	8.9	8.3	0.35	0.32	5.3	<0.005	<0.01	<0.01	8.0	0.31	7.7	26	
Esker 4		**MEDIAN**	8.2	7.5	0.28	0.18	2.9	nc	nc	nc	6.1	0.31	5.7	20	
		AVERAGE	8.2	7.5	0.28	0.18	2.9	nc	nc	nc	6.1	0.31	5.7	20	
		STANDARD DEVIATION	0.68	0.79	0.072	0.15	2.4	nc	nc	nc	2.0	0.0	2.0	6.3	
		75TH PERCENTILE	8.6	7.9	0.31	0.25	4.1	nc	nc	nc	7.0	0.31	6.7	23	
E5-1	Esker 5	Sand with gravel	7.4	6.4	0.15	0.015	0.25	< 0.005	< 0.01	< 0.01	3.2	0.31	2.9	10	non PAG
E5-2	Esker 5	Sand	7.1	6.6	0.21	0.020	0.33	< 0.005	< 0.01	< 0.01	3.8	0.31	3.5	12	non PAG
E5-3	Esker 5	Sand with gravel	7.8	7.4	0.12	0.10	1.7	< 0.005	< 0.01	< 0.01	5.3	0.31	5.0	17	non PAG
E5-4	Esker 5	Sand and gravel	7.7	6.4	0.13	0.015	0.25	< 0.005	< 0.01	< 0.01	3.7	0.31	3.4	12	non PAG
		BULK ARD POTENTIAL									**16**	**1.3**	**15**	**13**	**non PAG**
		MINIMUM	7.1	6.4	0.12	0.015	0.25	<0.005	<0.01	<0.01	3.2	0.31	2.9	10	
		MAXIMUM	7.8	7.4	0.21	0.10	1.7	<0.005	<0.01	<0.01	5.3	0.31	5.0	17	
Esker 5		**MEDIAN**	7.5	6.5	0.14	0.018	0.29	nc	nc	nc	3.8	0.31	3.4	12	
		AVERAGE	7.5	6.7	0.15	0.038	0.63	nc	nc	nc	4.0	0.31	3.7	13	
		STANDARD DEVIATION	0.25	0.39	0.036	0.036	0.60	nc	nc	nc	0.78	0.0	0.78	2.5	
		75TH PERCENTILE	7.7	6.8	0.17	0.040	0.67	nc	nc	nc	4.2	0.31	3.9	14	
E6-1	Esker 6	Gravel with sand	7.4	4.3	0.094	0.020	0.33	0.068	0.030	0.040	3.1	1.3	1.9	2.5	non PAG
E6-2	Esker 6	Sand with gravel	7.1	6.7	0.26	0.040	0.67	< 0.005	< 0.01	< 0.01	3.9	0.31	3.6	13	non PAG
E6-3	Esker 6	Gravel and sand	7.8	6.7	0.090	0.020	0.33	0.0050	< 0.01	< 0.01	2.3	0.31	2.0	7.4	non PAG
E6-4	Esker 6	Gravel and sand	6.7	6.2	0.34	0.020	0.33	< 0.005	< 0.01	< 0.01	4.2	0.31	3.9	14	non PAG
		BULK ARD POTENTIAL									**14**	**2.2**	**11**	**6.2**	**non PAG**
		MINIMUM	6.7	4.3	0.090	0.020	0.33	< 0.005	<0.01	<0.01	2.3	0.31	1.9	2.5	
		MAXIMUM	7.8	6.7	0.34	0.040	0.67	0.068	0.030	0.040	4.2	1.3	3.9	14	
Esker 6		**MEDIAN**	7.2	6.4	0.18	0.020	0.33	0.0050	nc	nc	3.5	0.31	2.8	10	
		AVERAGE	7.2	6.0	0.20	0.025	0.42	0.021	nc	nc	3.4	0.55	2.8	9.0	
		STANDARD DEVIATION	0.41	0.96	0.11	0.0087	0.14	0.027	nc	nc	0.74	0.41	0.92	4.4	
		75TH PERCENTILE	7.5	6.7	0.28	0.025	0.42	0.021	nc	nc	4.0	0.55	3.7	13	

Notes:
NP = Neutralization Potential, CaNP = Carbonate NP, AP = Acid potential, Net NP = Net Neutralization Potential (NP-AP), NPR = Net Potential Ratio (NP/AP), CaNPR = Carbonate NPR, ARD = Acid Rock Drainage potential (based on MEND 2009)
nc = not calculated

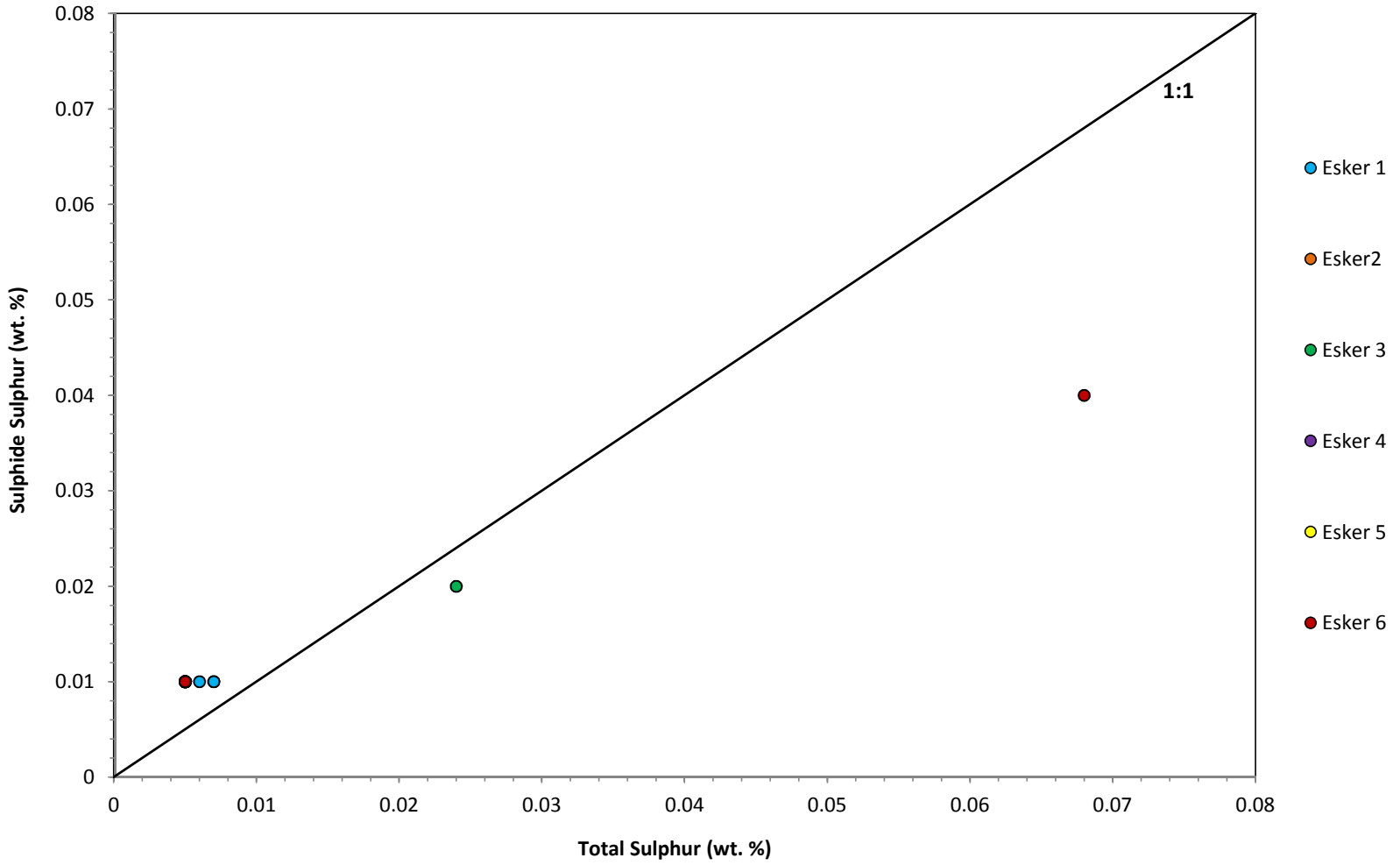
CCME (for the Protection of Freshwater Aquatic Life)[1]			**6.5-9**				**0.000026**	**0.0001**		**0.005**		**1.5**				**0.00009**			**0.002**	**0.3**
MMER (monthly mean concentration)[2]			**6-9.5**							**0.5**									**0.3**	
Sample ID	**Location**	**Primary composition**	**Final pH (after 18 hours)**	**Conduct-ivity**	**Alkalinity**	**SO4**	**Hg**	**Ag**	**Al**	**As**	**Ba**	**B**	**Be**	**Bi**	**Ca**	**Cd**	**Co**	**Cr**	**Cu**	**Fe**
			-	uS/cm	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
E1-1	Esker 1	Gravel and sand	7.2	84	35	< 2	< 0.00001	0.000018	0.45	0.0018	0.0069	0.25	< 0.000007	< 0.000007	2.5	0.0000050	0.00039	0.00099	0.0018	**0.30**
E1-2	Esker 1	Sand with gravel	7.2	46	23	< 2	< 0.00001	0.000034	1.0	0.0046	0.0040	0.33	< 0.000007	< 0.000007	0.080	0.0000070	0.00093	0.0017	**0.0032**	**0.45**
E1-3	Esker 1	Sand with gravel	**6.2**	61	30	< 2	< 0.00001	0.000038	1.1	0.0035	0.0071	0.47	0.000019	< 0.000007	0.33	0.000039	0.00077	0.0028	**0.0035**	**0.67**
E1-4	Esker 1	Sand and gravel	6.8	45	24	< 2	< 0.00001	0.000061	1.6	**0.0057**	0.0045	0.40	0.000011	< 0.000007	0.10	0.000024	0.00088	0.0023	**0.0057**	**0.62**
E1-5	Esker 1	Gravel with sand	7.5	48	23	< 2	< 0.00001	0.000038	0.70	0.0041	0.011	0.30	0.000015	< 0.000007	0.34	0.000010	0.0015	0.0024	**0.0031**	**0.71**
		MINIMUM	6.2	45	23	<2	<0.00001	0.000018	0.45	0.0018	0.0040	0.25	<0.000007	<0.000007	0.080	0.0000050	0.00039	0.00099	0.0018	0.30
		MAXIMUM	7.5	84	35	<2	<0.00001	0.000061	1.6	0.0057	0.011	0.47	0.000019	<0.000007	2.5	0.000039	0.0015	0.0028	0.0057	0.71
		MEDIAN	7.2	48	24	nc	nc	0.000038	1.0	0.0041	0.0069	0.33	0.000011	nc	0.33	0.000010	0.00088	0.0023	0.0032	0.62
		AVERAGE	7.0	57	27	nc	nc	0.000038	0.98	0.0039	0.0066	0.35	0.000012	nc	0.67	0.000017	0.00089	0.0020	0.0034	0.55
		STANDARD DEVIATION	0.45	15	4.8	nc	nc	0.000014	0.40	0.0013	0.0024	0.079	0.0000047	nc	0.91	0.000013	0.00035	0.00063	0.0012	0.15
		75TH PERCENTILE	7.2	61	30	nc	nc	0.000038	1.1	0.0046	0.0071	0.40	0.000015	nc	0.34	0.000024	0.00093	0.0024	0.0035	0.67
E2-1	Esker 2	Sand with gravel	6.7	60	30	< 2	< 0.00001	0.000031	0.81	0.0013	0.0089	0.41	0.000027	< 0.000007	0.70	< 0.000003	0.00074	0.0019	0.0020	**0.68**
E2-2	Esker 2	Sand with gravel	**6.2**	51	26	< 2	< 0.00001	0.000029	0.57	0.0035	0.0067	0.43	0.000022	0.000011	0.97	< 0.000003	0.00099	0.0016	**0.0038**	**0.66**
E2-3	Esker 2	Sand with gravel	**6.3**	72	37	< 2	< 0.00001	0.000020	1.2	0.0019	0.012	0.49	0.000032	0.000014	0.82	0.000040	0.00076	0.0023	**0.0042**	**1.2**
E2-4	Esker 2	Sand and gravel	6.8	56	25	< 2	< 0.00001	0.000045	0.98	0.0020	0.011	0.38	0.000039	< 0.000007	0.53	0.000028	0.00064	0.0018	**0.0021**	**0.71**
		MINIMUM	6.2	51	25	<2	<0.00001	0.000020	0.57	0.0013	0.0067	0.38	0.000022	<0.000007	0.53	<0.000003	0.00064	0.0016	0.0020	0.66
		MAXIMUM	6.8	72	37	<2	<0.00001	0.000045	1.2	0.0035	0.012	0.49	0.000039	0.000014	0.97	0.000040	0.00099	0.0023	0.0042	1.2
		MEDIAN	6.5	58	28	nc	nc	0.000030	0.90	0.0020	0.0097	0.42	0.000030	0.0000090	0.76	0.000016	0.00075	0.0018	0.0029	0.69
		AVERAGE	6.5	60	30	nc	nc	0.000031	0.90	0.0022	0.0096	0.43	0.000030	0.0000098	0.76	0.000019	0.00078	0.0019	0.0030	0.80
		STANDARD DEVIATION	0.26	7.8	4.7	nc	nc	0.0000090	0.24	0.00081	0.0020	0.039	0.0000063	0.0000029	0.16	0.000016	0.00013	0.00026	0.00097	0.20
		75TH PERCENTILE	6.7	63	32	nc	nc	0.000035	1.0	0.0024	0.011	0.45	0.000034	0.000012	0.86	0.000031	0.00081	0.0020	0.0039	0.82
E3-1	Esker 3	Sand	6.7	46	24	< 2	< 0.00001	0.000019	0.92	0.0017	0.0069	0.43	0.000016	< 0.000007	0.25	0.000010	0.0019	0.0097	**0.0023**	**1.0**
E3-2	Esker 3	Sand	7.4	56	28	< 2	< 0.00001	0.000046	0.75	0.0022	0.012	0.36	0.000028	< 0.000007	0.41	0.0000070	0.0019	0.0085	**0.0046**	**0.97**
E3-3	Esker 3	Sand with gravel	7.1	48	26	< 2	< 0.00001	0.000060	0.60	0.0012	0.0040	0.37	0.0000090	< 0.000007	0.19	< 0.000003	0.00065	0.0029	0.0017	**0.41**
E3-4	Esker 3	Sand	6.8	63	29	< 2	< 0.00001	0.000049	0.88	0.0012	0.0093	0.41	0.000020	< 0.000007	0.46	< 0.000003	0.0013	0.0062	0.0019	**0.87**
E3-5	Esker 3	Sand	7.6	50	23	< 2	< 0.00001	0.000045	0.66	0.0018	0.010	0.37	0.000025	< 0.000007	0.36	0.0000040	0.0016	0.0072	**0.0028**	**0.77**
		MINIMUM	6.7	46	23	<2	<0.00001	0.000019	0.60	0.0012	0.0040	0.36	0.0000090	<0.000007	0.19	<0.000003	0.00065	0.0029	0.0017	0.41
		MAXIMUM	7.6	63	29	<2	<0.00001	0.000060	0.92	0.0022	0.012	0.43	0.000028	<0.000007	0.46	0.000010	0.0019	0.0097	0.0046	1.0
		MEDIAN	7.1	50	26	nc	nc	0.000046	0.75	0.0017	0.0093	0.37	0.000020	nc	0.36	0.0000040	0.0016	0.0072	0.0023	0.87
		AVERAGE	7.1	53	26	nc	nc	0.000044	0.76	0.0016	0.0084	0.39	0.000020	nc	0.33	0.0000054	0.0015	0.0069	0.0027	0.81
		STANDARD DEVIATION	0.35	6.2	2.3	nc	nc	0.000013	0.12	0.00038	0.0027	0.028	0.0000067	nc	0.10	0.0000027	0.00045	0.0023	0.0010	0.22
		75TH PERCENTILE	7.4	56	28	nc	nc	0.000049	0.88	0.0018	0.010	0.41	0.000025	nc	0.41	0.0000070	0.0019	0.0085	0.0028	0.97
E4-1	Esker 4	Sand with gravel	8.7	104	44	< 2	< 0.00001	0.000020	0.43	**0.0063**	0.0052	0.17	< 0.000007	< 0.000007	5.7	0.0000040	0.0013	0.0052	**0.0060**	**0.51**
E4-2	Esker 4	Sand with gravel	6.8	56	27	< 2	< 0.00001	0.000071	0.56	0.00080	0.0055	0.36	0.0000090	< 0.000007	0.42	< 0.000003	0.0011	0.0055	0.0014	**0.47**
		MINIMUM	6.8	56	27	<2	<0.00001	0.000020	0.43	0.00080	0.0052	0.17	<0.000007	<0.000007	0.42	<0.000003	0.0011	0.0052	0.0014	0.47
		MAXIMUM	8.7	104	44	<2	<0.00001	0.000071	0.56	0.0063	0.0055	0.36	0.0000090	<0.000007	5.7	0.0000040	0.0013	0.0055	0.0060	0.51
		MEDIAN	7.8	80	36	nc	nc	0.000046	0.50	0.0036	0.0053	0.26	nc	nc	3.0	nc	0.0012	0.0053	0.0037	0.49
		AVERAGE	7.8	80	36	nc	nc	0.000046	0.50	0.0036	0.0053	0.26	nc	nc	3.0	nc	0.0012	0.0053	0.0037	0.49
		STANDARD DEVIATION	0.95	24	8.5	nc	nc	0.000026	0.065	0.0028	0.00015	0.091	nc	nc	2.6	nc	0.00010	0.00014	0.0023	0.020
		75TH PERCENTILE	8.2	92	40	nc	nc	0.000058	0.53	0.0049	0.0054	0.31	nc	nc	4.3	nc	0.0012	0.0054	0.0049	0.50
E5-1	Esker 5	Sand with gravel	7.0	33	16	< 2	< 0.00001	0.000037	1.6	0.0019	0.0039	0.31	0.000016	< 0.000007	0.050	0.0000070	0.00068	0.0043	0.0019	**0.48**
E5-2	Esker 5	Sand	6.6	52	26	< 2	< 0.00001	0.000034	0.73	0.0010	0.0068	0.43	0.000028	< 0.000007	0.15	< 0.000003	0.0013	0.0047	**0.0023**	**0.50**
E5-3	Esker 5	Sand with gravel	7.2	56	28	< 2	< 0.00001	0.000028	0.48	0.0013	0.0073	0.34	0.000015	< 0.000007	0.55	0.0000070	0.00100	0.0026	**0.0025**	**0.41**
E5-4	Esker 5	Sand and gravel	7.3	58	27	< 2	< 0.00001	0.000039	0.59	0.0012	0.0077	0.40	0.000021	< 0.000007	0.25	0.000015	0.00087	0.0033	0.0019	**0.41**
		MINIMUM	6.6	33	16	<2	<0.00001	0.000028	0.48	0.0010	0.0039	0.31	0.000015	<0.000007	0.050	<0.000003	0.00068	0.0026	0.0019	0.41
		MAXIMUM	7.3	58	28	<2	<0.00001	0.000039	1.6	0.0019	0.0077	0.43	0.000028	<0.000007	0.55	0.000015	0.0013	0.0047	0.0025	0.50
		MEDIAN	7.1	54	27	nc	nc	0.000036	0.66	0.0013	0.0070	0.37	0.000019	nc	0.20	0.0000070	0.00093	0.0038	0.0021	0.45
		AVERAGE	7.0	50	24	nc	nc	0.000035	0.86	0.0014	0.0064	0.37	0.000020	nc	0.25	0.0000080	0.00097	0.0037	0.0021	0.45
		STANDARD DEVIATION	0.26	9.9	4.8	nc	nc	0.0000042	0.45	0.00034	0.0015	0.045	0.0000051	nc	0.19	0.0000044	0.00023	0.00081	0.00028	0.038
		75TH PERCENTILE	7.2	57	27	nc	nc	0.000038	0.95	0.0015	0.0074	0.40	0.000023	nc	0.33	0.0000090	0.0011	0.0044	0.0024	0.48
E6-1	Esker 6	Gravel with sand	7.3	68	33	< 2	< 0.00001	0.000023	0.60	0.0013	0.0050	0.40	0.000014	< 0.000007	0.27	< 0.000003	0.00083	0.0022	0.0011	**0.33**
E6-2	Esker 6	Sand with gravel	6.7	74	38	< 2	< 0.00001	0.000057	1.0	0.0011	0.0059	0.29	0.000015	< 0.000007	0.82	0.000010	0.00061	0.0023	0.0019	**0.64**
E6-3	Esker 6	Gravel and sand	7.3	70	34	< 2	< 0.00001	0.000024	0.68	0.0013	0.010	0.35	0.000026	< 0.000007	0.78	0.0000030	0.00085	0.0019	0.0015	**0.43**
E6-4	Esker 6	Gravel and sand	**6.2**	40	17	< 2	0.000010	0.000059	1.3	0.0013	0.0040	0.46	0.000013	< 0.000007	0.070	0.000014	0.00056	0.0033	**0.0027**	**0.56**
		MINIMUM	6.2	40	17	<2	< 0.00001	0.000023	0.60	0.0011	0.0040	0.29	0.000013	<0.000007	0.070	< 0.000003	0.00056	0.0019	0.0011	0.33
		MAXIMUM	7.3	74	38	<2	0.000010	0.000059	1.3	0.0013	0.010	0.46	0.000026	<0.000007	0.82	0.000014	0.00085	0.0033	0.0027	0.64
		MEDIAN	7.0	69	34	nc	nc	0.000041	0.86	0.0013	0.0055	0.37	0.000015	nc	0.53	0.0000065	0.00072	0.0023	0.0017	0.49
		AVERAGE	6.9	63	31	nc	nc	0.000041	0.91	0.0013	0.0063	0.37	0.000017	nc	0.49	0.0000075	0.00071	0.0024	0.0018	0.49
		STANDARD DEVIATION	0.46	13	8.0	nc	nc	0.000017	0.29	0.000087	0.0023	0.065	0.0000052	nc	0.32	0.0000047	0.00013	0.00052	0.00061	0.12
		75TH PERCENTILE	7.3	71	35	nc	nc	0.000058	1.1	0.0013	0.0069	0.41	0.000018	nc	0.79	0.000011	0.00083	0.0025	0.0021	0.58

Notes:
1- CCME Freshwater Guidelines, CEQG (2007), based on total metal concentrations
2 - MMER (DFO 2006) criteria are based on total metal concentrations and are maximum authorized monthly mean concentrations
Bolded values = values above CCME Freshwater Guideline
Bolded and shaded values = values above MMER Guideline
nc = not calculated

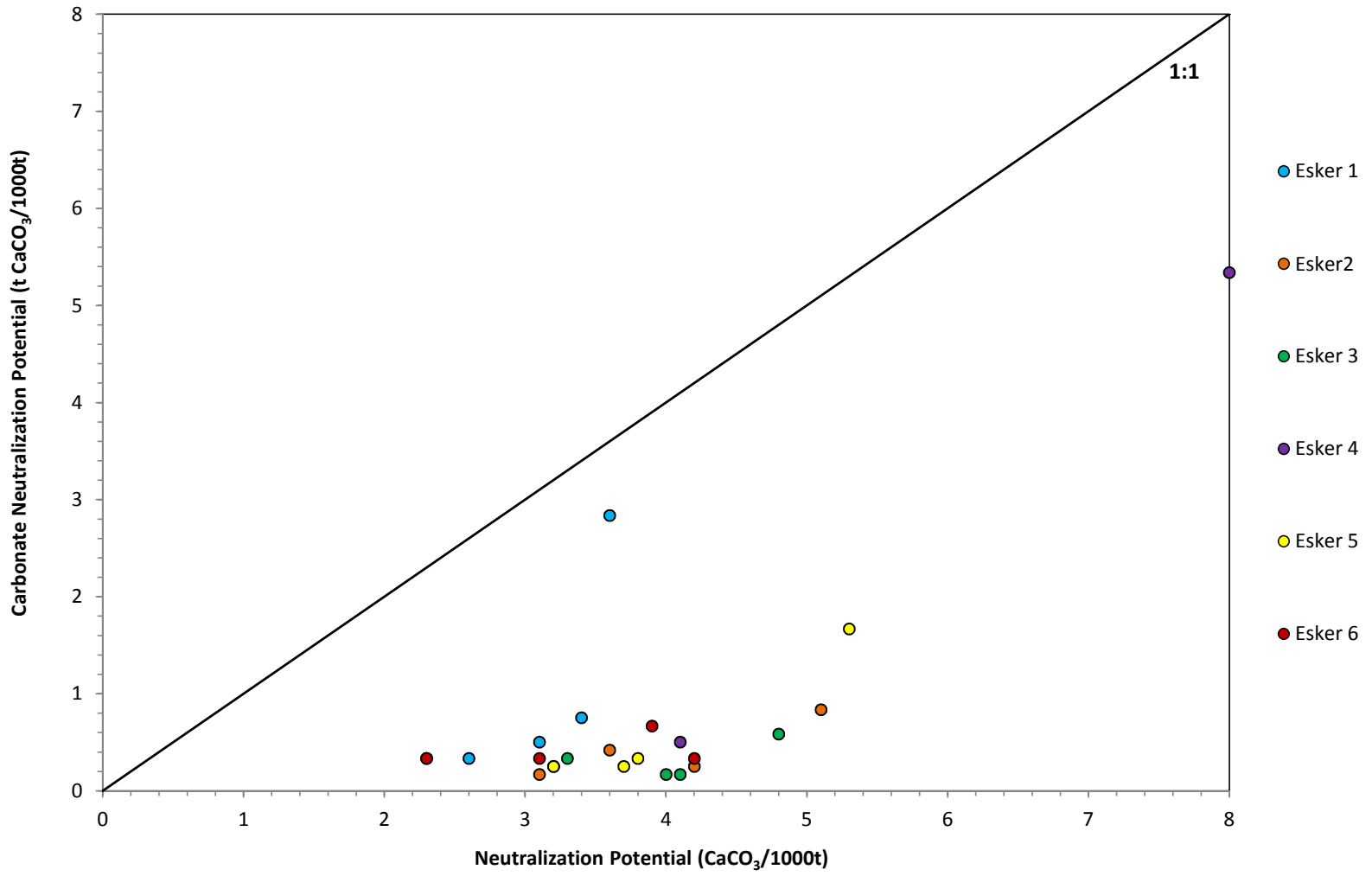
Attachment A: Shake Flask Extraction Results
IVR Road
Agnico-Eagle Mines Ltd.

CCME (for the Protection of Freshwater Aquatic Life)[1]							**0.073**		**0.025**	**0.001**		**0.001**					**0.0008**	**0.015**		
MMER (monthly mean concentration)[2]									**0.5**	**0.2**										**0.5**
Sample ID	**Location**	**Primary composition**	**K**	**Li**	**Mg**	**Mn**	**Mo**	**Na**	**Ni**	**Pb**	**Sb**	**Se**	**Si**	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**
			mg/L	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
E1-1	Esker 1	Gravel and sand	4.0	0.00088	0.86	0.010	0.0018	9.7	0.00060	0.00037	0.0010	< 0.001	5.7	0.000030	0.0061	0.0045	0.0000050	0.000093	0.00061	< 0.001
E1-2	Esker 1	Sand with gravel	0.85	0.00052	0.10	0.035	0.0011	9.1	0.0012	0.00087	0.0015	< 0.001	5.2	0.000030	0.00050	0.0076	< 0.000005	0.00016	0.0013	0.0020
E1-3	Esker 1	Sand with gravel	1.7	0.00093	0.18	0.027	0.00035	12	0.0013	0.00078	0.0010	< 0.001	11	0.000030	0.0010	0.014	0.0000060	0.00020	0.0012	0.0070
E1-4	Esker 1	Sand and gravel	0.96	0.00050	0.13	0.030	0.00072	8.3	0.0013	**0.0017**	0.0010	< 0.001	6.7	0.000050	0.00070	0.0076	0.0000060	0.00013	0.0014	0.0030
E1-5	Esker 1	Gravel with sand	1.4	0.00065	0.20	0.046	0.00099	7.7	0.0020	**0.0023**	0.00090	< 0.001	5.6	0.000010	0.0010	0.0093	< 0.000005	0.00013	0.0013	0.0030
		MINIMUM	0.85	0.00050	0.10	0.010	0.00035	7.7	0.00060	0.00037	0.00090	<0.001	5.2	0.000010	0.00050	0.0045	< 0.000005	0.000093	0.00061	<0.001
		MAXIMUM	4.0	0.00093	0.86	0.046	0.0018	12	0.0020	0.0023	0.0015	<0.001	11	0.000050	0.0061	0.014	0.0000060	0.00020	0.0014	0.0070
		MEDIAN	1.4	0.00065	0.18	0.030	0.00099	9.1	0.0013	0.00087	0.0010	nc	5.7	0.000030	0.0010	0.0076	0.0000050	0.00013	0.0013	0.0030
		AVERAGE	1.8	0.00070	0.29	0.029	0.00099	9.3	0.0013	0.0012	0.0011	nc	6.8	0.000030	0.0019	0.0086	0.0000054	0.00014	0.0012	0.0032
		STANDARD DEVIATION	1.1	0.00018	0.29	0.011	0.00047	1.3	0.00044	0.00071	0.00021	nc	2.0	0.000013	0.0021	0.0032	0.00000049	0.000037	0.00028	0.0020
		75TH PERCENTILE	1.7	0.00088	0.20	0.035	0.0011	9.7	0.0013	0.0017	0.0010	nc	6.7	0.000030	0.0010	0.0093	0.0000060	0.00016	0.0013	0.0030
E2-1	Esker 2	Sand with gravel	1.0	0.00067	0.18	0.032	0.00048	11	0.0011	**0.0017**	0.00060	< 0.001	7.6	0.000020	0.0011	0.026	0.000012	0.00013	0.0010	0.0040
E2-2	Esker 2	Sand with gravel	0.91	0.0011	0.20	0.030	0.00027	8.0	0.0013	**0.0013**	0.00060	< 0.001	8.5	0.000090	0.0015	0.013	0.000089	0.00033	0.0015	0.0030
E2-3	Esker 2	Sand with gravel	2.1	0.00097	0.34	0.047	0.00039	13	0.0011	**0.0014**	0.00070	< 0.001	10	0.000090	0.0022	0.037	0.000014	0.00022	0.0014	0.0030
E2-4	Esker 2	Sand and gravel	1.6	0.00080	0.18	0.032	0.00075	9.4	0.00090	**0.0014**	0.00070	< 0.001	7.6	0.000040	0.0012	0.030	0.000030	0.00020	0.0012	0.0030
		MINIMUM	0.91	0.00067	0.18	0.030	0.00027	8.0	0.00090	0.0013	0.00060	<0.001	7.6	0.000020	0.0011	0.013	0.000012	0.00013	0.0010	0.0030
		MAXIMUM	2.1	0.0011	0.34	0.047	0.00075	13	0.0013	0.0017	0.00070	<0.001	10	0.000090	0.0022	0.037	0.000089	0.00033	0.0015	0.0040
		MEDIAN	1.3	0.00088	0.19	0.032	0.00044	10	0.0011	0.0014	0.00065	nc	8.0	0.000065	0.0014	0.028	0.000022	0.00021	0.0013	0.0030
		AVERAGE	1.4	0.00090	0.23	0.035	0.00047	11	0.0011	0.0014	0.00065	nc	8.5	0.000060	0.0015	0.026	0.000036	0.00022	0.0013	0.0033
		STANDARD DEVIATION	0.49	0.00018	0.067	0.0068	0.00018	2.0	0.00014	0.00013	0.000050	nc	1.1	0.000031	0.00043	0.0087	0.000031	0.000072	0.00020	0.00043
		75TH PERCENTILE	1.7	0.0010	0.24	0.036	0.00055	12	0.0012	0.0015	0.00070	nc	9.0	0.000090	0.0017	0.031	0.000045	0.00024	0.0014	0.0033
E3-1	Esker 3	Sand	0.31	0.00090	0.40	0.12	0.00033	9.6	0.0037	**0.0013**	0.00060	< 0.001	9.2	0.000030	0.00040	0.018	< 0.000005	0.000057	0.0022	0.0040
E3-2	Esker 3	Sand	0.81	0.0011	0.49	0.069	0.00056	10	0.0046	**0.0016**	0.00050	< 0.001	7.3	0.000050	0.00060	0.014	0.0000060	0.000087	0.0021	0.0040
E3-3	Esker 3	Sand with gravel	0.85	0.00058	0.19	0.032	0.00053	9.0	0.0016	0.00075	0.00060	< 0.001	6.3	0.000020	0.00040	0.0067	< 0.000005	0.00011	0.0012	0.0020
E3-4	Esker 3	Sand	0.47	0.00084	0.41	0.060	0.00030	11	0.0029	**0.0015**	0.00060	< 0.001	8.1	0.000020	0.00080	0.016	0.0000070	0.000070	0.0017	0.0040
E3-5	Esker 3	Sand	0.42	0.00083	0.33	0.063	0.00073	8.2	0.0045	**0.0012**	0.00060	< 0.001	7.2	0.000020	0.00050	0.013	0.0000080	0.000077	0.0018	0.0040
		MINIMUM	0.31	0.00058	0.19	0.032	0.00030	8.2	0.0016	0.00075	0.00050	<0.001	6.3	0.000020	0.00040	0.0067	<0.000005	0.000057	0.0012	0.0020
		MAXIMUM	0.85	0.0011	0.49	0.12	0.00073	11	0.0046	0.0016	0.00060	<0.001	9.2	0.000050	0.00080	0.018	0.0000080	0.00011	0.0022	0.0040
		MEDIAN	0.47	0.00084	0.40	0.063	0.00053	9.6	0.0037	0.0013	0.00060	nc	7.3	0.000020	0.00050	0.014	0.0000060	0.000077	0.0018	0.0040
		AVERAGE	0.57	0.00084	0.36	0.068	0.00049	9.6	0.0035	0.0013	0.00058	nc	7.6	0.000028	0.00054	0.014	0.0000062	0.000079	0.0018	0.0036
		STANDARD DEVIATION	0.22	0.00016	0.098	0.027	0.00016	0.98	0.0011	0.00028	0.000040	nc	0.97	0.000012	0.00015	0.0039	0.0000012	0.000016	0.00034	0.00080
		75TH PERCENTILE	0.81	0.00090	0.41	0.069	0.00056	10	0.0045	0.0015	0.00060	nc	8.1	0.000030	0.00060	0.016	0.0000070	0.000087	0.0021	0.0040
E4-1	Esker 4	Sand with gravel	2.5	0.0012	2.4	0.023	0.0015	8.7	0.0087	0.00056	0.00070	< 0.001	5.4	0.000030	0.014	0.0038	0.000015	0.00013	0.0025	0.0030
E4-2	Esker 4	Sand with gravel	1.1	0.00058	0.37	0.035	0.00029	9.5	0.0038	0.00046	0.00090	< 0.001	6.7	0.000050	0.00060	0.0096	0.000012	0.000052	0.0012	0.0030
		MINIMUM	1.1	0.00058	0.37	0.023	0.00029	8.7	0.0038	0.00046	0.00070	<0.001	5.4	0.000030	0.00060	0.0038	0.000012	0.000052	0.0012	0.0030
		MAXIMUM	2.5	0.0012	2.4	0.035	0.0015	9.5	0.0087	0.00056	0.00090	<0.001	6.7	0.000050	0.014	0.0096	0.000015	0.00013	0.0025	0.0030
		MEDIAN	1.8	0.00090	1.4	0.029	0.00089	9.1	0.0063	0.00051	0.00080	nc	6.0	0.000040	0.0072	0.0067	0.000014	0.000090	0.0019	0.0030
		AVERAGE	1.8	0.00090	1.4	0.029	0.00089	9.1	0.0063	0.00051	0.00080	nc	6.0	0.000040	0.0072	0.0067	0.000014	0.000090	0.0019	0.0030
		STANDARD DEVIATION	0.72	0.00033	1.0	0.0058	0.00060	0.43	0.0025	0.000050	0.000100	nc	0.61	0.000010	0.0066	0.0029	0.0000015	0.000038	0.00063	0.0
		75TH PERCENTILE	2.2	0.0011	1.9	0.032	0.0012	9.3	0.0075	0.00054	0.00085	nc	6.3	0.000045	0.010	0.0081	0.000014	0.00011	0.0022	0.0030
E5-1	Esker 5	Sand with gravel	0.40	0.00039	0.18	0.031	0.00062	6.3	0.0018	0.00045	0.0010	< 0.001	6.2	0.000060	0.00050	0.012	0.0000060	0.00012	0.0019	0.0020
E5-2	Esker 5	Sand	0.39	0.00065	0.17	0.052	0.00018	10.0	0.0022	0.00079	0.00070	< 0.001	7.3	0.000030	0.00040	0.014	< 0.000005	0.000081	0.0011	0.0020
E5-3	Esker 5	Sand with gravel	1.4	0.00062	0.29	0.038	0.00078	9.8	0.0018	0.00077	0.00070	< 0.001	6.4	0.00011	0.00090	0.010	< 0.000005	0.000094	0.00093	0.0020
E5-4	Esker 5	Sand and gravel	1.1	0.00085	0.20	0.034	0.00065	9.8	0.0024	0.00066	0.00080	< 0.001	7.3	0.000020	0.00060	0.0081	< 0.000005	0.000081	0.0011	0.0020
		MINIMUM	0.39	0.00039	0.17	0.031	0.00018	6.3	0.0018	0.00045	0.00070	<0.001	6.2	0.000020	0.00040	0.0081	<0.000005	0.000081	0.00093	0.0020
		MAXIMUM	1.4	0.00085	0.29	0.052	0.00078	10.0	0.0024	0.00079	0.0010	<0.001	7.3	0.00011	0.00090	0.014	0.0000060	0.00012	0.0019	0.0020
		MEDIAN	0.74	0.00064	0.19	0.036	0.00064	9.8	0.0020	0.00072	0.00075	nc	6.9	0.000045	0.00055	0.011	nc	0.000088	0.0011	0.0020
		AVERAGE	0.82	0.00063	0.21	0.039	0.00056	9.0	0.0021	0.00067	0.00080	nc	6.8	0.000055	0.00060	0.011	nc	0.000094	0.0013	0.0020
		STANDARD DEVIATION	0.44	0.00016	0.048	0.0079	0.00023	1.5	0.00026	0.00013	0.00012	nc	0.51	0.000035	0.00019	0.0020	nc	0.000016	0.00038	0.0
		75TH PERCENTILE	1.2	0.00070	0.23	0.041	0.00068	9.9	0.0023	0.00078	0.00085	nc	7.3	0.000073	0.00068	0.012	nc	0.00010	0.0013	0.0020
E6-1	Esker 6	Gravel with sand	1.2	0.00062	0.15	0.022	0.00078	13	0.0015	0.00058	0.00070	< 0.001	6.7	0.000060	0.00060	0.0070	< 0.000005	0.00012	0.00072	0.0010
E6-2	Esker 6	Sand with gravel	3.0	0.00053	0.89	0.026	0.00053	12	0.0018	0.00044	0.00060	< 0.001	5.8	0.000060	0.0028	0.0078	0.0000090	0.00012	0.00092	0.0010
E6-3	Esker 6	Gravel and sand	3.1	0.00084	0.33	0.022	0.00076	12	0.0014	0.00048	0.00060	< 0.001	6.7	0.000040	0.0016	0.0100	< 0.000005	0.000099	0.00091	0.0020
E6-4	Esker 6	Gravel and sand	0.67	0.00045	0.16	0.021	0.00032	7.9	0.0015	0.00042	0.00070	< 0.001	9.8	0.000050	0.00070	0.012	< 0.000005	0.00011	0.0012	0.0020
		MINIMUM	0.67	0.00045	0.15	0.021	0.00032	7.9	0.0014	0.00042	0.00060	<0.001	5.8	0.000040	0.00060	0.0070	<0.000005	0.000099	0.00072	0.0010
		MAXIMUM	3.1	0.00084	0.89	0.026	0.00078	13	0.0018	0.00058	0.00070	<0.001	9.8	0.000060	0.0028	0.012	0.0000090	0.00012	0.0012	0.0020
		MEDIAN	2.1	0.00057	0.24	0.022	0.00065	12	0.0015	0.00046	0.00065	nc	6.7	0.000055	0.0012	0.0089	nc	0.00012	0.00092	0.0015
		AVERAGE	2.0	0.00061	0.38	0.023	0.00060	11	0.0016	0.00048	0.00065	nc	7.2	0.000053	0.0014	0.0093	nc	0.00011	0.00095	0.0015
		STANDARD DEVIATION	1.1	0.00015	0.30	0.0020	0.00019	2.0	0.00015	0.000062	0.000050	nc	1.5	0.0000083	0.00088	0.0021	nc	0.0000095	0.00018	0.00050
		75TH PERCENTILE	3.0	0.00068	0.47	0.023	0.00077	13	0.0016	0.00051	0.00070	nc	7.5	0.000060	0.0019	0.011	nc	0.00012	0.00100	0.0020

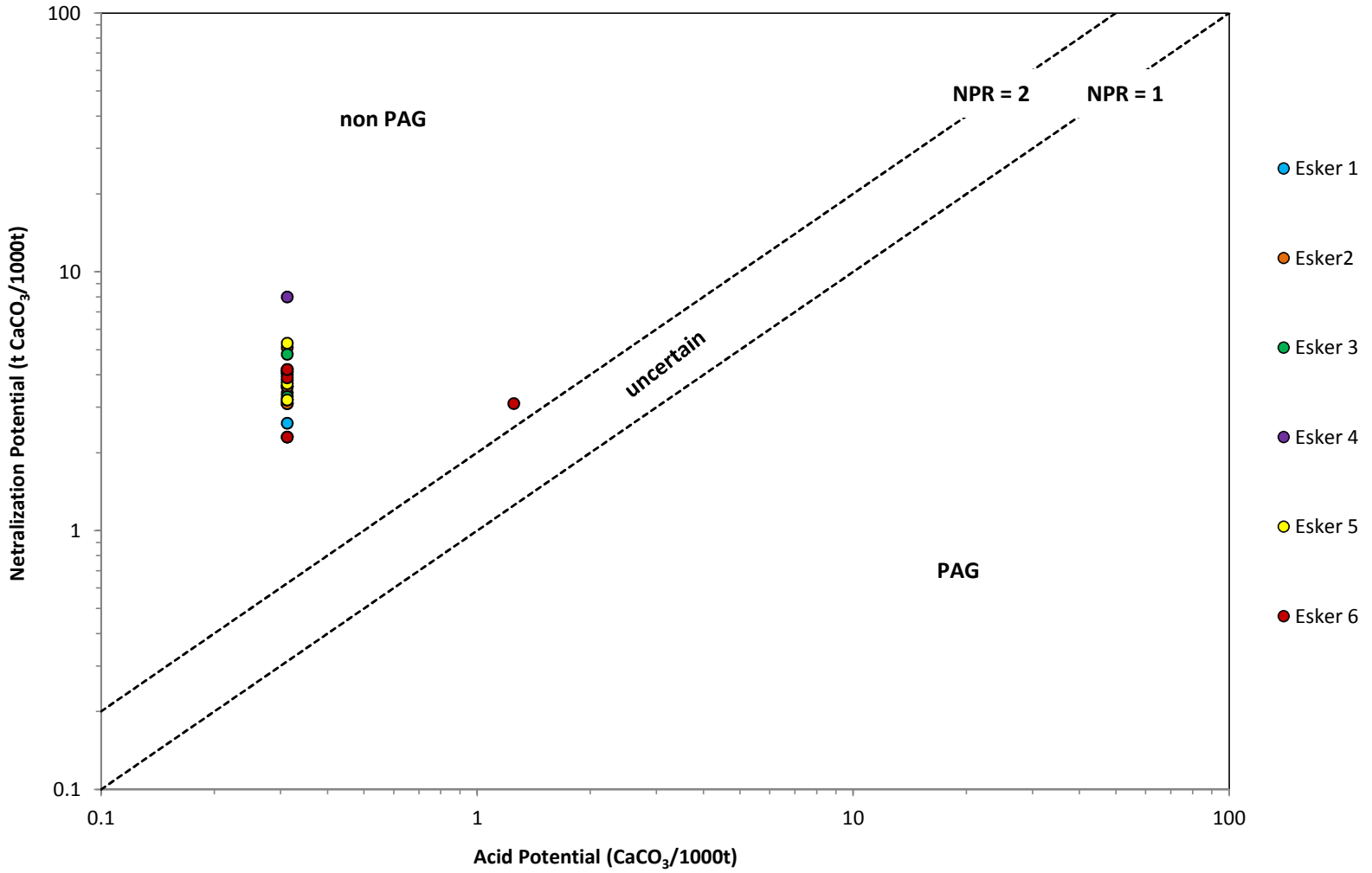
Notes:
1- CCME Freshwater Guidelines, CEQG (2007), based on total metal concentrations
2 - MMER (DFO 2006) criteria are based on total metal concentrations and are maximum authorized monthly mean concentrations
Bolded values = values above CCME Freshwater Guideline
Bolded and shaded values = values above MMER Guideline
nc = not calculated



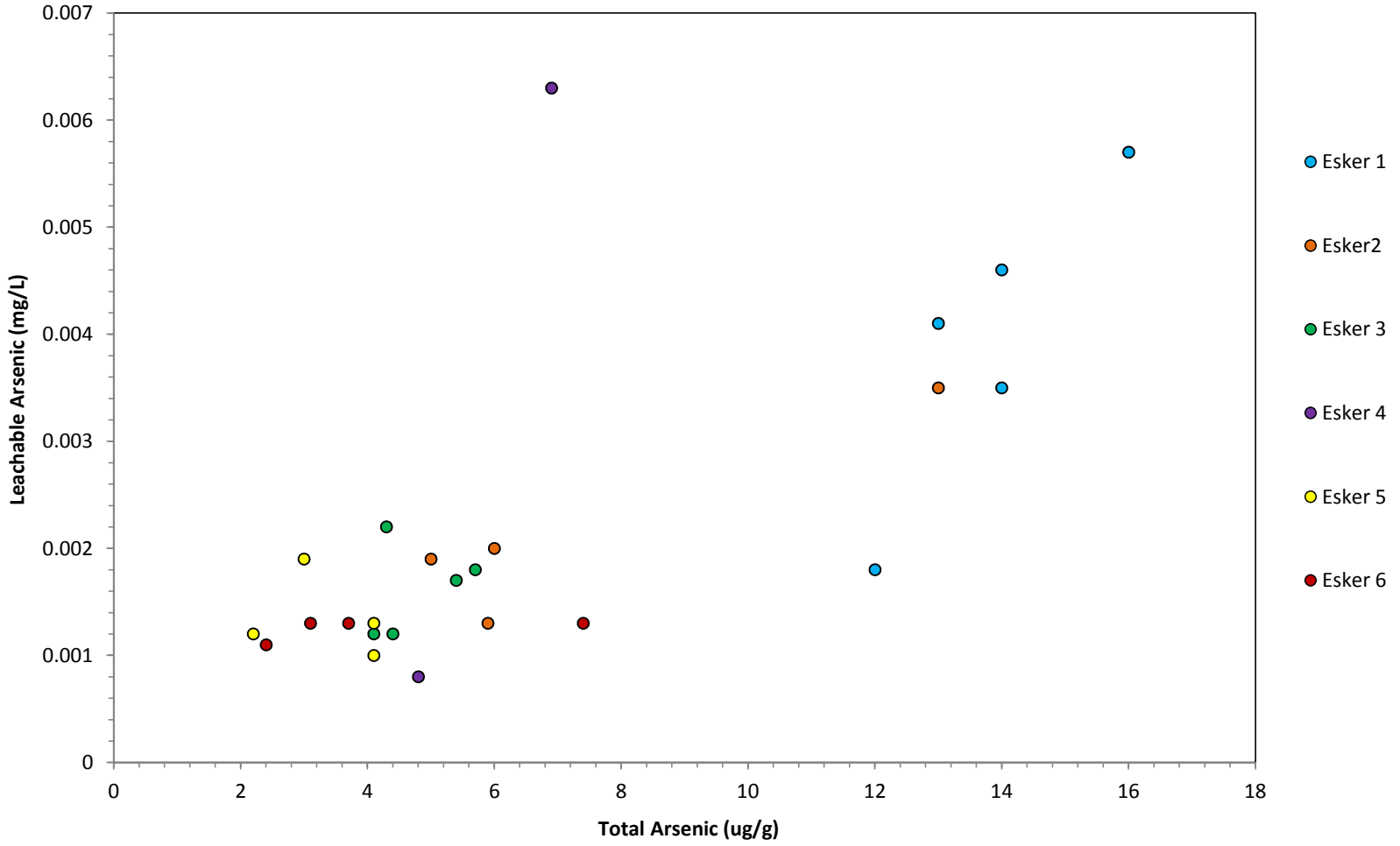
Golder Associates	**IVR Road** **Agnico Eagle Mines Ltd.**	**Total Sulphur versus Sulphide Sulphur** **Esker Static Testing**			
Notes: Values < MDL are plotted as MDL	Prepared	NW	Date	Dec-14	Project N° 14-12623
	Checked	JMC			
	Reviewed	VJB			Figure **A-1**



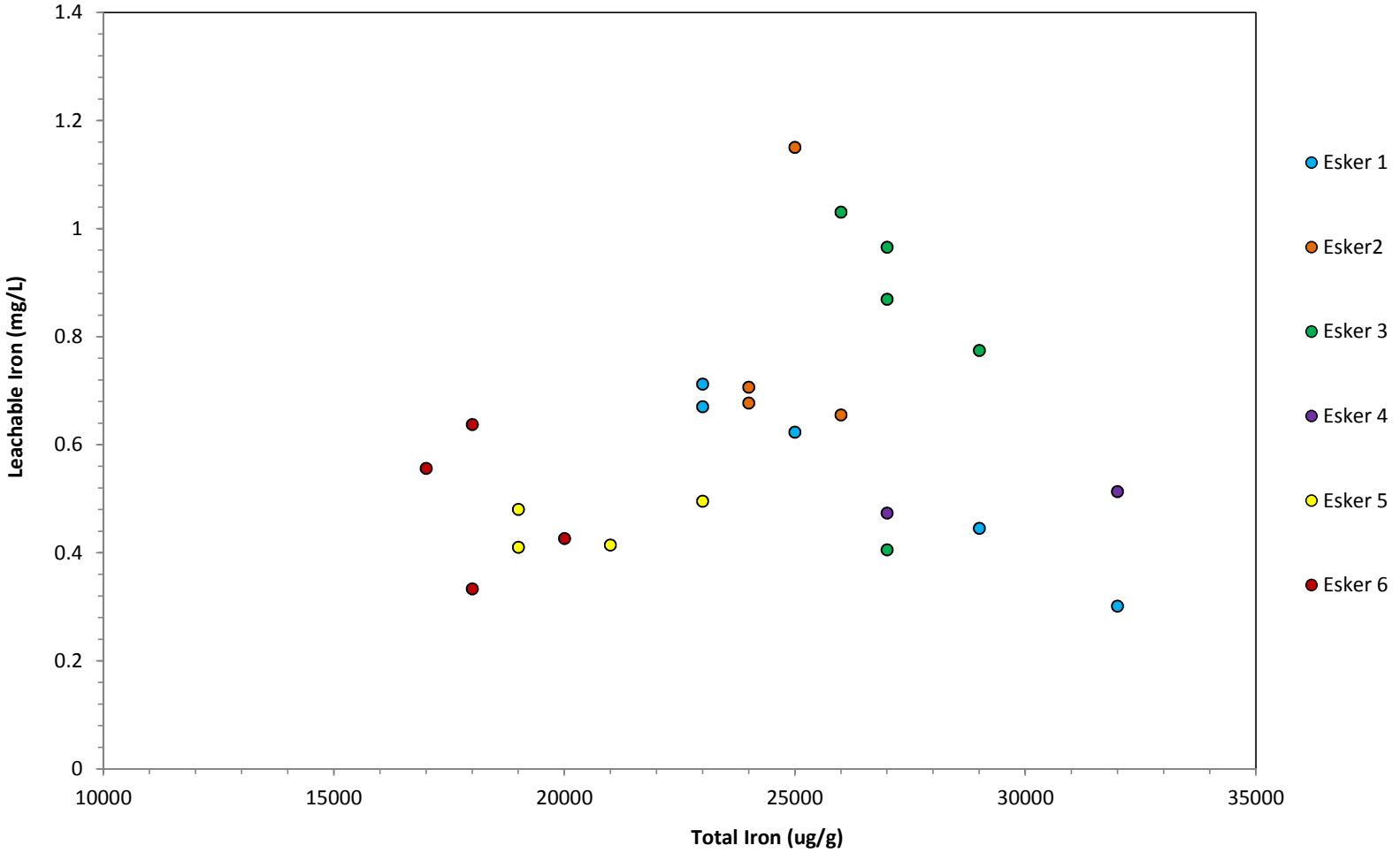
Golder Associates	**IVR Road** **Agnico Eagle Mines Ltd.**	**Neutralization Potential versus Carbonate Neutralization Potential** **Esker Static Testing**		
Notes: Values < MDL are plotted as MDL	Prepared NW	Date Dec-14	Project N° 14-12623	
	Checked JMC			
	Reviewed VJB		Figure **A-2**	



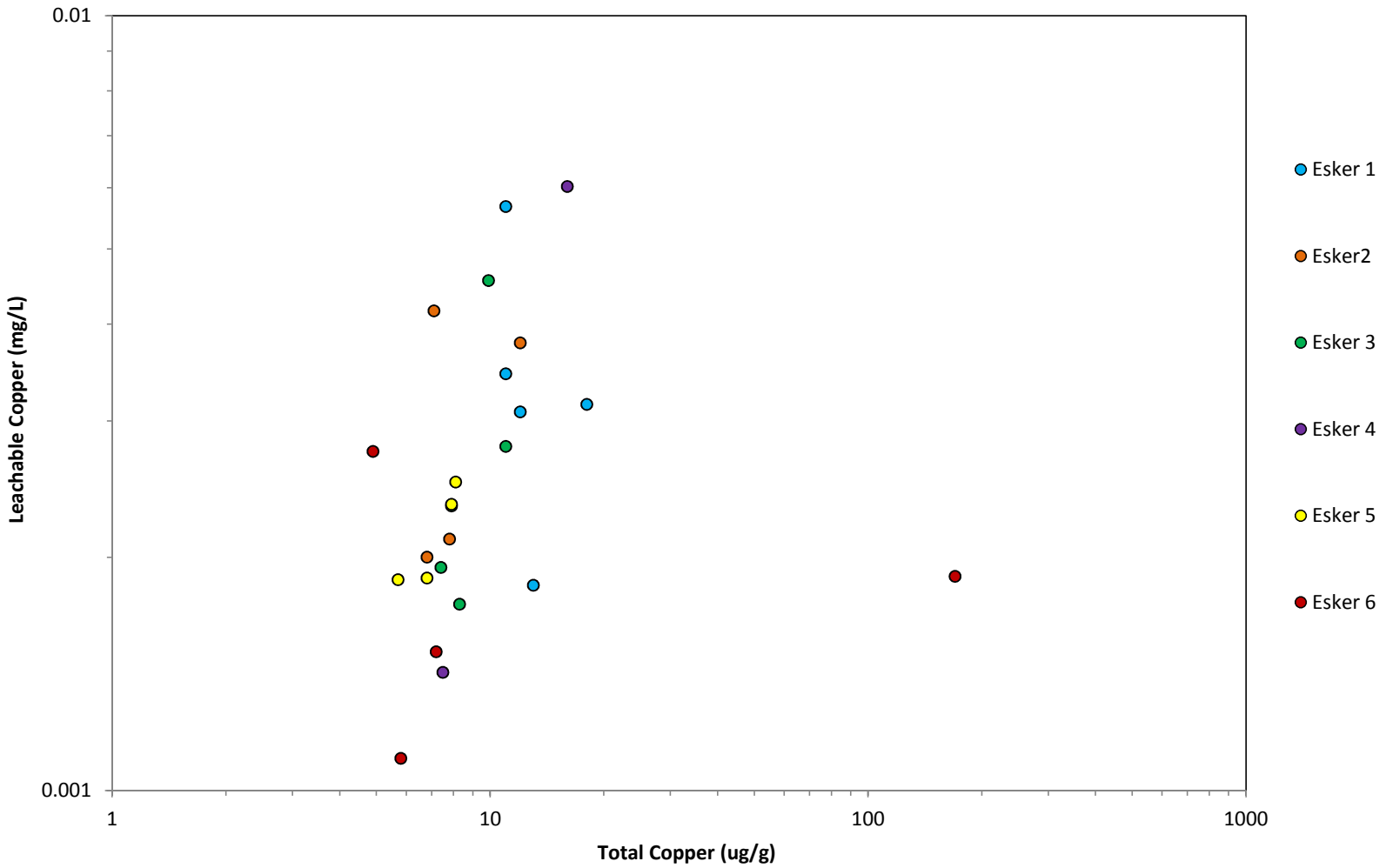
Golder Associates	IVR Road Agnico Eagle Mines Ltd.	Acid Potential versus Neutralization Potential Esker Static Testing			
Notes: Values < MDL are plotted as MDL		Prepared	NW	Date: Dec-14	Project N°: 14-12623
		Checked	JMC		
		Reviewed	VJB		Figure: A-3



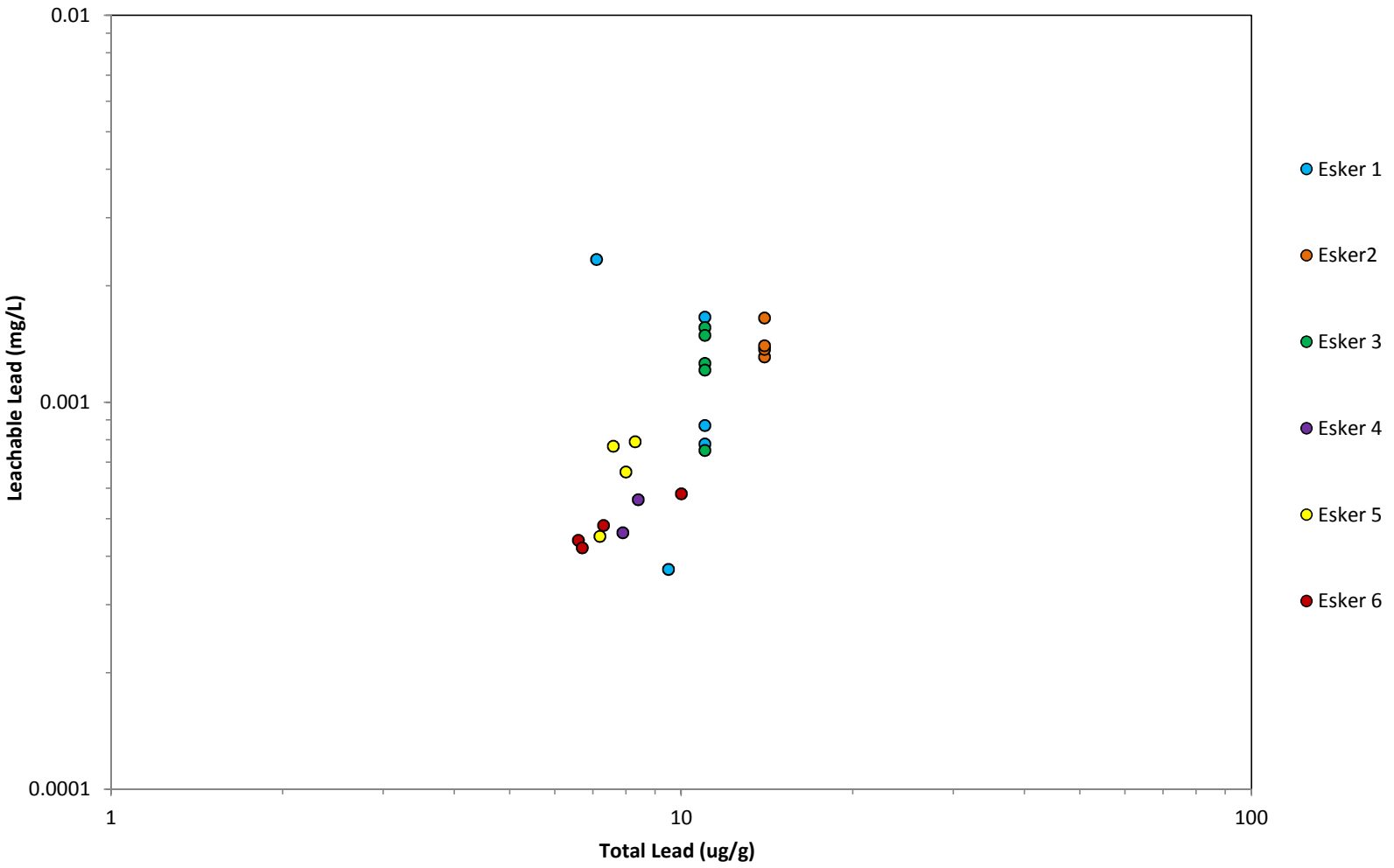
Golder Associates	**IVR Road** **Agnico Eagle Mines Ltd.**	**Total Arsenic versus Leachable Arsenic** **Esker Static Testing**			
Notes: Values < MDL are plotted as MDL	Prepared	NW	Date	Dec-14	Project N° 14-12623
	Checked	JMC			
	Reviewed	VJB			Figure **A-4**



Golder Associates	**IVR Road** **Agnico Eagle Mines Ltd.**	**Total Iron versus Leachable Iron** **Esker Static Testing**			
Notes: Values < MDL are plotted as MDL	Prepared	NW	Date Dec-14	Project N°	14-12623
	Checked	JMC			
	Reviewed	VJB		Figure	**A-5**



Golder Associates	IVR Road Agnico Eagle Mines Ltd.	Total Copper versus Leachable Copper Esker Static Testing			
Notes: Values < MDL are plotted as MDL		Prepared	NW	Date	Dec-14	Project N°	14-12623
		Checked	JMC				
		Reviewed	VJB			Figure	A-6



Golder Associates	IVR Road Agnico Eagle Mines Ltd.	Total Lead versus Leachable Lead Esker Static Testing			
Notes: Values < MDL are plotted as MDL	Prepared	NW	Date	Dec-14	Project N° 14-12623
	Checked	JMC			
	Reviewed	VJB			Figure A-7

ATTACHMENT B

Quality Assurance / Quality Control Assessment

CCME (for the Protection of Freshwater Aquatic Life)[1]		6.5-9				0.000026	0.0001		0.005		1.5				0.00009			0.002	0.3					0.073		0.025	0.001		0.001				0.0008	0.015		
Sample ID	Location	Final pH	Alkalinity	Conductivity	SO4	Hg	Ag	Al	As	Ba	B	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn
		units	mg/L CaCO3	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL[2]		---	2	2	2	0.00001	0.000002	0.01	0.0002	0.00002	0.0002	0.000007	0.000007	0.02	0.000003	0.000004	0.00003	0.00002	0.002	0.002	0.000006	0.003	0.00001	0.00001	0.01	0.0001	0.00001	0.0002	0.001	0.02	0.00001	0.0002	0.00005	0.000005	0.000002	0.00001	0.001
E2-1	Esker 2	6.7	30	60	< 2	< 0.00001	0.000031	0.81	0.0013	0.0089	0.41	0.000027	< 0.000007	0.70	< 0.000003	0.00074	0.0019	0.0020	***0.68***	1.0	0.00067	0.18	0.032	0.00048	11	0.0011	***0.0017***	0.00060	< 0.001	7.6	0.000020	0.0011	0.026	0.000012	0.00013	0.0010	0.0040
E2-1-DUP	Esker 2	6.6	33	63	< 2	0.000010	0.000028	0.86	0.0020	0.0054	0.38	0.000026	0.000021	0.16	0.000043	0.00034	0.0019	***0.0022***	***0.51***	1.1	0.00046	0.12	0.015	0.00081	13	0.00070	0.00058	0.00040	< 0.001	7.0	0.000070	0.00070	0.021	0.0000080	0.00016	0.0010	0.0020
RPD[3]		-	9.5	4.9	-	-	10	6	**42**	**49**	7	<MDL	-	**126**	-	**75**	2	11	28	6	**38**	**37**	**71**	**51**	12	**44**	**96**	<MDL	-	7	**>MDL**	**>MDL**	19	<MDL	19	0	**>MDL**
E2-2	Esker 2	***6.2***	26	51	< 2	< 0.00001	0.000029	0.57	0.0035	0.0067	0.43	0.000022	0.000011	0.97	< 0.000003	0.00099	0.0016	***0.0038***	***0.66***	0.91	0.0011	0.20	0.030	0.00027	8.0	0.0013	***0.0013***	0.00060	< 0.001	8.5	0.000090	0.0015	0.013	0.000089	0.00033	0.0015	0.0030
E2-2-DUP	Esker 2	***6.0***	31	68	< 2	0.000010	0.000033	0.73	***0.0090***	0.018	0.44	0.000080	0.00016	0.68	0.0000080	0.0018	0.0049	***0.0064***	***0.88***	1.6	0.0023	0.32	0.059	0.00044	14	0.0032	0.0028	0.00040	< 0.001	7.4	0.00012	0.0015	0.050	0.000024	0.00046	0.0025	0.0060
RPD[3]		-	18	29	-	-	13	25	**88**	**91**	2	**>MDL**	**>MDL**	**35**	-	**57**	**102**	**51**	29	**55**	**66**	**46**	**67**	**48**	**51**	**84**	**72**	<MDL	-	13	29	0	**117**	**>MDL**	34	**49**	**>MDL**
E2-3	Esker 2	***6.3***	37	72	< 2	< 0.00001	0.000020	1.2	0.0019	0.012	0.49	0.000032	0.000014	0.82	0.000040	0.00076	0.0023	***0.0042***	***1.2***	2.1	0.00097	0.34	0.047	0.00039	13	0.0011	***0.0014***	0.00070	< 0.001	10	0.000090	0.0022	0.037	0.000014	0.00022	0.0014	0.0030
E2-3-DUP	Esker 2	***6.2***	32	72	4.4	0.000010	0.000034	0.50	0.0020	0.0041	0.32	0.000020	0.000029	0.12	0.0000080	0.00038	0.0016	***0.0051***	***0.49***	1.6	0.00035	0.076	0.021	0.00053	12	0.0010	0.00066	0.00060	< 0.001	6.1	0.000070	0.00090	0.019	0.0000060	0.00016	0.00098	0.016
RPD[3]		-	14	0	-	-	**52**	**84**	5	**100**	**42**	**>MDL**	**>MDL**	**149**	**>MDL**	**66**	**39**	20	**80**	31	**95**	**127**	**75**	30	10	10	**70**	<MDL	-	**52**	25	**>MDL**	**64**	**>MDL**	30	34	**>MDL**
E2-4	Esker 2	6.8	25	56	< 2	< 0.00001	0.000045	0.98	0.0020	0.011	0.38	0.000039	< 0.000007	0.53	0.000028	0.00064	0.0018	***0.0021***	***0.71***	1.6	0.00080	0.18	0.032	0.00075	9.4	0.00090	***0.0014***	0.00070	< 0.001	7.6	0.000040	0.0012	0.030	0.000030	0.00020	0.0012	0.0030
E2-4-DUP	Esker 2	6.7	32	71	< 2	< 0.00001	0.000046	0.93	0.0021	0.0084	0.38	0.000036	0.000032	0.30	0.0000080	0.00044	0.0017	***0.0022***	***0.63***	2.9	0.00062	0.16	0.022	0.00082	13	0.00080	0.00096	0.00040	< 0.001	7.5	0.000060	0.0011	0.026	0.000013	0.00020	0.0011	0.0060
RPD[3]		-	25	24	-	-	2	5	5	23	0	8	-	**55**	**>MDL**	**37**	6	3	12	**60**	26	12	**38**	9	34	12	**37**	**>MDL**	-	1	**>MDL**	9	14	**>MDL**	0	9	**>MDL**
E3-1	Esker 3	6.7	24	46	< 2	< 0.00001	0.000019	0.92	0.0017	0.0069	0.43	0.000016	< 0.000007	0.25	0.000010	0.0019	0.0097	***0.0023***	***1.0***	0.31	0.00090	0.40	0.12	0.00033	9.6	0.0037	***0.0013***	0.00060	< 0.001	9.2	0.000030	0.00040	0.018	< 0.000005	0.000057	0.0022	0.0040
E3-1-DUP	Esker 3	6.7	24	42	< 2	< 0.00001	0.000031	0.97	0.0029	0.0029	0.26	0.000020	0.000018	0.050	< 0.000003	0.00083	0.0083	***0.0022***	***0.65***	0.21	0.00040	0.34	0.047	0.00060	5.6	0.0031	0.00058	0.00050	< 0.001	6.4	0.000060	0.00050	0.014	< 0.000005	0.000066	0.0030	0.0020
RPD[3]		-	0	9.1	-	-	**48**	5	**52**	**82**	**49**	<MDL	-	**>MDL**	-	**78**	16	6	**45**	**40**	**78**	16	**84**	**58**	**52**	18	**74**	<MDL	-	**36**	**>MDL**	<MDL	30	-	15	31	**>MDL**
E3-4	Esker 3	6.8	29	63	< 2	< 0.00001	0.000049	0.88	0.0012	0.0093	0.41	0.000020	< 0.000007	0.46	< 0.000003	0.0013	0.0062	0.0019	***0.87***	0.47	0.00084	0.41	0.060	0.00030	11	0.0029	***0.0015***	0.00060	< 0.001	8.1	0.000020	0.00080	0.016	0.0000070	0.000070	0.0017	0.0040
E3-4-DUP	Esker 3	6.8	34	60	< 2	< 0.00001	0.000065	1.7	0.0018	0.0030	0.34	0.000022	0.000017	0.46	< 0.000003	0.00051	0.0054	***0.0021***	***0.49***	0.37	0.00035	0.25	0.025	0.00052	9.8	0.0021	0.00042	0.00040	< 0.001	7.1	0.000040	0.0062	0.012	< 0.000005	0.000074	0.0017	0.0040
RPD[3]		-	16	4.9	-	-	28	**61**	**40**	**103**	19	<MDL	-	0	-	**90**	13	7	**56**	23	**83**	**48**	**83**	**54**	12	32	**112**	<MDL	-	13	**>MDL**	**>MDL**	26	-	6	2	<MDL
E3-5	Esker 3	7.6	23	50	< 2	< 0.00001	0.000045	0.66	0.0018	0.010	0.37	0.000025	< 0.000007	0.36	0.0000040	0.0016	0.0072	***0.0028***	***0.77***	0.42	0.00083	0.33	0.063	0.00073	8.2	0.0045	***0.0012***	0.00060	< 0.001	7.2	0.000020	0.00050	0.013	0.0000080	0.000077	0.0018	0.0040
E3-5-DUP	Esker 3	7.5	28	65	< 2	< 0.00001	0.000063	1.1	0.0031	0.0033	0.30	0.000018	0.000013	0.050	< 0.000003	0.00054	0.0051	***0.0023***	***0.41***	0.78	0.00033	0.27	0.018	0.0011	11	0.0030	0.00038	0.00040	< 0.001	5.8	0.000050	0.00040	0.0078	< 0.000005	0.000088	0.0021	0.0020
RPD[3]		-	20	26	-	-	33	**53**	**53**	**101**	21	<MDL	-	**>MDL**	-	**97**	33	18	**61**	**61**	**86**	20	**111**	**40**	30	**40**	**104**	<MDL	-	22	**>MDL**	<MDL	**49**	-	13	18	**>MDL**
E4-2	Esker 4	6.8	27	56	< 2	< 0.00001	0.000071	0.56	0.00080	0.0055	0.36	0.0000090	< 0.000007	0.42	< 0.000003	0.0011	0.0055	0.0014	***0.47***	1.1	0.00058	0.37	0.035	0.00029	9.5	0.0038	0.00046	0.00090	< 0.001	6.7	0.000050	0.00060	0.0096	0.000012	0.000052	0.0012	0.0030
E4-2-DUP	Esker 4	6.7	34	77	< 2	0.000010	0.000094	1.1	0.0019	0.0034	0.30	0.000016	0.000014	0.070	0.000019	0.00068	0.0070	0.0017	***0.59***	1.3	0.00026	0.23	0.023	0.00041	9.5	0.0037	0.00043	0.00050	< 0.001	6.0	0.000080	0.00040	0.014	< 0.000005	0.000075	0.0019	0.0020
RPD[3]		-	23	32	-	-	28	**67**	**>MDL**	**47**	15	<MDL	-	**>MDL**	-	**46**	25	18	23	18	**76**	**47**	**40**	34	0	3	7	**>MDL**	-	10	**46**	<MDL	**39**	-	**36**	**42**	<MDL
E5-2	Esker 5	6.6	26	52	< 2	< 0.00001	0.000034	0.73	0.0010	0.0068	0.43	0.000028	< 0.000007	0.15	< 0.000003	0.0013	0.0047	***0.0023***	***0.50***	0.39	0.00065	0.17	0.052	0.00018	10.0	0.0022	0.00079	0.00070	< 0.001	7.3	0.000030	0.00040	0.014	< 0.000005	0.000081	0.0011	0.0020
E5-2-DUP	Esker 5	6.5	30	62	< 2	< 0.00001	0.000025	0.72	0.0013	0.0027	0.40	0.000018	0.000012	0.080	< 0.000003	0.00036	0.0029	0.0018	***0.29***	0.68	0.00027	0.12	0.013	0.00022	14	0.0012	0.00026	0.00030	< 0.001	6.4	0.000070	0.00030	0.0084	< 0.000005	0.000067	0.00083	0.0010
RPD[3]		-	14	18	-	-	31	1	26	**87**	6	**>MDL**	-	**>MDL**	-	**115**	**48**	26	**53**	**55**	**83**	**36**	**117**	20	32	**59**	**101**	**>MDL**	-	13	**>MDL**	<MDL	**47**	-	19	26	<MDL
E5-4	Esker 5	7.3	27	58	< 2	< 0.00001	0.000039	0.59	0.0012	0.0077	0.40	0.000021	< 0.000007	0.25	0.000015	0.00087	0.0033	0.0019	***0.41***	1.1	0.00085	0.20	0.034	0.00065	9.8	0.0024	0.00066	0.00080	< 0.001	7.3	0.000020	0.00060	0.0081	< 0.000005	0.000081	0.0011	0.0020
E5-4-DUP	Esker 5	7.0	18	38	< 2	< 0.00001	0.000048	0.90	0.0015	0.0049	0.28	0.000033	0.000013	0.26	0.0000040	0.00055	0.0040	0.0018	***0.51***	1.2	0.00052	0.28	0.021	0.00076	12	0.0026	0.00046	0.00040	< 0.001	7.0	0.000060	0.00080	0.013	0.000011	0.00010	0.0014	0.0020
RPD[3]		-	**40**	**42**	-	-	21	**42**	22	**44**	33	**>MDL**	-	4	**>MDL**	**44**	20	2	22	11	**47**	32	**46**	16	16	8	**36**	**>MDL**	-	3	**>MDL**	<MDL	**49**	-	25	20	<MDL

Notes:

1- CCME Freshwater Guidelines, CEQG (2007), based on total metal concentrations

value above criteria

2- MDL: Method detection limit

3- RPD: Relative Percent cifference. The RPD is calculated per USEPA (1994) and reported as follows:

##	The RPD is greater than 35% (USEPA control limit). An RPD is calculated only when both concentrations are greater or equal to five times the method detection limit (MDL) .
>MDL	The absolute difference between two sample values is greater than the MDL value. This applies where one or both samples are between the MDL and 5x the MDL.
-	One or both values are below the MDL and the evaluation is not be completed.

ATTACHMENT C

SGS Laboratory Certificates of Analysis

SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
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22-October-2014

Agnico Eagle Mines Limited
Attn : Erika Voyer

Baker Lake
, Nunavut
X0C 0A0,

Phone: (819) 759-3555
Fax:(819) 759-3663

Date Rec. : 06 October 2014
LR Report: **CA12161-OCT14**
Reference: OP-408779

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample Date & Time	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
5: E1-1	Sep-14	75.3	11.0	5.34	1.91	0.84	1.83	2.12	0.36	0.11	0.04	0.03	< 0.01	2.20	101.0
6: E1-2	Sep-14	75.2	12.0	4.70	1.66	0.52	1.97	2.58	0.39	0.11	0.03	0.02	0.01	2.14	101.3
7: E1-3	Sep-14	76.5	11.4	3.84	1.33	0.45	1.71	2.68	0.36	0.07	0.02	0.03	< 0.01	2.84	101.2
8: E1-4	Sep-14	78.4	10.5	4.22	1.47	0.47	1.57	2.17	0.32	0.08	0.02	0.02	< 0.01	2.17	101.4
9: E1-5	Sep-14	78.8	10.1	3.95	1.45	0.48	1.60	2.23	0.34	0.08	0.03	0.02	0.02	1.93	101.0
10: E2-1	Sep-14	73.1	12.6	4.19	1.18	1.44	2.86	3.34	0.41	0.11	0.05	0.02	< 0.01	1.72	101.1
11: E2-2	Sep-14	74.0	12.0	4.27	1.29	1.09	2.37	3.17	0.40	0.12	0.03	0.02	0.01	2.09	100.8
12: E2-3	Sep-14	72.8	12.7	4.40	1.29	1.25	2.92	3.31	0.41	0.13	0.04	0.03	< 0.01	2.00	101.2
13: E2-4	Sep-14	74.9	12.0	3.95	0.99	1.14	2.80	3.18	0.37	0.10	0.03	0.03	< 0.01	1.57	101.0
14: E3-1	Sep-14	70.6	13.2	4.31	2.91	1.07	2.89	3.20	0.34	0.10	0.06	0.04	0.01	2.40	101.1
15: E3-2	Sep-14	70.4	13.1	4.68	3.17	1.13	2.85	2.99	0.35	0.10	0.04	0.04	< 0.01	2.40	101.3
16: E3-3	Sep-14	70.4	12.9	4.46	2.95	1.09	3.10	2.73	0.35	0.09	0.06	0.03	< 0.01	2.37	100.6
17: E3-4	Sep-14	70.4	13.2	4.61	2.91	1.17	2.93	2.89	0.36	0.09	0.05	0.03	0.01	2.67	101.3
18: E3-5	Sep-14	68.8	13.3	4.86	3.38	1.12	2.76	3.03	0.37	0.10	0.05	0.04	< 0.01	2.50	100.4
19: E4-1	Sep-14	67.3	12.2	5.13	5.97	1.65	2.62	2.25	0.35	0.09	0.07	0.08	< 0.01	3.28	101.0
20: E4-2	Sep-14	70.6	12.3	4.64	3.62	1.20	2.81	2.46	0.38	0.09	0.05	0.05	< 0.01	2.96	101.2
21: E5-1	Sep-14	75.4	11.8	3.21	1.91	0.74	2.70	2.85	0.29	0.08	0.03	0.03	< 0.01	2.07	101.0
22: E5-2	Sep-14	73.3	12.4	3.73	2.43	0.81	2.56	3.01	0.30	0.08	0.04	0.03	< 0.01	2.53	101.2
23: E5-3	Sep-14	72.7	12.3	3.56	2.27	1.08	2.86	3.00	0.32	0.09	0.04	0.04	< 0.01	2.13	100.3

OnLine LIMS

00002071007

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA12161-OCT14**

Sample ID	Sample Date & Time	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
24: E5-4	Sep-14	73.7	11.6	3.17	1.76	0.88	2.76	2.98	0.29	0.08	0.03	0.03	0.01	1.86	99.2
25: E6-1	Sep-14	75.9	12.1	3.06	1.35	0.84	2.71	3.31	0.25	0.07	0.02	0.03	< 0.01	1.74	101.4
26: E6-2	Sep-14	75.0	12.3	3.01	1.39	0.88	2.58	3.24	0.29	0.09	0.03	0.02	< 0.01	2.28	101.1
27: E6-3	Sep-14	76.1	11.4	3.45	1.96	0.90	2.41	2.88	0.30	0.09	0.03	0.04	< 0.01	1.96	101.5
28: E6-4	Sep-14	75.8	11.4	2.92	1.63	0.92	2.45	2.94	0.28	0.07	0.03	0.03	< 0.01	2.29	100.8

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

0000227107

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc.
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29-October-2014

Agnico Eagle Mines Limited
Attn : Erika Voyer

Baker Lake
, Nunavut
X0C 0A0,

Phone: (819) 759-3555
Fax:(819) 759-3663

Date Rec. : 06 October 2014
LR Report: **CA12162-OCT14**
Reference: OP-408779

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: E1-1	6: E1-2	7: E1-3	8: E1-4	9: E1-5	10: E2-1	11: E2-2	12: E2-3	13: E2-4	14: E3-1	15: E3-2
Sample Date & Time			Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Mercury [µg/g]	23-Oct-14	08:31	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver [µg/g]	28-Oct-14	15:25	0.15	0.23	0.15	0.13	< 0.01	0.02	0.17	0.18	0.18	0.09	0.13
Aluminum [µg/g]	28-Oct-14	12:40	44000	48000	39000	40000	21000	44000	48000	49000	48000	50000	48000
Arsenic [µg/g]	28-Oct-14	15:24	12	14	14	16	13	5.9	13	5.0	6.0	5.4	4.3
Barium [µg/g]	28-Oct-14	15:24	450	510	510	400	170	520	660	660	640	650	610
Beryllium [µg/g]	28-Oct-14	15:24	1.0	1.1	1.2	1.1	0.50	1.4	1.6	1.7	1.8	1.5	1.5
Bismuth [µg/g]	28-Oct-14	15:24	0.17	0.14	0.19	0.14	0.14	0.15	0.36	0.17	0.18	< 0.09	< 0.09
Calcium [µg/g]	28-Oct-14	12:40	5200	3300	2500	3000	2000	8100	6800	7300	7000	6300	6500
Cadmium [µg/g]	28-Oct-14	15:24	0.17	0.19	0.18	0.15	0.07	0.14	0.21	0.23	0.21	0.16	0.16
Cobalt [µg/g]	28-Oct-14	15:24	11	10	8.3	8.8	9.1	5.7	7.4	5.4	4.8	12	13
Chromium [µg/g]	28-Oct-14	15:24	80	88	81	70	44	24	60	50	51	120	110
Copper [µg/g]	28-Oct-14	15:24	13	18	11	11	12	6.8	12	7.1	7.8	7.9	9.9
Iron [µg/g]	28-Oct-14	12:40	32000	29000	23000	25000	23000	24000	26000	25000	24000	26000	27000
Potassium [µg/g]	28-Oct-14	12:40	17000	21000	21000	17000	5600	20000	26000	25000	26000	26000	24000
Lithium [µg/g]	28-Oct-14	15:25	19	17	17	17	14	13	15	13	14	18	18
Magnesium [µg/g]	28-Oct-14	12:40	9400	8400	6500	7100	6500	5400	6200	5600	4600	15000	16000
Manganese [µg/g]	28-Oct-14	15:25	400	350	300	310	310	340	330	370	320	500	430

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LR Report : **CA12162-OCT14**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: E1-1	6: E1-2	7: E1-3	8: E1-4	9: E1-5	10: E2-1	11: E2-2	12: E2-3	13: E2-4	14: E3-1	15: E3-2
Molybdenum [µg/g]	28-Oct-14	15:25	1.1	0.8	1.0	0.7	1.0	0.7	0.8	0.7	0.7	0.5	0.4
Sodium [µg/g]	28-Oct-14	12:39	12000	13000	12000	11000	510	12000	16000	18000	19000	19000	19000
Nickel [µg/g]	28-Oct-14	15:25	48	42	32	39	33	17	30	22	13	89	95
Lead [µg/g]	28-Oct-14	15:25	9.5	11	11	11	7.1	14	14	14	14	11	11
Antimony [µg/g]	28-Oct-14	15:25	< 0.8	2.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	28-Oct-14	15:25	< 0.7	< 0.7	1.1	0.9	1.4	1.3	1.0	1.6	1.1	0.9	1.3
Tin [µg/g]	28-Oct-14	15:25	0.7	0.9	0.9	0.7	< 0.5	1.3	1.2	1.5	1.5	0.9	0.8
Strontium [µg/g]	28-Oct-14	15:25	120	110	88	94	32	130	150	140	130	160	160
Titanium [µg/g]	28-Oct-14	15:25	890	900	840	660	420	1400	1400	1600	1500	1200	1200
Thallium [µg/g]	28-Oct-14	15:25	0.37	0.42	0.48	0.38	0.16	0.42	0.50	0.50	0.49	0.41	0.40
Uranium [µg/g]	28-Oct-14	15:25	2.0	2.2	2.0	1.8	1.7	2.5	2.4	2.5	2.6	1.3	1.4
Vanadium [µg/g]	28-Oct-14	15:25	52	52	45	44	30	29	37	29	26	42	45
Yttrium [µg/g]	28-Oct-14	15:25	6.4	7.2	5.6	5.5	7.5	15	9.8	11	12	5.5	6.1
Zinc [µg/g]	28-Oct-14	15:25	46	43	40	37	35	44	40	44	40	45	46

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Project Specialist
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OnLine LIMS

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29-October-2014

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Date Rec. : 06 October 2014
LR Report: **CA12162-OCT14**
Reference: OP-408779

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CERTIFICATE OF ANALYSIS
Final Report

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Sample Date & Time	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Mercury [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver [µg/g]	0.12	0.10	0.14	0.11	0.13	0.20	0.12	0.13	0.11	0.11	0.08	0.11	0.08
Aluminum [µg/g]	49000	51000	49000	53000	46000	46000	48000	48000	47000	45000	49000	44000	45000
Arsenic [µg/g]	4.1	4.4	5.7	6.9	4.8	3.0	4.1	4.1	2.2	7.4	2.4	3.7	3.1
Barium [µg/g]	570	590	640	490	510	540	560	550	560	550	560	510	540
Beryllium [µg/g]	1.4	1.4	1.5	1.1	1.5	1.3	1.3	1.4	1.5	1.4	1.4	1.4	1.2
Bismuth [µg/g]	< 0.09	< 0.09	0.11	0.16	0.12	0.17	0.14	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	0.47
Calcium [µg/g]	6500	6700	6500	11000	6600	4300	4800	6400	5100	4600	5200	5200	5400
Cadmium [µg/g]	0.17	0.18	0.18	0.16	0.19	0.16	0.16	0.16	0.17	0.15	0.14	0.15	0.13
Cobalt [µg/g]	11	12	14	21	14	7.1	9.9	8.7	6.5	6.5	6.0	8.3	6.2
Chromium [µg/g]	100	110	130	250	160	83	100	94	80	70	66	80	86
Copper [µg/g]	8.3	7.4	11	16	7.5	6.8	7.9	8.1	5.7	5.8	170	7.2	4.9
Iron [µg/g]	27000	27000	29000	32000	27000	19000	23000	21000	19000	18000	18000	20000	17000
Potassium [µg/g]	22000	23000	24000	18000	19000	23000	25000	24000	24000	26000	26000	22000	23000
Lithium [µg/g]	18	17	20	18	15	14	15	15	13	13	15	16	15
Magnesium [µg/g]	15000	15000	17000	31000	19000	9400	12000	12000	8900	6300	6700	9800	7600
Manganese [µg/g]	430	440	470	570	460	320	370	360	320	320	310	310	300

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LR Report : **CA12162-OCT14**

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Molybdenum [µg/g]	0.5	1.1	1.5	0.5	0.5	0.5	0.7	0.6	0.6	0.5	0.4	0.5	0.4
Sodium [µg/g]	21000	19000	18000	17000	19000	18000	17000	19000	18000	17000	17000	15000	15000
Nickel [µg/g]	82	77	110	240	130	50	79	63	45	31	32	56	44
Lead [µg/g]	11	11	11	8.4	7.9	7.2	8.3	7.6	8.0	10	6.6	7.3	6.7
Antimony [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	1.2	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	1.1	1.1	1.6	1.3	1.7	1.5	0.9	1.6	1.7	1.6	1.9	2.4	1.7
Tin [µg/g]	0.8	0.9	0.8	0.7	0.9	0.9	0.8	0.9	0.8	1.0	1.1	0.8	0.7
Strontium [µg/g]	160	160	160	150	120	120	120	120	140	110	140	120	110
Titanium [µg/g]	1300	1300	1300	1200	1200	1000	1000	1200	1200	1000	1200	1300	1100
Thallium [µg/g]	0.35	0.36	0.39	0.28	0.34	0.33	0.33	0.32	0.31	0.37	0.29	0.29	0.27
Uranium [µg/g]	1.4	1.4	1.4	1.3	1.4	1.5	1.5	1.8	1.6	2.8	1.4	1.7	1.3
Vanadium [µg/g]	42	43	47	53	45	27	33	33	28	24	27	29	25
Yttrium [µg/g]	6.3	6.0	6.2	7.0	6.3	6.1	5.8	7.5	6.6	6.5	6.5	7.2	5.4
Zinc [µg/g]	46	47	50	46	45	34	36	35	34	33	35	34	31

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OnLine LIMS

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15-October-2014

Date Rec. : 06 October 2014
LR Report: **CA12164-OCT14**
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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: E1-1	6: E1-2	7: E1-3	8: E1-4	9: E1-5	10: E2-1	11: E2-2	12: E2-3	13: E2-4	14: E3-1	15: E3-2
Sample Date & Time			Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Paste pH	10-Oct-14	16:23	7.81	7.63	6.71	7.46	7.64	7.28	7.10	6.87	7.35	7.26	8.12
Fizz Rate [---]	10-Oct-14	16:23	1	1	1	1	1	1	1	1	1	1	1
Sample weight [g]	10-Oct-14	16:23	1.96	2.11	2.00	2.13	1.91	2.14	2.00	2.12	1.92	2.11	2.12
HCl added [mL]	10-Oct-14	16:23	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	10-Oct-14	16:23	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	10-Oct-14	16:23	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to [pH=8.3 mL]	10-Oct-14	16:23	18.59	18.57	18.95	19.01	18.82	18.67	18.31	18.46	18.04	18.64	18.26
Final pH	10-Oct-14	16:23	1.03	1.11	1.05	1.09	1.06	1.08	1.05	1.21	1.10	1.15	1.14
NP [t CaCO3/1000 t]	10-Oct-14	16:23	3.6	3.4	2.6	2.3	3.1	3.1	4.2	3.6	5.1	3.2	4.1
AP [t CaCO3/1000 t]	---	---	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Net NP [t CaCO3/1000 t]	---	---	3.29	3.09	2.29	1.99	2.79	2.79	3.89	3.29	4.79	2.89	3.79
NP/AP [ratio]	---	---	11.6	11.0	8.39	7.42	9.92	10.0	13.5	11.6	16.5	10.3	13.2
Sulphur (total) [%]	14-Oct-14	12:11	0.007	< 0.005	0.006	< 0.005	0.007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acid Leachable SO4-S [%]	---	---	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sulphide [%]	14-Oct-14	12:11	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbon (total) [%]	09-Oct-14	14:45	0.156	0.072	0.459	0.136	0.072	0.177	0.307	0.260	0.196	0.131	0.094
Carbonate [%]	09-Oct-14	14:45	0.170	0.045	0.020	0.020	0.030	0.010	0.015	0.025	0.050	0.015	0.010

OnLine LIMS

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*NP (Neutralization Potential)

$$= \frac{50 \times (\text{N of HCL} \times \text{Total HCL added} - \text{N NaOH} \times \text{NaOH added})}{\text{Weight of Sample}}$$

*AP (Acid Potential) = % Sulphide Sulphur x 31.25
*Net NP (Net Neutralization Potential) = NP-AP
NP/AP Ratio = NP/AP
*Results expressed as tonnes CaCO3 equivalent/1000 tonnes of material
Samples with a % Sulphide value of <0.01 will be calculated using a 0.01 value.

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Project Specialist
Environmental Services, Analytical

OnLine LIMS

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15-October-2014

Date Rec. : 06 October 2014
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Final Report

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Sample Date & Time	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Paste pH	7.70	7.42	7.93	8.91	7.55	7.42	7.13	7.78	7.67	7.38	7.05	7.77	6.66
Fizz Rate [---]	1	1	2	1	1	1	1	1	1	1	1	1	1
Sample weight [g]	1.97	2.06	2.02	2.05	2.02	2.08	2.02	2.01	1.96	2.00	2.08	2.01	2.04
HCl added [mL]	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to [pH=8.3 mL]	18.11	18.65	18.40	16.70	18.36	18.67	18.46	17.88	18.54	18.77	18.38	19.07	18.30
Final pH	1.06	1.15	1.18	1.22	1.10	1.03	1.01	1.10	1.10	1.05	1.04	1.00	0.98
NP [t CaCO3/1000 t]	4.8	3.3	4.0	8.0	4.1	3.2	3.8	5.3	3.7	3.1	3.9	2.3	4.2
AP [t CaCO3/1000 t]	0.62	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	1.25	0.31	0.31	0.31
Net NP [t CaCO3/1000 t]	4.18	2.99	3.69	7.69	3.79	2.89	3.49	4.99	3.39	1.85	3.59	1.99	3.89
NP/AP [ratio]	7.68	10.6	12.9	25.8	13.2	10.3	12.3	17.1	11.9	2.48	12.6	7.42	13.5
Sulphur (total) [%]	0.024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.068	< 0.005	0.005	< 0.005
Acid Leachable SO4-S [%]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.03	< 0.01	< 0.01	< 0.01
Sulphide [%]	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.04	< 0.01	< 0.01	< 0.01
Carbon (total) [%]	0.193	0.248	0.095	0.203	0.347	0.153	0.209	0.116	0.129	0.094	0.263	0.090	0.341
Carbonate [%]	0.035	0.020	0.010	0.320	0.030	0.015	0.020	0.100	0.015	0.020	0.040	0.020	0.020

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*NP (Neutralization Potential)

$$= \frac{50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})}{\text{Weight of Sample}}$$

*AP (Acid Potential) = % Sulphide Sulphur x 31.25
*Net NP (Net Neutralization Potential) = NP-AP
NP/AP Ratio = NP/AP
*Results expressed as tonnes CaCO3 equivalent/1000 tonnes of material
Samples with a % Sulphide value of <0.01 will be calculated using a 0.01 value.

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28-October-2014

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Date Rec. : 06 October 2014
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Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: E1-1	6: E1-2	7: E1-3	8: E1-4	9: E1-5	10: E2-1	11: E2-2	12: E2-3	13: E2-4	14: E3-1	15: E3-2
Sample Date & Time			Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Sample weight [g]	16-Oct-14	09:38	200	200	200	200	200	200	200	200	200	200	200
Volume D.I. Water [mL]	16-Oct-14	09:38	800	800	800	800	800	800	800	800	800	800	800
Initial pH	16-Oct-14	09:38	6.16	6.03	6.07	6.38	6.48	6.13	6.17	6.10	6.09	6.21	6.81
Final pH	16-Oct-14	09:38	7.21	7.24	6.23	6.82	7.52	6.69	6.18	6.30	6.81	6.67	7.35
pH [no unit]	21-Oct-14	11:05	8.51	8.34	8.02	7.96	9.29	8.90	8.51	8.43	9.15	8.97	9.06
Alkalinity [mg/L as CaCO3]	21-Oct-14	11:05	35	23	30	24	23	30	26	37	25	24	28
Conductivity [µS/cm]	21-Oct-14	11:05	84	46	61	45	48	60	51	72	56	46	56
Sulphate [mg/L]	25-Oct-14	10:03	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Mercury [mg/L]	22-Oct-14	08:57	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	24-Oct-14	15:32	0.000018	0.000034	0.000038	0.000061	0.000038	0.000031	0.000029	0.000020	0.000045	0.000019	0.000046
Aluminum [mg/L]	20-Oct-14	16:25	0.45	1.00	1.11	1.64	0.70	0.81	0.57	1.23	0.98	0.92	0.75
Arsenic [mg/L]	24-Oct-14	15:32	0.0018	0.0046	0.0035	0.0057	0.0041	0.0013	0.0035	0.0019	0.0020	0.0017	0.0022
Barium [mg/L]	24-Oct-14	15:32	0.00691	0.00396	0.00707	0.00451	0.0107	0.00886	0.00668	0.0122	0.0105	0.00692	0.0116
Boron [mg/L]	24-Oct-14	15:32	0.247	0.325	0.473	0.396	0.295	0.407	0.433	0.487	0.382	0.429	0.362
Beryllium [mg/L]	24-Oct-14	15:32	< 0.000007	< 0.000007	0.000019	0.000011	0.000015	0.000027	0.000022	0.000032	0.000039	0.000016	0.000028
Bismuth [mg/L]	24-Oct-14	15:32	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000011	0.000014	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	20-Oct-14	16:25	2.48	0.08	0.33	0.10	0.34	0.70	0.97	0.82	0.53	0.25	0.41
Cadmium [mg/L]	24-Oct-14	15:32	0.000005	0.000007	0.000039	0.000024	0.000010	< 0.000003	< 0.000003	0.000040	0.000028	0.000010	0.000007
Cobalt [mg/L]	24-Oct-14	15:32	0.000386	0.000933	0.000769	0.000883	0.00148	0.000743	0.000994	0.000755	0.000639	0.00188	0.00185
Chromium [mg/L]	24-Oct-14	15:32	0.00099	0.00174	0.00281	0.00225	0.00240	0.00188	0.00161	0.00232	0.00177	0.00973	0.00846

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SFE-24hr 4:1 L/S ratio

LR Report : **CA12165-OCT14**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: E1-1	6: E1-2	7: E1-3	8: E1-4	9: E1-5	10: E2-1	11: E2-2	12: E2-3	13: E2-4	14: E3-1	15: E3-2
Copper [mg/L]	24-Oct-14	15:32	0.00184	0.00315	0.00345	0.00567	0.00308	0.00200	0.00378	0.00416	0.00211	0.00233	0.00455
Iron [mg/L]	20-Oct-14	16:25	0.301	0.445	0.670	0.623	0.712	0.677	0.655	1.15	0.706	1.03	0.965
Potassium [mg/L]	20-Oct-14	16:25	3.99	0.853	1.73	0.960	1.44	1.04	0.908	2.14	1.56	0.312	0.811
Lithium [mg/L]	24-Oct-14	15:32	0.000878	0.000519	0.000933	0.000503	0.000650	0.000671	0.00114	0.000965	0.000804	0.000902	0.00107
Magnesium [mg/L]	20-Oct-14	16:25	0.862	0.102	0.178	0.129	0.196	0.181	0.202	0.340	0.179	0.397	0.487
Manganese [mg/L]	24-Oct-14	15:32	0.0102	0.0346	0.0272	0.0296	0.0455	0.0318	0.0295	0.0466	0.0315	0.115	0.0687
Molybdenum [mg/L]	24-Oct-14	15:32	0.00176	0.00113	0.00035	0.00072	0.00099	0.00048	0.00027	0.00039	0.00075	0.00033	0.00056
Sodium [mg/L]	20-Oct-14	16:25	9.69	9.13	11.6	8.34	7.73	11.4	8.02	13.2	9.39	9.58	10.3
Nickel [mg/L]	24-Oct-14	15:32	0.0006	0.0012	0.0013	0.0013	0.0020	0.0011	0.0013	0.0011	0.0009	0.0037	0.0046
Lead [mg/L]	24-Oct-14	15:32	0.00037	0.00087	0.00078	0.00166	0.00234	0.00165	0.00131	0.00137	0.00140	0.00126	0.00156
Antimony [mg/L]	24-Oct-14	15:32	0.0010	0.0015	0.0010	0.0010	0.0009	0.0006	0.0006	0.0007	0.0007	0.0006	0.0005
Selenium [mg/L]	24-Oct-14	15:32	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silicon [mg/L]	20-Oct-14	16:25	5.71	5.19	10.7	6.67	5.58	7.55	8.50	10.3	7.55	9.21	7.29
Tin [mg/L]	24-Oct-14	15:32	0.00003	0.00003	0.00003	0.00005	0.00001	0.00002	0.00009	0.00009	0.00004	0.00003	0.00005
Strontium [mg/L]	20-Oct-14	16:25	0.0061	0.0005	0.0010	0.0007	0.0010	0.0011	0.0015	0.0022	0.0012	0.0004	0.0006
Titanium [mg/L]	24-Oct-14	15:32	0.00451	0.00757	0.0142	0.00762	0.00929	0.0255	0.0130	0.0369	0.0296	0.0184	0.0143
Thallium [mg/L]	24-Oct-14	15:32	0.000005	< 0.000005	0.000006	0.000006	< 0.000005	0.000012	0.000089	0.000014	0.000030	< 0.000005	0.000006
Uranium [mg/L]	24-Oct-14	15:32	0.000093	0.000163	0.000202	0.000126	0.000129	0.000129	0.000330	0.000216	0.000201	0.000057	0.000087
Vanadium [mg/L]	24-Oct-14	15:32	0.00061	0.00129	0.00121	0.00139	0.00131	0.00100	0.00152	0.00138	0.00117	0.00216	0.00208
Zinc [mg/L]	24-Oct-14	15:32	< 0.001	0.002	0.007	0.003	0.003	0.004	0.003	0.003	0.003	0.004	0.004

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Environmental Services, Analytical

OnLine LIMS

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28-October-2014

Date Rec. : 06 October 2014
LR Report: **CA12165-OCT14**
Reference: OP-408779

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	16: E3-3	17: E3-4	18: E3-5	19: E4-1	20: E4-2	21: E5-1	22: E5-2	23: E5-3	24: E5-4	25: E6-1	26: E6-2	27: E6-3	28: E6-4
Sample Date & Time	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Sample weight [g]	200	200	200	200	200	200	200	200	200	200	200	200	200
Volume D.I. Water [mL]	800	800	800	800	800	800	800	800	800	800	800	800	800
Initial pH	6.71	6.39	6.57	8.10	6.43	6.24	6.20	6.68	6.33	6.33	6.38	6.48	5.84
Final pH	7.14	6.83	7.63	8.71	6.80	6.96	6.63	7.18	7.33	7.29	6.73	7.30	6.18
pH [no unit]	8.67	9.59	9.64	8.96	8.97	7.57	9.10	8.70	9.57	9.26	7.83	8.76	7.55
Alkalinity [mg/L as CaCO3]	26	29	23	44	27	16	26	28	27	33	38	34	17
Conductivity [µS/cm]	48	63	50	104	56	33	52	56	58	68	74	70	40
Sulphate [mg/L]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Silver [mg/L]	0.000060	0.000049	0.000045	0.000020	0.000071	0.000037	0.000034	0.000028	0.000039	0.000023	0.000057	0.000024	0.000059
Aluminum [mg/L]	0.60	0.88	0.66	0.43	0.56	1.62	0.73	0.48	0.59	0.60	1.04	0.68	1.31
Arsenic [mg/L]	0.0012	0.0012	0.0018	0.0063	0.0008	0.0019	0.0010	0.0013	0.0012	0.0013	0.0011	0.0013	0.0013
Barium [mg/L]	0.00398	0.00926	0.0101	0.00518	0.00547	0.00389	0.00675	0.00731	0.00772	0.00504	0.00589	0.0101	0.00402
Boron [mg/L]	0.367	0.414	0.366	0.173	0.355	0.314	0.429	0.340	0.395	0.397	0.286	0.351	0.463
Beryllium [mg/L]	0.000009	0.000020	0.000025	< 0.000007	0.000009	0.000016	0.000028	0.000015	0.000021	0.000014	0.000015	0.000026	0.000013
Bismuth [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	0.19	0.46	0.36	5.65	0.42	0.05	0.15	0.55	0.25	0.27	0.82	0.78	0.07
Cadmium [mg/L]	< 0.000003	< 0.000003	0.000004	0.000004	< 0.000003	0.000007	< 0.000003	0.000007	0.000015	< 0.000003	0.000010	0.000003	0.000014
Cobalt [mg/L]	0.000649	0.00134	0.00155	0.00128	0.00108	0.000682	0.00132	0.000996	0.000867	0.000825	0.000612	0.000847	0.000557
Chromium [mg/L]	0.00292	0.00618	0.00716	0.00518	0.00546	0.00428	0.00467	0.00263	0.00326	0.00222	0.00229	0.00191	0.00329

OnLine LIMS

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SFE-24hr 4:1 L/S ratio

LR Report : **CA12165-OCT14**

Analysis	16: E3-3	17: E3-4	18: E3-5	19: E4-1	20: E4-2	21: E5-1	22: E5-2	23: E5-3	24: E5-4	25: E6-1	26: E6-2	27: E6-3	28: E6-4
Copper [mg/L]	0.00174	0.00194	0.00278	0.00602	0.00142	0.00188	0.00234	0.00250	0.00187	0.00110	0.00189	0.00151	0.00274
Iron [mg/L]	0.405	0.869	0.774	0.513	0.473	0.480	0.495	0.414	0.410	0.333	0.637	0.426	0.556
Potassium [mg/L]	0.853	0.472	0.415	2.51	1.08	0.401	0.390	1.41	1.08	1.18	2.99	3.05	0.670
Lithium [mg/L]	0.000578	0.000842	0.000831	0.00123	0.000575	0.000389	0.000654	0.000624	0.000846	0.000622	0.000526	0.000841	0.000447
Magnesium [mg/L]	0.194	0.410	0.331	2.42	0.367	0.181	0.173	0.294	0.204	0.146	0.889	0.331	0.156
Manganese [mg/L]	0.0319	0.0604	0.0625	0.0233	0.0348	0.0310	0.0515	0.0379	0.0337	0.0219	0.0262	0.0223	0.0210
Molybdenum [mg/L]	0.00053	0.00030	0.00073	0.00149	0.00029	0.00062	0.00018	0.00078	0.00065	0.00078	0.00053	0.00076	0.00032
Sodium [mg/L]	9.01	11.0	8.17	8.66	9.52	6.30	9.97	9.84	9.82	13.0	12.3	12.4	7.91
Nickel [mg/L]	0.0016	0.0029	0.0045	0.0087	0.0038	0.0018	0.0022	0.0018	0.0024	0.0015	0.0018	0.0014	0.0015
Lead [mg/L]	0.00075	0.00149	0.00121	0.00056	0.00046	0.00045	0.00079	0.00077	0.00066	0.00058	0.00044	0.00048	0.00042
Antimony [mg/L]	0.0006	0.0006	0.0006	0.0007	0.0009	0.0010	0.0007	0.0007	0.0008	0.0007	0.0006	0.0006	0.0007
Selenium [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silicon [mg/L]	6.32	8.08	7.21	5.43	6.65	6.18	7.33	6.42	7.28	6.73	5.78	6.67	9.78
Tin [mg/L]	0.00002	0.00002	0.00002	0.00003	0.00005	0.00006	0.00003	0.00011	0.00002	0.00006	0.00006	0.00004	0.00005
Strontium [mg/L]	0.0004	0.0008	0.0005	0.0137	0.0006	0.0005	0.0004	0.0009	0.0006	0.0006	0.0028	0.0016	0.0007
Titanium [mg/L]	0.00674	0.0159	0.0128	0.00376	0.00961	0.0116	0.0135	0.0100	0.00814	0.00697	0.00784	0.00998	0.0124
Thallium [mg/L]	< 0.000005	0.000007	0.000008	0.000015	0.000012	0.000006	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000009	< 0.000005	< 0.000005
Uranium [mg/L]	0.000106	0.000070	0.000077	0.000128	0.000052	0.000119	0.000081	0.000094	0.000081	0.000120	0.000124	0.000099	0.000113
Vanadium [mg/L]	0.00120	0.00166	0.00178	0.00249	0.00124	0.00191	0.00108	0.00093	0.00111	0.00072	0.00092	0.00091	0.00123
Zinc [mg/L]	0.002	0.004	0.004	0.003	0.003	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002

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OnLine LIMS

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15-October-2014

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Date Rec. : 06 October 2014
LR Report: **CA12166-OCT14**
Reference: OP-408779

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample Date & Time	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
3: Analysis Approval Date		10-Oct-14	10-Oct-14	10-Oct-14	10-Oct-14	10-Oct-14	10-Oct-14	10-Oct-14	10-Oct-14
4: Analysis Approval Time		16:24	16:24	16:24	16:24	16:24	16:24	16:24	16:24
5: E1-1	Sep-14	1.5	150	7.69	0.10	0.00	0.00	0.0	0.0
6: E1-2	Sep-14	1.5	150	6.80	0.10	0.00	0.08	0.0	0.3
7: E1-3	Sep-14	1.5	150	6.09	0.10	0.00	0.43	0.0	1.4
8: E1-4	Sep-14	1.5	150	6.41	0.10	0.00	0.22	0.0	0.7
9: E1-5	Sep-14	1.5	150	6.61	0.10	0.00	0.15	0.0	0.5
10: E2-1	Sep-14	1.5	150	6.15	0.10	0.00	0.49	0.0	1.6
11: E2-2	Sep-14	1.5	150	6.34	0.10	0.00	0.30	0.0	1.0
12: E2-3	Sep-14	1.5	150	6.13	0.10	0.00	0.43	0.0	1.4
13: E2-4	Sep-14	1.6	150	6.51	0.10	0.00	0.32	0.0	1.0
14: E3-1	Sep-14	1.5	150	6.68	0.10	0.00	0.10	0.0	0.3
15: E3-2	Sep-14	1.5	150	6.99	0.10	0.00	0.03	0.0	0.1
16: E3-3	Sep-14	1.5	150	6.33	0.10	0.00	0.17	0.0	0.6
17: E3-4	Sep-14	1.5	150	6.54	0.10	0.00	0.22	0.0	0.7
18: E3-5	Sep-14	1.5	150	6.95	0.10	0.00	0.05	0.0	0.2
19: E4-1	Sep-14	1.5	150	8.34	0.10	0.00	0.00	0.0	0.0
20: E4-2	Sep-14	1.5	150	6.75	0.10	0.00	0.08	0.0	0.3
21: E5-1	Sep-14	1.5	150	6.40	0.10	0.00	0.29	0.0	1.0

OnLine LIMS

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NAG Test

LR Report : **CA12166-OCT14**

Sample ID	Sample Date & Time	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
22: E5-2	Sep-14	1.5	150	6.60	0.10	0.00	0.13	0.0	0.4
23: E5-3	Sep-14	1.5	150	7.36	0.10	0.00	0.00	0.0	0.0
24: E5-4	Sep-14	1.5	150	6.44	0.10	0.00	0.26	0.0	0.9
25: E6-1	Sep-14	1.5	150	4.34	0.10	0.05	0.57	0.2	1.9
26: E6-2	Sep-14	1.5	150	6.69	0.10	0.00	0.17	0.0	0.5
27: E6-3	Sep-14	1.5	150	6.67	0.10	0.00	0.18	0.0	0.6
28: E6-4	Sep-14	1.5	150	6.20	0.10	0.00	0.38	0.0	1.2

NAG = (49 x Vol. of base x N of base)/sample weight
kg H2SO4/tonne

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

17-December-2014

Agnico Eagle Mines Limited
Attn : Erika Voyer

Baker Lake,
, X0C 0A0
Phone: (819) 759-3555, Fax:(819) 759-3663

Date Rec. : 04 December 2014
LR Report: **CA12185-DEC14**
Reference: Reassay

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: E2-1	6: E2-2	7: E2-3	8: E2-4	9: E3-1	10: E3-4	11: E3-5	12: E4-2	13: E5-2	14: E5-4
Sample Date & Time			Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Sample weight [g]	09-Dec-14	15:59	200	200	200	200	200	200	200	200	200	200
Volume D.I. Water [mL]	09-Dec-14	15:59	800	800	800	800	800	800	800	800	800	800
Initial pH	09-Dec-14	15:59	5.69	5.49	5.39	5.60	6.03	6.04	6.18	5.89	5.83	6.03
Final pH	09-Dec-14	15:59	6.58	6.00	6.19	6.70	6.69	6.77	7.52	6.71	6.49	7.03
pH [no unit]	11-Dec-14	11:20	8.49	8.84	8.57	9.44	8.10	9.37	9.48	9.39	9.41	7.78
Alkalinity [mg/L as CaCO3]	11-Dec-14	11:20	33	31	32	32	24	34	28	34	30	18
Conductivity [µS/cm]	11-Dec-14	11:20	63	68	72	71	42	60	65	77	62	38
Sulphate [mg/L]	10-Dec-14	13:41	< 2	< 2	4.4	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Mercury [mg/L]	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Silver [mg/L]	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.000046	0.000031	0.000065	0.000063	0.000094	0.000025	0.000048
Aluminum [mg/L]	10-Dec-14	14:36	0.86	0.73	0.50	0.93	0.97	1.65	1.14	1.12	0.72	0.90
Arsenic [mg/L]	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.0021	0.0029	0.0018	0.0031	0.0019	0.0013	0.0015
Barium [mg/L]	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.00836	0.00291	0.00295	0.00332	0.00338	0.00267	0.00492
Boron [mg/L]	10-Dec-14	14:36	0.380	0.441	0.319	0.381	0.260	0.343	0.297	0.304	0.403	0.282
Beryllium [mg/L]	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.000036	0.000020	0.000022	0.000018	0.000016	0.000018	0.000033
Bismuth [mg/L]	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.000032	0.000018	0.000017	0.000013	0.000014	0.000012	0.000013
Calcium [mg/L]	10-Dec-14	14:36	0.16	0.68	0.12	0.30	0.05	0.46	0.05	0.07	0.08	0.26
Cadmium [mg/L]	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.000008	< 0.000003	< 0.000003	< 0.000003	0.000019	< 0.000003	0.000004
Cobalt [mg/L]	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.000438	0.000825	0.000511	0.000537	0.000675	0.000357	0.000554
Chromium [mg/L]	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.00167	0.00830	0.00540	0.00511	0.00702	0.00285	0.00397

OnLine LIMS

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

SFE-24hr 4:1 L/S ratio

LR Report : **CA12185-DEC14**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: E2-1	6: E2-2	7: E2-3	8: E2-4	9: E3-1	10: E3-4	11: E3-5	12: E4-2	13: E5-2	14: E5-4
Copper [mg/L]	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.00217	0.00220	0.00208	0.00232	0.00170	0.00180	0.00184
Iron [mg/L]	10-Dec-14	14:36	0.513	0.877	0.491	0.626	0.650	0.488	0.410	0.594	0.288	0.512
Potassium [mg/L]	10-Dec-14	14:36	1.10	1.59	1.57	2.91	0.207	0.374	0.781	1.29	0.683	1.21
Lithium [mg/L]	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.000619	0.000395	0.000348	0.000332	0.000259	0.000272	0.000523
Magnesium [mg/L]	10-Dec-14	14:36	0.124	0.324	0.076	0.159	0.338	0.251	0.271	0.227	0.120	0.281
Manganese [mg/L]	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.0215	0.0467	0.0249	0.0180	0.0232	0.0134	0.0212
Molybdenum [mg/L]	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.00082	0.00060	0.00052	0.00109	0.00041	0.00022	0.00076
Sodium [mg/L]	10-Dec-14	14:36	12.8	13.5	12.0	13.3	5.61	9.75	11.0	9.52	13.8	11.5
Nickel [mg/L]	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.0008	0.0031	0.0021	0.0030	0.0037	0.0012	0.0026
Lead [mg/L]	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.00096	0.00058	0.00042	0.00038	0.00043	0.00026	0.00046
Antimony [mg/L]	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.0004	0.0005	0.0004	0.0004	0.0005	0.0003	0.0004
Selenium [mg/L]	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silicon [mg/L]	10-Dec-14	14:36	7.03	7.43	6.07	7.45	6.39	7.09	5.76	6.00	6.42	7.04
Tin [mg/L]	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.00006	0.00006	0.00004	0.00005	0.00008	0.00007	0.00006
Strontium [mg/L]	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.0011	0.0005	0.0062	0.0004	0.0004	0.0003	0.0008
Titanium [mg/L]	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.0257	0.0136	0.0122	0.0078	0.0142	0.0084	0.0134
Thallium [mg/L]	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.000013	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000011
Uranium [mg/L]	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.000202	0.000066	0.000074	0.000088	0.000075	0.000067	0.000104
Vanadium [mg/L]	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.00107	0.00295	0.00170	0.00213	0.00190	0.00083	0.00136
Zinc [mg/L]	10-Dec-14	14:36	0.002	0.006	0.016	0.006	0.002	0.004	0.002	0.002	0.001	0.002

Reassay - previous SGS lab report CA12165-OCT4

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Report No. **CA12185-DEC14**
Customer **Agnico Eagle Mines Limited**
Attention **Erika Voyer**
Reference **Reassay**
SFE Leach
Title **Final Report**

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3
Sample Date/Time				Sep-14	Sep-14	Sep-14
Analysis	**Units**					
Sample weight	g	9-Dec-14	15:59	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39
Final pH		9-Dec-14	15:59	6.58	6.00	6.19
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57
Alkalinity	mg/L as CaCO3	11-Dec-14	11:20	33	31	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3
Sample Date/Time				Sep-14	Sep-14	Sep-14
Analysis	**Units**					
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016

Report No.	**CA12185-DEC14**
Customer	**Agnico Eagle Mines Limited**
Attention	**Erika Voyer**
Reference	**Reassay**
	SFE Leach
Title	**Final Report**

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO3	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.021
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.000
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.000
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.001
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006

Report No.	**CA12185-DEC14**
Customer	**Agnico Eagle Mines Limited**
Attention	**Erika Voyer**
Reference	**Reassay**
	SFE Leach
Title	**Final Report**

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO3	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.021
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.000
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.000
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.001
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006

Report No.	**CA12185-DEC14**
Customer	**Agnico Eagle Mines Limited**
Attention	**Erika Voyer**
Reference	**Reassay**
	SFE Leach
Title	**Final Report**

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO3	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.021
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.000
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.000
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.001
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006

Report No.	**CA12185-DEC14**
Customer	**Agnico Eagle Mines Limited**
Attention	**Erika Voyer**
Reference	**Reassay**
	SFE Leach
Title	**Final Report**

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO3	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.021
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.000
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.000
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.001
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006

Report No.	**CA12185-DEC14**
Customer	**Agnico Eagle Mines Limited**
Attention	**Erika Voyer**
Reference	**Reassay**
	SFE Leach
Title	**Final Report**

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO3	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
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Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
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Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
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Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.000
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.000
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
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Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.001
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006

Report No.	**CA12185-DEC14**
Customer	**Agnico Eagle Mines Limited**
Attention	**Erika Voyer**
Reference	**Reassay**
	SFE Leach
Title	**Final Report**

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO3	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.021
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.000
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.000
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.001
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006

Report No.	**CA12185-DEC14**
Customer	**Agnico Eagle Mines Limited**
Attention	**Erika Voyer**
Reference	**Reassay**
	SFE Leach
Title	**Final Report**

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO3	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
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Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
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Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.000
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.000
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.001
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006

Report No.	**CA12185-DEC14**
Customer	**Agnico Eagle Mines Limited**
Attention	**Erika Voyer**
Reference	**Reassay**
	SFE Leach
Title	**Final Report**

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO3	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.021
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.000
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.000
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	**Units**						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.001
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006

APPENDIX B

Cross-sections

15000 E

N

7000 N

7000 N

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54

15000 E

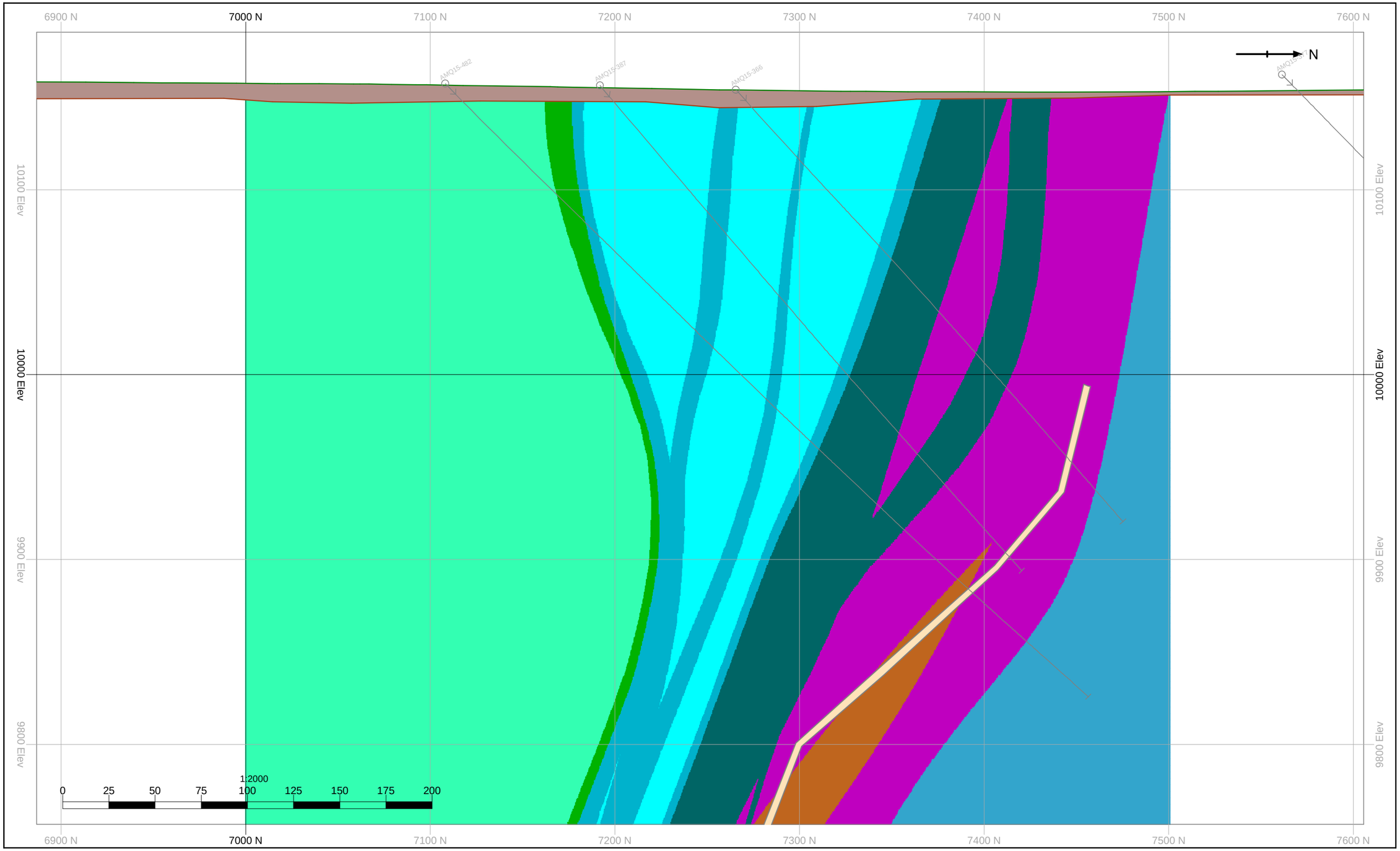
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[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail Plan Projection

Scale 1:4000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



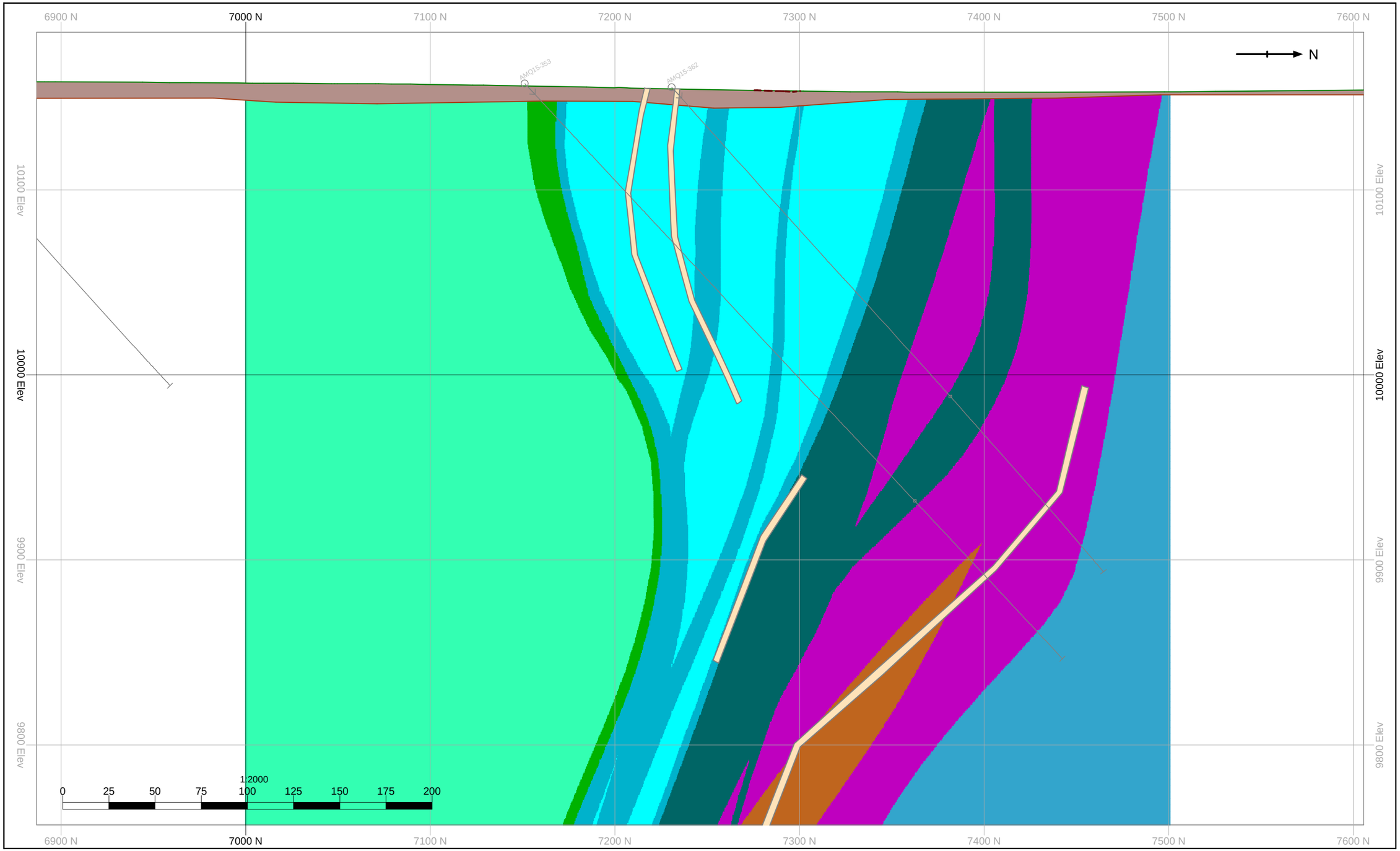
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[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14072	Section Northing: 7246.25	Section Elevation: 9971
Section 1 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



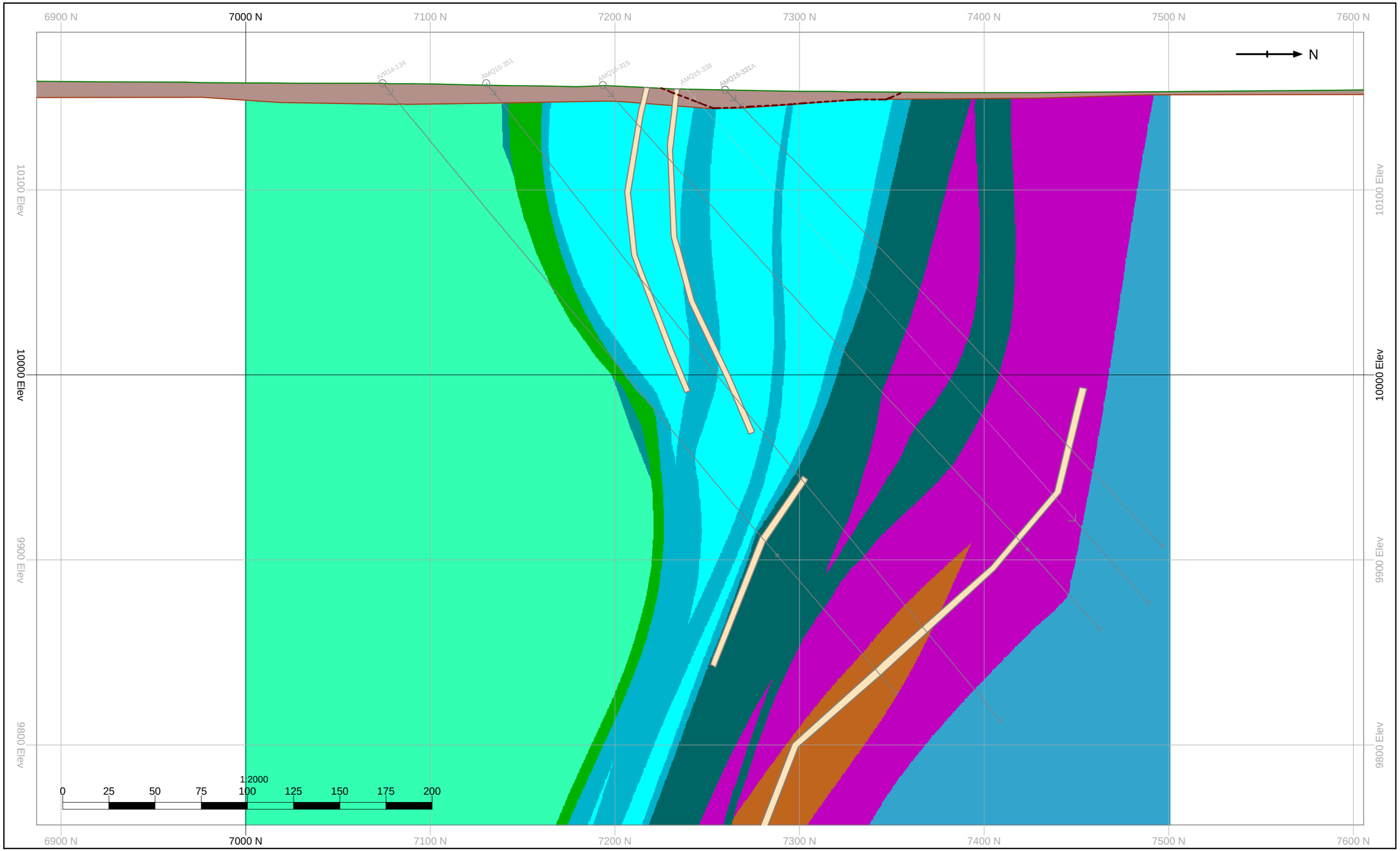
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[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14097	Section Northing: 7246.25	Section Elevation: 9971
Section 2 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

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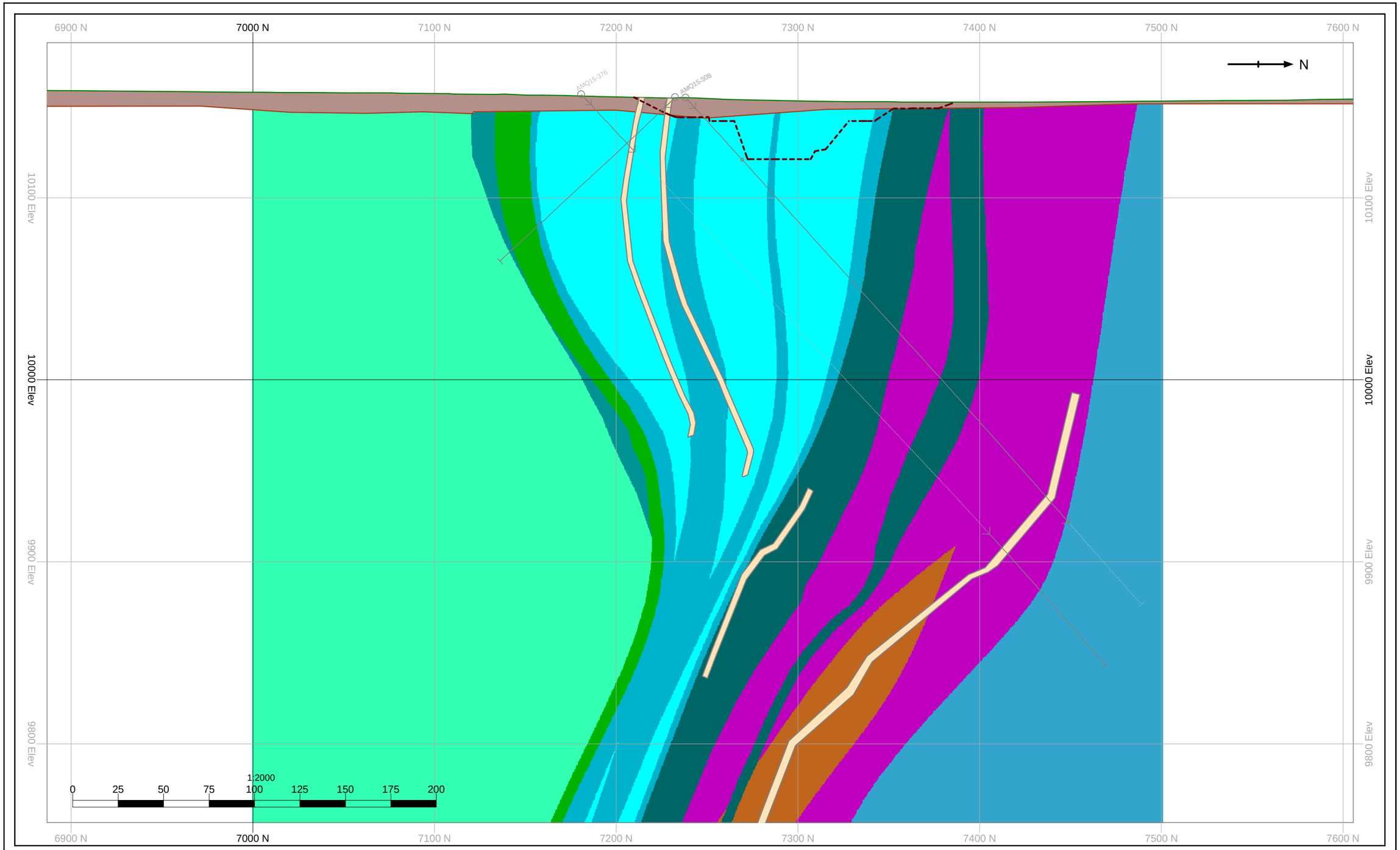
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[I3]	[S3N]	[S3C]
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[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14122	Section Northing: 7246.25	Section Elevation: 9971
Section 3 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



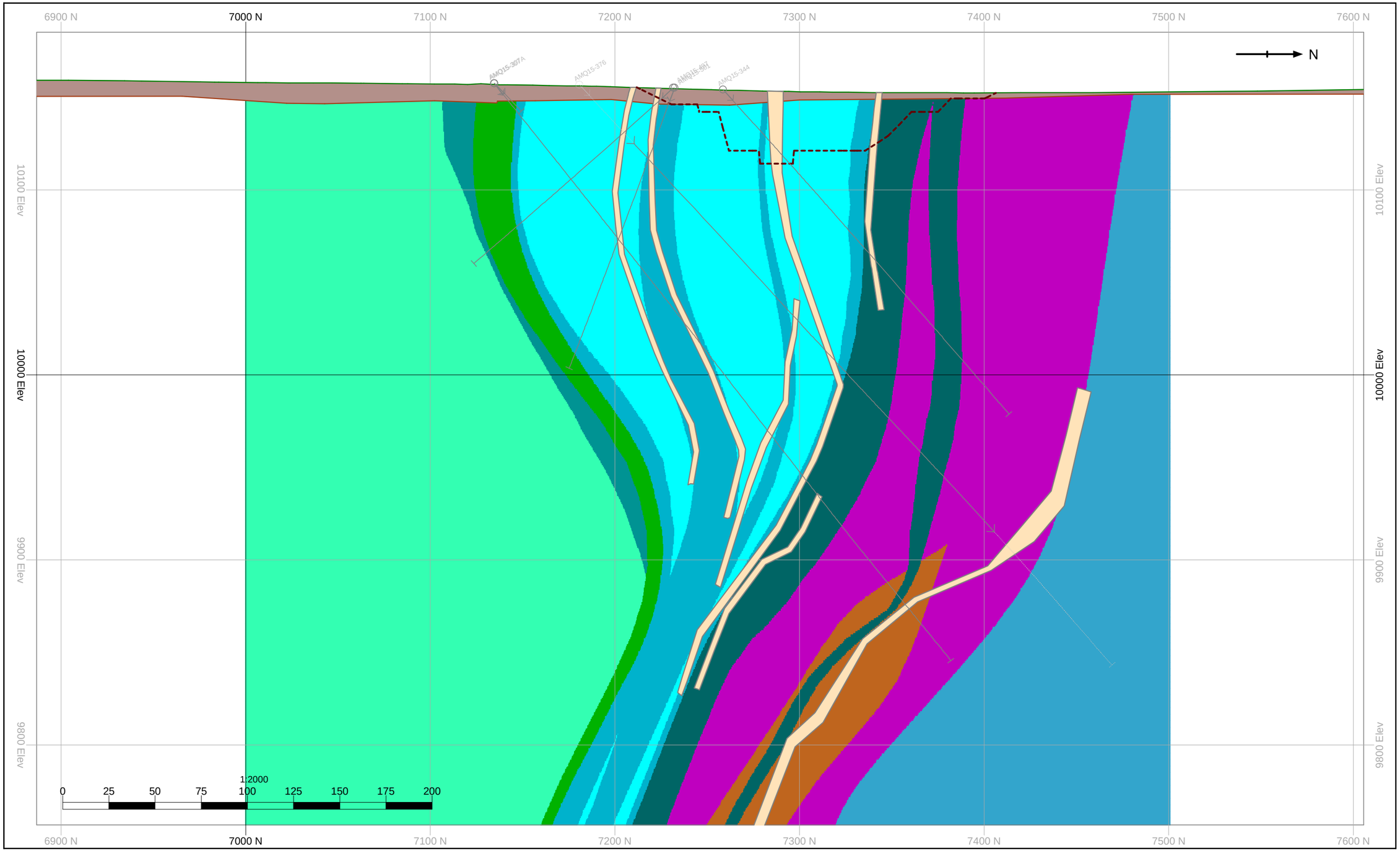
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[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14147	Section Northing: 7246.25	Section Elevation: 9971
Section 4 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



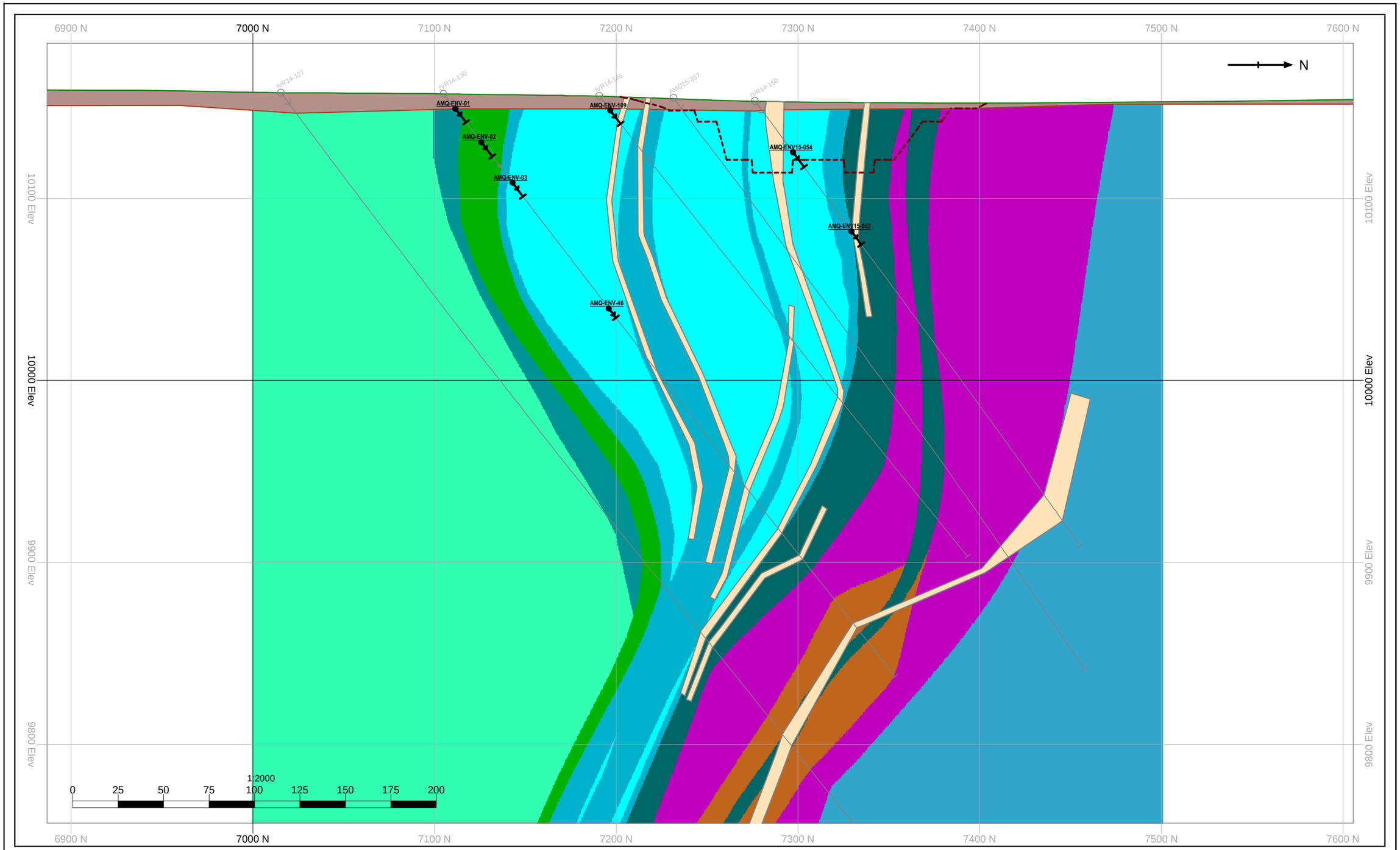
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[I3]	[S3N]	[S3C]
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[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14172	Section Northing: 7246.25	Section Elevation: 9971
Section 5 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



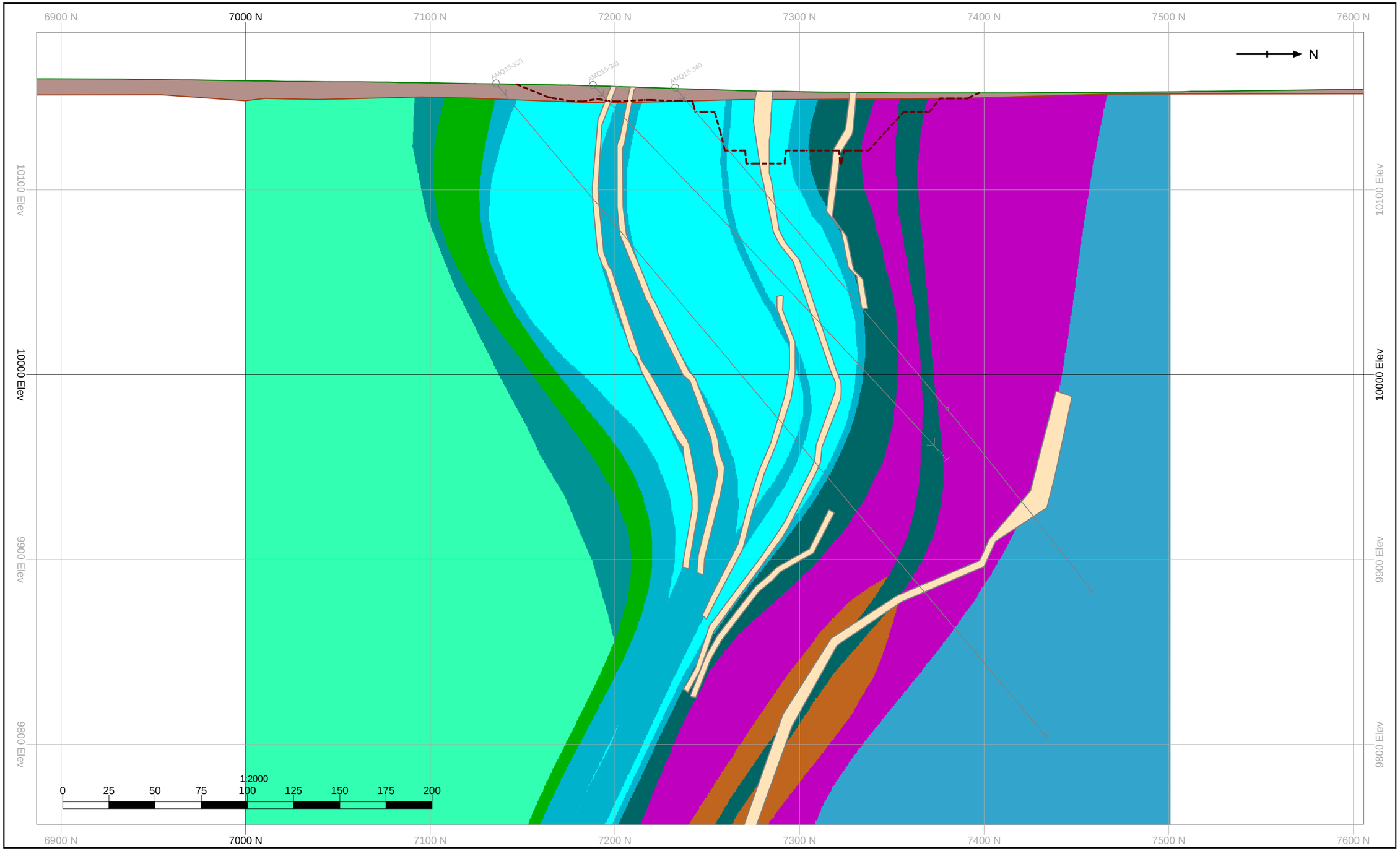
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[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14197	Section Northing: 7246.25	Section Elevation: 9971
Section 6 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



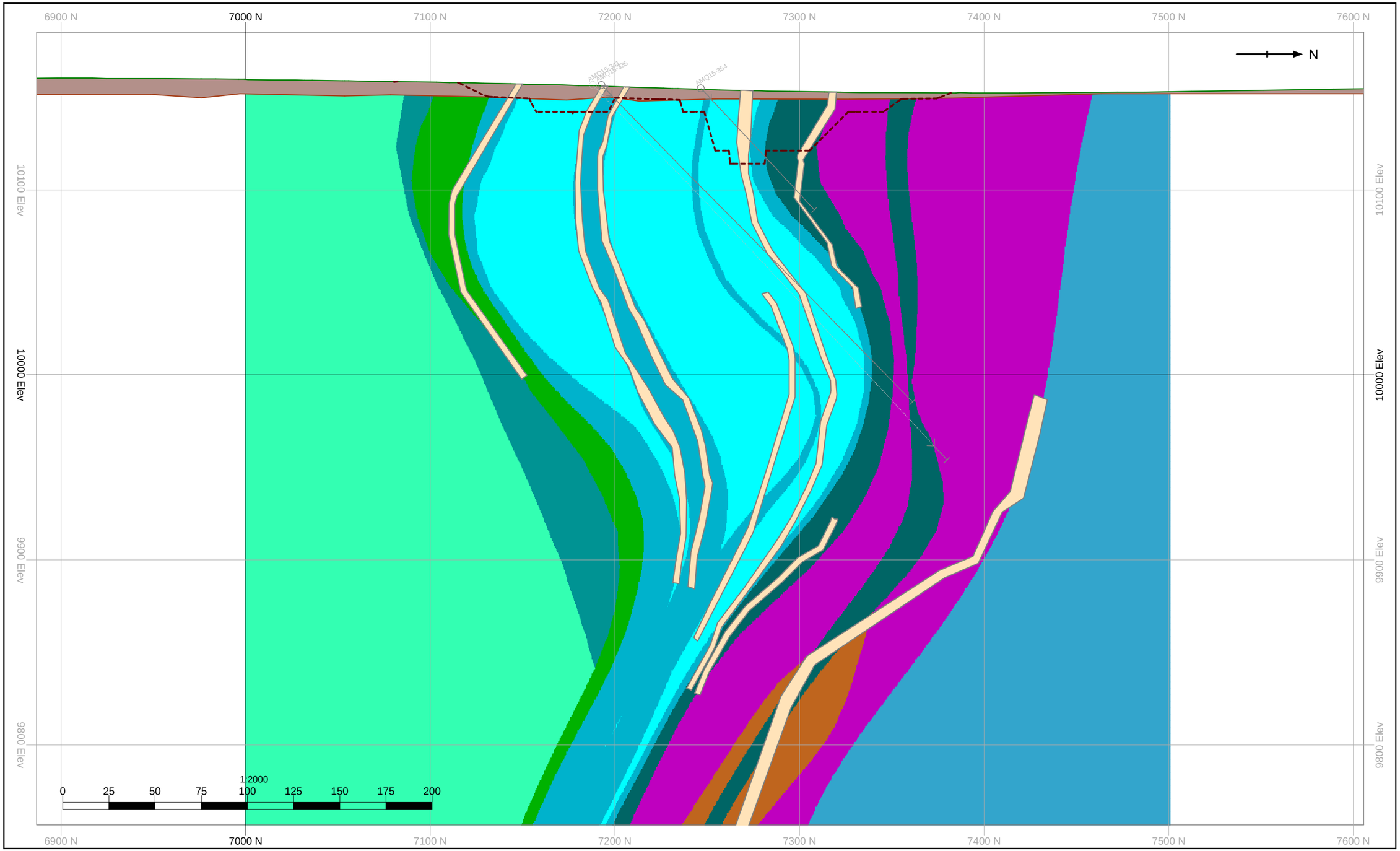
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[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14222	Section Northing: 7246.25	Section Elevation: 9971
Section 7 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



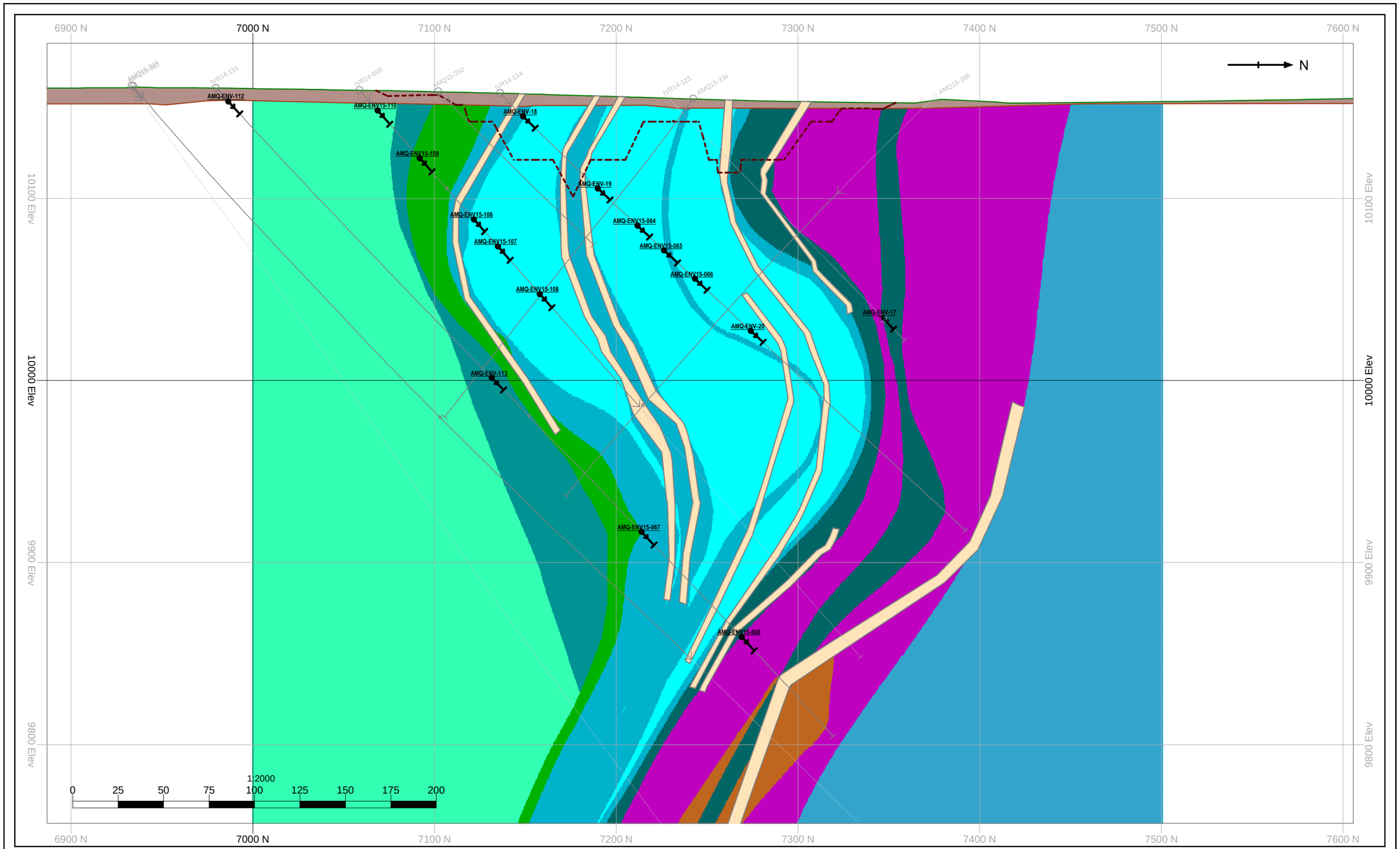
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[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14247	Section Northing: 7246.25	Section Elevation: 9971
Section 8 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

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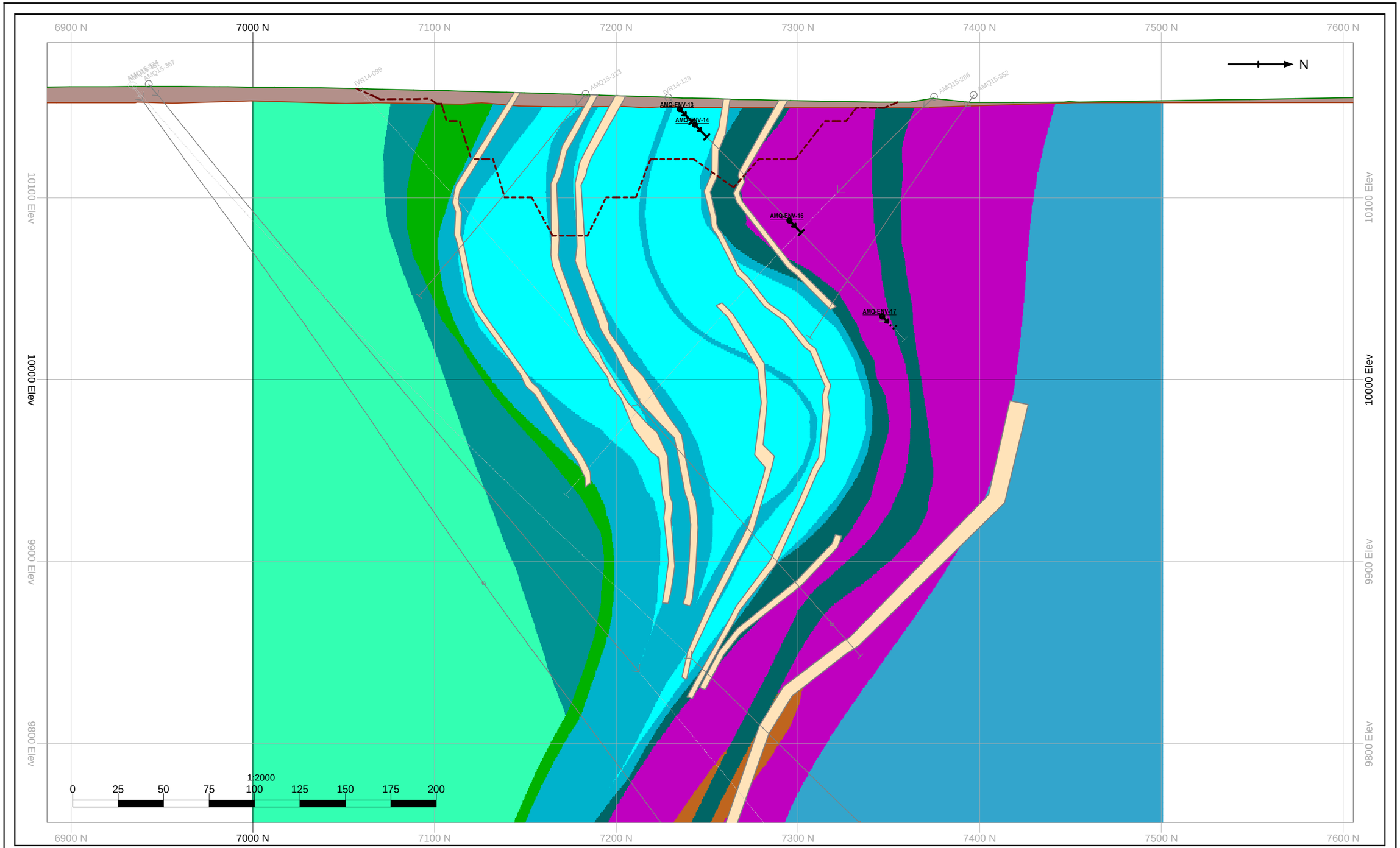
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[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14272	Section Northing: 7246.25	Section Elevation: 9971
Section 9 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



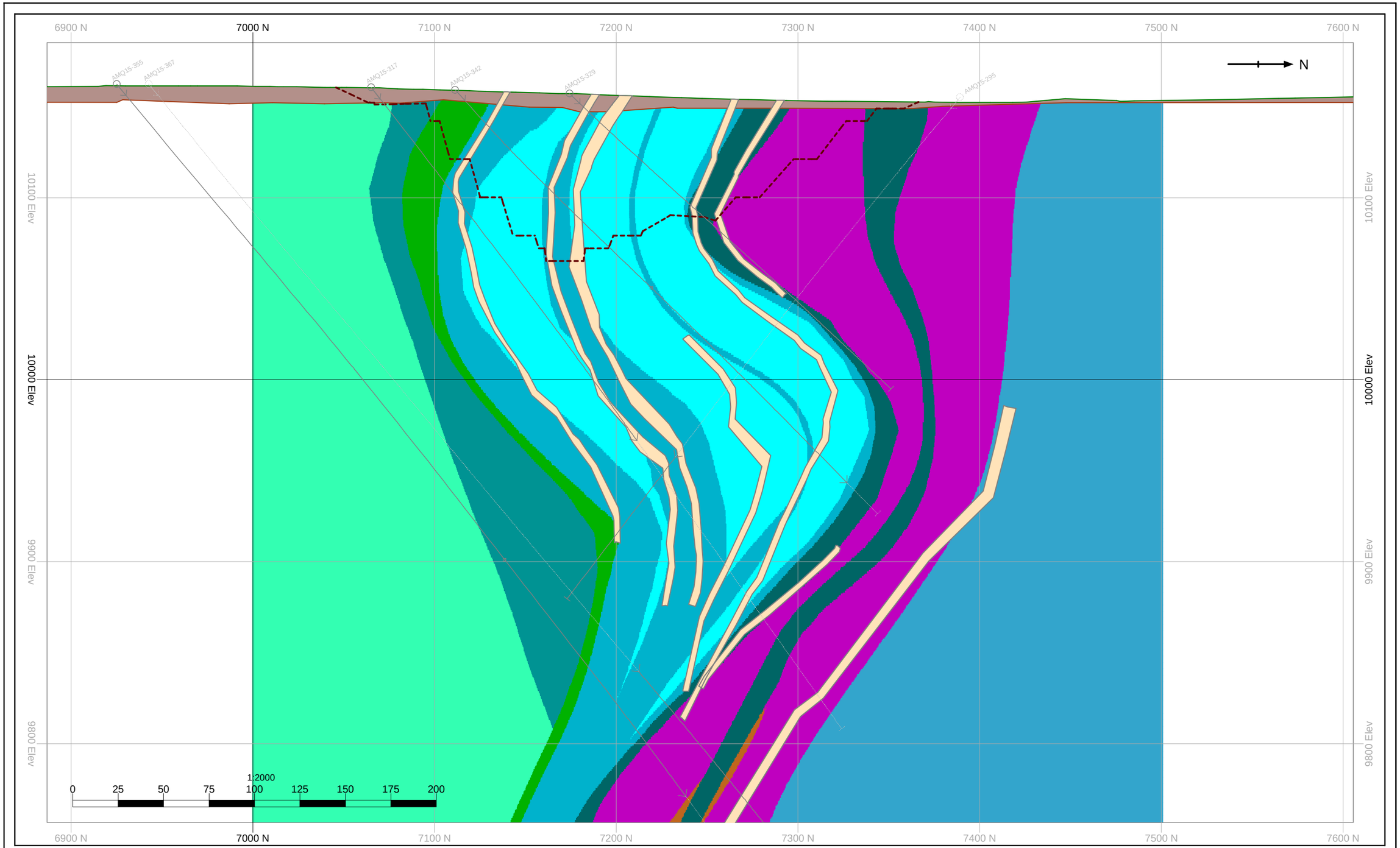
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[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14297	Section Northing: 7246.25	Section Elevation: 9971
Section 10 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

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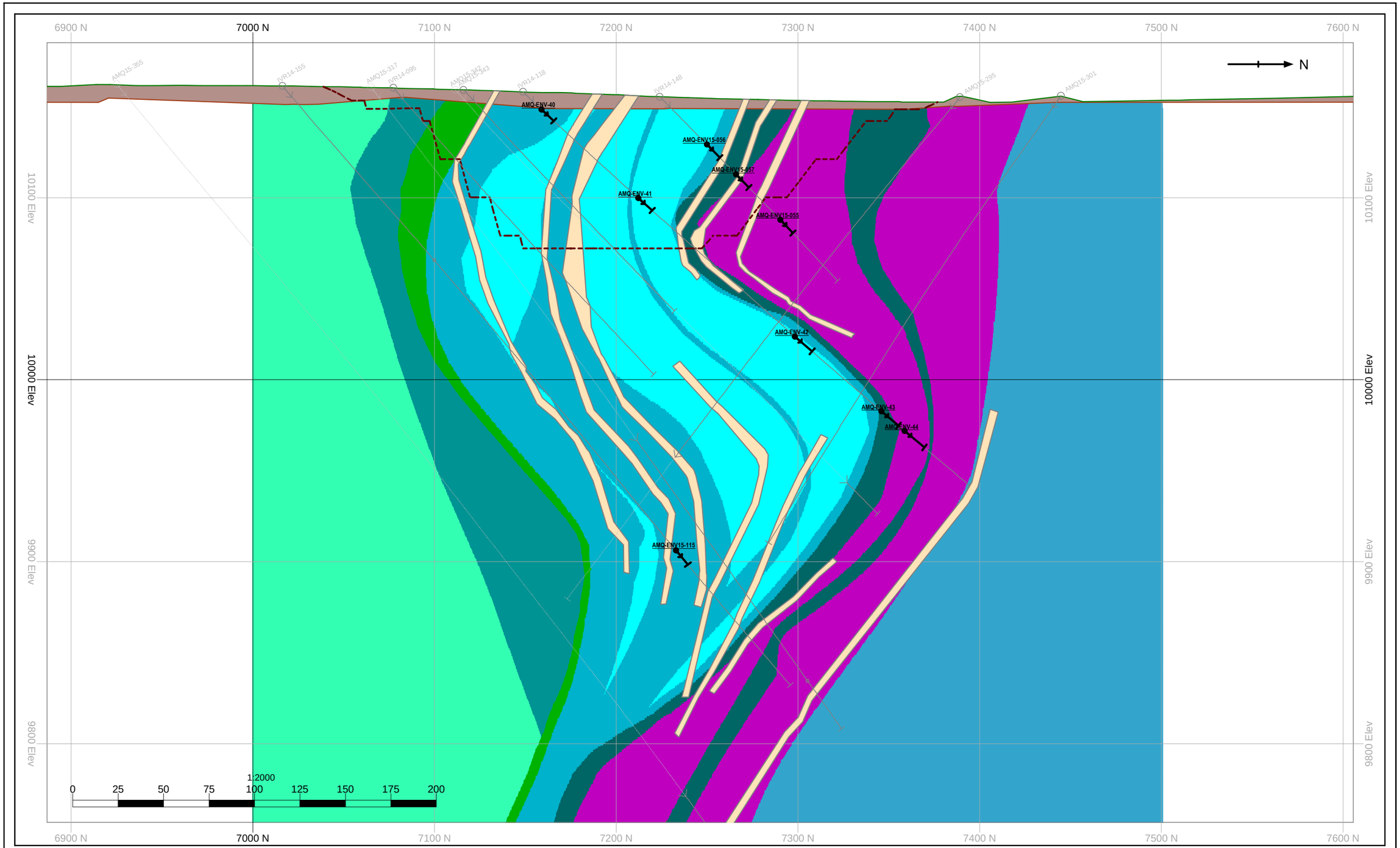
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[I3]	[S3N]	[S3C]
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[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14322	Section Northing: 7246.25	Section Elevation: 9971
Section 11 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

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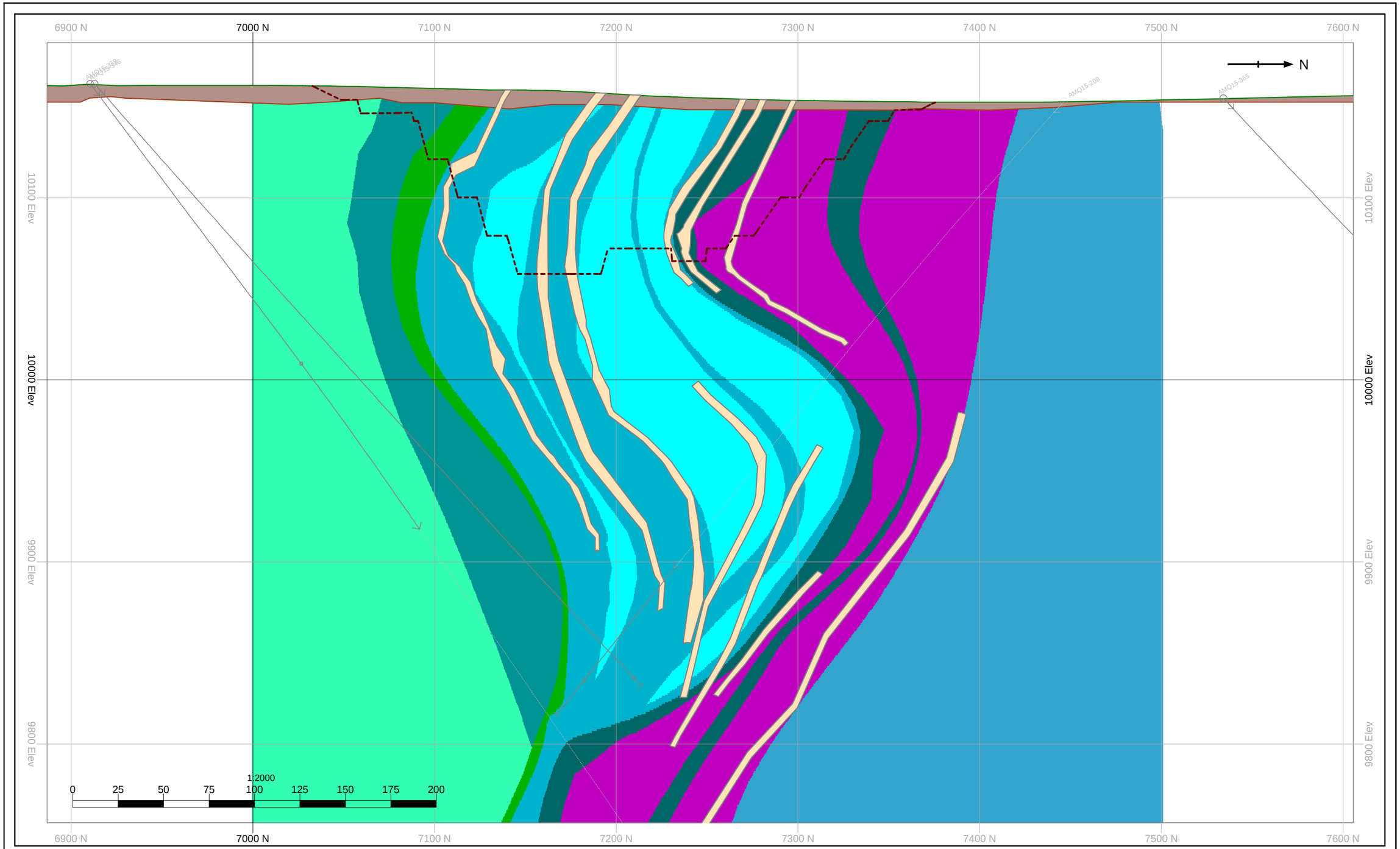
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[I3]	[S3N]	[S3C]
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[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14347	Section Northing: 7246.25	Section Elevation: 9971
Section 12 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

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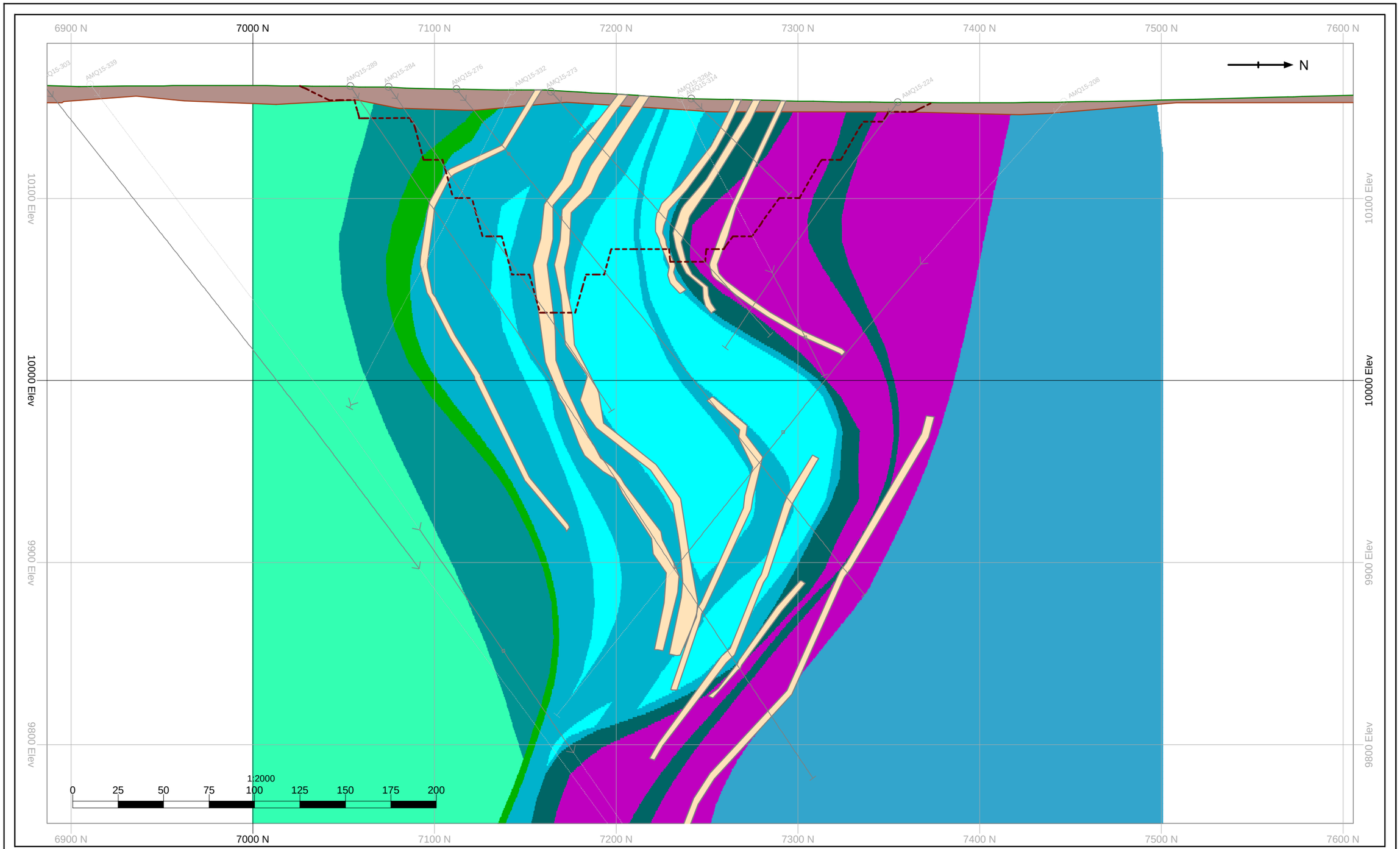
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[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14372	Section Northing: 7246.25	Section Elevation: 9971
Section 13 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

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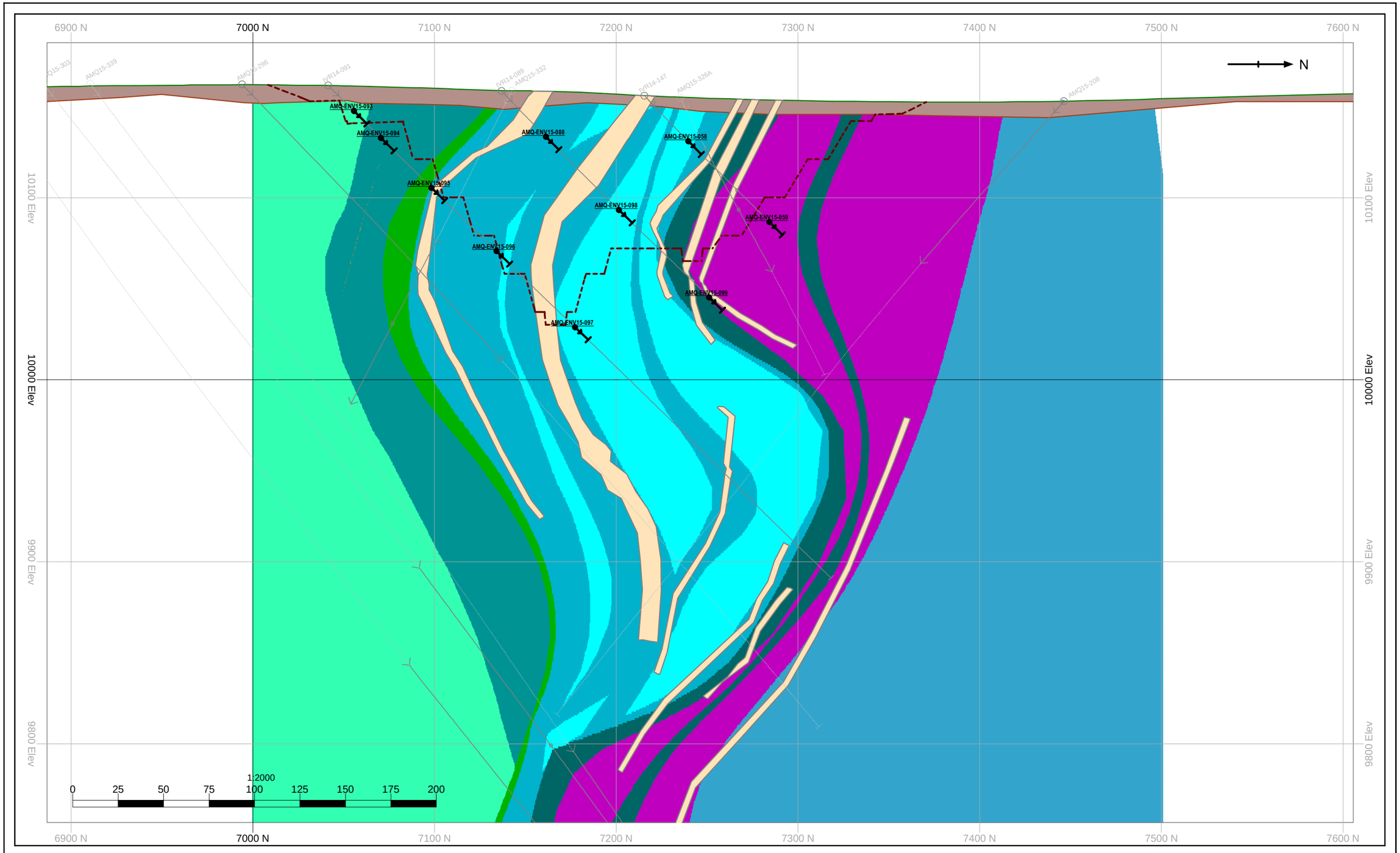
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Whale Tail South North Projection

Section Easting: 14397	Section Northing: 7246.25	Section Elevation: 9971
Section 14 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



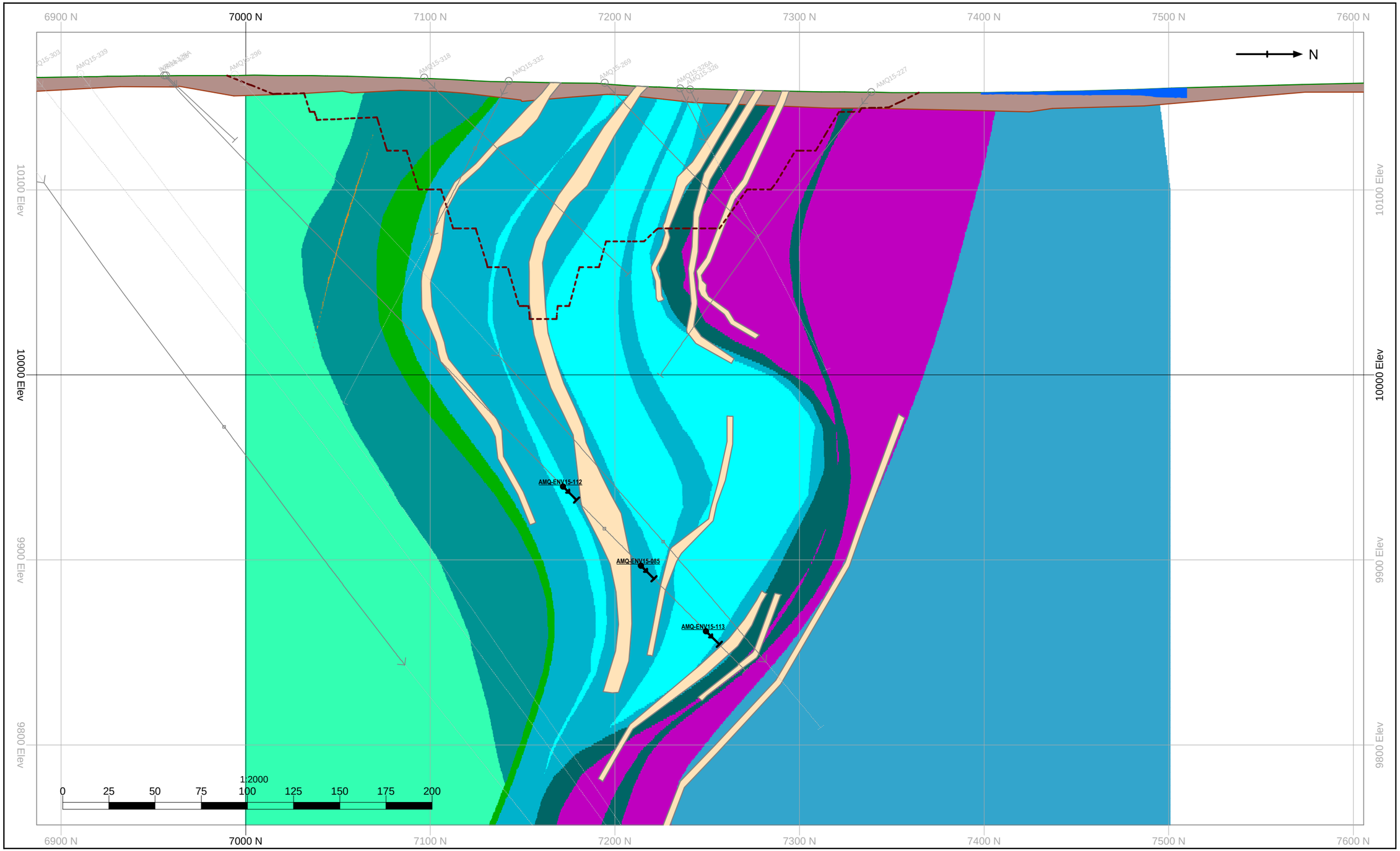
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[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14422	Section Northing: 7246.25	Section Elevation: 9971
Section 15 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



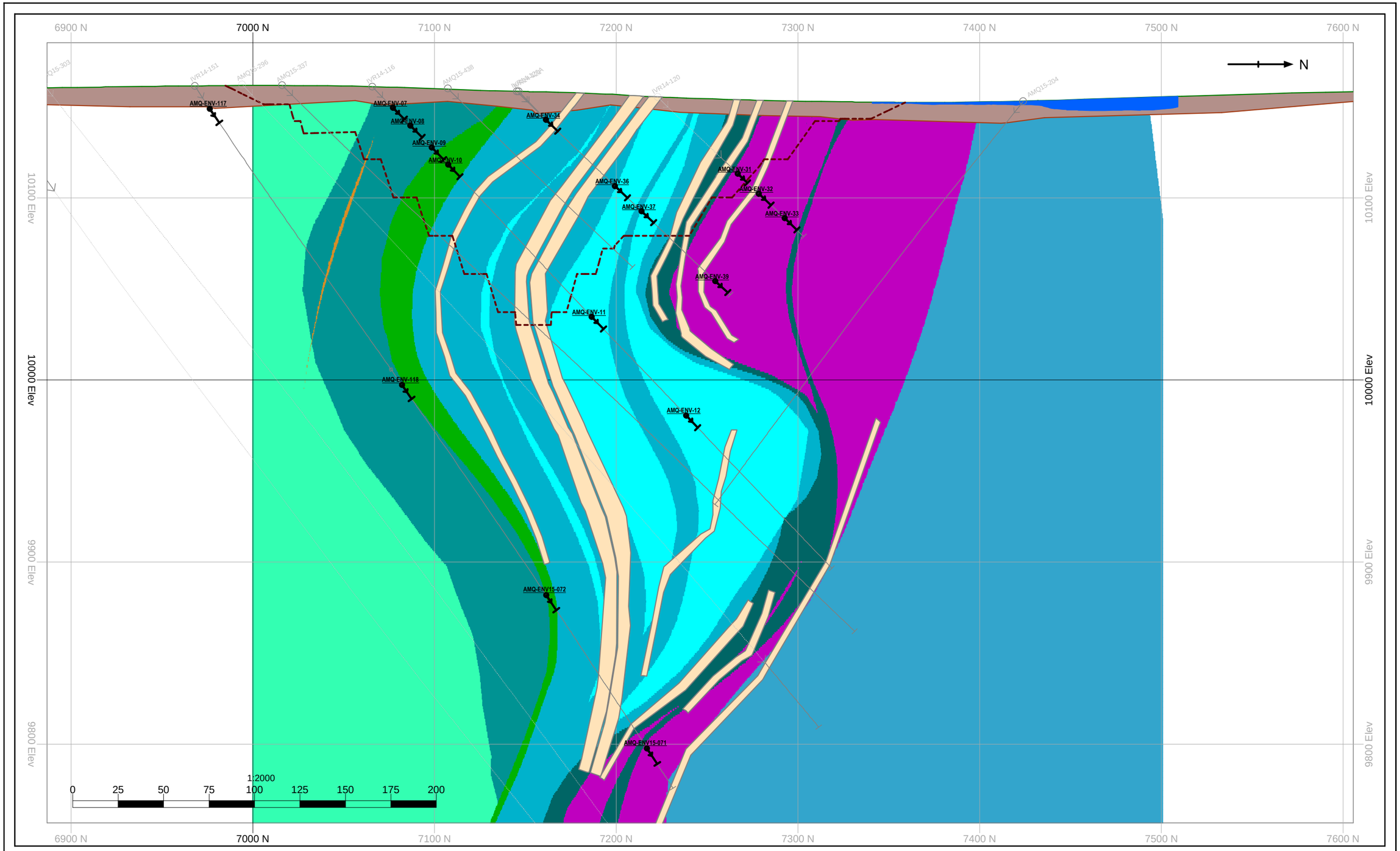
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[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14447	Section Northing: 7246.25	Section Elevation: 9971
Section 16 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



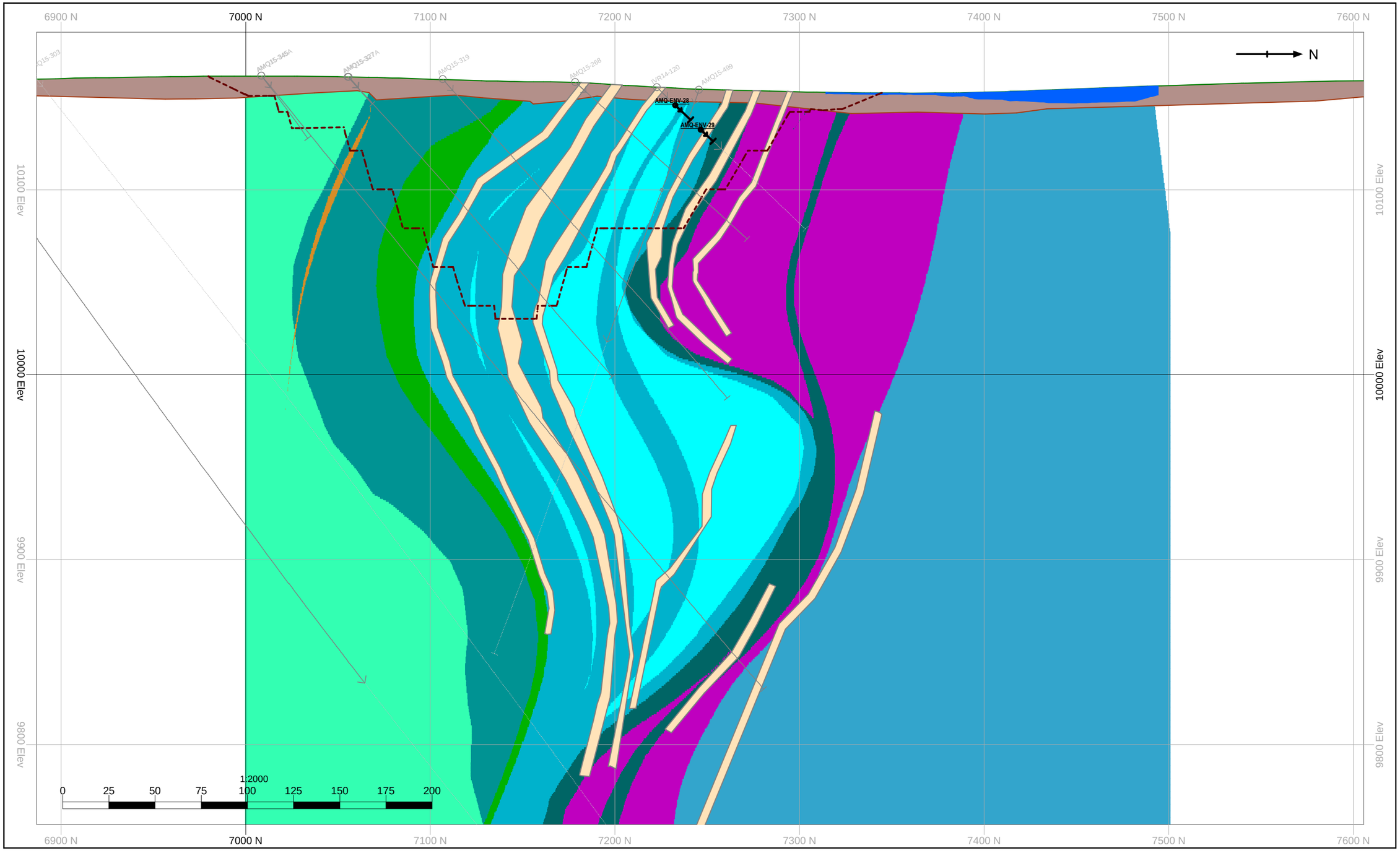
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[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14472	Section Northing: 7246.25	Section Elevation: 9971
Section 17 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

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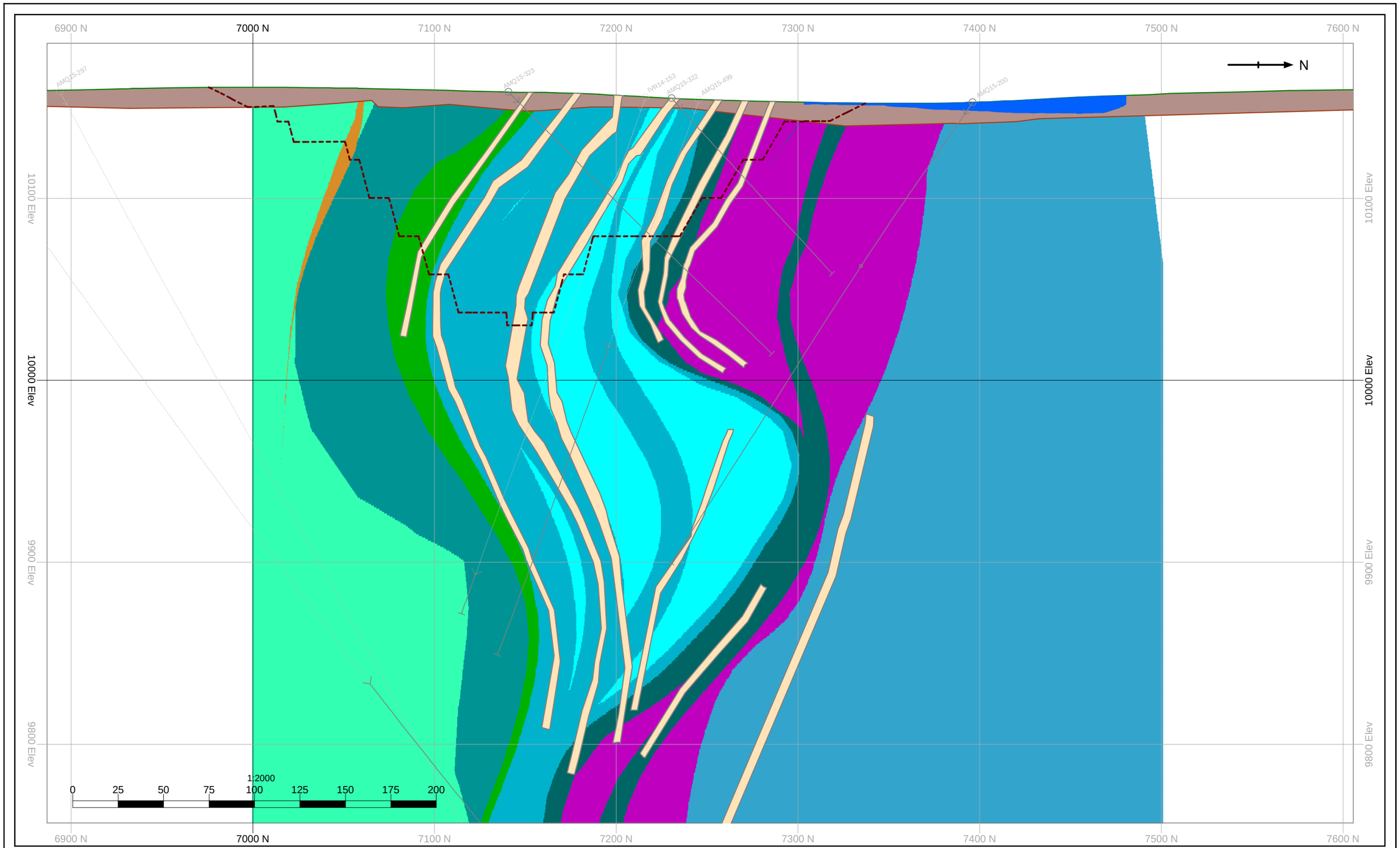
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[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14497	Section Northing: 7246.25	Section Elevation: 9971
Section 18 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

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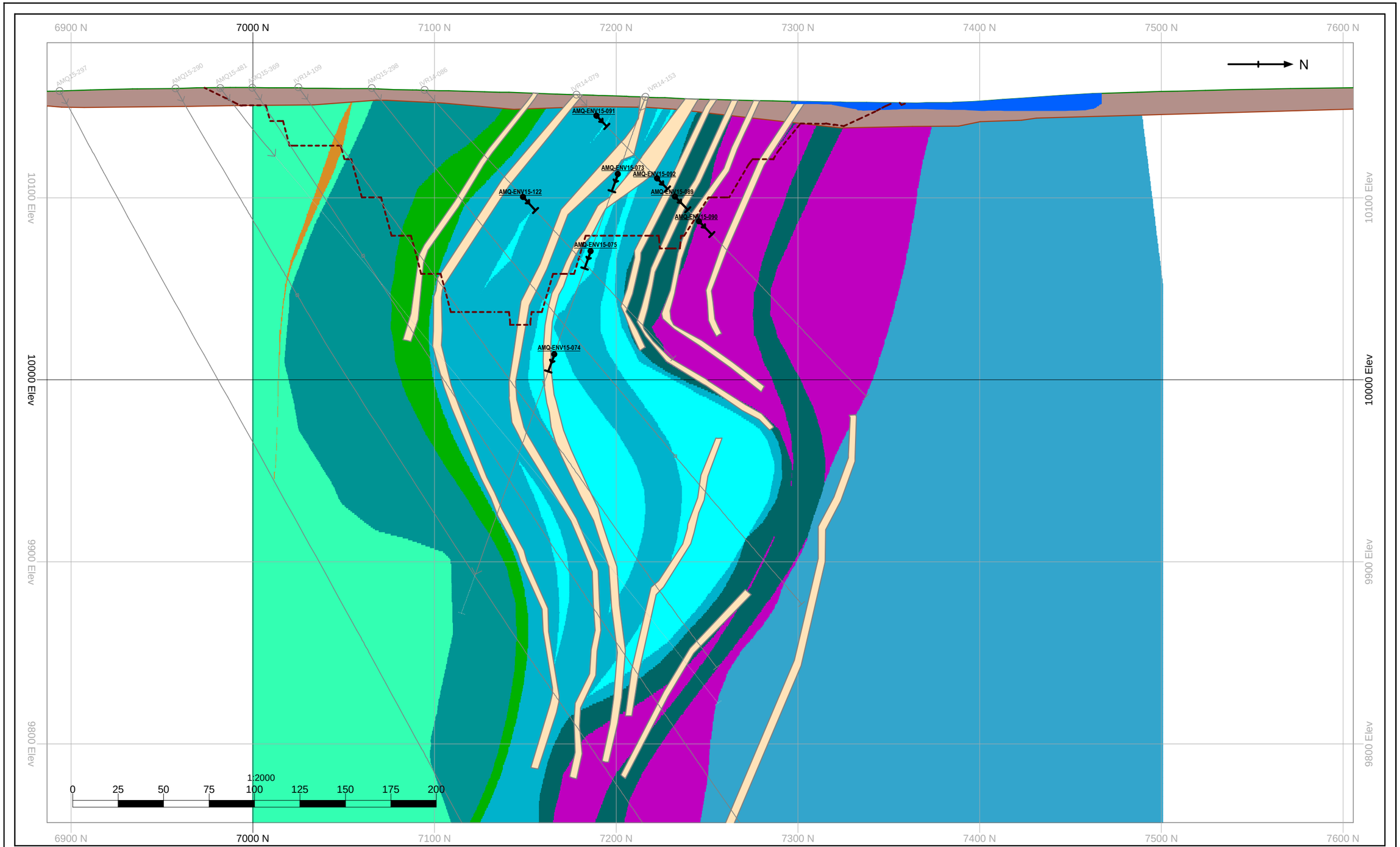
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[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14522	Section Northing: 7246.25	Section Elevation: 9971
Section 19 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



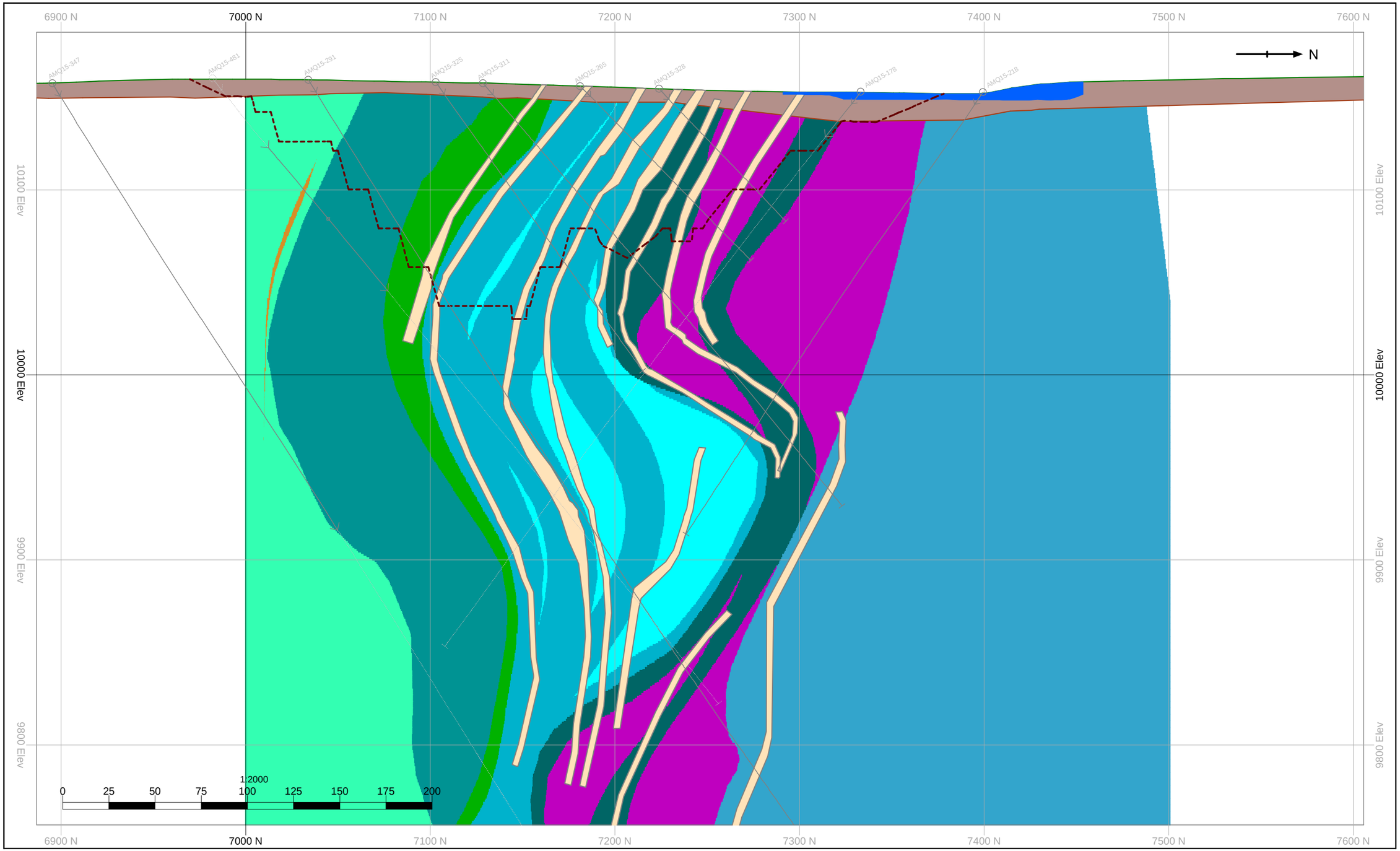
WT Legend

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[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14547	Section Northing: 7246.25	Section Elevation: 9971
Section 20 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



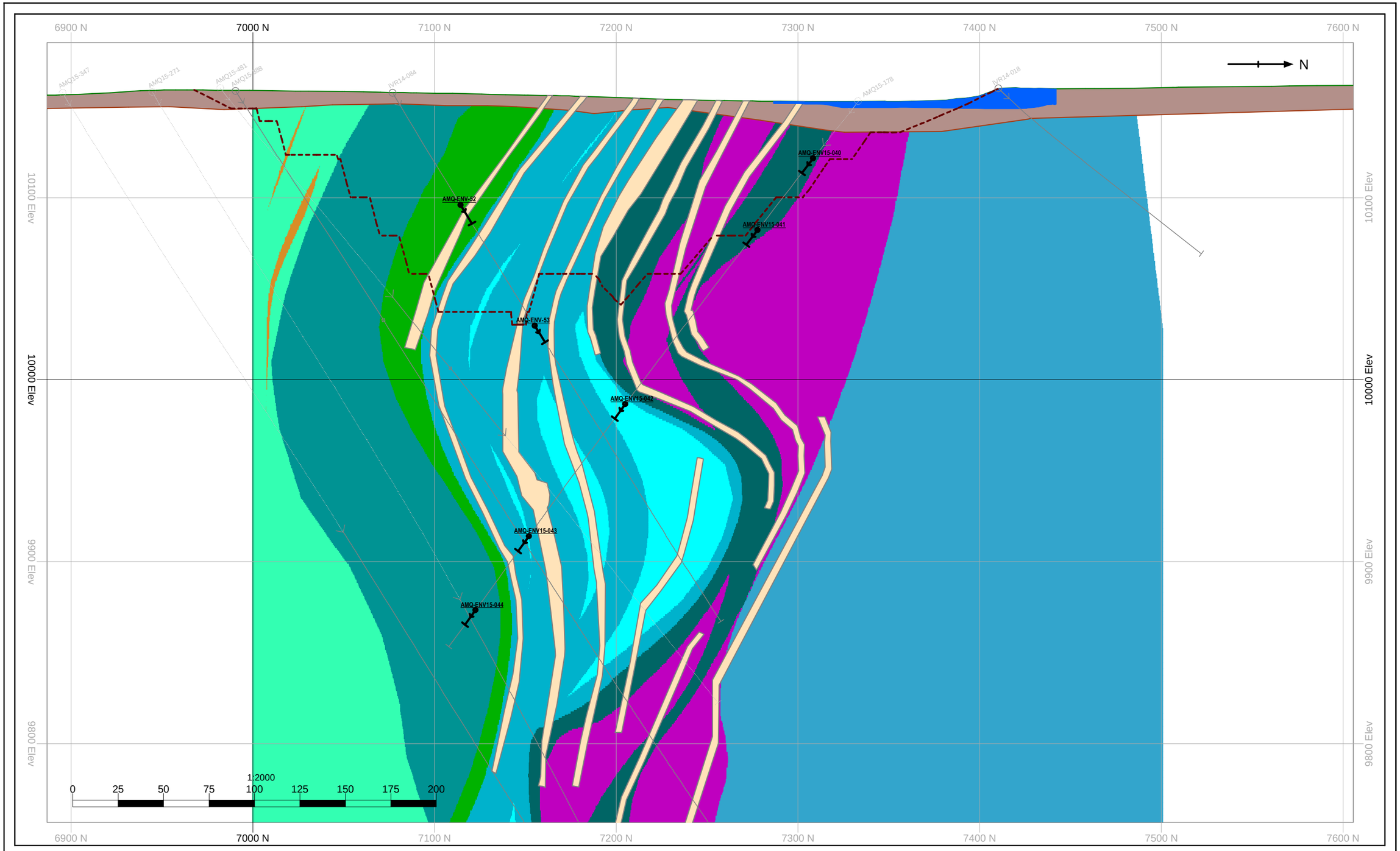
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14572	Section Northing: 7246.25	Section Elevation: 9971
Section 21 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



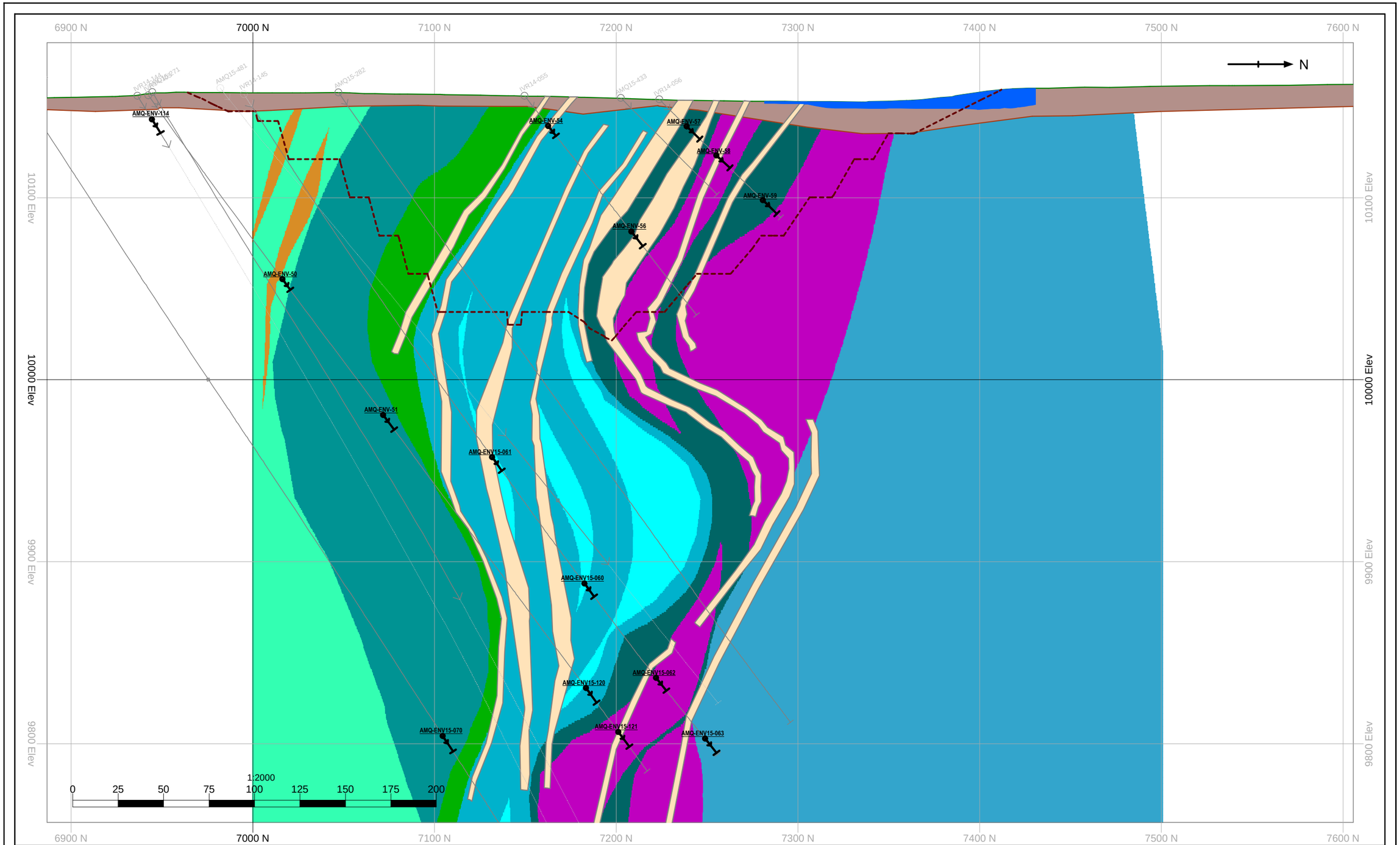
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14597	Section Northing: 7246.25	Section Elevation: 9971
Section 22 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



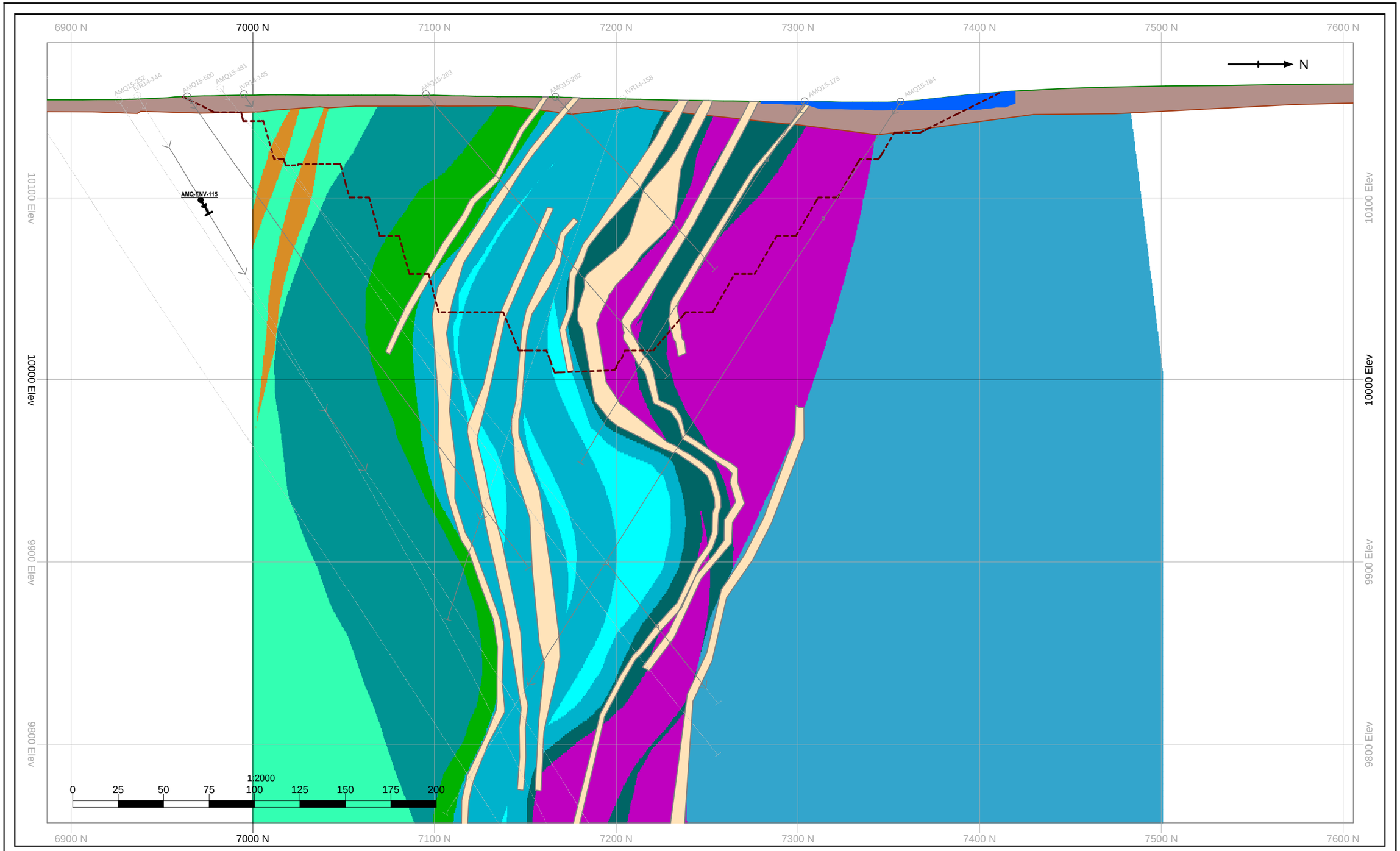
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14622	Section Northing: 7246.25	Section Elevation: 9971
Section 23 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



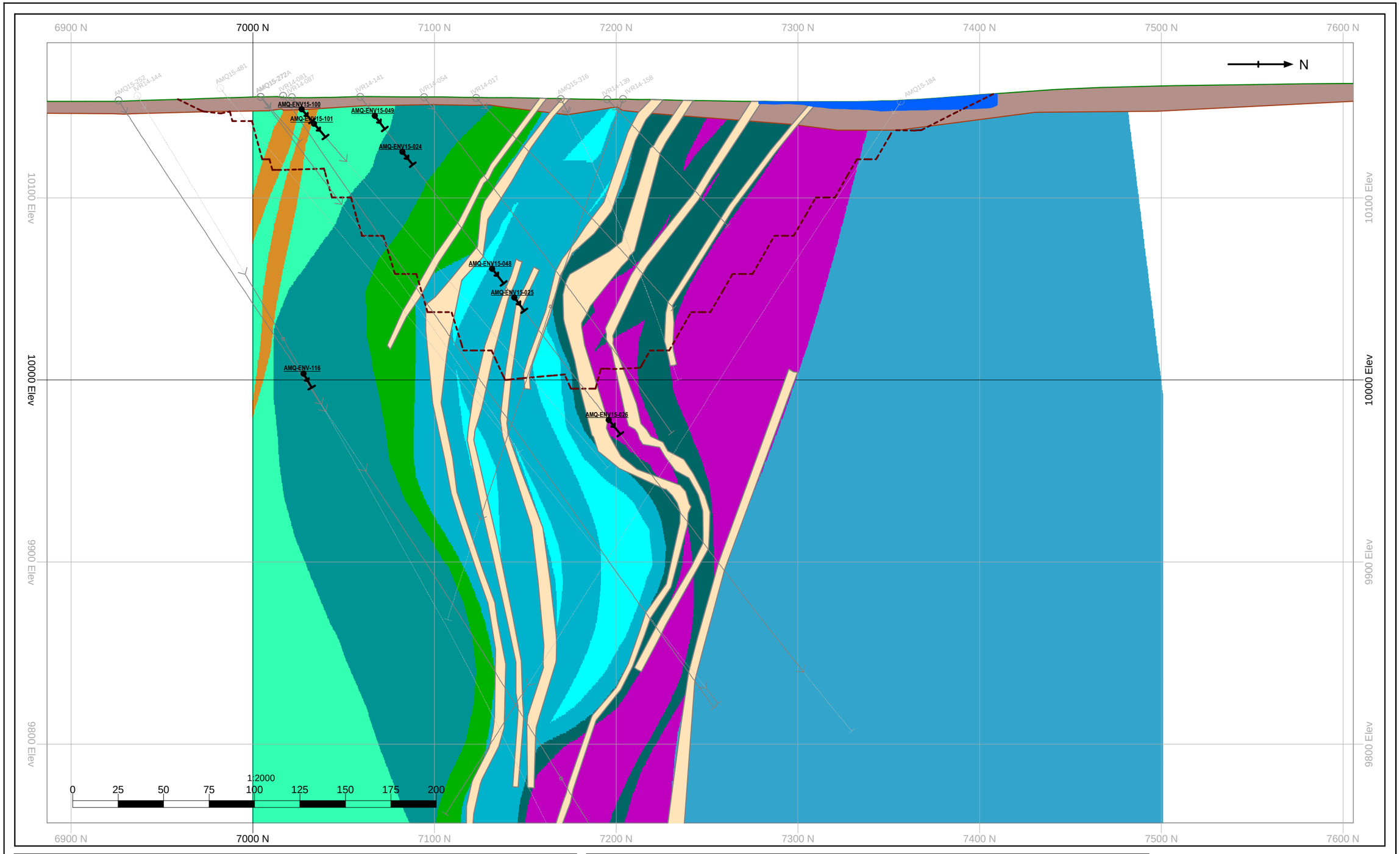
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14647	Section Northing: 7246.25	Section Elevation: 9971
Section 24 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



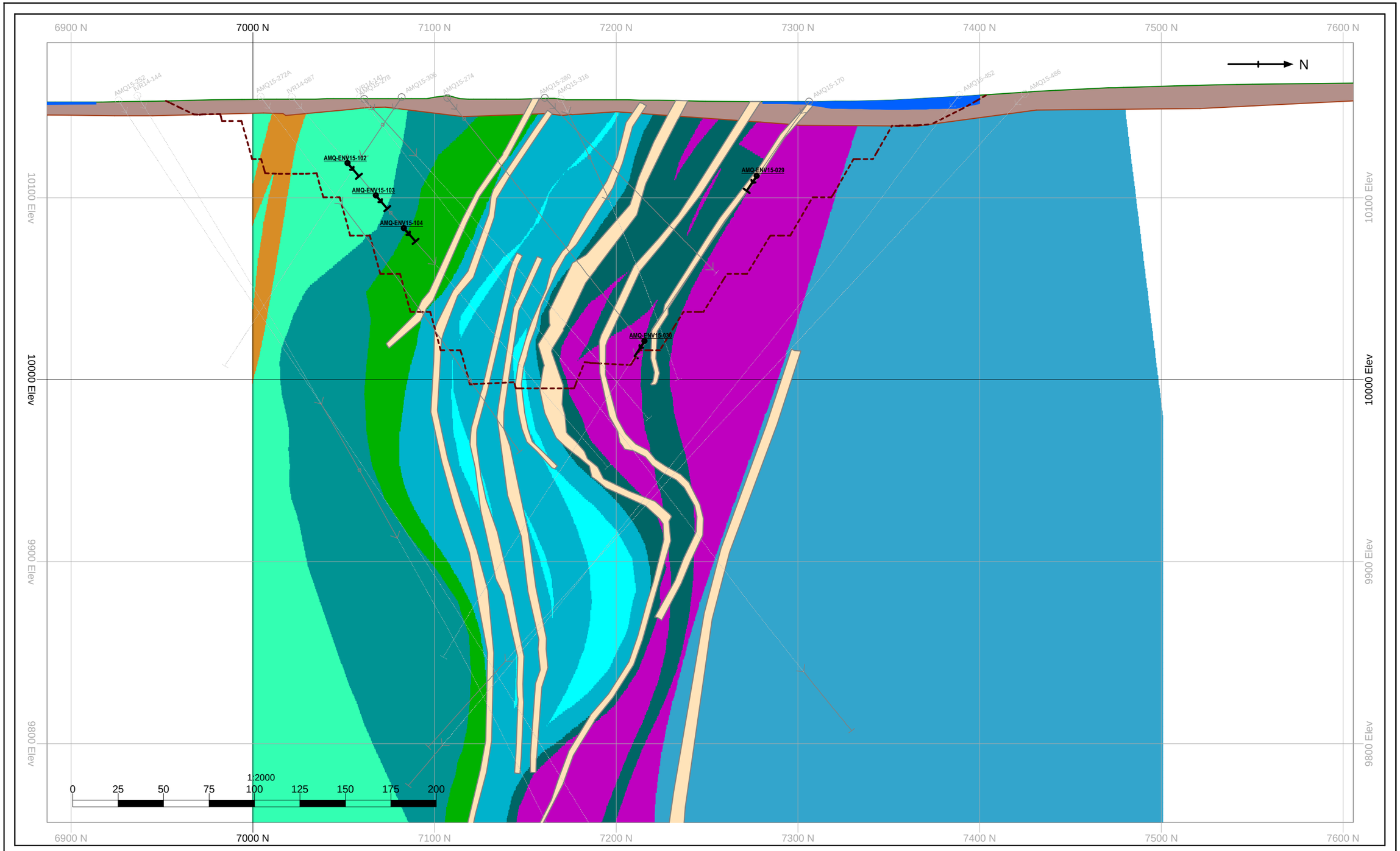
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14672	Section Northing: 7246.25	Section Elevation: 9971
Section 25 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



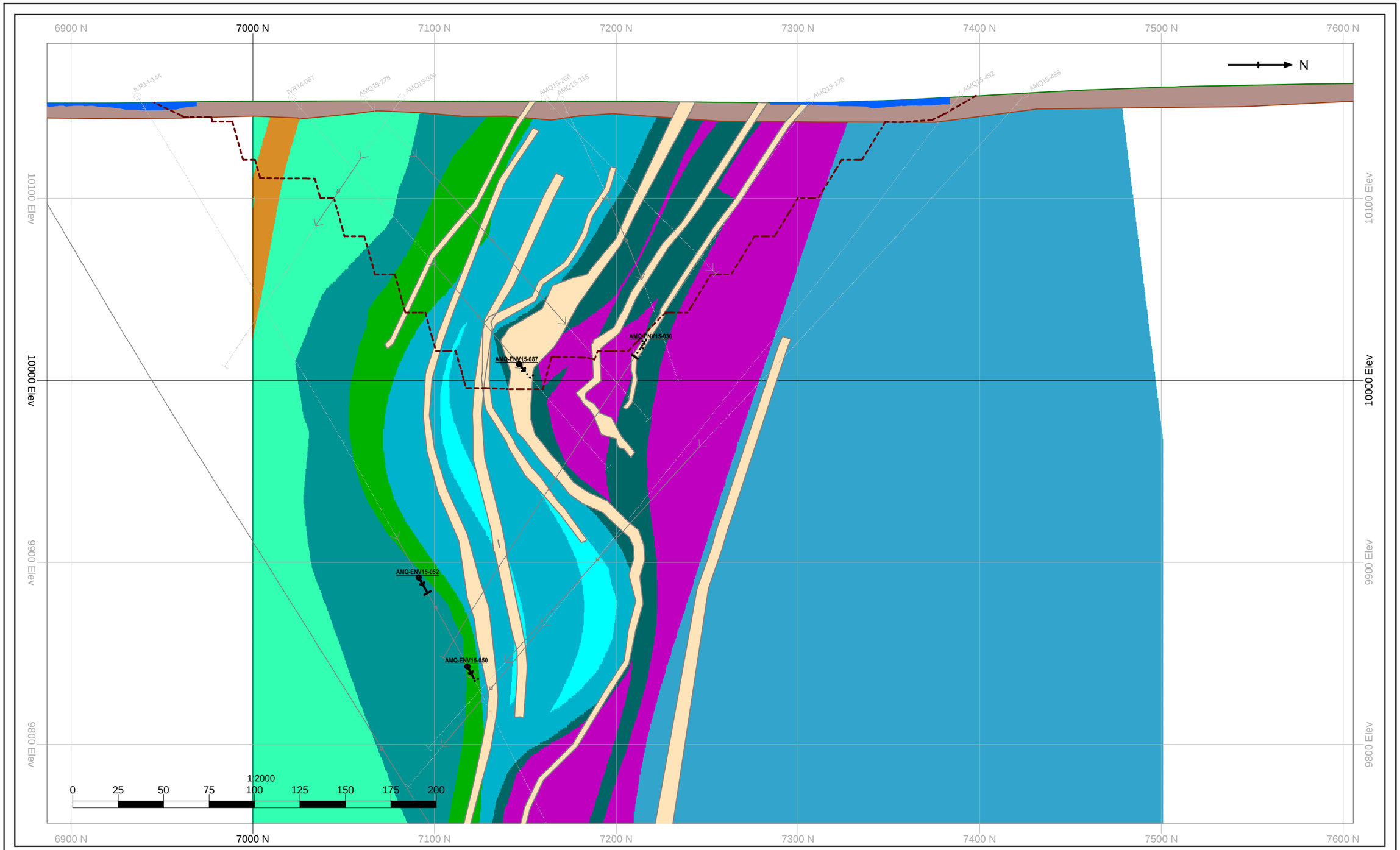
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14697	Section Northing: 7246.25	Section Elevation: 9971
Section 26 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



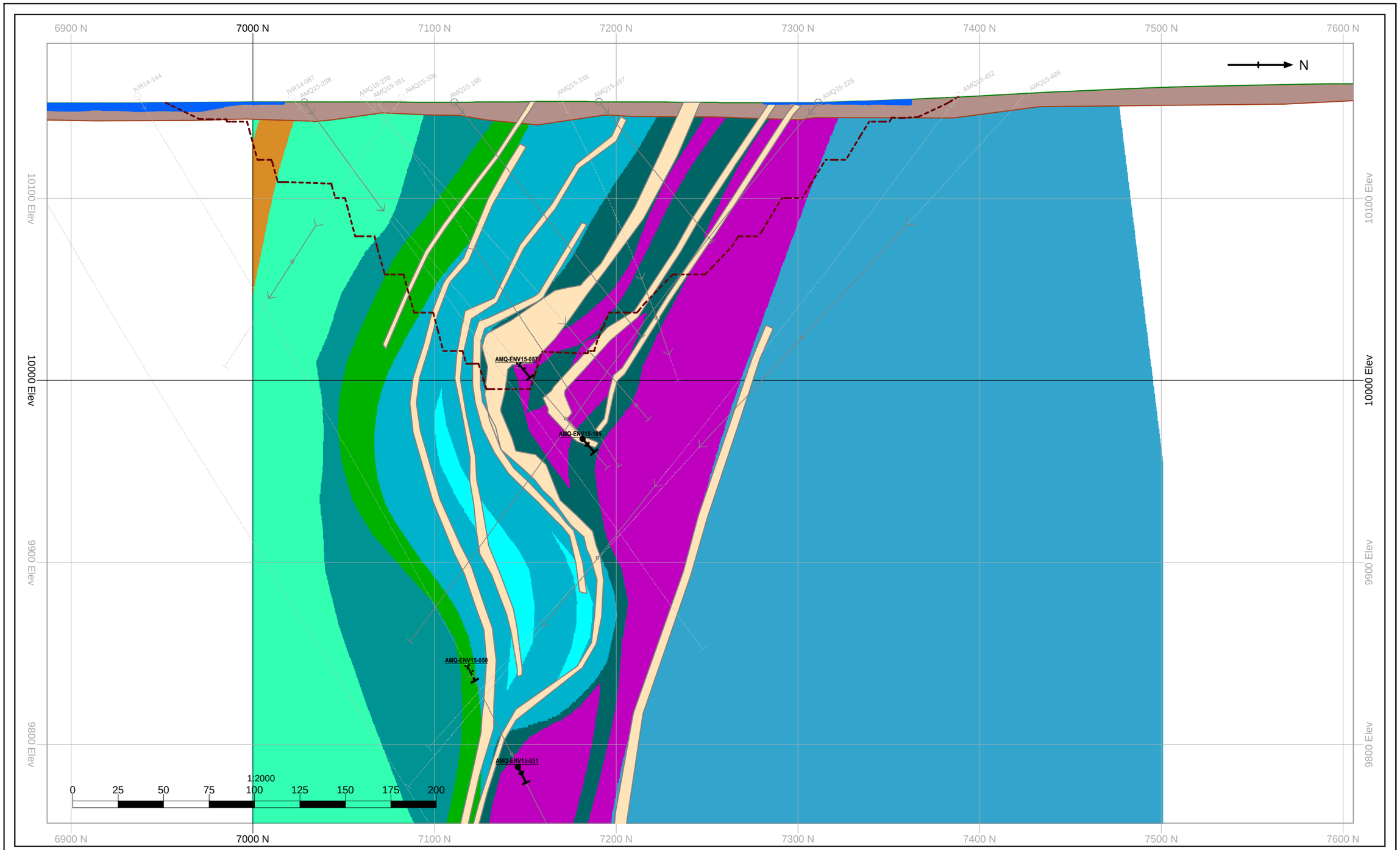
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14722	Section Northing: 7246.25	Section Elevation: 9971
Section 27 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



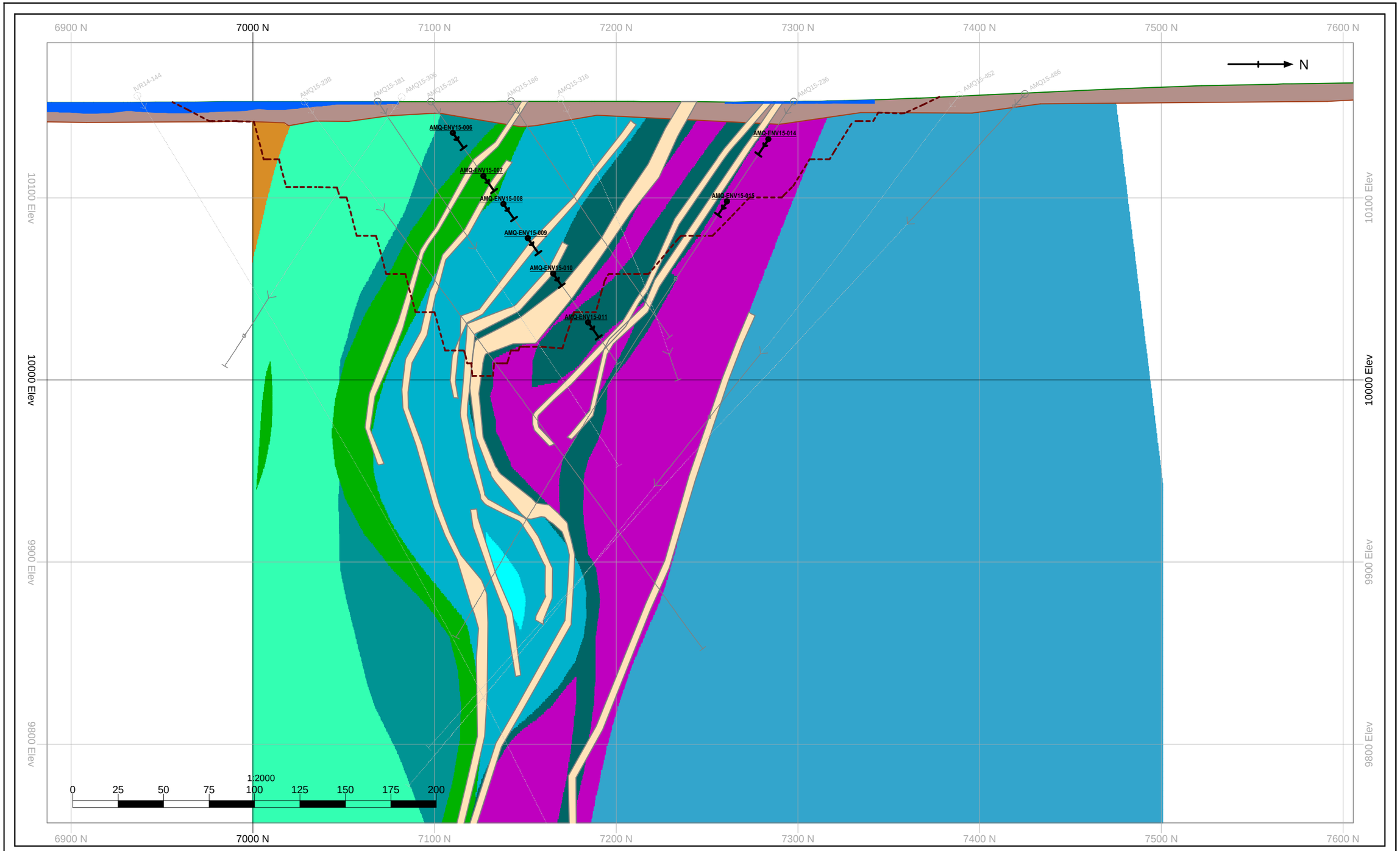
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14747	Section Northing: 7246.25	Section Elevation: 9971
Section 28 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14772	Section Northing: 7246.25	Section Elevation: 9971
Section 29 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE

6900 N 7000 N 7100 N 7200 N 7300 N 7400 N 7500 N 7600 N

N

AMQ15-221 AMQ15-209 AMQ15-209A AMQ15-247 AMQ15-174 AMQ15-169 AMQ15-193 AMQ15-252 AMQ15-263

AMQ-ENV15-039

10100 Elev

10000 Elev

9900 Elev

9800 Elev

1:2000

0 25 50 75 100 125 150 175 200

6900 N 7000 N 7100 N 7200 N 7300 N 7400 N 7500 N 7600 N

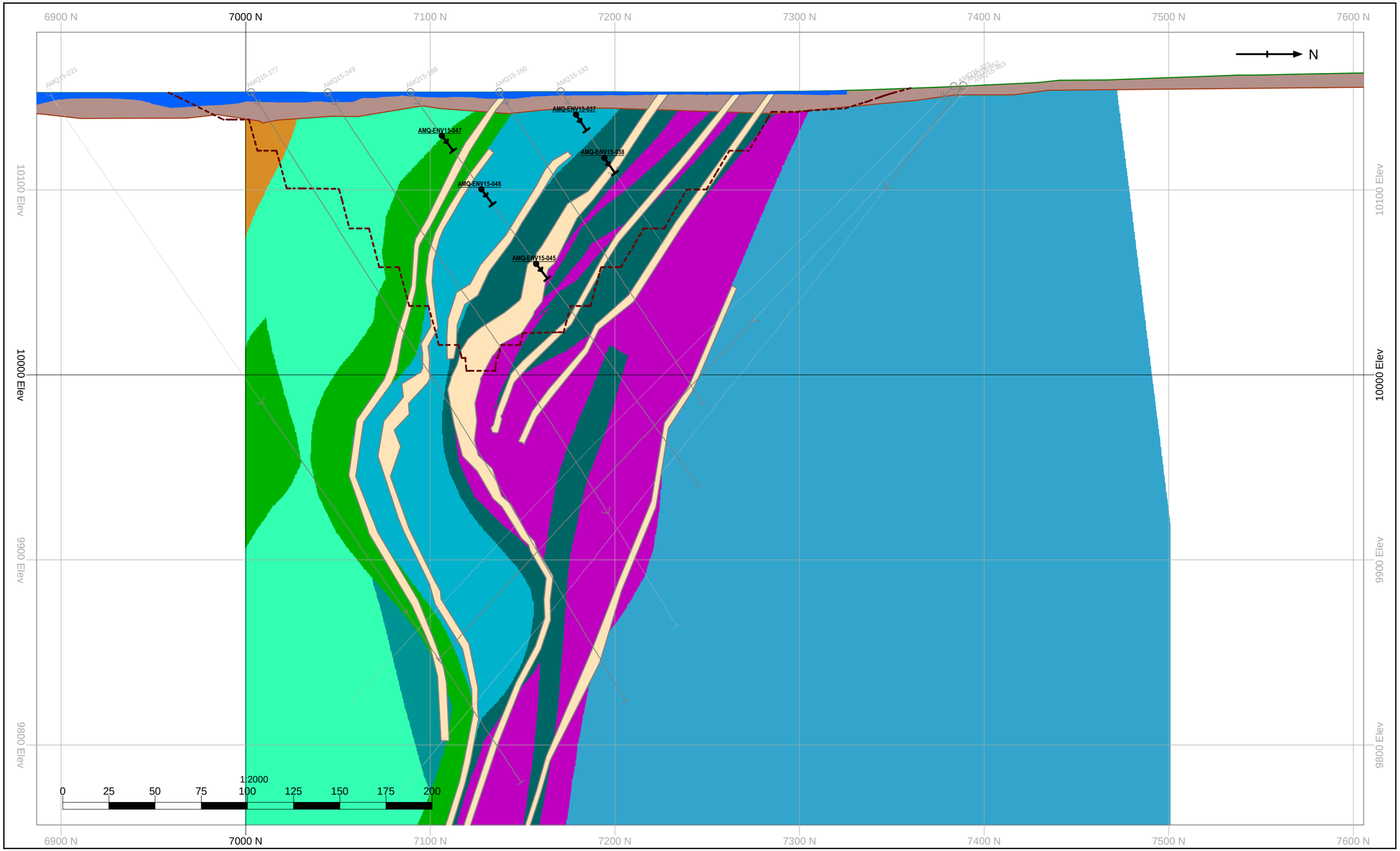
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14797	Section Northing: 7246.25	Section Elevation: 9971
Section 30 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14822	Section Northing: 7246.25	Section Elevation: 9971
Section 31 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE

6900 N | 7000 N | 7100 N | 7200 N | 7300 N | 7400 N | 7500 N | 7600 N

AMQ15-421 | AMQ15-249 | AMQ15-422

N

10100 Elev | 10000 Elev | 9900 Elev | 9800 Elev

1:2000

0 25 50 75 100 125 150 175 200

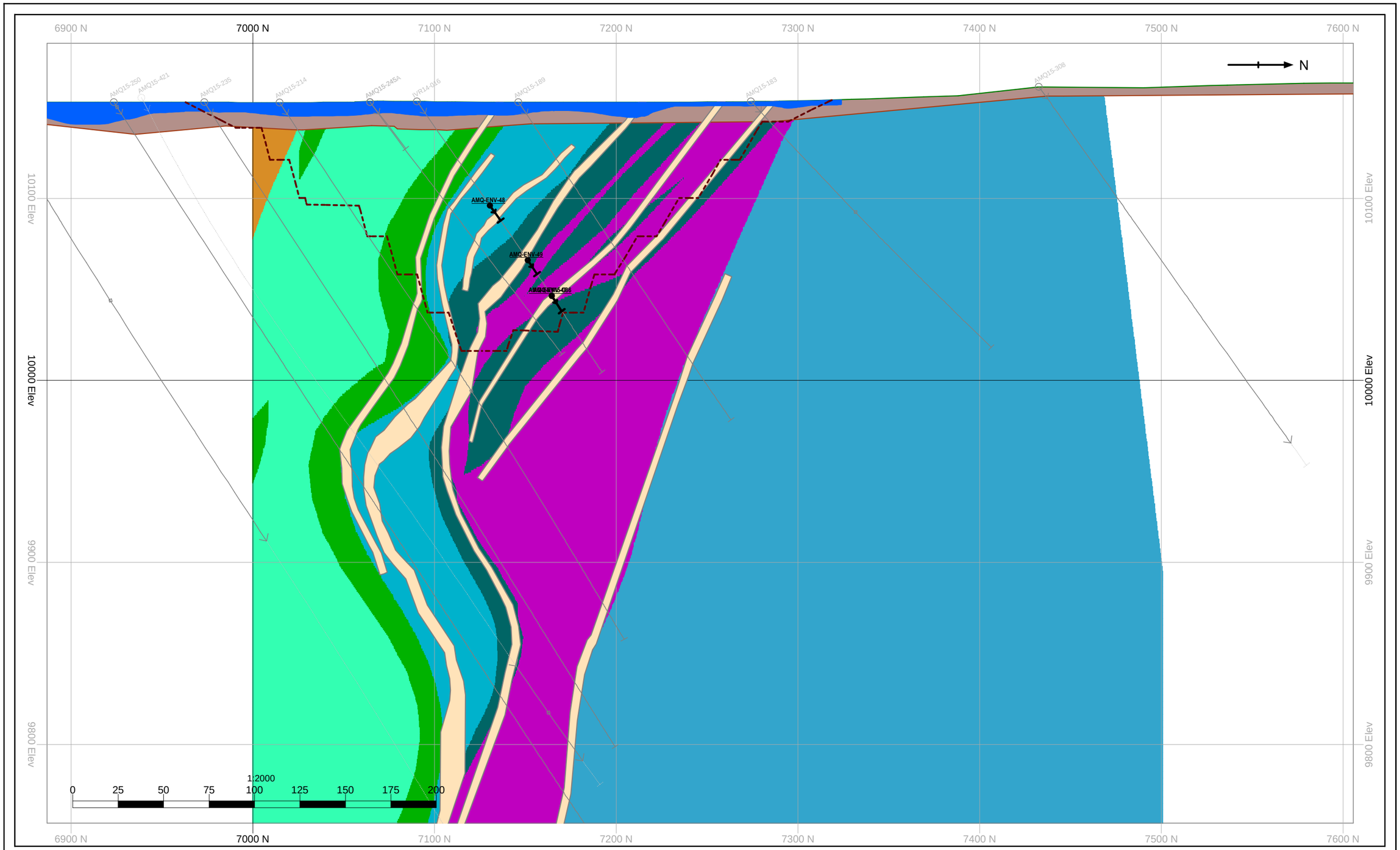
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14847	Section Northing: 7246.25	Section Elevation: 9971
Section 32 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



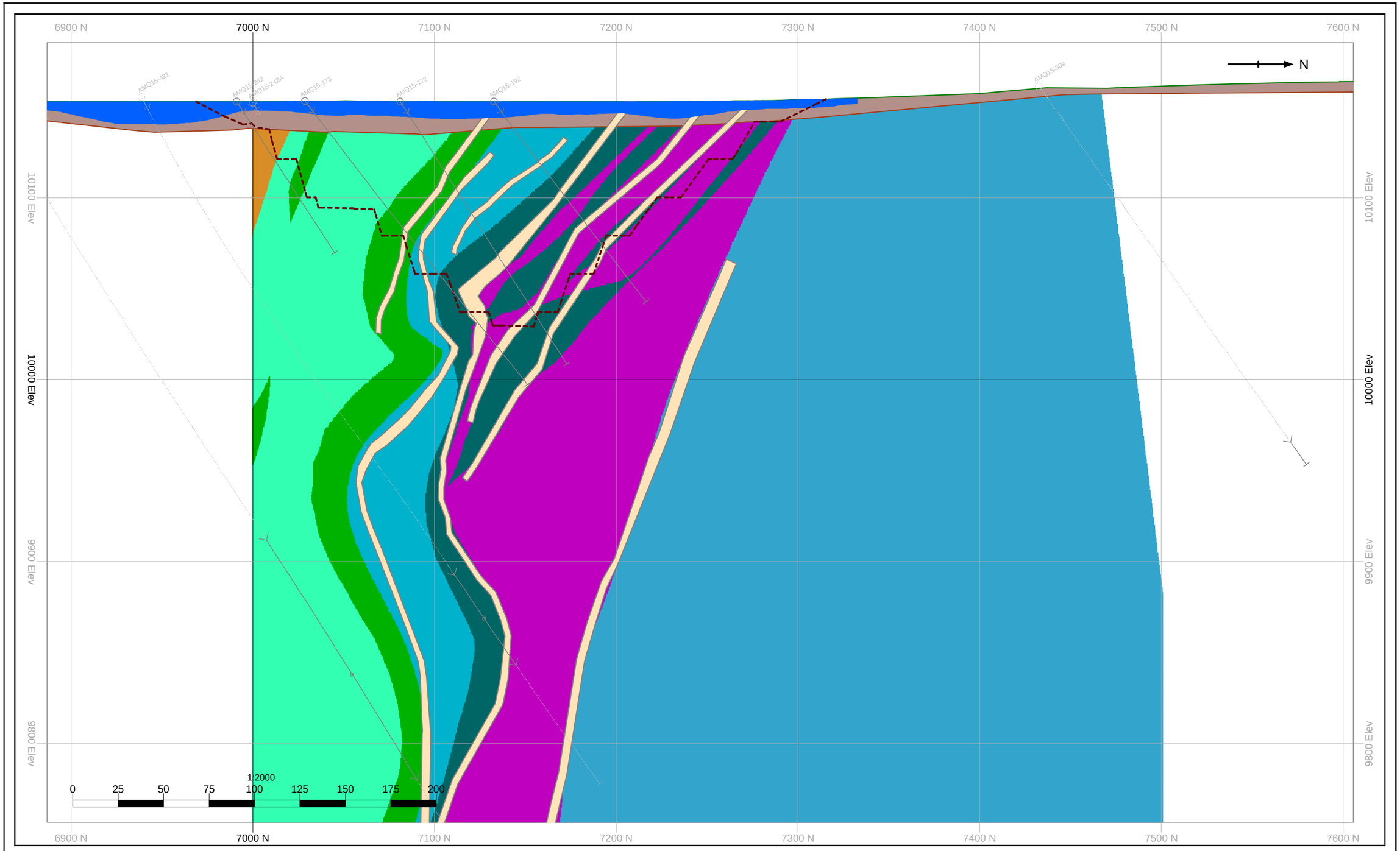
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14872	Section Northing: 7246.25	Section Elevation: 9971
Section 33 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



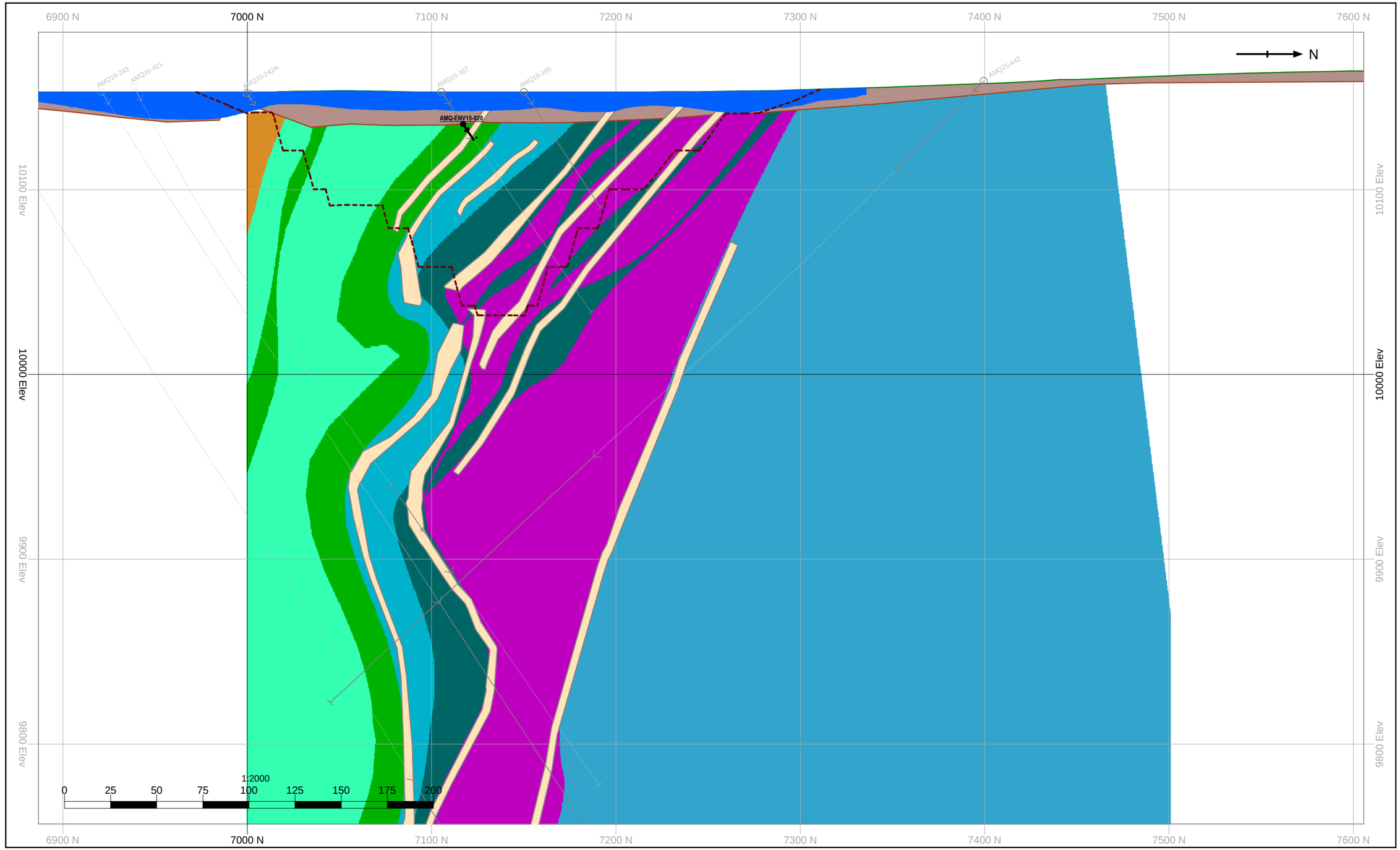
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14897	Section Northing: 7246.25	Section Elevation: 9971
Section 34 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



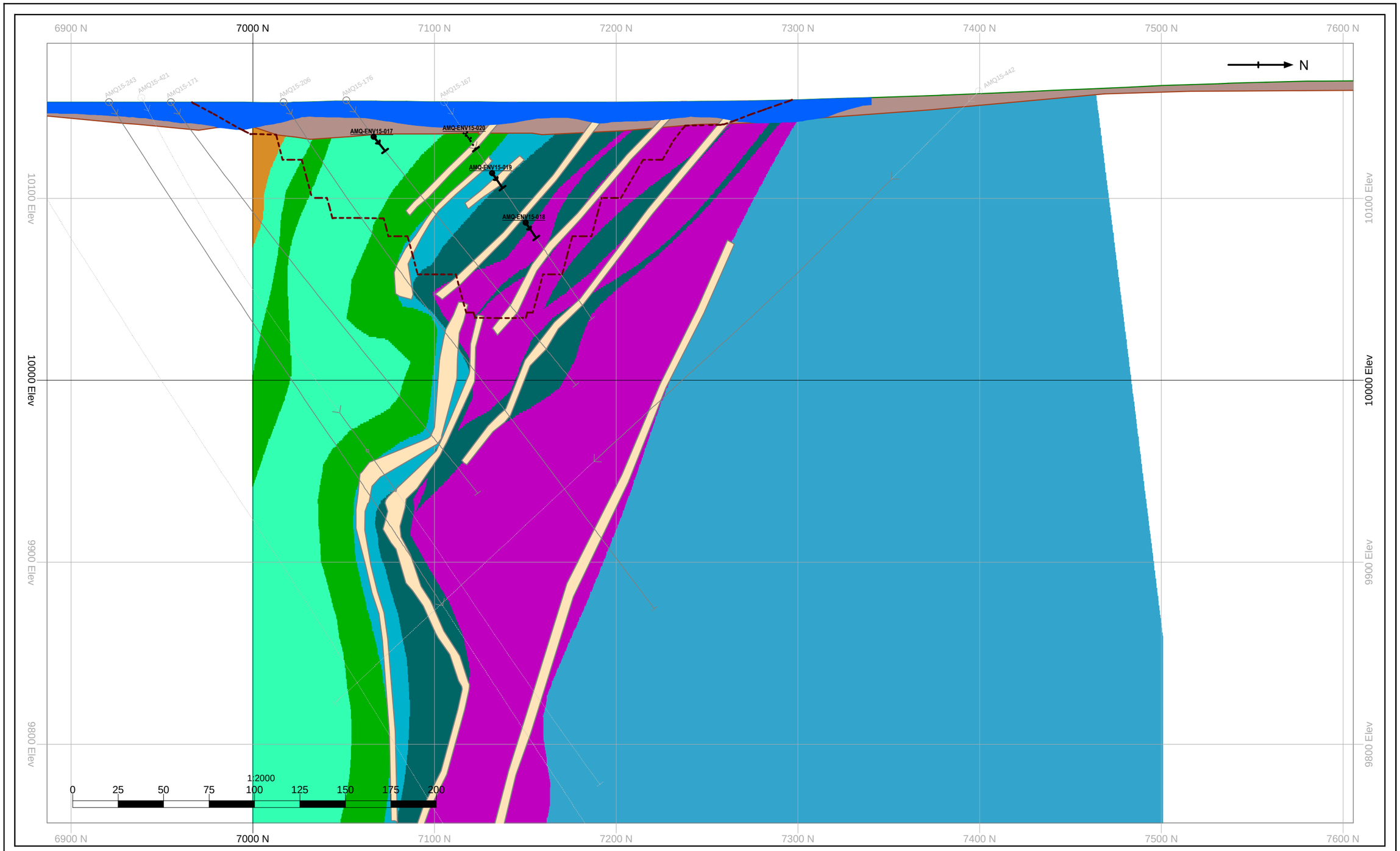
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14922	Section Northing: 7246.25	Section Elevation: 9971
Section 35 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14947	Section Northing: 7246.25	Section Elevation: 9971
Section 36 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE

6900 N 7000 N 7100 N 7200 N 7300 N 7400 N 7500 N 7600 N

N

10100 Elev

10000 Elev

9900 Elev

9800 Elev

1:2000

0 25 50 75 100 125 150 175 200

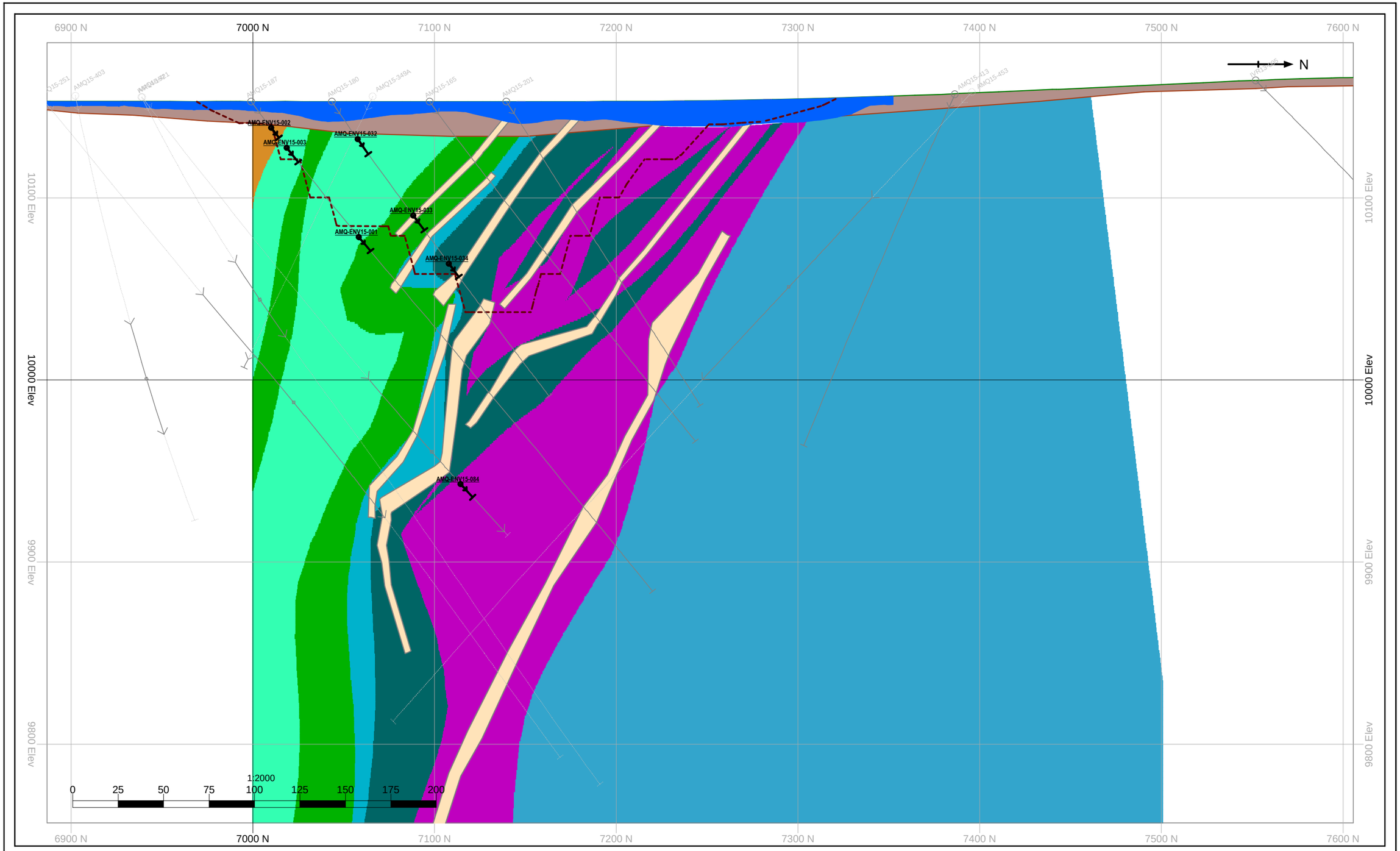
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14972	Section Northing: 7246.25	Section Elevation: 9971
Section 37 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



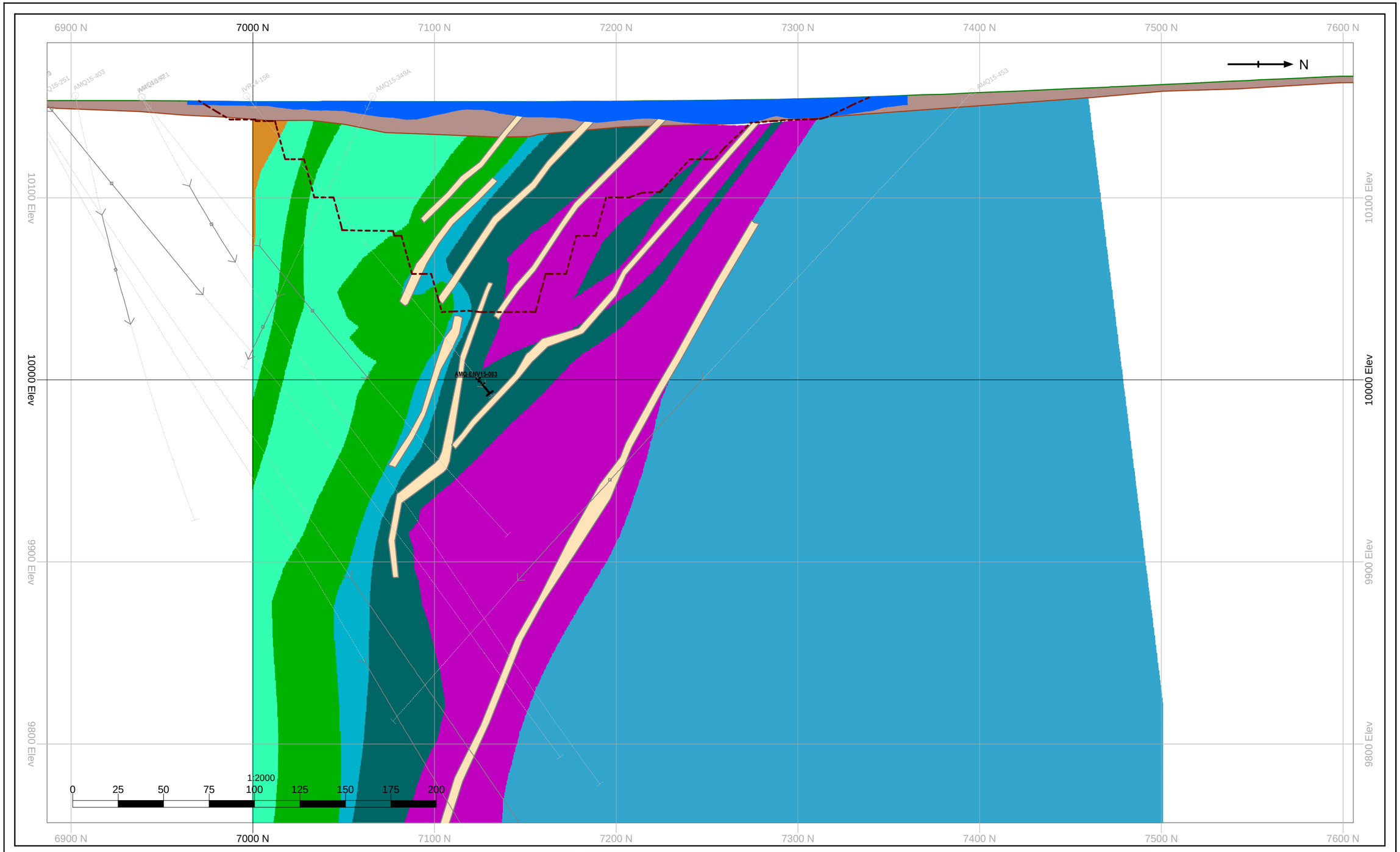
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 14997	Section Northing: 7246.25	Section Elevation: 9971
Section 38 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



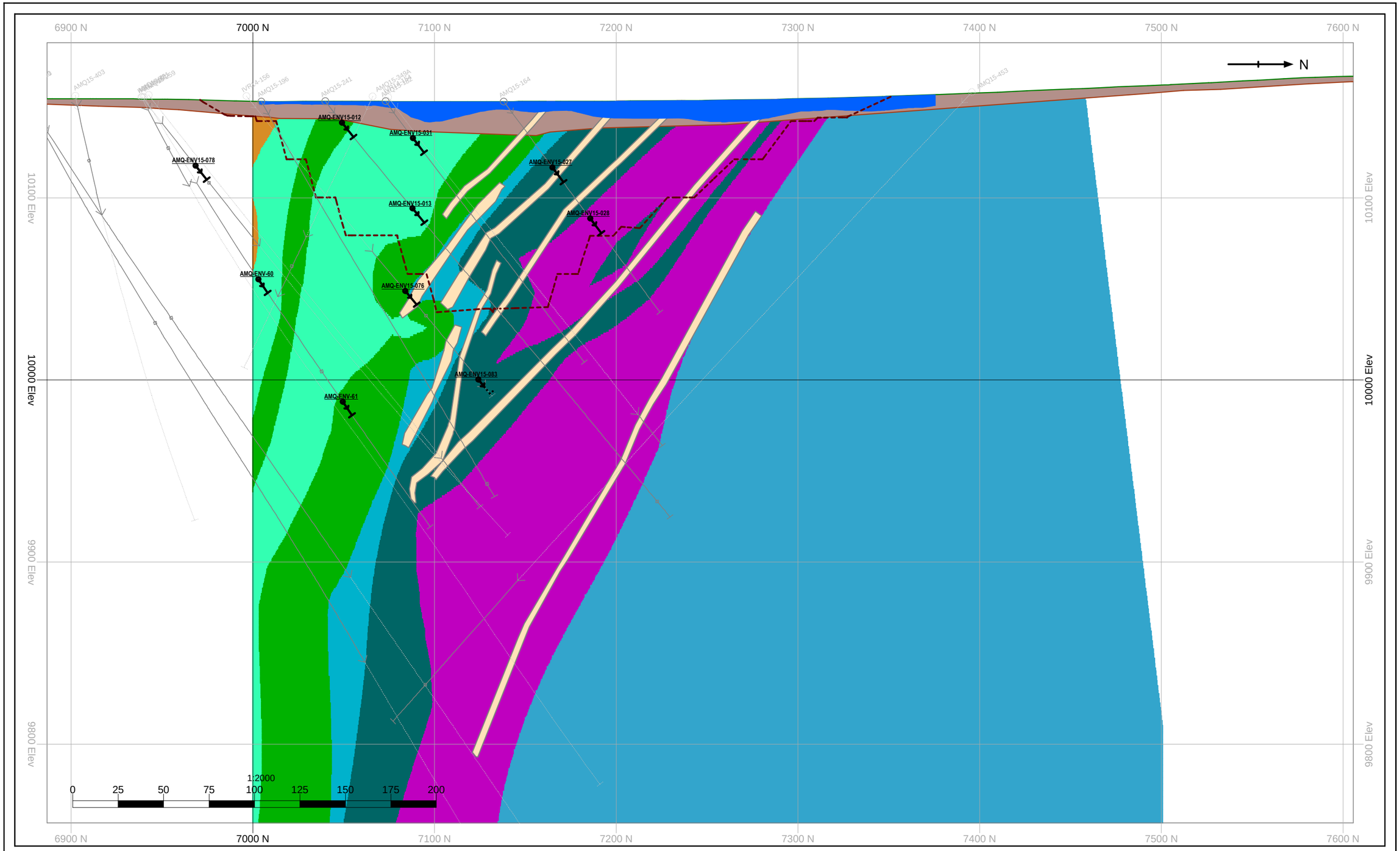
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15022	Section Northing: 7246.25	Section Elevation: 9971
Section 39 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



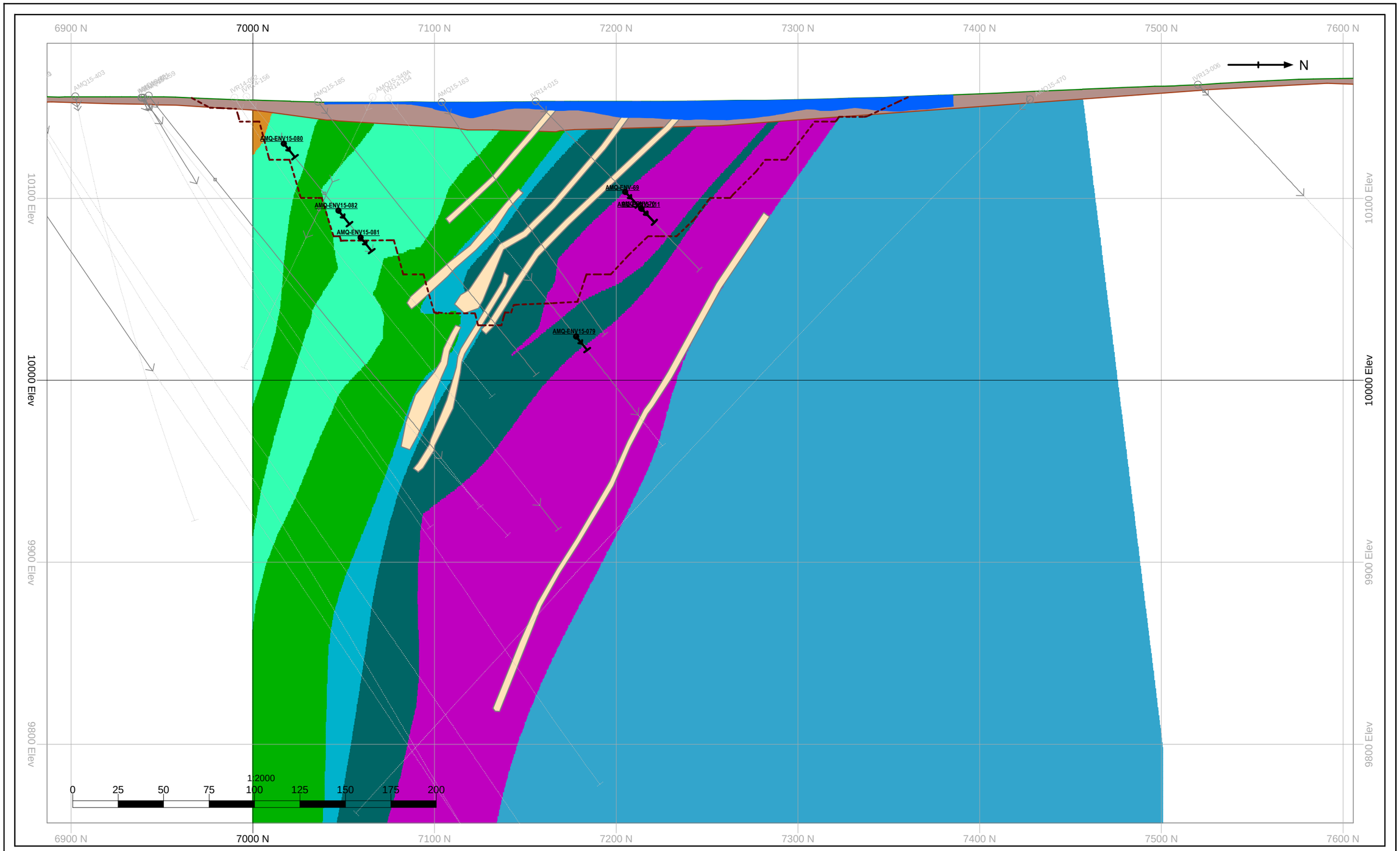
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15047	Section Northing: 7246.25	Section Elevation: 9971
Section 40 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



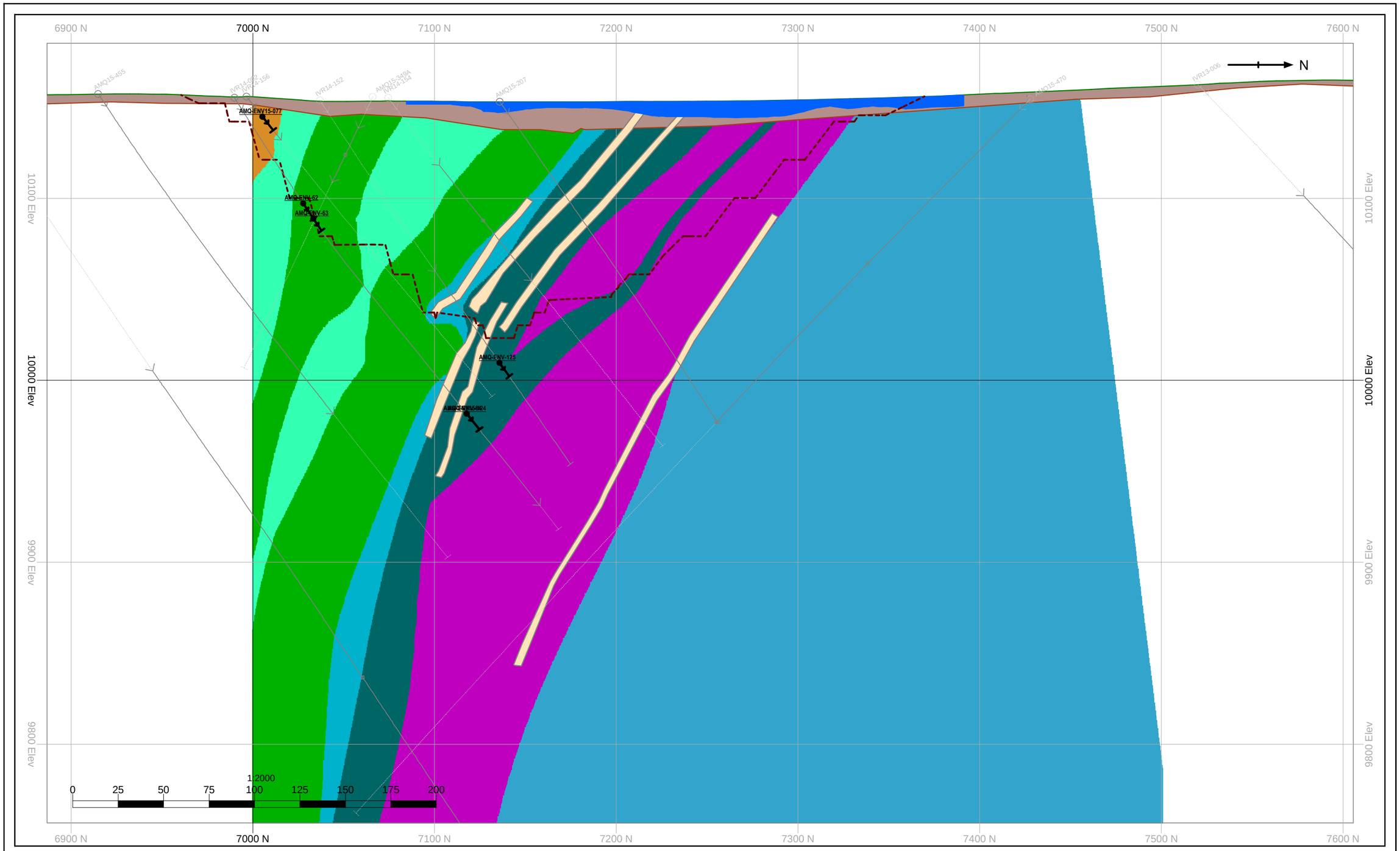
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15072	Section Northing: 7246.25	Section Elevation: 9971
Section 41 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



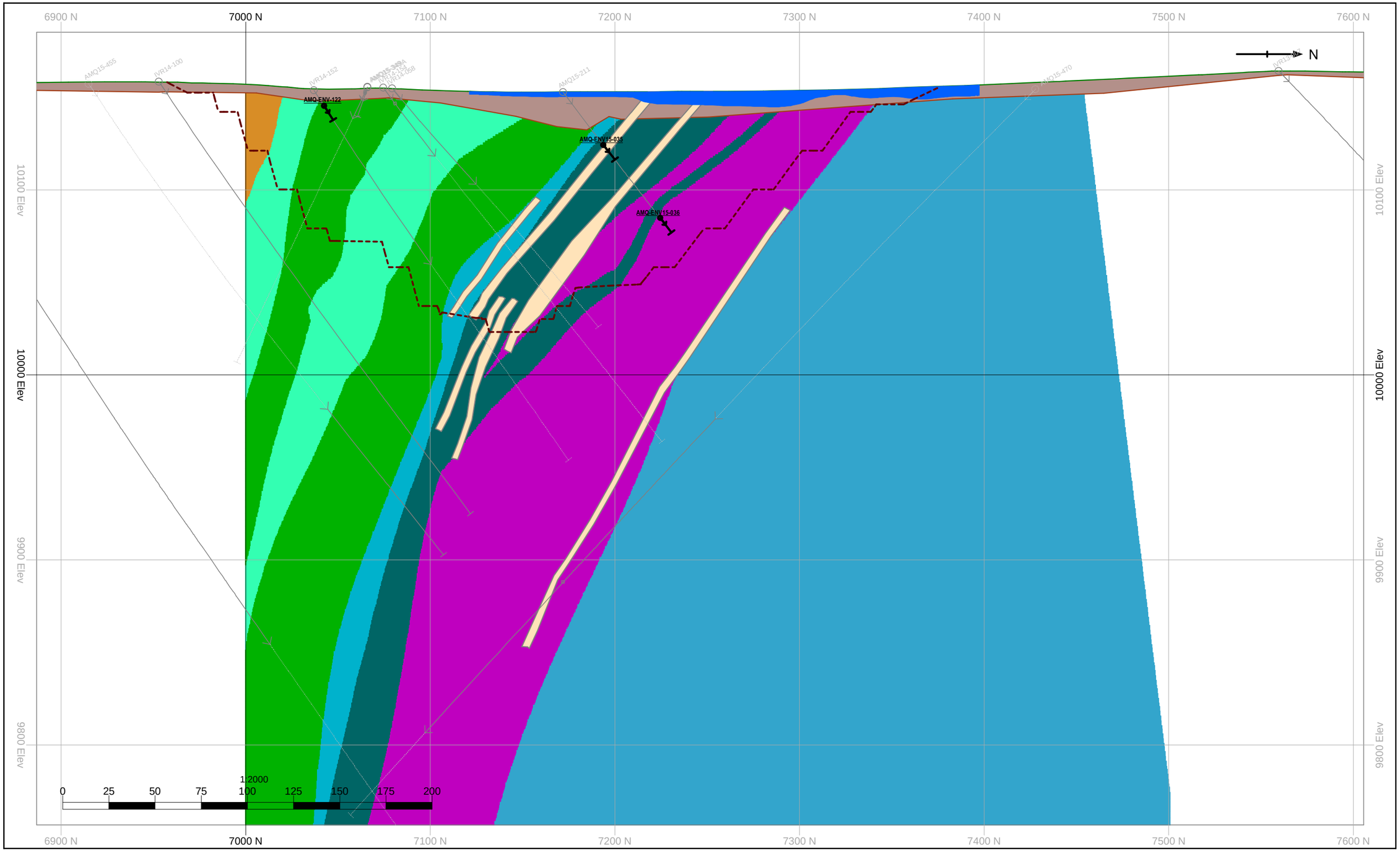
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15097	Section Northing: 7246.25	Section Elevation: 9971
Section 42 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



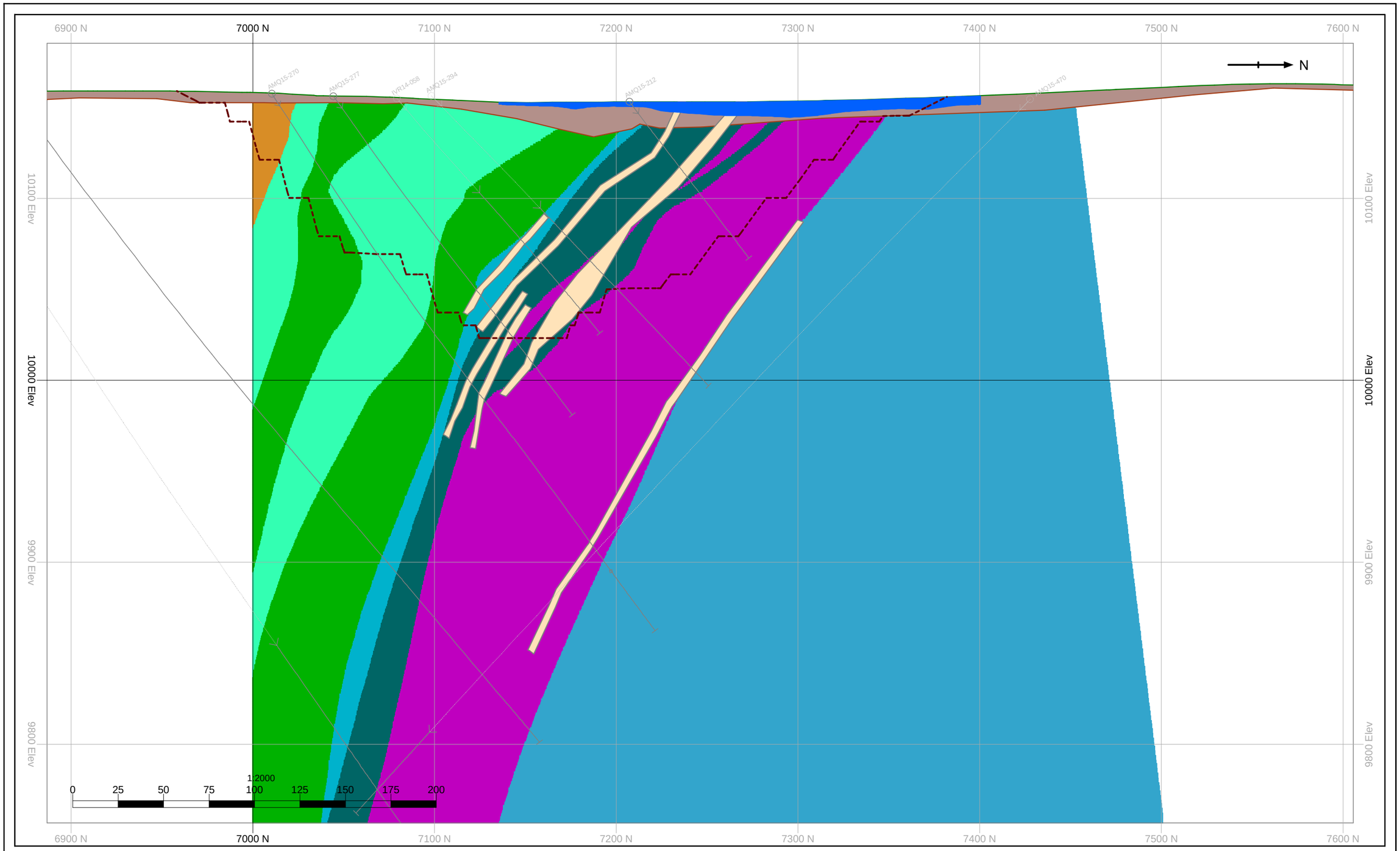
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15122	Section Northing: 7246.25	Section Elevation: 9971
Section 43 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



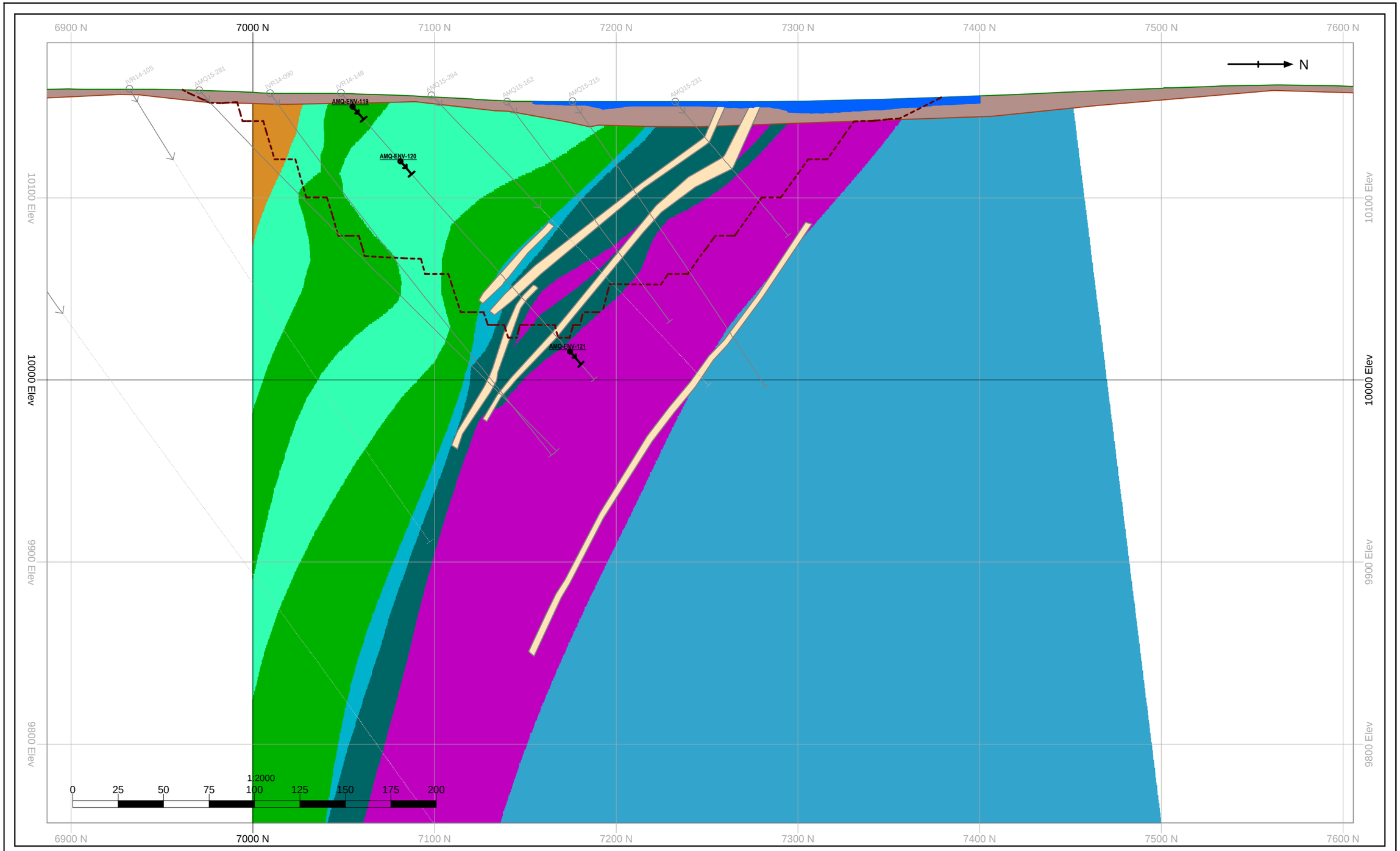
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15147	Section Northing: 7246.25	Section Elevation: 9971
Section 44 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



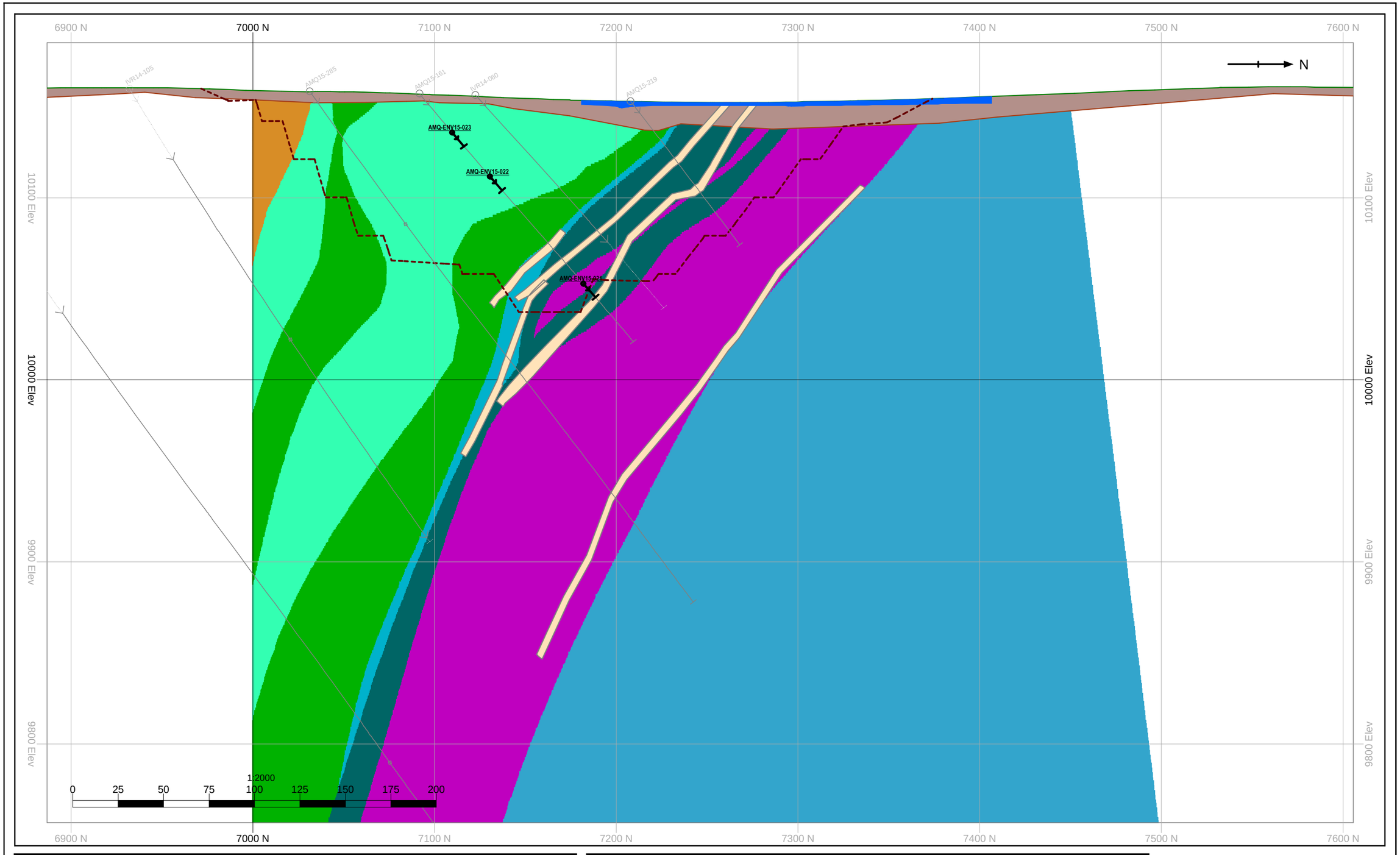
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15172	Section Northing: 7246.25	Section Elevation: 9971
Section 45 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



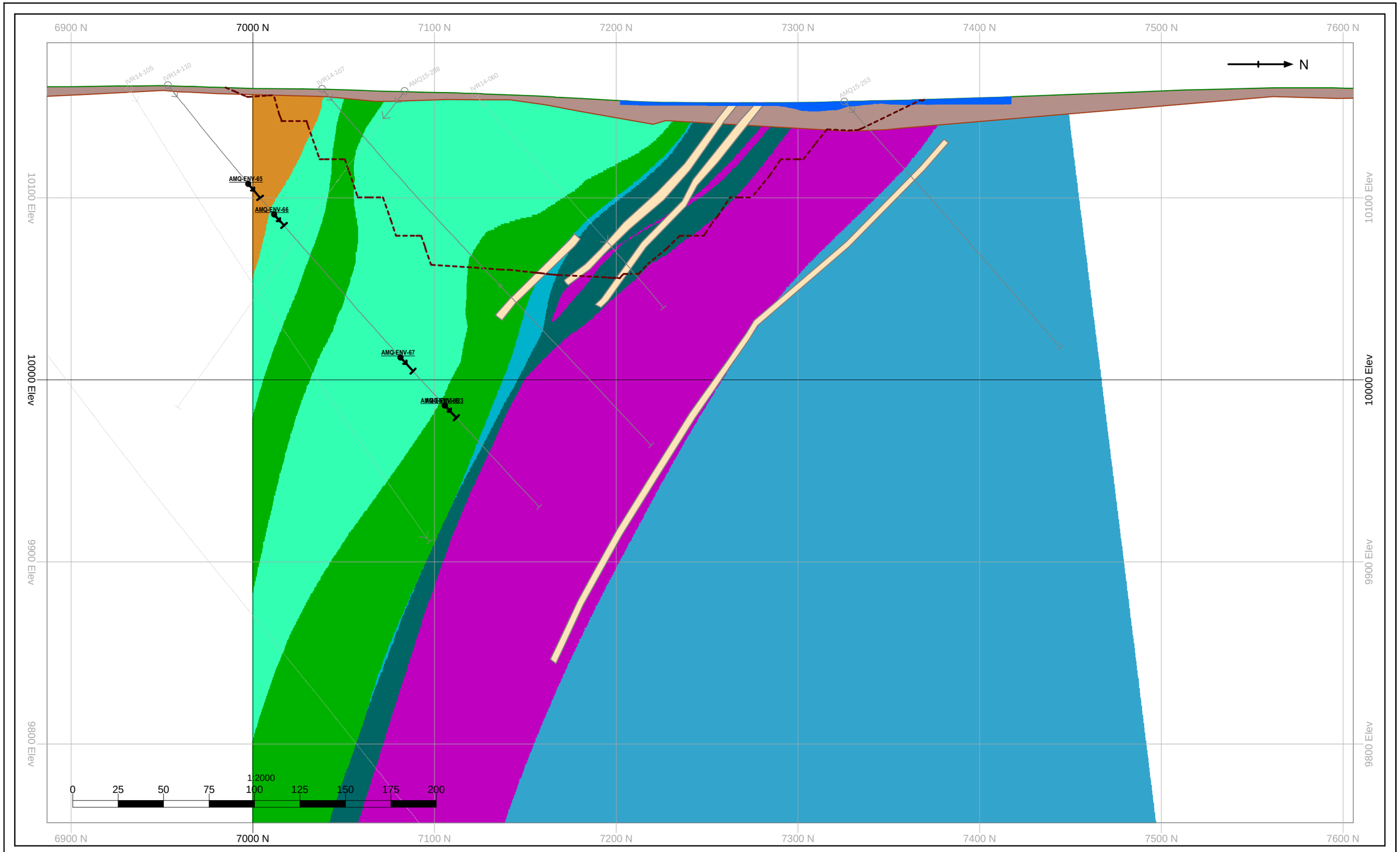
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15197	Section Northing: 7246.25	Section Elevation: 9971
Section 46 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



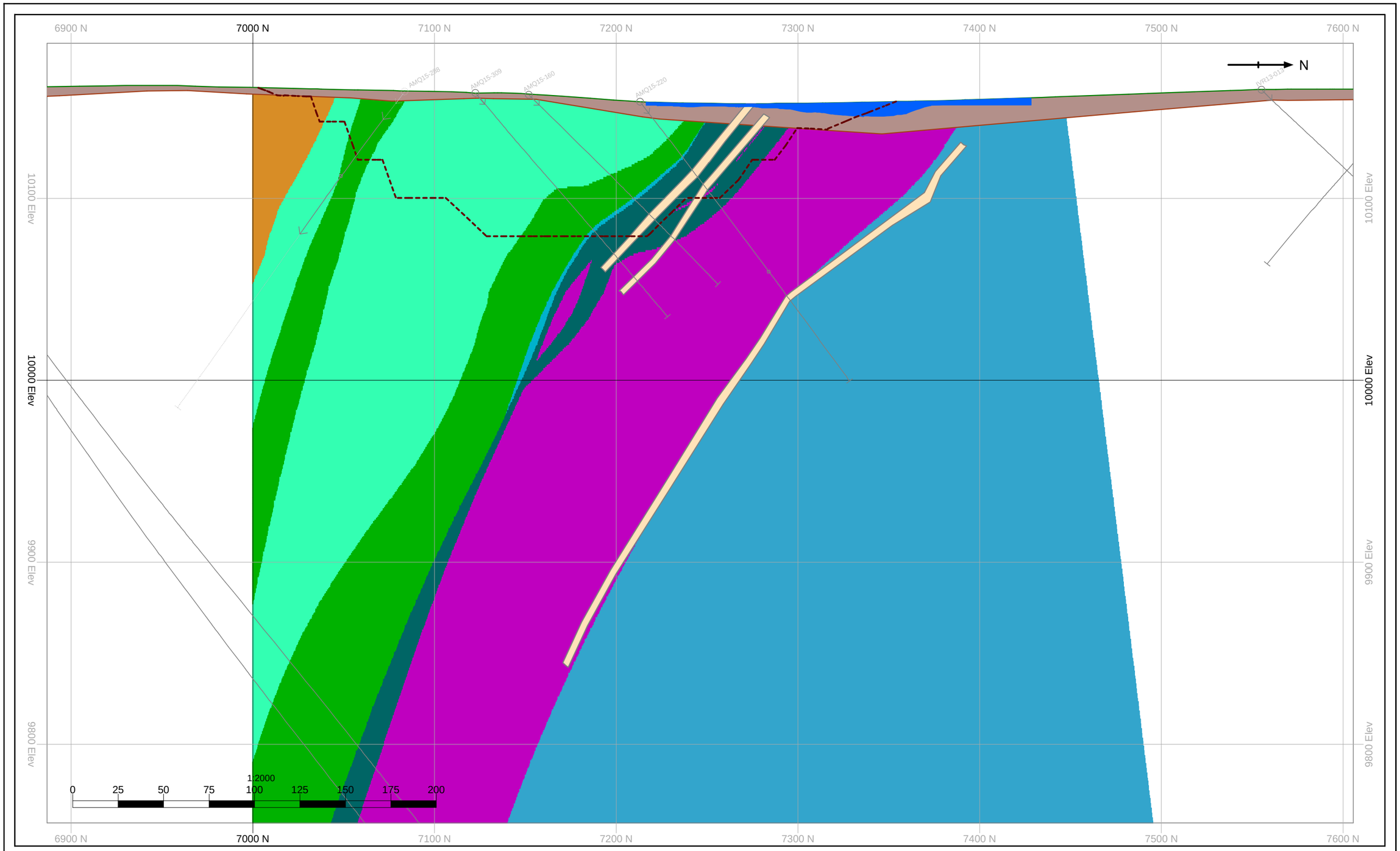
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15222	Section Northing: 7246.25	Section Elevation: 9971
Section 47 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



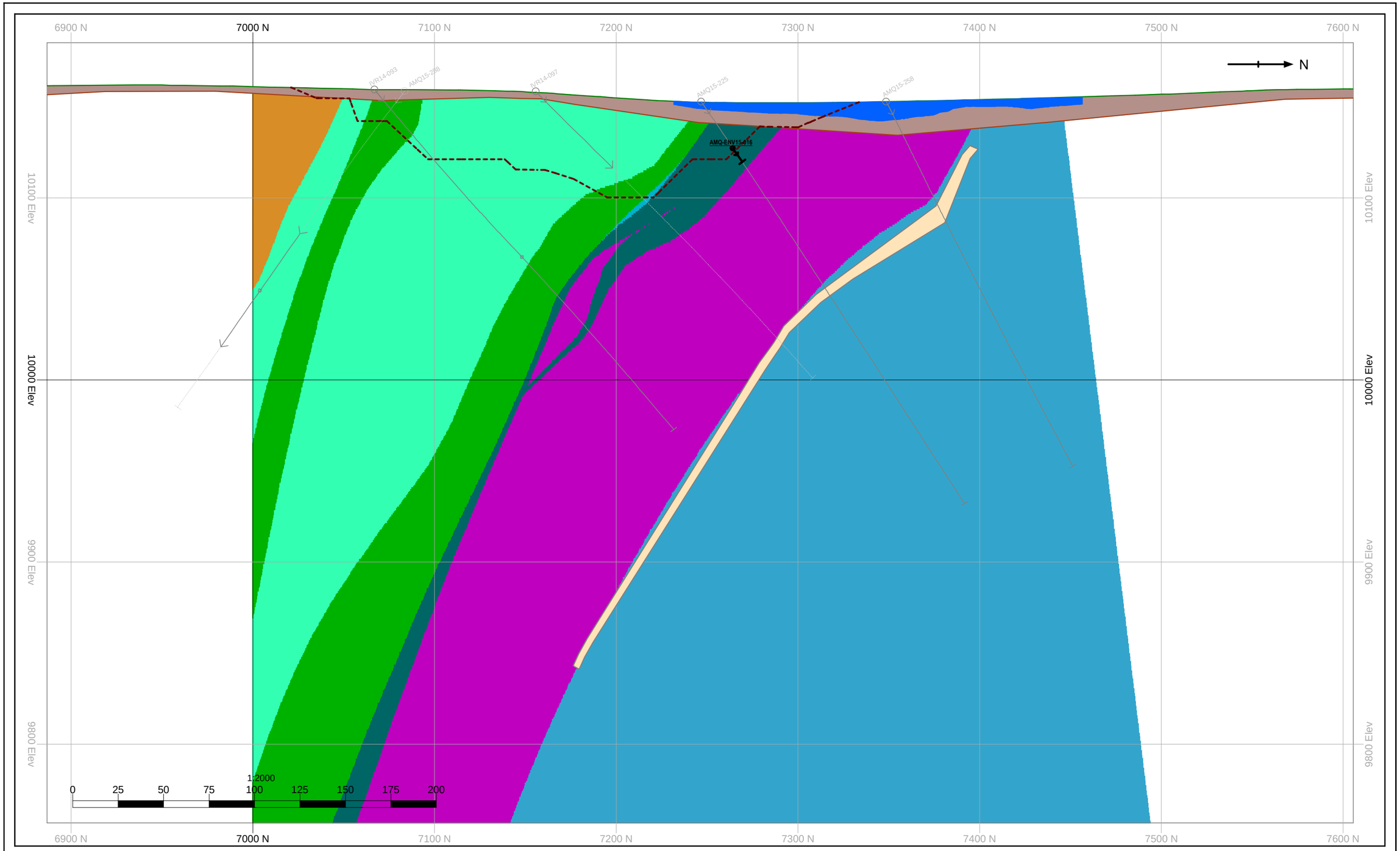
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15247	Section Northing: 7246.25	Section Elevation: 9971
Section 48 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



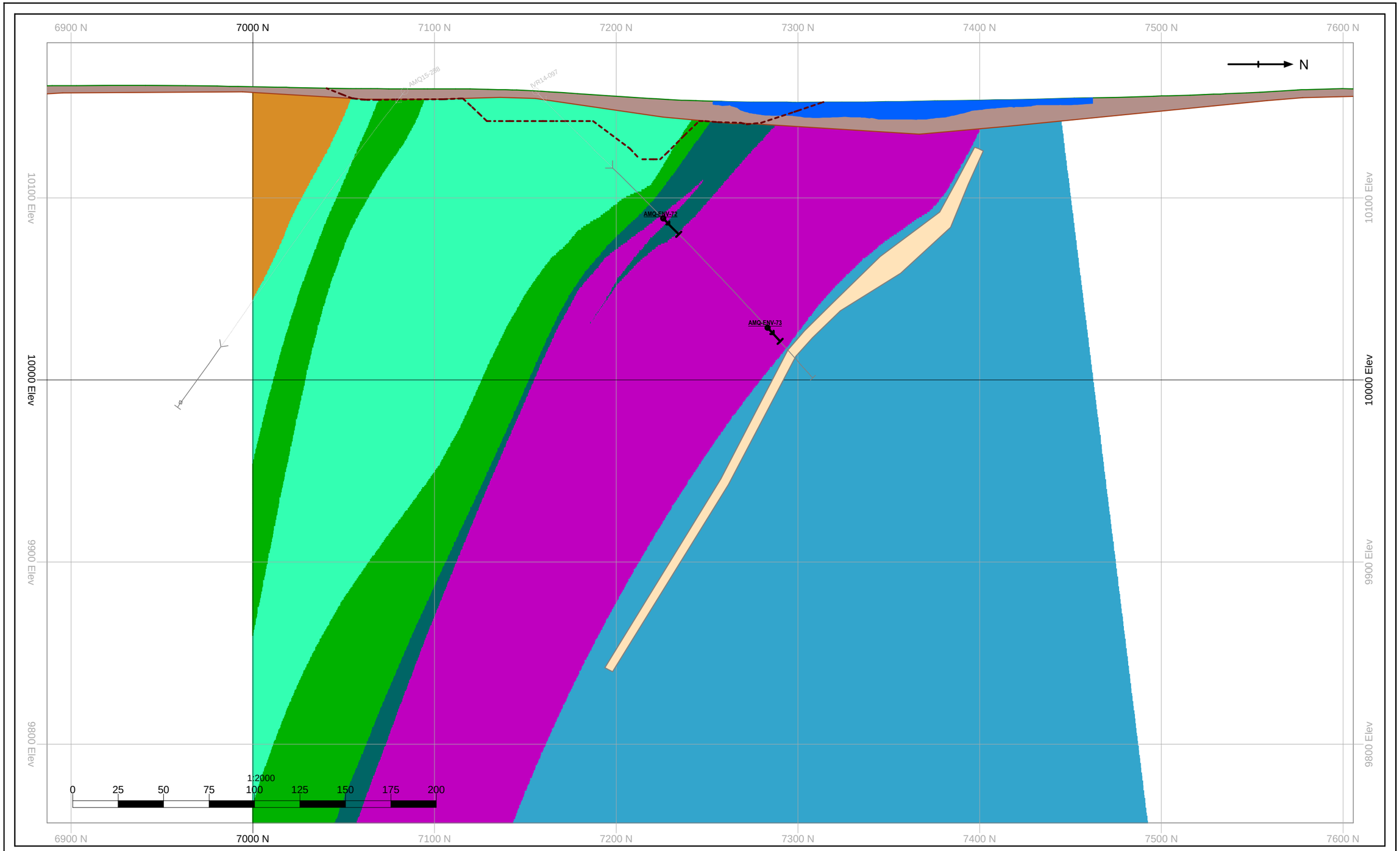
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15272	Section Northing: 7246.25	Section Elevation: 9971
Section 49 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



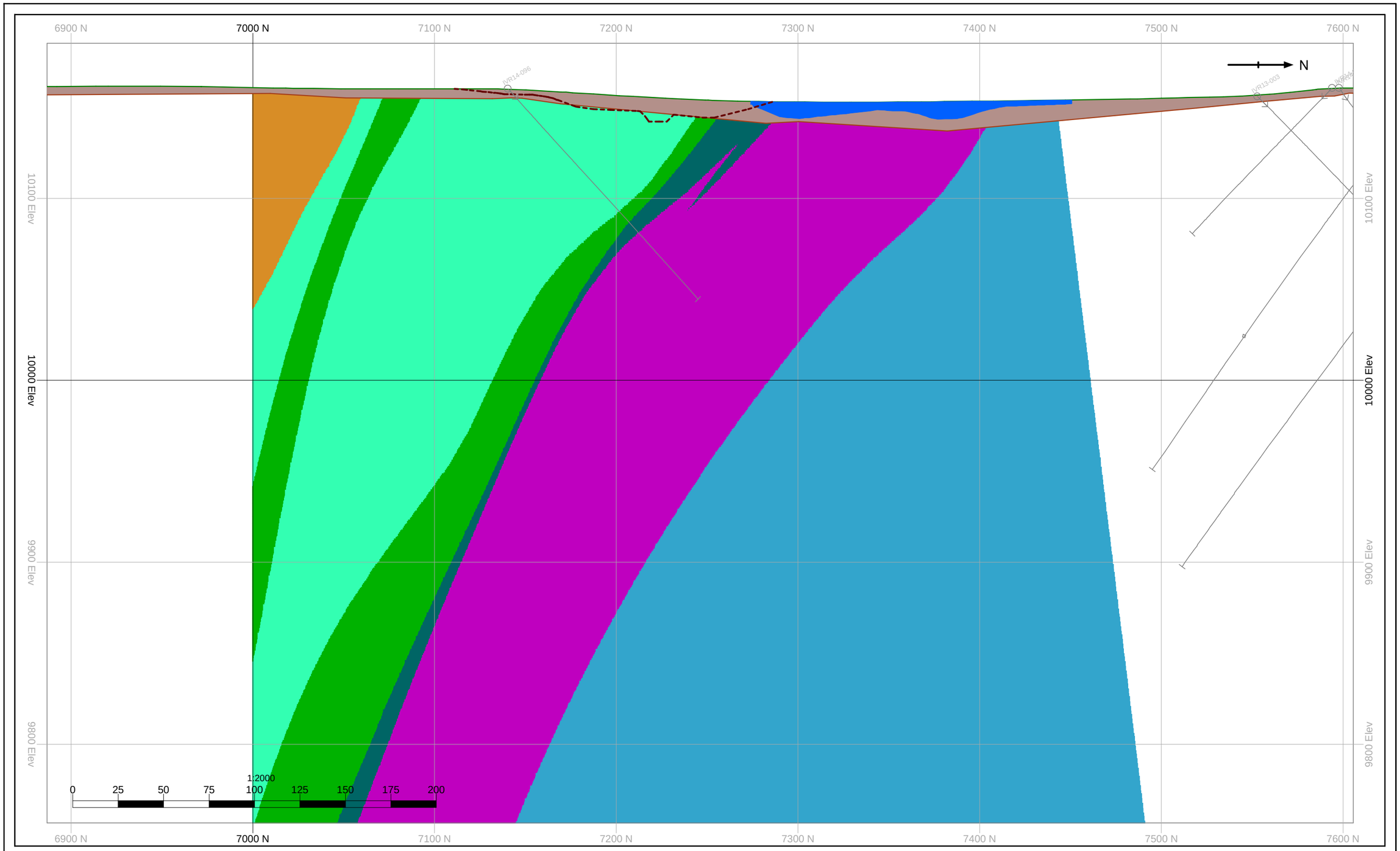
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15297	Section Northing: 7246.25	Section Elevation: 9971
Section 50 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



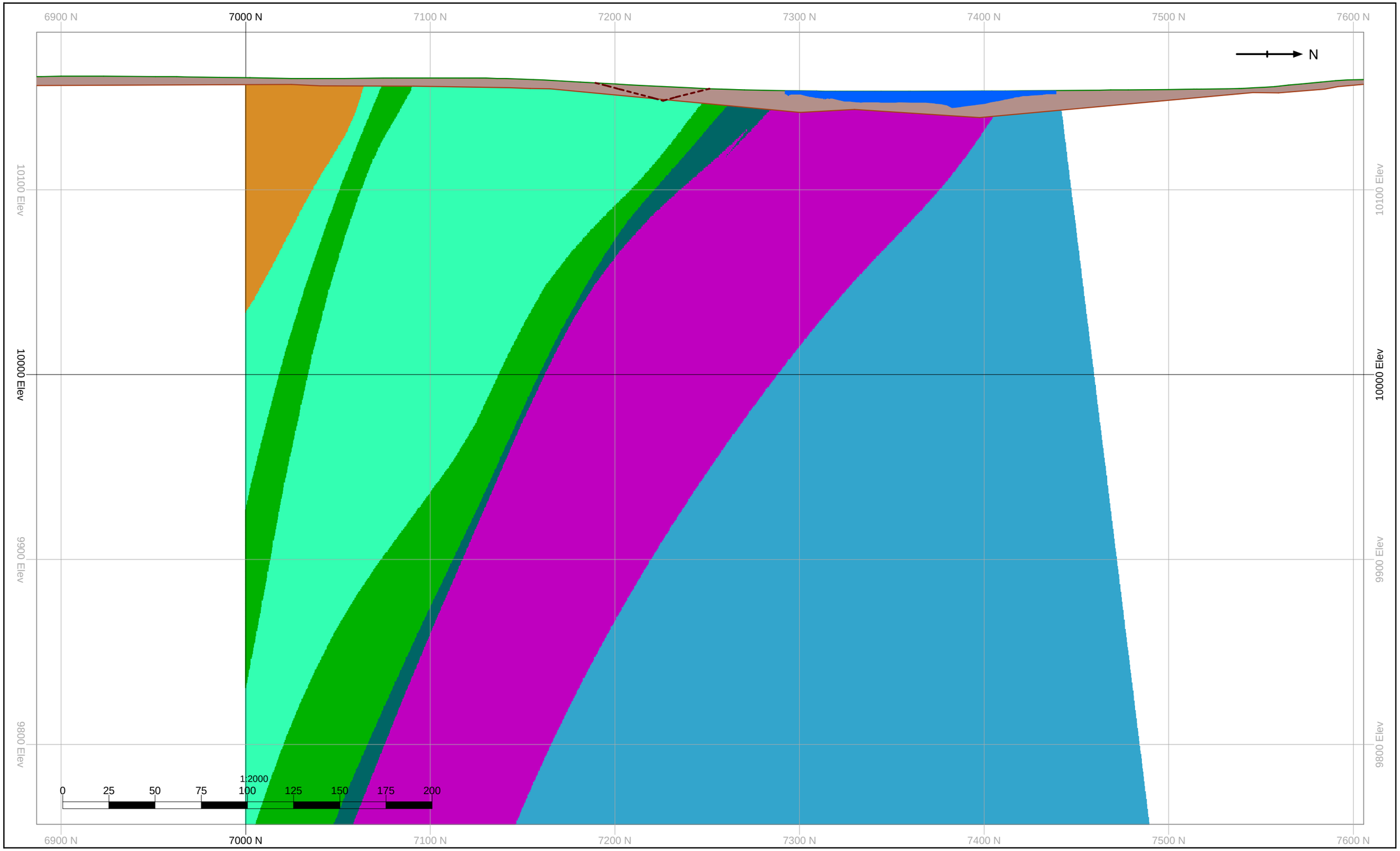
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15322	Section Northing: 7246.25	Section Elevation: 9971
Section 51 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



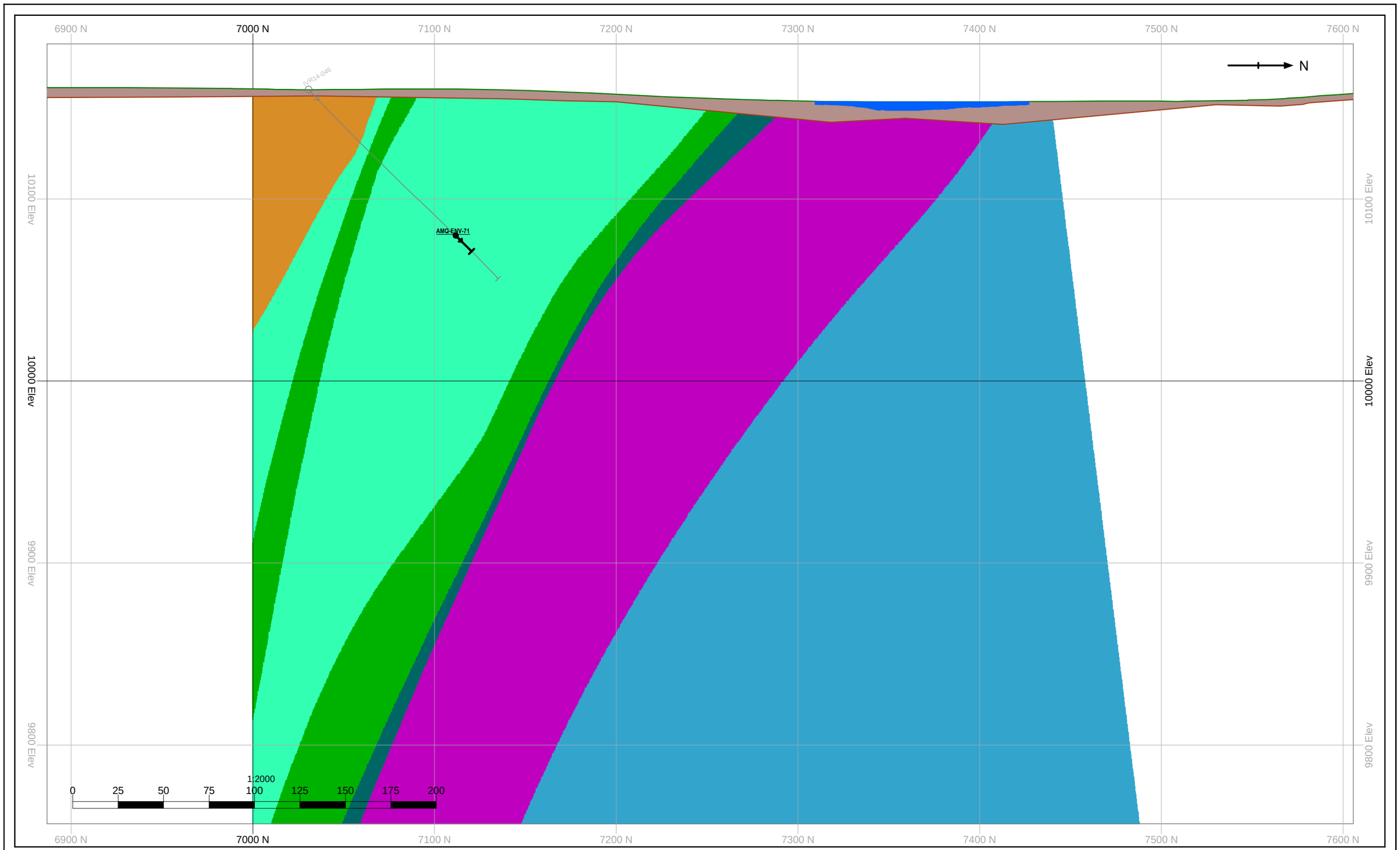
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15347	Section Northing: 7246.25	Section Elevation: 9971
Section 52 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



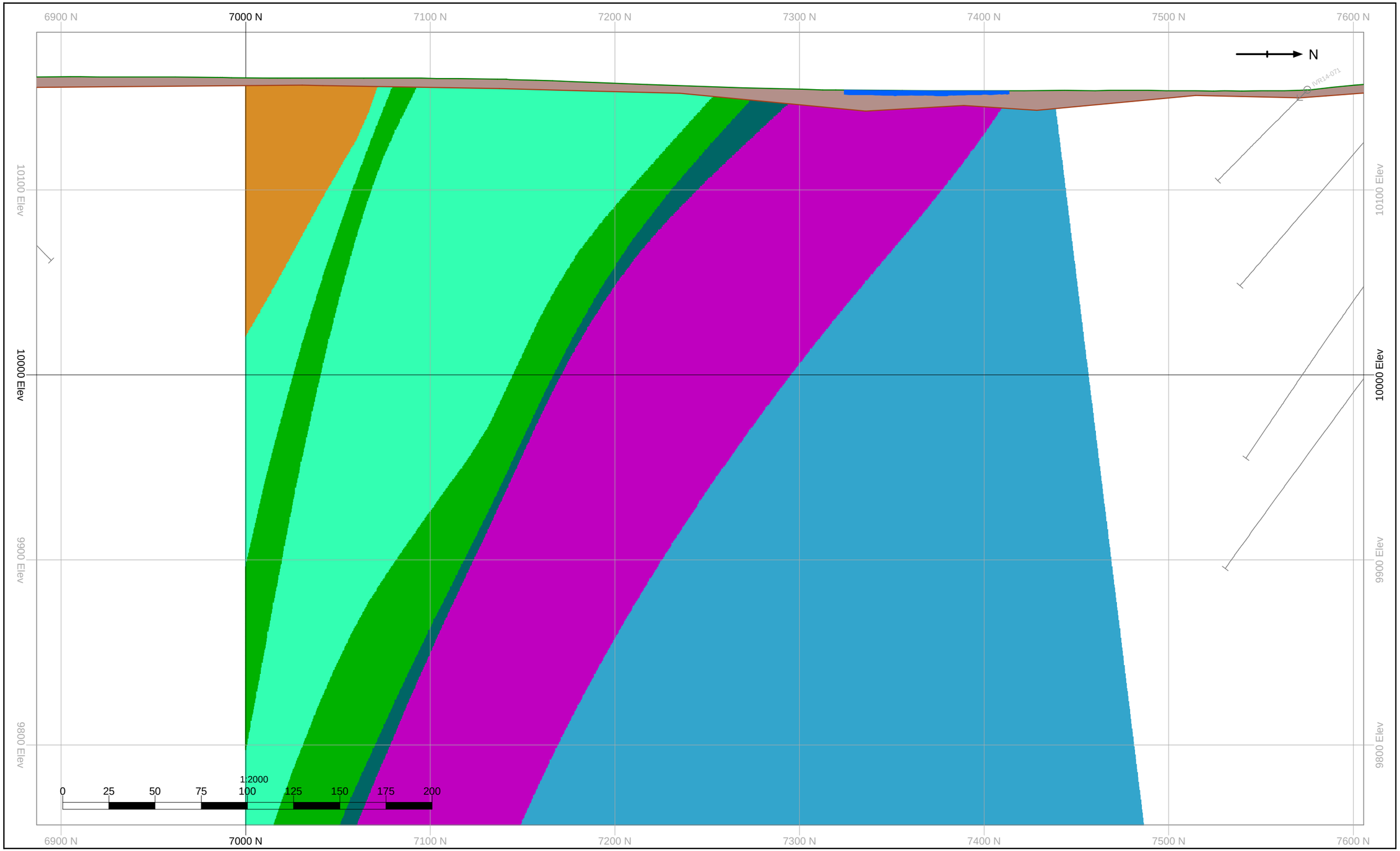
WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15372	Section Northing: 7246.25	Section Elevation: 9971
Section 53 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE



WT Legend

[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection

Section Easting: 15397	Section Northing: 7246.25	Section Elevation: 9971
Section 54 of 54	(+ / -) 12.5m	
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

AGNICO EAGLE

APPENDIX C

Sample Summary Table

Appendix C
Sample Summary
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Waste Type	Sample Type	Whole Rock	Trace Metals	ABA	SFE	XRD Mineralogy	SEM	NAG	Process Water	HCT	Leaching Column	Submerged Column
		From	To															
AMQ-ENV15-029	AMQ15-170	50	60	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV-44	IVR14-118	281	295	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-028	AMQ15-164	80	90	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV-16	IVR14-123	95	104	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV-31	IVR14-120	61	68.3	0a	Ultramafic	Waste	Core	x	x	x	x		x				X	X
AMQ-ENV-32	IVR14-120	77	86.2	0a	Ultramafic	Waste	Core	x	x	x	x					x	X	X
AMQ-ENV-33	IVR14-120	96.5	106	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV-39	IVR14-121A	151	160	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV-121	IVR14-149	190	199	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-030	AMQ15-170	160	170	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-016	AMQ15-225	31	40	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-011	AMQ15-232	149	159	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-014	AMQ15-236	25	35	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-090	IVR14-079	97	107	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-026	IVR14-141	224	234	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-055	IVR14-148	95	105	0a	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV-49	IVR14-016	107	116	0a	Ultramafic	Waste	Reject	x	x	x	x			x				
AMQ-ENV-58	IVR14-056	44	54	0a	Ultramafic	Waste	Reject	x	x	x	x							
AMQ-ENV-69	IVR14-015	70	80	0a	Ultramafic	Waste	Reject	x	x	x	x							
AMQ-ENV-70	IVR14-015	82.6	93	0a	Ultramafic	Waste	Reject	x	x	x	x							
AMQ-ENV-73	IVR14-097	182	192	0a	Ultramafic	Waste	Reject	x	x	x	x							
AMQ-ENV-02	IVR14-130	33.6	43.6	0b	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV-09	IVR14-116	47	56.1	0b	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV-10	IVR14-116	60	69.1	0b	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV-113	IVR14-131	220	229	0b	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV-119	IVR14-149	10	19.1	0b	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV-122	IVR14-152	10	19.1	0b	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-020	AMQ15-167	21	31	0b	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-033	AMQ15-180	77	87	0b	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-109	IVR14-099	50	60	0b	Ultramafic	Waste	Core	x	x	x	x			x			X	X
AMQ-ENV15-081	IVR14-156	105	115	0b	Ultramafic	Waste	Core	x	x	x	x						X	X
AMQ-ENV-54	IVR14-055	21	27.9	0b	Ultramafic	Waste	Reject	x	x	x	x							
AMQ-ENV-61	IVR14-101	201	210	0b	Ultramafic	Waste	Reject	x	x	x	x							
AMQ-ENV-62	IVR14-092	69.3	79.5	0b	Ultramafic	Waste	Reject	x	x	x	x							
AMQ-ENV-68	IVR14-110	233	242	0b	Ultramafic	Waste	Reject	x	x	x	x							
AMQ-ENV15-035	AMQ15-211	36	46	S9E	Iron Formation	Waste	Core	x	x	x	x			x			X	X
AMQ-ENV15-099	IVR14-089	161	171	S9E	Iron Formation	Waste	Core	x	x	x	x						X	X
AMQ-ENV-17	IVR14-123	168	177	S9E	Iron Formation	Waste	Core	x	x	x	x			x			X	X
AMQ-ENV-42	IVR14-118	201	213	S9E	Iron Formation	Waste	Core	x	x	x	x			x			X	X
AMQ-ENV-43	IVR14-118	264	276	S9E	Iron Formation	Waste	Core	x	x	x	x		x			x	X	X
AMQ-ENV-125	IVR14-152	175	184	S9E	Iron Formation	Waste	Core	x	x	x	x		x				X	X
AMQ-ENV15-027	AMQ15-164	45	55	S9E	Iron Formation	Waste	Core	x	x	x	x			x			X	X
AMQ-ENV15-034	AMQ15-180	110	119	S9E	Iron Formation	Waste	Core	x	x	x	x			x			X	X
AMQ-ENV15-045	AMQ15-188	115	125	S9E	Iron Formation	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-038	AMQ15-193	43	53	S9E	Iron Formation	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-039	AMQ15-193	85	95	S9E	Iron Formation	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-086	IVR14-016	130	140	S9E	Iron Formation	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-021	AMQ15-161	138	148	S9E	Iron Formation	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-040	AMQ15-178	40	50	S9E	Iron Formation	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-041	AMQ15-178	90	100	S9E	Iron Formation	Waste	Core	x	x	x	x						X	X
AMQ-ENV15-010	AMQ15-232	116	124	S9E	Iron Formation	Waste	Core	x	x	x	x			x			X	X
AMQ-ENV-47	IVR14-016	130	140	S9E	Iron Formation	Waste	Reject	x	x	x	x							
AMQ-ENV-56	IVR14-055	95	105	S9E	Iron Formation	Waste	Reject	x	x	x	x			x				
AMQ-ENV-57	IVR14-056	21	31	S9E	Iron Formation	Waste	Reject	x	x	x	x			x				
AMQ-ENV-59	IVR14-056	79.5	90	S9E	Iron Formation	Waste	Reject	x	x	x	x							
AMQ-ENV-72	IVR14-097	99	111	S9E	Iron Formation	Waste	Reject	x	x	x	x							
AMQ-ENV-64	IVR14-092	216	227	S9E	Iron Formation	Waste	Reject	x	x	x	x							
AMQ-ENV-03	IVR14-130	61.8	71.2	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
AMQ-ENV-109	IVR14-146	10	19.1	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
AMQ-ENV-11	IVR14-116	175	184	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
AMQ-ENV-12	IVR14-116	250	259	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV-13	IVR14-123	9	18.5	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
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AMQ-ENV15-004	AMQ15-245a	32	42	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-005	AMQ15-245a	45	55	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-006	AMQ15-232	21	31	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-008	AMQ15-232	69	79	S3C	Central Greywacke	Waste	Core	x	x	x	x	x		x			X	
AMQ-ENV15-009	AMQ15-232	92	102	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-012	AMQ15-241	15	25	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-025	IVR14-141	139	148	S3C	Central Greywacke	Waste	Core	x	x	x	x	x		x			X	
AMQ-ENV15-042	AMQ15-178	210	220	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
AMQ-ENV15-048	IVR14-141	119	129	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-054	IVR14-150	35	45	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-064	IVR14-114	105	114	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
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AMQ-ENV15-066	IVR14-114	148	157	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
AMQ-ENV15-073	IVR14-153	45	55	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
AMQ-ENV15-074	IVR14-153	150	160	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
AMQ-ENV15-075	IVR14-153	90	100	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-091	IVR14-079	16	24	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
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AMQ-ENV15-108	IVR14-099	150	160	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
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AMQ-ENV-18	IVR14-114	18	27.2	S3C	Central Greywacke	Waste	Core	x	x	x	x			x		x	X	
AMQ-ENV-19	IVR14-114	75.2	84.1	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
AMQ-ENV-20	IVR14-114	190	199	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
AMQ-ENV-28	IVR14-120	14	25.2	S3C	Central Greywacke	Waste	Core	x	x	x	x					x	X	
AMQ-ENV-29	IVR14-120	33	42.1	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV-34	IVR14-121A	22.3	31.2	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV-36	IVR14-121A	75	84.2	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV-37	IVR14-121A	95	104	S3C	Central Greywacke	Waste	Core	x	x	x	x					x	X	
AMQ-ENV-40	IVR14-118	14	23.2	S3C	Central Greywacke	Waste	Core	x	x	x	x			x		x	X	
AMQ-ENV-41	IVR14-118	86.2	96.4	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV-46	IVR14-130	149	155	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
AMQ-ENV-48	IVR14-016	70	80	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV-53	IVR14-084	150	161	S3C	Central Greywacke	Waste	Core	x	x	x	x			x			X	
AMQ-ENV-63	IVR14-092	79.5	87.5	S3C	Central Greywacke	Waste	Core	x	x	x	x						X	

Appendix C
Sample Summary
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Waste Type	Sample Type	Whole Rock	Trace Metals	ABA	SFE	XRD Mineralogy	SEM	NAG	Process Water	HCT	Leaching Column	Submerged Column
		From	To															
AMQ-ENV-112	IVR14-131	10	19.1	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV-115	IVR14-144	70	79.1	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV-116	IVR14-144	186	195	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV-117	IVR14-151	15	24.2	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV-120	IVR14-149	50	59.1	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-023	AMQ15-161	28	38	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-022	AMQ15-161	60	70	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-032	AMQ15-180	25	35	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-003	AMQ15-187	32	42	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-001	AMQ15-187	95	105	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-047	AMQ15-188	29	39	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-013	AMQ15-241	76	86	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-101	IVR14-087	20	30	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-102	IVR14-087	50	60	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-103	IVR14-087	75	85	S3S	South Greywacke	Waste	Core	x	x	x	x						X	
AMQ-ENV15-093	IVR14-091	20	30	S3S	South Greywacke	Waste	Reject	x	x	x	x							
AMQ-ENV15-110	IVR14-099	15	25	S3S	South Greywacke	Waste	Reject	x	x	x	x							
AMQ-ENV15-049	IVR14-141	13	22	S3S	South Greywacke	Waste	Reject	x	x	x	x							
AMQ-ENV-50	IVR14-103	125	132	S3S	South Greywacke	Waste	Reject	x	x	x	x	x						
AMQ-ENV-60	IVR14-101	119	128	S3S	South Greywacke	Waste	Reject	x	x	x	x							
AMQ-ENV-66	IVR14-110	92	100	S3S	South Greywacke	Waste	Reject	x	x	x	x							
AMQ-ENV-67	IVR14-110	197	207	S3S	South Greywacke	Waste	Reject	x	x	x	x							
AMQ-ENV-71	IVR14-046	114	126	S3S	South Greywacke	Waste	Reject	x	x	x	x							
AMQ-ENV15-019	AMQ15-167	47	57	S10	Chert	Waste	Core	x	x	x	x						X	
AMQ-ENV15-046	AMQ15-188	65	75	S10	Chert	Waste	Core	x	x	x	x						X	
AMQ-ENV15-037	AMQ15-193	15	25	S10	Chert	Waste	Core	x	x	x	x						X	
AMQ-ENV15-007	AMQ15-232	50	60	S10	Chert	Waste	Core	x	x	x	x	x					X	
AMQ-ENV15-092	IVR14-079	64	72	S10	Chert	Waste	Core	x	x	x	x						X	
AMQ-ENV15-088	IVR14-089	35	45	S10	Chert	Waste	Core	x	x	x	x						X	
AMQ-ENV15-095	IVR14-091	80	90	S10	Chert	Waste	Core	x	x	x	x						X	
AMQ-ENV15-096	IVR14-091	130	140	S10	Chert	Waste	Core	x	x	x	x	x					X	
AMQ-ENV15-085	IVR14-125A	370	380	S10	Chert	Waste	Core	x	x	x	x						X	
AMQ-ENV15-058	IVR14-147	35	45	S10	Chert	Waste	Core	x	x	x	x						X	
AMQ-ENV15-056	IVR14-148	37	47	S10	Chert	Waste	Core	x	x	x	x						X	
AMQ-ENV15-115	IVR14-155	335	345	S10	Chert	Waste	Core	x	x	x	x						X	
AMQ-ENV15-133	AMQ15-433-01	20	30	S10	Chert	Waste	Core	x	x	x	x					x	X	
AMQ-ENV15-141	AMQ15-481-02	225	235	S10	Chert	Waste	Core	x	x	x	x						X	
AMQ-ENV-01	IVR14-130	10.5	19.8	1b	Mafic Volcanics	Waste	Core	x	x	x	x						X	
AMQ-ENV-07	IVR14-116	16.4	25.1	1b	Mafic Volcanics	Waste	Core	x	x	x	x						X	
AMQ-ENV-08	IVR14-116	30.1	39.1	1b	Mafic Volcanics	Waste	Core	x	x	x	x						X	
AMQ-ENV-118	IVR14-151	200	209	1b	Mafic Volcanics	Waste	Core	x	x	x	x						X	
AMQ-ENV15-104	IVR14-087	100	110	1b	Mafic Volcanics	Waste	Core	x	x	x	x						X	
AMQ-ENV15-094	IVR14-091	41	51	1b	Mafic Volcanics	Waste	Core	x	x	x	x						X	
AMQ-ENV15-024	IVR14-141	38	47	1b	Mafic Volcanics	Waste	Core	x	x	x	x						X	
AMQ-ENV-51	IVR14-103	218	228	1b	Mafic Volcanics	Waste	Reject	x	x	x	x							
AMQ-ENV-114	IVR14-144	16	25.1	8b	Intermediate Intrusive	Waste	Core	x	x	x	x					x		
AMQ-ENV15-002	AMQ15-187	18	25	8b	Intermediate Intrusive	Waste	Core	x	x	x	x							
AMQ-ENV15-100	IVR14-087	9	18	8b	Intermediate Intrusive	Waste	Core	x	x	x	x							
AMQ-ENV15-077	IVR14-156	15	25	8b	Intermediate Intrusive	Waste	Core	x	x	x	x							
AMQ-ENV-65	IVR14-110	70	80	8b	Intermediate Intrusive	Waste	Reject	x	x	x	x							
AMQ-ENV15-089	IVR14-079	78	88	0a_alt	V4_Alt1	Ore	Core	x	x	x	x					Composite		
AMQ-ENV15-076	IVR14-156	145	155	0b	ALTV41	Ore	Core	x	x	x	x							
AMQ-ENV15-134	AMQ15-433-02	32	41.8	S10	V4_Alt1	Ore	Core	x	x	x	x							
AMQ-ENV15-135	AMQ15-433-03	67.2	75	0a	V4_Alt2	Ore	Core	x	x	x	x							
AMQ-ENV15-136	AMQ15-438-01	32	32.7	S10	QZ3	Ore	Core	x	x	x	x							
AMQ-ENV15-137	AMQ15-438-02	32.7	37.8	0a	QZ4	Ore	Core	x	x	x	x							
AMQ-ENV15-138	AMQ15-438-03	66	78	S10/UM	QZ2	Ore	Core	x	x	x	x							
AMQ-ENV15-139	AMQ15-438-04	88	98	S10	QZ2	Ore	Core	x	x	x	x							
AMQ-ENV15-140	AMQ15-481-01	190	200	S3C	QZ3	Ore	Core	x	x	x	x							
AMQ-ENV15-142	AMQ15-481-03	254	259	S3C	QZ2	Ore	Core	x	x	x	x							
AMQ-ENV15-143	AMQ15-481-04	262	272	S3C	QZ2	Ore	Core	x	x	x	x							
AMQ-ENV15-144	AMQ15-481-05	390	400	S3C	ALTV41	Ore	Core	x	x	x	x					x		
AMQ-ENV-52	IVR14-084	72	84	0b	ALTV41	Ore	Reject	x	x	x	x							
RE-13872/RE-13874				-	-	Tailing	Tailing	x	x	x	x			x	x	x		

Sample ID	Sample Location		Depth	Lithology Code	Rock Name	Waste Type	Sample Type	Whole Rock	Trace Metals	ABA	SFE	XRD Mineralogy	SEM	NAG	Process Water	HCT	Leaching Column	Submerged Column
	northing	easting	To															
AMQ-ENV15-116	607115	7255556	0 - 1 m	-	-	Overburden	Grab	x	x	x	x							
AMQ-ENV15-130	606547	7255421	0 - 1 m	-	-	Overburden	Grab	x	x	x	x							
AMQ-ENV15-131	606491	7255315	0 - 1 m	-	-	Overburden	Grab	x	x	x	x							
AMQ-ENV15-132	606358	7255275	0 - 1 m	-	-	Overburden	Grab	x	x	x	x							
AMQ-ENV15-117	607157	7255734	0 - 1 m	-	-	Overburden	Grab	x	x	x	x							
AMQ-ENV15-118	607073	7255727	0 - 1 m	-	-	Overburden	Grab	x	x	x	x							
AMQ-ENV15-119	607105	7255855	0 - 1 m	-	-	Overburden	Grab	x	x	x	x							
AMQ-ENV15-125	606166	7255176	0 - 1 m	-	-	Overburden	Grab	x	x	x	x							
AMQ-ENV15-126	606339	7255139	0 - 1 m	-	-	Overburden	Grab	x	x	x	x							
AMQ-ENV15-127	606524	7255175	0 - 1 m	-	-	Overburden	Grab	x	x	x	x							
AMQ-ENV15-128	606741	7255248	0 - 1 m	-	-	Overburden	Grab	x	x	x	x							
AMQ-ENV15-129	606665	7255436	0 - 1 m	-	-	Overburden	Grab	x	x	x	x							
WTN-1	North basin of Whale Tail Lake		0 - 0.1 m	-	-	Lake Sediment	Composite	x	x	x	x							
WTN-2	North basin of Whale Tail Lake		0 - 0.1 m	-	-	Lake Sediment	Composite	x	x	x	x							
WTN-3	North basin of Whale Tail Lake		0 - 0.1 m	-	-	Lake Sediment	Composite	x	x	x	x							
WTN-4	North basin of Whale Tail Lake		0 - 0.1 m	-	-	Lake Sediment	Composite	x	x	x	x							
WTN-5	North basin of Whale Tail Lake		0 - 0.1 m	-	-	Lake Sediment	Composite	x	x	x	x							

Notes:
Whole rock was completed using Borate fusion and XRF methods.
ICP = Metals (including arsenic and selenium) by inductively coupled plasma-mass spectroscopy (ICP-MS), with samples extracted using a strong acid solution.
ABA = Acid Base Accounting (modified Sobek method(1996)) - paste pH, NP, total sulphur, sulphate, sulphide, total carbon, total inorganic carbon, and carbonate
SFE = Shake Flask Extraction according to Modified ASTM D3987; 4:1 solution to solid ratio, 24 hour shake (2001)
NAG: Net Acid Generation; sequential addition NAG pH and leachate (AMIRA, 2002)
HCT = Humidity Cell Test

APPENDIX D

QA/QC Table

Appendix D.1
QAQC Results for ABA, WRA and Total Metals
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

									ABA									WRA + ICP									
Sample ID	Duplicate Description	Borehole ID	Sample Depth (m) From	Sample Depth (m) To	Rock Code	Rock Name	Waste Type	Sample Location	Paste pH	Sample weight g	Final pH	NP t CaCO3/1000 t	AP t CaCO3/1000 t	Sulphur (total) %	Sulphide %	Carbon (total) %	Carbonate %	Aluminum µg/g	Silver µg/g	Arsenic µg/g	Boron µg/g	Barium µg/g	Beryllium µg/g	Bismuth µg/g	Calcium µg/g	Cadmium µg/g	Cobalt µg/g	Chromium µg/g
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	8.3	2.08	2.35	21	15.3	0.559	0.49	0.045	0.17	20000	0.18	90	6	76	0.47	0.16	2300	0.08	9.9	25
AMQ-ENV-28	Riffle	IVR14-120	92	102	S3C	Greywacke	Waste	OP	6.41	2.01	2.16	16	35	1.13	1.12	0.085	0.25	17000	0.29	170	3	52	0.41	0.3	2300	0.11	14	33
								RPD	26%	3%	8%	27%	78%	68%	78%	62%	38%	16%	47%	62%	67%	38%	14%	61%	0%	32%	34%	28%
								Number of Parameters exceeding criteria*:	16																			
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	7.17	2.01	2.46	21	18.1	0.59	0.58	0.055	0.305	18000	0.17	81	4	60	0.38	< 0.09	2300	0.08	8.5	23
AMQ-ENV-28	Riffle	IVR14-120	92	102	S3C	Greywacke	Waste	OP	6.59	2.08	2.31	19	39.7	1.4	1.27	0.067	0.295	16000	0.37	180	3	45	0.38	0.57	2200	0.12	13	48
								RPD	8%	3%	6%	10%	75%	81%	75%	20%	3%	12%	74%	76%	29%	29%	0%	-	4%	40%	42%	70%
								Number of Parameters exceeding criteria*:	14																			
AMQ-ENV-62		IVR14-092	69.3	79.5	0b	Ultramafic	Waste	OP	-	-	-	-	-	-	-	-	-	29000	0.05	210	< 1	570	0.45	< 0.09	46000	0.24	35	680
AMQ-ENV-62	Riffle	IVR14-092	69.3	79.5	0b	Ultramafic	Waste	OP	-	-	-	-	-	-	-	-	-	31000	0.04	180	1	650	0.5	< 0.09	48000	0.23	36	770
									-	-	-	-	-	-	-	-	-	7%	22%	15%	-	13%	11%	-	4%	4%	3%	12%
								Number of Parameters exceeding criteria*:	3																			
AMQ-ENV15-142		AMQ15-481-03	254	259	Ore	Ore	Waste	OP	9.78	2.02	2.24	51	12.2	0.715	0.39	0.561	2.88	15000	0.14	18	4	68	0.38	0.22	20000	0.13	12	18
AMQ-ENV15-142	Riffle	AMQ15-481-03	254	259	Ore	Ore	Waste	OP	9.93	2.01	1.88	34	11.6	0.55	0.37	0.418	1.43	15000	0.13	11	4	65	0.4	< 0.09	16000	0.22	8.8	49
									2%	0%	17%	40%	5%	26%	5%	29%	67%	0%	7%	48%	0%	5%	5%	-	22%	51%	31%	93%
								Number of Parameters exceeding criteria*:	11																			
AMQ-ENV-40		IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	8.42	1.97	2.32	23	43.8	1.37	1.4	0.298	1.01	12000	0.27	290	4	45	0.29	< 0.09	4700	0.04	6.9	12
AMQ-ENV-40	Riffle	IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	8.78	2.04	2.32	18	36.9	1.42	1.18	0.518	1.43	7300	0.64	110	6	26	0.31	1.4	4400	0.32	6.4	60
								RPD	4%	3%	0%	24%	17%	4%	17%	54%	34%	49%	81%	90%	40%	54%	7%	-	7%	156%	8%	133%
								Number of Parameters exceeding criteria*:	16																			
AMQ-ENV-40		IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	9.29	1.98	2.3	21	35.6	1.32	1.14	0.292	0.934	12000	0.23	280	5	49	0.34	0.22	4800	0.04	7.3	15
AMQ-ENV-40	Riffle	IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	8.84	1.99	2.14	20	36.2	1.29	1.16	0.392	1.19	12000	0.19	120	5	48	0.36	0.18	4200	0.06	5.8	58
								RPD	5%	1%	7%	5%	2%	2%	2%	29%	24%	0%	19%	80%	0%	2%	6%	20%	13%	40%	23%	118%
								Number of Parameters exceeding criteria*:	8																			
AMQ-ENV-20		IVR14-114	190	199.1	S3C	Greywacke	Waste	OP	9.98	2	2.69	30	1.56	0.154	0.05	0.103	0.46	21000	0.11	33	4	120	0.18	0.14	6200	0.11	14	38
AMQ-ENV-20	Riffle	IVR14-114	190	199.1	S3C	Greywacke	Waste	OP	9.94	1.91	2.31	23	2.81	0.208	0.09	0.078	0.325	17000	0.17	27	3	110	0.18	0.14	4700	0.09	14	42
								RPD	0%	5%	15%	26%	57%	30%	57%	28%	34%	21%	43%	20%	29%	9%	0%	0%	28%	20%	0%	10%
								Number of Parameters exceeding criteria*:	5																			
AMQ-ENV-29		IVR14-120	33	42.1	S3C	Greywacke	Waste	OP	8.51	2.04	2.34	27	93.4	3.07	2.99	0.701	1.15	8700	0.36	97	3	28	0.48	0.18	6300	0.03	4.1	7.1
AMQ-ENV-29	Riffle	IVR14-120	33	42.1	S3C	Greywacke	Waste	OP	7.71	2.02	2.12	18	91.2	2.96	2.92	1.14	1.21	10000	0.4	120	3	27	0.5	0.16	3400	0.06	4.9	41
								RPD	10%	1%	10%	40%	2%	4%	2%	48%	5%	14%	11%	21%	0%	4%	4%	12%	60%	67%	18%	141%
								Number of Parameters exceeding criteria*:	15																			
AMQ-ENV-53		IVR14-084	150	160.5	S3C	Greywacke	Waste	OP	9.66	1.98	2.18	33	10.9	0.702	0.35	0.401	1.65	7700	0.17	66	5	74	0.27	0.31	9600	0.3	7.7	6.4
AMQ-ENV-53	Riffle	IVR14-084	150	160.5	S3C	Greywacke	Waste	OP	9.83	2.03	2.44	38	10.9	0.616	0.35	0.39	1.01	7400	0.14	68	5	100	0.31	0.39	9200	0.31	7.7	53
									2%	2%	11%	14%	0%	13%	0%	3%	48%	4%	19%	3%	0%	30%	14%	23%	4%	3%	0%	157%
								Number of Parameters exceeding criteria*:	6																			
AMQ-ENV15-097		IVR14-091	190	200	S3C	Greywacke	Waste	OP	9.98	1.99	2.22	35	3.44	0.296	0.11	0.294	1.48	12000	0.17	65	5	73	0.32	0.3	12000	0.26	8.1	11
AMQ-ENV15-097	Riffle	IVR14-091	190	200	S3C	Greywacke	Waste	OP	9.9	1.92	1.57	20	3.75	0.362	0.12	0.151	0.38	14000	0.21	53	6	100	0.45	0.4	6400	0.43	7.3	95
									1%	4%	34%	55%	9%	20%	9%	64%	118%	15%	21%	20%	18%	31%	34%	29%	61%	49%	10%	158%
								Number of Parameters exceeding criteria*:	15																			
AMQ-ENV15-025		IVR14-141	139	148	S3C	Greywacke	Waste	OP	9.56	2.06	1.74	40	48.1	1.9	1.54	1.14	1.84	18000	0.23	170	5	23	1.1	0.23	13000	0.05	4.4	9.5
AMQ-ENV15-025	Riffle	IVR14-141	139	148	S3C	Greywacke	Waste	OP	9.71	2.06	1.73	65	32.2	1.94	1.03	1.32	4.29	7300	0.16	88	3	14	1.4	0.32	26000	0.26	3	6.5
									2%	0%	1%	48%	40%	2%	40%	15%	80%	85%	36%	64%	50%	49%	24%	33%	67%	135%	38%	38%
								Number of Parameters exceeding criteria*:	27																			
AMQ-ENV-53		IVR14-084	150	160.5	S3C	Greywacke	Waste	OP	9.66	1.98	2.18	33	10.9	0.702	0.35	0.401	1.65	7700	0.17	66	5	74	0.27	0.31	9600	0.3	7.7	6.4
AMQ-ENV-53	Riffle	IVR14-084	150	160.5	S3C	Greywacke	Waste	OP	9.83	2.03	2.44	38	10.9	0.616	0.35	0.39	1.01	7400	0.14	68	5	100	0.31	0.39	9200	0.31	7.7	53
									2%	2%	11%	14%	0%	13%	0%	3%	48%	4%	19%	3%	0%	30%	14%	23%	4%	3%	0%	157%
								Number of Parameters exceeding criteria*:	6																			
AMQ-ENV15-056		IVR14-148	37	47	S10	Chert	Waste	OP	9.47	2.02	2.2	17	7.19	0.348	0.23	0.097	0.54	18000	0.14	32	4	76	0.19	0.23	5200	0.06	14	24
AMQ-ENV15-056	Riffle	IVR14-148	37	47	S10	Chert	Waste	OP	9.43	1.95	1.82	13	7.5	0.324	0.24	0.081	0.2	18000	0.21	41	6	100	0.29	0.32	4900	0.09	13	43
									0%	4%	19%	27%	4%	7%	4%	18%	92%	0%	40%	25%	40%	27%	42%	33%	6%	40%	7%	57%
								Number of Parameters exceeding criteria*:	12																			
AMQ-ENV15-027		AMQ15-164	45	55	S9E	Iron Formation	Waste	OP	-	-	-	-	-	-	-	-	-	15000	0.34	1400	3	50	0.11	0.19	13000	0.03	84	1100
AMQ-ENV15-027	Riffle	AMQ15-164	45	55	S9E	Iron Formation	Waste	OP	-	-	-	-	-	-	-	-	-	15000	1.1	1400	2	59	0.12	0.26	14000	0.03	73	1090
									-	-	-	-	-	-	-	-	-	0%	106%	0%	40%	17%	9%	31%	7%	0%	14%	1%
								Number of Parameters exceeding criteria*:	7																			
AMQ-ENV-47		IVR14-016	130	140	S9E	Iron Formation	Waste	OP	-	-	-	-	-	-	-	-	-	27000	0.44	1000	1	110	0.28	< 0.09	27000	0.07	73	1500
AMQ-ENV-47	Riffle	IVR14-016	130	140	S9E	Iron Formation	Waste	OP	-	-	-	-	-	-	-	-	-	26000	0.29	1100	1	110	0.29	0.14	26000	0.09	81	1600
									-	-	-	-	-	-	-	-	-	4%	41%	10%	0%	0%	4%	-	4%	25%	10%	6%
								Number of Parameters exceeding criteria*:	4																			
AMQ-ENV-01		IVR14-130	10.5	19.8	1b	Mafic Volcanics	Waste	OP	-	-	-	-	-	-	-	-	-	26000	0.29	150	< 1	360	0.69	0.51	38000	0.15	32	760
AMQ-ENV-01	Riffle	IVR14-130	10.5	19.8	1b	Mafic Volcanics	Waste	OP	-	-	-	-	-	-	-	-	-	27000	0.1	140	< 1	340	0.74	< 0.09	42000	0.12	37	710
									-	-	-	-	-	-	-	-	-	4%	97%	7%	-	6%	7%	-	10%	22%	14%	7%
								Number of Parameters exceeding criteria*:	3																			
AMQ-ENV-70		IVR14-015	82.6	93	0a	Ultramafic	Waste	OP	-	-	-	-	-	-	-	-	-	16000	0.11	550	3	6.6	0.07	< 0.09	24000	0.02	60	870
AMQ-ENV-70	Riffle	IVR14-015	82.6	93	0a	Ultramafic	Waste	OP	-	-	-	-	-	-	-	-	-	18000	0.07	540	2	6.3	0.08	< 0.09	25000	0.02	59	960
									-	-	-	-	-	-	-	-	-	12%	44%	2%	40%	5%	13%	-	4%	0%	2%	10%
								Number of Parameters exceeding criteria*:	6																			
AMQ-ENV-49		IVR14-016	106.5	115.5	0a	Ultramafic	Waste	OP	-	-	-	-	-	-	-	-	-	28000	0.19	560	< 1	41	0.2	< 0.09	42000	0.11	63	1400
AMQ-ENV-49	Riffle	IVR14-016	106.5	115.5	0a	Ultramafic	Waste	OP	-	-	-	-	-	-	-	-	-	35000	0.24	660	< 1	46	0.25	0.14	56000	0.11	74	1600
									-	-	-	-	-	-	-	-	-	22%	23%	16%	-	11%	22%	-	29%	0%	16%	13%
								Number of Parameters exceeding criteria*:	2																			
AMQ-ENV-40		IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	9.29	1.98	2.3	21	35.6	1.32	1.14	0.292	0.934	12000	0.23	280	5	49	0.34	0.22	4800	0.04	7.3	15
AMQ-ENV-40	Duplicate	IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	8.42	1.97	2.32	23	43.8	1.37	1.4	0.298	1.01	12000	0.27	290	4	45	0.29	< 0.09	4700	0.04	6.9	12
								RPD	10%	1%	1%	9%	21%	4%	20%	2%	8%	0%	16%	4%	22%	9%	16%	-	2%	0%	6%	22%
								Number of Parameters exceeding criteria*:	1																			
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	8.3	2.08	2.35	21	15.3	0.559	0.49	0.045	0.17	20000	0.18	90	6	76	0.47	0.16	2300	0.08	9.9	25
AMQ-ENV-28	Duplicate	IVR14-120	92	102	S3C	Greywacke	Waste	OP	7.17	2.01	2.46	21	18.1	0.59	0.58	0.055	0.305	18000	0.17	81	4	60	0.38	< 0.09	2300	0.08	8.5	23
								RPD	15%	3%	5%	0%	17%	5%	17%	20%	57%	11%	6%	11%	40%	24%	21%	-	0%	0%	15%	8%
								Number of Parameters exceeding criteria*:	6																			
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	6.59	2.08	2.31	19	39.7	1.4	1.27	0.067	0.295	16000	0.37	180	3	45	0.38	0.57	2200	0.12	13	48
AMQ-ENV-28	Duplicate	IVR14-120	92	102	S3C	Greywacke	Waste	OP	6.41	2.01	2.16	16	35	1.13	1.12	0.085	0.25	17000	0.29	170	3	52	0.41	0.3	2300	0.11	14	33
								RPD	3%	3%	7%	17%	13%	21%	13%	24%	17%	6%	24%	6%	0%	14%	8%	62%	4%	9%	7%	37%
								Number of Parameters exceeding criteria*:	6																			

Note: *RPD Criteria for ABA, Bulk Metals and WRA analysis is 35%

Appendix D.1
QAQC Results for ABA, WRA and Total Metals
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Sample ID	Duplicate Description	Borehole ID	Sample Depth (m) From	Sample Depth (m) To	Rock Code	Rock Name	Waste Type	Sample Location	WRA + ICP Copper µg/g	Iron µg/g	Potassium µg/g	Lithium µg/g	Magnesium µg/g	Manganese µg/g	Molybdenum µg/g	Sodium µg/g	Nickel µg/g	Phosphorus µg/g	Lead µg/g	Antimony µg/g	Selenium µg/g	Silicon µg/g	Tin µg/g	Strontium µg/g	Titanium µg/g	Thallium µg/g	Uranium µg/g	Vanadium µg/g	Zinc µg/g
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	21	46000	7800	19	10000	760	2.6	560	22	640	9	< 0.8	< 0.7	9200	< 0.5	8.6	890	0.66	2.8	29	54
AMQ-ENV-28	Riffle	IVR14-120	92	102	S3C	Greywacke	Waste	OP	29	48000	7100	16	9300	780	2.6	380	24	650	12	0.9	< 0.7	5400	< 0.5	6.9	750	0.64	2.7	26	52
								RPD	**32%**	**4%**	**9%**	**17%**	**7%**	**3%**	**0%**	**38%**	**9%**	**2%**	**29%**	-	-	**52%**	-	**22%**	**17%**	**3%**	**4%**	**11%**	**4%**
								Number of Parameters exceeding criteria*:	**16**																			
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	20	43000	7500	15	9400	750	2.3	280	19	600	8.2	< 0.8	< 0.7	1500	< 0.5	6.8	870	0.59	2.2	26	49
AMQ-ENV-28	Riffle	IVR14-120	92	102	S3C	Greywacke	Waste	OP	27	50000	6500	14	8800	810	5.1	160	27	600	13	0.9	< 0.7	1200	< 0.5	5.1	810	0.58	2.3	26	53
								RPD	**30%**	**15%**	**14%**	**7%**	**7%**	**8%**	**76%**	**55%**	**35%**	**0%**	**45%**	-	-	**22%**	-	**29%**	**7%**	**2%**	**4%**	**0%**	**8%**
								Number of Parameters exceeding criteria*:	**14**																			
AMQ-ENV-62		IVR14-092	69.3	79.5	0b	Ultramafic	Waste	OP	22	51000	20000	13	45000	950	0.4	390	290	930	4.3	< 0.8	< 0.7	14000	< 0.5	290	1800	0.54	0.52	86	53
AMQ-ENV-62	Riffle	IVR14-092	69.3	79.5	0b	Ultramafic	Waste	OP	24	55000	20000	15	48000	1000	0.4	160	310	1100	6.3	< 0.8	< 0.7	1400	< 0.5	340	2000	0.54	0.63	95	62
								RPD	**9%**	**8%**	**0%**	**14%**	**6%**	**5%**	**0%**	**84%**	**7%**	**17%**	**38%**	-	-	**164%**	-	**16%**	**11%**	**0%**	**19%**	**10%**	**16%**
								Number of Parameters exceeding criteria*:	**3**																			
AMQ-ENV15-142		AMQ15-481-03	254	259	Ore	Ore	Waste	OP	20	32000	6700	9	7400	690	1	770	23	920	15	< 0.8	< 0.7	12000	< 0.5	48	500	0.37	3.4	20	44
AMQ-ENV15-142	Riffle	AMQ15-481-03	254	259	Ore	Ore	Waste	OP	20	34000	6600	12	8500	630	1.3	400	19	970	15	< 0.8	< 0.7	3600	< 0.5	43	570	0.44	4	19	51
								RPD	**0%**	**6%**	**2%**	**29%**	**14%**	**9%**	**26%**	**63%**	**19%**	**5%**	**0%**	-	-	**108%**	-	**11%**	**13%**	**17%**	**16%**	**5%**	**15%**
								Number of Parameters exceeding criteria*:	**11**																			
AMQ-ENV-40		IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	19	55000	6100	7	5700	1100	1.2	120	17	360	3.5	< 0.8	< 0.7	1600	< 0.5	6.8	370	0.23	0.56	11	33
AMQ-ENV-40	Riffle	IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	29	43000	4400	6	4000	760	2.7	46	24	430	24	< 0.8	< 0.7	905	< 0.5	6.8	280	0.19	0.55	8	45
								RPD	**42%**	**24%**	**32%**	**15%**	**35%**	**37%**	**77%**	**89%**	**34%**	**18%**	**149%**	-	-	**55%**	-	**0%**	**28%**	**19%**	**2%**	**32%**	**31%**
								Number of Parameters exceeding criteria*:	**16**																			
AMQ-ENV-40		IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	20	57000	5700	8	6000	1100	1.3	170	20	380	3.6	0.8	< 0.7	11000	< 0.5	7.9	360	0.24	0.61	11	36
AMQ-ENV-40	Riffle	IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	18	53000	6300	9	6100	930	3.5	75	21	570	4.4	< 0.8	< 0.7	5400	< 0.5	8.3	460	0.34	0.7	11	44
								RPD	**11%**	**7%**	**10%**	**12%**	**2%**	**17%**	**92%**	**78%**	**5%**	**40%**	**20%**	-	-	**68%**	-	**5%**	**24%**	**34%**	**14%**	**0%**	**20%**
								Number of Parameters exceeding criteria*:	**8**																			
AMQ-ENV-20		IVR14-114	190	199.1	S3C	Greywacke	Waste	OP	32	33000	12000	18	11000	570	2.4	820	32	670	9.2	< 0.8	< 0.7	11000	< 0.5	22	1100	0.63	2	38	75
AMQ-ENV-20	Riffle	IVR14-114	190	199.1	S3C	Greywacke	Waste	OP	33	30000	11000	17	9700	510	2.4	830	33	580	13	< 0.8	< 0.7	7100	< 0.5	21	1000	0.66	2.5	32	70
								RPD	**3%**	**10%**	**9%**	**6%**	**13%**	**11%**	**0%**	**1%**	**3%**	**14%**	**34%**	-	-	**43%**	-	**5%**	**10%**	**5%**	**22%**	**17%**	**7%**
								Number of Parameters exceeding criteria*:	**5**																			
AMQ-ENV-29		IVR14-120	33	42.1	S3C	Greywacke	Waste	OP	7.5	65000	4900	6	5000	1200	1.1	170	28	360	5.1	1.3	< 0.7	14000	< 0.5	8.7	270	0.18	0.38	9	17
AMQ-ENV-29	Riffle	IVR14-120	33	42.1	S3C	Greywacke	Waste	OP	12	65000	4900	8	5700	1100	1.7	130	35	380	4.4	1	0.7	7500	< 0.5	4.9	340	0.21	0.48	12	21
								RPD	**46%**	**0%**	**0%**	**29%**	**13%**	**9%**	**43%**	**27%**	**22%**	**5%**	**15%**	**26%**	-	**60%**	-	**56%**	**23%**	**15%**	**23%**	**29%**	**21%**
								Number of Parameters exceeding criteria*:	**15**																			
AMQ-ENV-53		IVR14-084	150	160.5	S3C	Greywacke	Waste	OP	20	18000	5000	5	2900	410	2.2	860	16	400	11	< 0.8	< 0.7	9000	< 0.5	19	270	0.24	2.5	5	85
AMQ-ENV-53	Riffle	IVR14-084	150	160.5	S3C	Greywacke	Waste	OP	20	19000	4400	6	3100	440	3.7	440	20	460	11	< 0.8	< 0.7	1100	< 0.5	20	320	0.21	2.6	7	96
								RPD	**0%**	**5%**	**13%**	**18%**	**7%**	**7%**	**51%**	**65%**	**22%**	**14%**	**0%**	-	-	**156%**	-	**5%**	**17%**	**13%**	**4%**	**33%**	**12%**
								Number of Parameters exceeding criteria*:	**6**																			
AMQ-ENV15-097		IVR14-091	190	200	S3C	Greywacke	Waste	OP	20	23000	9000	10	6500	460	2.1	490	16	920	12	< 0.8	< 0.7	7500	< 0.5	20	630	0.44	2.4	14	44
AMQ-ENV15-097	Riffle	IVR14-091	190	200	S3C	Greywacke	Waste	OP	25	26000	10000	13	7500	410	5.9	750	21	440	19	< 0.8	< 0.7	7600	< 0.5	20	760	0.51	2.7	15	63
								RPD	**22%**	**12%**	**11%**	**26%**	**14%**	**11%**	**95%**	**42%**	**27%**	**71%**	**45%**	-	-	**1%**	-	**0%**	**19%**	**15%**	**12%**	**7%**	**36%**
								Number of Parameters exceeding criteria*:	**15**																			
AMQ-ENV15-025		IVR14-141	139	148	S3C	Greywacke	Waste	OP	40	85000	6500	10	8400	650	45	400	39	530	2.9	< 0.8	< 0.7	12000	0.6	18	390	0.23	2.4	15	34
AMQ-ENV15-025	Riffle	IVR14-141	139	148	S3C	Greywacke	Waste	OP	16	64000	5200	4	5900	870	2.3	350	8.6	500	2.5	< 0.8	< 0.7	7100	< 0.5	38	170	0.11	0.59	8	15
								RPD	**86%**	**28%**	**22%**	**86%**	**35%**	**29%**	**181%**	**13%**	**128%**	**6%**	**15%**	-	-	**51%**	-	**71%**	**79%**	**71%**	**121%**	**61%**	**78%**
								Number of Parameters exceeding criteria*:	**27**																			
AMQ-ENV-53		IVR14-084	150	160.5	S3C	Greywacke	Waste	OP	20	18000	5000	5	2900	410	2.2	860	16	400	11	< 0.8	< 0.7	9000	< 0.5	19	270	0.24	2.5	5	85
AMQ-ENV-53	Riffle	IVR14-084	150	160.5	S3C	Greywacke	Waste	OP	20	19000	4400	6	3100	440	3.7	440	20	460	11	< 0.8	< 0.7	1100	< 0.5	20	320	0.21	2.6	7	96
								RPD	**0%**	**5%**	**13%**	**18%**	**7%**	**7%**	**51%**	**65%**	**22%**	**14%**	**0%**	-	-	**156%**	-	**5%**	**17%**	**13%**	**4%**	**33%**	**12%**
								Number of Parameters exceeding criteria*:	**6**																			
AMQ-ENV15-056		IVR14-148	37	47	S10	Chert	Waste	OP	35	34000	5700	15	9300	480	4.8	890	30	640	9.9	< 0.8	< 0.7	10000	< 0.5	9.4	530	0.36	2.4	22	63
AMQ-ENV15-056	Riffle	IVR14-148	37	47	S10	Chert	Waste	OP	30	32000	5800	17	9200	490	2.8	570	34	710	15	< 0.8	< 0.7	6300	< 0.5	13	600	0.33	2.7	19	63
								RPD	**15%**	**6%**	**2%**	**13%**	**1%**	**2%**	**53%**	**44%**	**13%**	**10%**	**41%**	-	-	**45%**	-	**32%**	**12%**	**9%**	**12%**	**15%**	**0%**
								Number of Parameters exceeding criteria*:	**12**																			
AMQ-ENV15-027		AMQ15-164	45	55	S9E	Iron Formation	Waste	OP	32	86000	6200	15	10000	1900	0.4	490	1200	140	1.8	6	< 0.7	14000	< 0.5	12	700	0.21	0.046	54	22
AMQ-ENV15-027	Riffle	AMQ15-164	45	55	S9E	Iron Formation	Waste	OP	47	110000	7600	17	9400	1700	0.4	270	1020	90	2.2	4.6	< 0.7	6100	< 0.5	16	700	0.24	0.067	52	22
								RPD	**38%**	**24%**	**20%**	**13%**	**6%**	**11%**	**0%**	**58%**	**16%**	**43%**	**20%**	**26%**	-	**79%**	-	**29%**	**0%**	**13%**	**37%**	**4%**	**0%**
								Number of Parameters exceeding criteria*:	**7**																			
AMQ-ENV-47		IVR14-016	130	140	S9E	Iron Formation	Waste	OP	43	41000	17000	26	37000	890	0.6	180	880	72	3.3	2.7	< 0.7	15000	< 0.5	99	1200	0.36	0.011	85	43
AMQ-ENV-47	Riffle	IVR14-016	130	140	S9E	Iron Formation	Waste	OP	47	41000	15000	28	36000	970	0.3	71	920	79	4.4	2.6	< 0.7	1200	< 0.5	100	1200	0.32	0.012	88	49
								RPD	**9%**	**0%**	**13%**	**7%**	**3%**	**9%**	**67%**	**87%**	**4%**	**9%**	**29%**	**4%**	-	**170%**	-	**1%**	**0%**	**12%**	**9%**	**3%**	**13%**
								Number of Parameters exceeding criteria*:	**4**																			
AMQ-ENV-01		IVR14-130	10.5	19.8	1b	Mafic Volcanics	Waste	OP	28	45000	19000	16	51000	850	0.7	170	270	770	65	< 0.8	< 0.7	12000	0.7	230	1600	0.72	0.64	74	41
AMQ-ENV-01	Riffle	IVR14-130	10.5	19.8	1b	Mafic Volcanics	Waste	OP	26	46000	18000	17	54000	870	0.7	100	270	800	16	< 0.8	< 0.7	9200	0.7	240	1600	0.68	0.62	69	44
								RPD	**7%**	**2%**	**5%**	**6%**	**6%**	**2%**	**0%**	**52%**	**0%**	**4%**	**121%**	-	-	**26%**	**0%**	**4%**	**0%**	**6%**	**3%**	**7%**	**7%**
								Number of Parameters exceeding criteria*:	**3**																			
AMQ-ENV-70		IVR14-015	82.6	93	0a	Ultramafic	Waste	OP	24	28000	780	5	38000	530	0.7	77	540	85	0.36	2	< 0.7	15000	< 0.5	62	120	0.03	0.02	55	20
AMQ-ENV-70	Riffle	IVR14-015	82.6	93	0a	Ultramafic	Waste	OP	44	29000	910	5	42000	600	0.2	43	580	88	0.46	1.8	< 0.7	730	< 0.5	62	130	< 0.02	0.02	59	24
								RPD	**59%**	**4%**	**15%**	**0%**	**10%**	**12%**	**111%**	**57%**	**7%**	**3%**	**24%**	**11%**	-	**181%**	-	**0%**	**8%**	-	**0%**	**7%**	**18%**
								Number of Parameters exceeding criteria*:	**6**																			
AMQ-ENV-49		IVR14-016	106.5	115.5	0a	Ultramafic	Waste	OP	41	86000	11000	15	25000	2400	0.3	600	870	99	1.1	3.2	< 0.7	13000	< 0.5	71	860	0.25	0.032	89	48
AMQ-ENV-49	Riffle	IVR14-016	106.5	115.5	0a	Ultramafic	Waste	OP	54	120000	12000	17	32000	3000	0.4	540	1000	120	1.9	3.8	< 0.7	3100	< 0.5	81	930	0.25	0.039	99	57
								RPD	**27%**	**33%**	**9%**	**13%**	**25%**	**22%**	**29%**	**11%**	**14%**	**19%**	**53%**	**17%**	-	**123%**	-	**13%**	**8%**	**0%**	**20%**	**11%**	**17%**
								Number of Parameters exceeding criteria*:	**2**																			
AMQ-ENV-40		IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	20	57000	5700	8	6000	1100	1.3	170	20	380	3.6	0.8	< 0.7	11000	< 0.5	7.9	360	0.24	0.61	11	36
AMQ-ENV-40	Duplicate	IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	19	55000	6100	7	5700	1100	1.2	120	17	360	3.5	< 0.8	< 0.7	1600	< 0.5	6.8	370	0.23	0.56	11	33
								RPD	**5%**	**4%**	**7%**	**13%**	**5%**	**0%**	**8%**	**34%**	**16%**	**5%**	**3%**	-	-	**149%**	-	**15%**	**3%**	**4%**	**9%**	**0%**	**9%**
								Number of Parameters exceeding criteria*:	**1**																			
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	21	46000	7800	19	10000	760	2.6	560	22	640	9	< 0.8	< 0.7	9200	< 0.5	8.6	890	0.66	2.8	29	54
AMQ-ENV-28	Duplicate	IVR14-120	92	102	S3C	Greywacke	Waste	OP	20	43000	7500	15	9400	750	2.3	280	19	600	8.2	< 0.8	< 0.7	1500	< 0.5	6.8	870	0.59	2.2	26	49
								RPD	**5%**	**7%**	**4%**	**24%**	**6%**	**1%**	**12%**	**67%**	**15%**	**6%**	**9%**	-	-	**144%**	-	**23%**	**2%**	**11%**	**24%**	**11%**	**10%**
								Number of Parameters exceeding criteria*:	**6**																			
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	27	50000	6500	14	8800	810	5.1	160	27	600	13	0.9	< 0.7	1200	< 0.5	5.1	810	0.58	2.3	26	53
AMQ-ENV-28	Duplicate	IVR14-120	92	102	S3C	Greywacke	Waste	OP	29	48000	7100	16	9300	780	2.6	380	24	650	12	0.9	< 0.7	5400	< 0.5	6.9	750	0.64	2.7	26	52
								RPD	**7%**	**4%**	**9%**	**13%**	**6%**	**4%**	**65%**	**81%**	**12%**	**8%**	**8%**	**0%**	-	**127%**	-	**30%**	**8%**	**10%**	**16%**	**0%**	**2%**
								Number of Parameters exceeding criteria*:	**6**																			

Note: *RPD Criteria for ABA, Bulk Metals and WRA analysis is 35%

Appendix D.1
QAQC Results for ABA, WRA and Total Metals
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

									WRA + ICP													
Sample ID	Duplicate Description	Borehole ID	Sample Depth (m) From	Sample Depth (m) To	Rock Code	Rock Name	Waste Type	Sample Location	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	68.4	14	7.38	2.07	0.57	2.4	3.22	0.4	0.17	0.11	< 0.01	< 0.01	2.64	101.4
AMQ-ENV-28	Riffle	IVR14-120	92	102	S3C	Greywacke	Waste	OP	65.2	13.7	8.26	2.14	0.54	2.26	3.16	0.37	0.17	0.18	< 0.01	0.01	3.29	99.3
								RPD	**5%**	**2%**	**11%**	**3%**	**5%**	**6%**	**2%**	**8%**	**0%**	**48%**	-	-	**22%**	**2%**
								Number of Parameters exceeding criteria*:	**16**													
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	66.7	13.8	7.26	2.09	0.56	2.32	3.13	0.4	0.16	0.13	< 0.01	0.01	2.7	99.3
AMQ-ENV-28	Riffle	IVR14-120	92	102	S3C	Greywacke	Waste	OP	65.4	13.4	8.39	2.02	0.5	2.26	3.17	0.38	0.16	0.16	0.02	< 0.01	3.2	99.1
								RPD	**2%**	**3%**	**14%**	**3%**	**11%**	**3%**	**1%**	**5%**	**0%**	**21%**	-	-	**17%**	**0%**
								Number of Parameters exceeding criteria*:	**14**													
AMQ-ENV-62		IVR14-092	69.3	79.5	0b	Ultramafic	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-62	Riffle	IVR14-092	69.3	79.5	0b	Ultramafic	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
									-	-	-	-	-	-	-	-	-	-	-	-	-	-
								Number of Parameters exceeding criteria*:	**3**													
AMQ-ENV15-142		AMQ15-481-03	254	259	Ore	Ore	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-142	Riffle	AMQ15-481-03	254	259	Ore	Ore	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
									-	-	-	-	-	-	-	-	-	-	-	-	-	-
								Number of Parameters exceeding criteria*:	**11**													
AMQ-ENV-40		IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	74.2	4.18	13.5	1.76	1.62	0.23	0.87	0.11	0.1	0.35	< 0.01	< 0.01	2.14	99.1
AMQ-ENV-40	Riffle	IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	78.5	3.87	9.74	1.3	1.42	0.25	0.92	0.1	0.11	0.22	0.02	< 0.01	2.4	98.9
								RPD	**6%**	**8%**	**32%**	**30%**	**13%**	**8%**	**6%**	**10%**	**10%**	**46%**	-	-	**11%**	**0%**
								Number of Parameters exceeding criteria*:	**16**													
AMQ-ENV-40		IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	75.3	4.23	13.7	1.76	1.6	0.25	0.91	0.11	0.1	0.36	< 0.01	< 0.01	2.35	100.7
AMQ-ENV-40	Riffle	IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	74	4.71	12.9	1.8	1.64	0.18	0.96	0.13	0.15	0.32	0.02	< 0.01	2.38	99.2
								RPD	**2%**	**11%**	**6%**	**2%**	**2%**	**33%**	**5%**	**17%**	**40%**	**12%**	-	-	**1%**	**2%**
								Number of Parameters exceeding criteria*:	**8**													
AMQ-ENV-20		IVR14-114	190	199.1	S3C	Greywacke	Waste	OP	61.9	17.7	5.6	2.23	2.29	4.02	3.27	0.55	0.17	0.1	< 0.01	0.02	1.97	99.8
AMQ-ENV-20	Riffle	IVR14-114	190	199.1	S3C	Greywacke	Waste	OP	61.3	17.9	5.61	2.33	2.15	3.7	3.43	0.58	0.17	0.1	0.02	0.02	1.82	99.2
								RPD	**1%**	**1%**	**0%**	**4%**	**6%**	**8%**	**5%**	**5%**	**0%**	**0%**	-	**0%**	**8%**	**1%**
								Number of Parameters exceeding criteria*:	**5**													
AMQ-ENV-29		IVR14-120	33	42.1	S3C	Greywacke	Waste	OP	77.3	3.11	11.4	1.25	0.85	0.2	0.87	0.07	0.1	0.26	< 0.01	< 0.01	3.83	99.3
AMQ-ENV-29	Riffle	IVR14-120	33	42.1	S3C	Greywacke	Waste	OP	74.5	4.12	12	1.44	0.46	0.3	1.02	0.11	0.1	0.27	0.01	< 0.01	4.32	98.7
								RPD	**4%**	**28%**	**5%**	**14%**	**60%**	**40%**	**16%**	**44%**	**0%**	**4%**	-	-	**12%**	**1%**
								Number of Parameters exceeding criteria*:	**15**													
AMQ-ENV-53		IVR14-084	150	160.5	S3C	Greywacke	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-53	Riffle	IVR14-084	150	160.5	S3C	Greywacke	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
									-	-	-	-	-	-	-	-	-	-	-	-	-	-
								Number of Parameters exceeding criteria*:	**6**													
AMQ-ENV15-097		IVR14-091	190	200	S3C	Greywacke	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-097	Riffle	IVR14-091	190	200	S3C	Greywacke	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
									-	-	-	-	-	-	-	-	-	-	-	-	-	-
								Number of Parameters exceeding criteria*:	**15**													
AMQ-ENV15-025		IVR14-141	139	148	S3C	Greywacke	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-025	Riffle	IVR14-141	139	148	S3C	Greywacke	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
									-	-	-	-	-	-	-	-	-	-	-	-	-	-
								Number of Parameters exceeding criteria*:	**27**													
AMQ-ENV-53		IVR14-084	150	160.5	S3C	Greywacke	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-53	Riffle	IVR14-084	150	160.5	S3C	Greywacke	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
									-	-	-	-	-	-	-	-	-	-	-	-	-	-
								Number of Parameters exceeding criteria*:	**6**													
AMQ-ENV15-056		IVR14-148	37	47	S10	Chert	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-056	Riffle	IVR14-148	37	47	S10	Chert	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
									-	-	-	-	-	-	-	-	-	-	-	-	-	-
								Number of Parameters exceeding criteria*:	**12**													
AMQ-ENV15-027		AMQ15-164	45	55	S9E	Iron Formation	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-027	Riffle	AMQ15-164	45	55	S9E	Iron Formation	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
									-	-	-	-	-	-	-	-	-	-	-	-	-	-
								Number of Parameters exceeding criteria*:	**7**													
AMQ-ENV-47		IVR14-016	130	140	S9E	Iron Formation	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-47	Riffle	IVR14-016	130	140	S9E	Iron Formation	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
									-	-	-	-	-	-	-	-	-	-	-	-	-	-
								Number of Parameters exceeding criteria*:	**4**													
AMQ-ENV-01		IVR14-130	10.5	19.8	1b	Mafic Volcanics	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-01	Riffle	IVR14-130	10.5	19.8	1b	Mafic Volcanics	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
									-	-	-	-	-	-	-	-	-	-	-	-	-	-
								Number of Parameters exceeding criteria*:	**3**													
AMQ-ENV-70		IVR14-015	82.6	93	0a	Ultramafic	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-70	Riffle	IVR14-015	82.6	93	0a	Ultramafic	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
									-	-	-	-	-	-	-	-	-	-	-	-	-	-
								Number of Parameters exceeding criteria*:	**6**													
AMQ-ENV-49		IVR14-016	106.5	115.5	0a	Ultramafic	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-49	Riffle	IVR14-016	106.5	115.5	0a	Ultramafic	Waste	OP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
									-	-	-	-	-	-	-	-	-	-	-	-	-	-
								Number of Parameters exceeding criteria*:	**2**													
AMQ-ENV-40		IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	75.3	4.23	13.7	1.76	1.6	0.25	0.91	0.11	0.1	0.36	< 0.01	< 0.01	2.35	100.7
AMQ-ENV-40	Duplicate	IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	74.2	4.18	13.5	1.76	1.62	0.23	0.87	0.11	0.1	0.35	< 0.01	< 0.01	2.14	99.1
								RPD	**1%**	**1%**	**1%**	**0%**	**1%**	**8%**	**4%**	**0%**	**0%**	**3%**	-	-	**9%**	**2%**
								Number of Parameters exceeding criteria*:	**1**													
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	68.4	14	7.38	2.07	0.57	2.4	3.22	0.4	0.17	0.11	< 0.01	< 0.01	2.64	101.4
AMQ-ENV-28	Duplicate	IVR14-120	92	102	S3C	Greywacke	Waste	OP	66.7	13.8	7.26	2.09	0.56	2.32	3.13	0.4	0.16	0.13	< 0.01	0.01	2.7	99.3
								RPD	**3%**	**1%**	**2%**	**1%**	**2%**	**3%**	**3%**	**0%**	**6%**	**17%**	-	-	**2%**	**2%**
								Number of Parameters exceeding criteria*:	**6**													
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	65.4	13.4	8.39	2.02	0.5	2.26	3.17	0.38	0.16	0.16	0.02	< 0.01	3.2	99.1
AMQ-ENV-28	Duplicate	IVR14-120	92	102	S3C	Greywacke	Waste	OP	65.2	13.7	8.26	2.14	0.54	2.26	3.16	0.37	0.17	0.18	< 0.01	0.01	3.29	99.3
								RPD	**0%**	**2%**	**2%**	**6%**	**8%**	**0%**	**0%**	**3%**	**6%**	**12%**	-	-	**3%**	**0%**
								Number of Parameters exceeding criteria*:	**6**													

Note: *RPD Criteria for ABA, Bulk Metals and WRA analysis is 35%

Appendix D.2
QAQC Results for SFE
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

									SFE																		
Sample ID	Duplicate Description	Borehole ID	Sample Depth (m)		Rock Code	Rock Name	Waste Type	Sample Location	Final pH	Alkalinity mg/L as CaCO3	Conductivity µS/cm	Fluoride mg/L	Chloride mg/L	Sulphate mg/L	Phosphorus (total reactive) mg/L	Mercury mg/L	Silver mg/L	Aluminum mg/L	Arsenic mg/L	Barium mg/L	Boron mg/L	Beryllium mg/L	Bismuth mg/L	Calcium mg/L	Cadmium mg/L	Cobalt mg/L	Chromium mg/L	Copper mg/L	Iron mg/L	Potassium mg/L
			From	To																									
AMQ-ENV-20		IVR14-114	190	199.1	S3C	Greywacke	Waste	OP	9.76	41	81	0.18	< 2	< 2	0.03	< 0.00001	< 0.000002	2.25	0.0596	0.0181	0.0573	0.000015	0.000017	1.88	< 0.000003	0.000214	0.0012	0.0004	0.345	8.15
AMQ-ENV-20	Riffle	IVR14-114	190	199.1	S3C	Greywacke	Waste	OP	9.82	42	86	0.21	1	2	< 0.03	< 0.00001	< 0.000002	1.63	0.0475	0.00672	0.046	0.000008	< 0.000007	1.67	0.000003	0.000092	0.00043	0.00021	0.23	9.72
								RPD	**1%**	**2%**	**6%**	**15%**	-	-	-	-	-	**32%**	**23%**	**92%**	**22%**	**61%**	-	**12%**	-	**80%**	**94%**	**62%**	**40%**	**18%**
								Number of Parameters exceeding criteria*:	**19**																				
AMQ-ENV-29		IVR14-120	33	42.1	S3C	Greywacke	Waste	OP	8	64	327	0.09	< 2	43	< 0.03	< 0.00001	0.000043	0.02	0.0052	0.00707	0.0125	< 0.000007	0.000011	29.8	< 0.000003	0.000047	< 0.00003	0.00022	0.005	30.7
AMQ-ENV-29	Riffle	IVR14-120	33	42.1	S3C	Greywacke	Waste	OP	7.86	83	503	0.17	39	110	< 0.03	< 0.00001	0.00003	0.007	0.005	0.0205	0.057	< 0.000007	< 0.000007	44.2	0.000005	< 0.000004	0.00012	0.00065	0.008	55.2
								RPD	**2%**	**26%**	**42%**	**62%**	-	**88%**	-	-	**36%**	**96%**	**4%**	**97%**	**128%**	-	-	**39%**	-	-	-	**99%**	**46%**	**57%**
								Number of Parameters exceeding criteria*:	**24**																				
AMQ-ENV15-049		IVR14-141	13	22	S3S	Greywacke	Waste	OP	9.97	46	101	0.16	1	1	0.03	0.00001	0.000002	0.077	0.0045	0.0123	0.0219	0.000007	0.000007	4.42	0.000003	0.000091	0.0011	0.00012	0.068	10.4
AMQ-ENV15-049	Riffle	IVR14-141	13	22	S3S	Greywacke	Waste	OP	9.98	48	104	0.18	1	1	0.03	0.00001	0.000002	0.075	0.007	0.0102	0.0168	0.000007	0.000007	3.91	0.000003	0.000092	0.00119	0.00025	0.072	11.5
								RPD	**0%**	**4%**	**3%**	**12%**	**0%**	**0%**	**0%**	**0%**	**0%**	**3%**	**43%**	**19%**	**26%**	**0%**	**0%**	**12%**	**0%**	**1%**	**8%**	**70%**	**6%**	**10%**
								Number of Parameters exceeding criteria*:	**6**																				
AMQ-ENV15-027		AMQ15-164	45	55	S9E	Iron Formation	Waste	OP	8.93	77	165	0.08	20	7	-	< 0.00001	0.000027	0.122	5.38	0.00401	0.016	< 0.000007	0.000007	13.4	0.000004	0.000161	0.00045	0.00027	0.011	21.2
AMQ-ENV15-027	Riffle	AMQ15-164	45	55	S9E	Iron Formation	Waste	OP	9.44	28	94	0.1	9	< 1	-	< 0.00001	0.00001	0.334	1.43	0.00327	0.0066	< 0.000007	< 0.000007	7.14	< 0.000003	0.000053	0.00036	0.00014	0.031	12.7
								6%	**93%**	**55%**	**22%**	**76%**	-	-	-	**92%**	**93%**	**116%**	**20%**	**83%**	-	-	**61%**	-	**101%**	**22%**	**63%**	**95%**	**50%**
								Number of Parameters exceeding criteria*:	**26**																				
AMQ-ENV-47		IVR14-016	130	140	S9E	Iron Formation	Waste	OP	9.14	55	188	0.09	7	8	-	< 0.00001	< 0.000002	0.028	7.49	0.00796	0.015	< 0.000007	< 0.000007	6.58	< 0.000003	0.000077	0.0077	0.00026	< 0.007	40.5
AMQ-ENV-47	Riffle	IVR14-016	130	140	S9E	Iron Formation	Waste	OP	9.34	53	168	0.1	< 2	12	-	< 0.00001	0.000002	0.0412	7.11	0.00824	0.0252	< 0.000007	< 0.000007	5.47	< 0.000003	0.000052	0.0127	0.00012	0.008	40
								2%	**4%**	**11%**	**11%**	-	**40%**	-	-	-	**38%**	**5%**	**3%**	**51%**	-	-	**18%**	-	**39%**	**49%**	**74%**	-	**1%**
								Number of Parameters exceeding criteria*:	**15**																				
AMQ-ENV-01		IVR14-130	10.5	19.8	1b	Mafic Volcanics	Waste	OP	9.2	40	222	0.1	2	41	-	< 0.00001	< 0.000002	0.045	0.694	0.0822	0.011	< 0.000007	< 0.000007	12.6	< 0.000003	0.000071	0.00026	0.00034	< 0.007	35.4
AMQ-ENV-01	Riffle	IVR14-130	10.5	19.8	1b	Mafic Volcanics	Waste	OP	9.26	41	205	0.09	< 2	50	-	< 0.00001	< 0.000002	0.02	0.848	0.0905	0.0164	< 0.000007	< 0.000007	12.2	< 0.000003	0.000129	0.00035	0.00014	< 0.002	30.4
								1%	**2%**	**8%**	**11%**	-	**20%**	-	-	-	**77%**	**20%**	**10%**	**39%**	-	-	**3%**	-	**58%**	**30%**	**83%**	-	**15%**
								Number of Parameters exceeding criteria*:	**9**																				
AMQ-ENV-70		IVR14-015	82.6	93	0a	Ultramafic	Waste	OP	9.19	34	168	0.07	7	24	-	< 0.00001	< 0.000002	0.017	3.29	0.00682	0.018	< 0.000007	< 0.000007	11.6	< 0.000003	0.000037	0.00035	0.0003	< 0.007	13.7
AMQ-ENV-70	Riffle	IVR14-015	82.6	93	0a	Ultramafic	Waste	OP	9.38	38	130	0.09	6.6	13	-	< 0.00001	< 0.000002	0.0185	2.41	0.00509	0.0261	< 0.000007	< 0.000007	7.54	< 0.000003	0.000024	0.00055	0.00019	< 0.007	17.2
								2%	**11%**	**26%**	**25%**	**6%**	**59%**	-	-	-	**8%**	**31%**	**29%**	**37%**	-	-	**42%**	-	**43%**	**44%**	**45%**	-	**23%**
								Number of Parameters exceeding criteria*:	**20**																				
AMQ-ENV-62		IVR14-092	69.3	79.5	0b	Ultramafic	Waste	OP	9.49	91	149	0.16	3	3	-	0.00002	< 0.000002	0.101	0.456	0.0344	0.011	< 0.000007	< 0.000007	3.47	< 0.000003	0.000044	0.00044	0.00054	< 0.007	33.5
AMQ-ENV-62	Riffle	IVR14-092	69.3	79.5	0b	Ultramafic	Waste	OP	9.63	62	138	0.19	3	3	-	< 0.00001	0.000002	0.133	0.375	0.0291	0.0209	< 0.000007	< 0.000007	2.84	< 0.000003	0.000048	0.00066	0.00025	< 0.007	33.9
								1%	**38%**	**8%**	**17%**	**0%**	**0%**	-	-	-	**27%**	**19%**	**17%**	**62%**	-	-	**20%**	-	**9%**	**40%**	**73%**	-	**1%**
								Number of Parameters exceeding criteria*:	**13**																				
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	6.58	3	130	0.06	< 2	44	< 0.03	< 0.00001	0.00001	< 0.01	0.0309	0.00844	0.0156	0.000007	< 0.000007	3.25	0.000074	0.00781	< 0.00003	0.00027	0.007	15.1
AMQ-ENV-28	Duplicate	IVR14-120	92	102	S3C	Greywacke	Waste	OP	6.89	15	200	0.12	3	63	< 0.03	< 0.00001	< 0.000002	0.006	0.0241	0.0118	0.051	< 0.000007	< 0.000007	4.99	0.00003	0.00724	0.00009	0.00008	< 0.007	18.9
								RPD	**5%**	**133%**	**42%**	**67%**	-	**36%**	-	-	-	**25%**	**33%**	**106%**	-	-	**42%**	**85%**	**8%**	-	**109%**	-	**22%**
								Number of Parameters exceeding criteria*:	**18**																				
AMQ-ENV15-009		AMQ15-232	92	102	S3C	Greywacke	Waste	OP	9.02	38	143	0.12	22	1	0.03	0.00001	0.000009	0.088	0.122	0.00164	0.0212	0.000007	0.000019	8.94	0.000003	0.000032	0.00004	0.00016	0.026	10.1
AMQ-ENV15-009	Duplicate	AMQ15-232	92	102	S3C	Greywacke	Waste	OP	9.02	38	143	0.1	23	1	0.03	0.00001	0.000189	0.055	0.171	0.00175	0.0169	0.000007	0.000045	9.7	0.000003	0.000059	0.00003	0.00012	0.027	8.9
								RPD	**0%**	**0%**	**0%**	**18%**	**4%**	**0%**	**0%**	**0%**	**182%**	**46%**	**33%**	**6%**	**23%**	**0%**	**81%**	**8%**	**0%**	**59%**	**29%**	**29%**	**4%**	**13%**
								Number of Parameters exceeding criteria*:	**15**																				
AMQ-ENV-40		IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	8.48	41	154	0.1	< 2	10	< 0.03	< 0.00001	0.000008	0.09	0.0074	0.00518	0.0156	< 0.000007	< 0.000007	14.7	< 0.000003	0.000034	< 0.00003	0.00023	0.059	14.6
AMQ-ENV-40	Duplicate	IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	8.43	54	223	0.27	20	27	< 0.03	< 0.00001	0.00001	0.031	0.007	0.0112	0.058	< 0.000007	< 0.000007	16.4	0.000004	< 0.000004	0.00014	0.00012	0.051	21
								RPD	**1%**	**27%**	**37%**	**92%**	-	**92%**	-	-	**22%**	**98%**	**6%**	**74%**	**115%**	-	-	**11%**	-	-	-	**63%**	**15%**	**36%**
								Number of Parameters exceeding criteria*:	**20**																				
AMQ-ENV15-058		IVR14-147	35	45	S10	Chert	Waste	OP	8.18	58	246	0.19	26	30	0.03	0.00001	0.000024	0.052	0.0121	0.0159	0.028	0.000007	0.000018	19.7	0.000003	0.000062	0.00006	0.00021	0.042	23
AMQ-ENV15-058	Duplicate	IVR14-147	35	45	S10	Chert	Waste	OP	8.23	54	239	0.2	26	27	0.03	0.00001	0.000029	0.06	0.0117	0.0154	0.0305	0.000007	0.000018	18.3	0.000004	0.000069	0.0001	0.00011	0.042	22.6
								RPD	**1%**	**7%**	**3%**	**5%**	**0%**	**11%**	**0%**	**0%**	**19%**	**14%**	**3%**	**3%**	**9%**	**0%**	**0%**	**7%**	**29%**	**11%**	**50%**	**63%**	**0%**	**2%**
								Number of Parameters exceeding criteria*:	**9**																				
AMQ-ENV15-061		IVR14-145	242	251	S10	Chert	Waste	OP	9.75	42	90	0.21	1	1	0.03	0.00001	0.000002	0.944	0.0145	0.00624	0.0209	0.000007	0.000007	3.29	0.000003	0.000092	0.00016	0.00105	0.183	5.52
AMQ-ENV15-061	Duplicate	IVR14-145	242	251	S10	Chert	Waste	OP	9.73	41	89	0.22	2	1	0.03	0.00001	0.000002	0.983	0.0267	0.00645	0.021	0.000007	0.000007	3.34	0.000003	0.000108	0.00013	0.00019	0.193	5.6
								RPD	**0%**	**2%**	**1%**	**5%**	**67%**	**0%**	**0%**	**0%**	**0%**	**4%**	**59%**	**3%**	**0%**	**0%**	**0%**	**2%**	**0%**	**16%**	**21%**	**139%**	**5%**	**1%**
								Number of Parameters exceeding criteria*:	**5**																				
AMQ-ENV15-086		IVR14-016	130	140	S9E	Iron Formation	Waste	OP	9.78	44	129	0.06	5	2	1.77	0.00001	0.000002	0.04	4.9	0.0103	0.0163	0.000007	0.000007	4.89	0.000003	0.000119	0.00456	0.00041	0.034	28.1
AMQ-ENV15-086	Duplicate	IVR14-016	130	140	S9E	Iron Formation	Waste	OP	9.78	44	137	0.08	6	3	2.18	0.00001	0.000032	0.039	5.77	0.00988	0.0177	0.000007	0.000007	4.68	0.000003	0.000171	0.00515	0.00019	0.04	29.6
								RPD	**0%**	**0%**	**6%**	**29%**	**18%**	**40%**	**21%**	**0%**	**176%**	**3%**	**16%**	**4%**	**8%**	**0%**	**0%**	**4%**	**0%**	**36%**	**12%**	**73%**	**16%**	**5%**
								Number of Parameters exceeding criteria*:	**10**																				
AMQ-ENV15-068		IVR14-131	418	428	0a	Ultramafic	Waste	OP	9.78	38	97	0.07	3	1	0.25	0.00001	0.000033	0.048	1.19	0.021	0.0622	0.000007	0.000007	4.64	0.000003	0.000059	0.00066	0.00017	0.008	14.6
AMQ-ENV15-068	Duplicate	IVR14-131	418	428	0a	Ultramafic	Waste	OP	9.68	38	104	0.07	3	1	0.34	0.00001	0.000002	0.036	1.37	0.0198	0.0579	0.000007	0.000007	5.27	0.000003	0.000062	0.00064	0.00016	0.007	13.1
								RPD	**1%**	**0%**	**7%**	**0%**	**0%**	**0%**	**31%**	**0%**	**177%**	**29%**	**14%**	**6%**	**7%**	**0%**	**0%**	**13%**	**0%**	**5%**	**3%**	**6%**	**13%**	**11%**
								Number of Parameters exceeding criteria*:	**7**																				
AMQ-ENV-49		IVR14-016	106.5	115.5	0a	Ultramafic	Waste	OP	8.86	35	721	0.09	8	230	-	0.00001	0.000005	0.096	4.7	0.00609	0.012	< 0.000007	< 0.000007	32.3	< 0.000003	0.000239	0.00026	0.00064	< 0.007	41.4
AMQ-ENV-49	Duplicate	IVR14-016	106.5	115.5	0a	Ultramafic	Waste	OP	9.19	42	464	0.11	3.1	130	-	< 0.00001	0.000008	0.16	4.67	0.00206	0.0176	< 0.000007	< 0.000007	11.3	< 0.000003	0.000086	0.00052	0.00034	< 0.007	28.4
								4%	**18%**	**43%**	**20%**	**88%**	**56%**	-	-	**46%**	**50%**	**1%**	**99%**	**38%**	-	-	**96%**	-	**94%**	**67%**	**61%**	-	**37%**
								Number of Parameters exceeding criteria*:	**23**																				

Note: *RPD Criteria for SFE analysis is 20%

Appendix D.2
QAQC Results for SFE
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

									SFE															
Sample ID	Duplicate Description	Borehole ID	Sample Depth (m)		Rock Code	Rock Name	Waste Type	Sample Location	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Silicon	Tin	Strontium	Titanium	Thallium	Uranium	Vanadium	Zinc
			From	To					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMQ-ENV-20		IVR14-114	190	199.1	S3C	Greywacke	Waste	OP	0.00168	0.256	0.0065	0.00032	10.8	0.0007	0.056	0.00036	0.0026	< 0.001	5.99	0.00005	0.006	0.0183	0.000006	0.000692	0.0133	< 0.001
AMQ-ENV-20	Riffle	IVR14-114	190	199.1	S3C	Greywacke	Waste	OP	0.00204	0.192	0.00434	0.00396	11.6	0.0004	0.037	0.0002	0.0016	0.00007	5.04	0.00007	0.00422	0.0109	< 0.000005	0.000582	0.0116	< 0.002
								RPD	19%	29%	40%	170%	7%	55%	41%	57%	48%	-	17%	33%	35%	51%	-	17%	14%	-
							Number of Parameters exceeding criteria*:	19																			
AMQ-ENV-29		IVR14-120	33	42.1	S3C	Greywacke	Waste	OP	0.00382	3.19	0.0872	0.00541	1.8	0.0014	0.012	< 0.00001	0.0022	0.001	2.65	0.00003	0.0481	0.0001	0.00001	0.000547	0.00007	< 0.001
AMQ-ENV-29	Riffle	IVR14-120	33	42.1	S3C	Greywacke	Waste	OP	0.00498	4.58	0.129	0.012	8.92	0.0018	< 0.003	0.00006	0.0017	0.0015	3.54	0.00007	0.067	0.00013	< 0.000005	0.0006	0.00006	< 0.002
								RPD	26%	36%	39%	76%	133%	25%	-	-	26%	40%	29%	80%	33%	26%	-	9%	15%	-
							Number of Parameters exceeding criteria*:	24																			
AMQ-ENV15-049		IVR14-141	13	22	S3S	Greywacke	Waste	OP	0.000177	0.418	0.00131	0.00062	8.28	0.0003	0.01	0.00002	0.0023	0.00017	10.8	0.00001	0.0241	0.00193	0.000005	0.000024	0.0179	0.002
AMQ-ENV15-049	Riffle	IVR14-141	13	22	S3S	Greywacke	Waste	OP	0.00018	0.385	0.00139	0.00065	8.72	0.0003	0.011	0.00003	0.0027	0.00004	10.2	0.00001	0.0214	0.00276	0.000005	0.000023	0.0186	0.002
								RPD	2%	8%	6%	5%	5%	0%	10%	40%	16%	124%	6%	0%	12%	35%	0%	4%	4%	0%
							Number of Parameters exceeding criteria*:	6																			
AMQ-ENV15-027		AMQ15-164	45	55	S9E	Iron Formation	Waste	OP	0.00202	2.37	0.00367	0.00059	1.79	0.013	0.004	0.00002	0.0596	0.0004	4.65	0.00006	0.0231	< 0.00005	< 0.000005	0.000025	0.00893	< 0.002
AMQ-ENV15-027	Riffle	AMQ15-164	45	55	S9E	Iron Formation	Waste	OP	0.0011	0.792	0.0016	0.00015	0.91	0.0019	< 0.003	< 0.00001	0.0195	0.00008	3	< 0.00001	0.021	0.00024	< 0.000005	0.000008	0.00552	< 0.002
									59%	100%	79%	119%	65%	149%	-	-	101%	133%	43%	-	10%	-	-	103%	47%	-
							Number of Parameters exceeding criteria*:	26																			
AMQ-ENV-47		IVR14-016	130	140	S9E	Iron Formation	Waste	OP	0.00154	2.7	0.00065	0.00018	1.59	0.0032	0.01	< 0.00001	0.0403	0.00088	7.76	0.00009	0.0522	0.00013	0.000012	0.00001	0.03239	< 0.002
AMQ-ENV-47	Riffle	IVR14-016	130	140	S9E	Iron Formation	Waste	OP	0.000901	1.77	0.00043	0.00024	1.62	0.0021	0.011	< 0.00001	0.0528	< 0.001	7.49	0.00002	0.0526	0.00036	< 0.000005	0.000078	0.0384	< 0.001
									52%	42%	41%	29%	2%	42%	10%	-	27%	-	4%	127%	1%	94%	-	155%	17%	-
							Number of Parameters exceeding criteria*:	15																			
AMQ-ENV-01		IVR14-130	10.5	19.8	1b	Mafic Volcanics	Waste	OP	0.00115	3.82	0.00094	0.00095	1.76	0.0014	0.016	0.00002	0.0021	0.00014	4.03	0.00015	0.106	< 0.00005	0.000032	0.000055	0.00637	< 0.002
AMQ-ENV-01	Riffle	IVR14-130	10.5	19.8	1b	Mafic Volcanics	Waste	OP	0.00127	3.87	0.00088	0.00123	1.56	0.0016	< 0.009	< 0.00001	0.0033	< 0.001	4.45	0.00004	0.109	< 0.00005	0.000042	0.000064	0.00614	< 0.001
									10%	1%	7%	26%	12%	13%	-	-	44%	-	10%	116%	3%	-	27%	15%	4%	-
							Number of Parameters exceeding criteria*:	9																			
AMQ-ENV-70		IVR14-015	82.6	93	0a	Ultramafic	Waste	OP	0.00013	6.66	0.00037	0.00041	1.2	0.0015	0.005	0.00001	0.0275	0.00042	5.89	0.0001	0.11	< 0.00005	0.000019	0.00001	0.0217	< 0.002
AMQ-ENV-70	Riffle	IVR14-015	82.6	93	0a	Ultramafic	Waste	OP	0.000098	4.27	0.00025	0.00034	1.09	0.0009	0.006	< 0.00001	0.0357	< 0.001	5.72	0.00006	0.0771	0.0001	0.000008	0.000002	0.0198	< 0.001
									28%	44%	39%	19%	10%	50%	18%	-	26%	-	3%	50%	35%	-	81%	133%	9%	-
							Number of Parameters exceeding criteria*:	20																			
AMQ-ENV-62		IVR14-092	69.3	79.5	0b	Ultramafic	Waste	OP	0.000842	1.02	0.00034	0.00069	3.71	0.0006	0.01	0.00003	0.003	0.00014	4.87	0.00022	0.0621	0.00006	0.000022	0.000022	0.0158	< 0.002
AMQ-ENV-62	Riffle	IVR14-092	69.3	79.5	0b	Ultramafic	Waste	OP	0.000531	0.836	0.00026	0.00088	3.63	0.0007	0.012	< 0.00001	0.0037	< 0.001	4.59	0.00003	0.0599	0.00035	0.000008	0.000008	0.0168	< 0.001
									45%	20%	27%	24%	2%	15%	18%	-	21%	-	6%	152%	4%	141%	93%	93%	6%	-
							Number of Parameters exceeding criteria*:	13																			
AMQ-ENV-28		IVR14-120	92	102	S3C	Greywacke	Waste	OP	0.00835	2.26	1.22	0.00009	4.82	0.0349	< 0.009	< 0.00001	0.0007	0.004	4.97	0.00002	0.0183	0.00016	0.000047	0.000019	0.00007	< 0.001
AMQ-ENV-28	Duplicate	IVR14-120	92	102	S3C	Greywacke	Waste	OP	0.00977	3.91	1.09	0.0011	11.7	0.0464	< 0.003	< 0.00001	0.0006	0.00448	5.85	0.00004	0.0238	0.00045	< 0.000005	0.000018	0.00006	< 0.002
								RPD	16%	53%	11%	170%	83%	28%	-	-	15%	11%	16%	67%	26%	95%	-	5%	15%	-
							Number of Parameters exceeding criteria*:	18																			
AMQ-ENV15-009		AMQ15-232	92	102	S3C	Greywacke	Waste	OP	0.00145	2.33	0.00398	0.00355	9.09	0.0003	0.003	0.00001	0.003	0.00025	3.61	0.00003	0.0327	0.00029	0.000005	0.000079	0.00032	0.002
AMQ-ENV15-009	Duplicate	AMQ15-232	92	102	S3C	Greywacke	Waste	OP	0.00137	2.14	0.00535	0.00243	7.56	0.0003	0.003	0.00001	0.0029	0.00004	3.91	0.00001	0.0331	0.00021	0.000005	0.0001	0.00044	0.002
								RPD	6%	9%	29%	37%	18%	0%	0%	0%	3%	145%	8%	100%	1%	32%	0%	23%	32%	0%
							Number of Parameters exceeding criteria*:	15																			
AMQ-ENV-40		IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	0.00208	2.11	0.0172	0.0004	0.81	0.0004	< 0.009	0.00004	0.0021	< 0.001	3.38	0.00003	0.0172	0.00045	0.000007	0.00013	0.00019	< 0.001
AMQ-ENV-40	Duplicate	IVR14-118	14	23.2	S3C	Greywacke	Waste	OP	0.0028	2.1	0.00487	0.00702	8.45	0.0003	< 0.003	0.00005	0.0026	0.00024	3.6	0.00005	0.0189	0.0003	< 0.000005	0.00025	0.00019	< 0.002
								RPD	30%	0%	112%	178%	165%	29%	-	22%	21%	-	6%	50%	9%	40%	-	63%	0%	-
							Number of Parameters exceeding criteria*:	20																			
AMQ-ENV15-058		IVR14-147	35	45	S10	Chert	Waste	OP	0.00733	2.58	0.0113	0.00478	8.44	0.0004	0.003	0.00001	0.002	0.00031	2.77	0.00002	0.0422	0.00042	0.000005	0.001	0.00018	0.002
AMQ-ENV15-058	Duplicate	IVR14-147	35	45	S10	Chert	Waste	OP	0.00764	2.23	0.00765	0.00561	8.93	0.0005	0.003	0.00002	0.0021	0.00018	2.83	0.00001	0.0375	0.00043	0.000005	0.000992	0.00023	0.002
								RPD	4%	15%	39%	16%	6%	22%	0%	67%	5%	53%	2%	67%	12%	2%	0%	1%	24%	0%
							Number of Parameters exceeding criteria*:	9																			
AMQ-ENV15-061		IVR14-145	242	251	S10	Chert	Waste	OP	0.000438	0.204	0.00276	0.00027	11.1	0.0002	0.009	0.00013	0.0027	0.00004	4.47	0.00006	0.0102	0.00655	0.000005	0.000488	0.00803	0.002
AMQ-ENV15-061	Duplicate	IVR14-145	242	251	S10	Chert	Waste	OP	0.000427	0.217	0.00301	0.00023	10.1	0.0002	0.008	0.00015	0.0028	0.00004	4.23	0.00001	0.012	0.00703	0.000005	0.000533	0.00796	0.002
								RPD	3%	6%	9%	16%	9%	0%	12%	14%	4%	0%	6%	143%	16%	7%	0%	9%	1%	0%
							Number of Parameters exceeding criteria*:	5																			
AMQ-ENV15-086		IVR14-016	130	140	S9E	Iron Formation	Waste	OP	0.00011	0.724	0.0007	0.00008	1.38	0.0016	0.003	0.00002	0.0274	0.00037	12.6	0.00008	0.0456	0.00086	0.000005	0.000002	0.0268	0.002
AMQ-ENV15-086	Duplicate	IVR14-016	130	140	S9E	Iron Formation	Waste	OP	0.000111	0.788	0.00082	0.00014	1.23	0.0017	0.003	0.00001	0.0305	0.00029	11.7	0.00001	0.0431	0.00101	0.000005	0.000002	0.0287	0.002
								RPD	1%	8%	16%	55%	11%	6%	0%	67%	11%	24%	7%	156%	6%	16%	0%	0%	7%	0%
							Number of Parameters exceeding criteria*:	10																			
AMQ-ENV15-068		IVR14-131	418	428	0a	Ultramafic	Waste	OP	0.000048	0.968	0.0001	0.00008	2.96	0.0005	0.003	0.00001	0.0264	0.00005	7	0.00001	0.0524	0.00005	0.000005	0.000002	0.012	0.002
AMQ-ENV15-068	Duplicate	IVR14-131	418	428	0a	Ultramafic	Waste	OP	0.000055	1.19	0.00011	0.00026	2.7	0.0006	0.003	0.00001	0.0298	0.00004	7.15	0.00001	0.0606	0.00005	0.000005	0.000018	0.0111	0.002
								RPD	14%	21%	10%	106%	9%	18%	0%	0%	12%	22%	2%	0%	15%	0%	0%	160%	8%	0%
							Number of Parameters exceeding criteria*:	7																			
AMQ-ENV-49		IVR14-016	106.5	115.5	0a	Ultramafic	Waste	OP	0.00308	7.78	0.00687	0.00116	75.7	0.0095	0.004	0.00001	0.0556	0.00056	4.05	0.0001	0.132	< 0.00005	< 0.000005	0.00002	0.00815	< 0.002
AMQ-ENV-49	Duplicate	IVR14-016	106.5	115.5	0a	Ultramafic	Waste	OP	0.0016	2.91	0.00217	0.00107	63.7	0.0037	0.005	< 0.00001	0.0454	< 0.001	3.52	0.00003	0.0543	0.00009	< 0.000005	0.000015	0.0113	< 0.001
									63%	91%	104%	8%	17%	88%	22%	-	20%	-	14%	108%	83%	-	-	29%	32%	-
							Number of Parameters exceeding criteria*:	23																			

Note: *RPD Criteria for SFE analysis is 20%

APPENDIX E

Static Test Results

E.1 – Mineralogy

Appendix E.1
Summary of Rietveld Quantitative Analysis X-ray Diffraction Results
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

		AMQ-ENV15-008	AMQ-ENV15-008 Dup	AMQ-ENV15-025	AMQ-ENV15-025 Dup	AMQ-ENV15-107	AMQ-ENV15-107 Dup	AMQ-ENV-63	AMQ-ENV-50	AMQ-ENV15-007	AMQ-ENV15-096
		DEC4503-02	DEC4503-03	DEC4503-04	DEC4503-05	DEC4503-06	DEC4503-07	DEC4503-09	DEC4503-08	DEC4503-01	DEC4503-10
Rock Name:		Greywacke								Chert	
Lithology Code:		S3c	S3c	S3c	S3c	S3c	S3c	S3c	S3s	S10	S10
Mineral Group **Mineral Name**	**Mineral Formula**	wt%	wt%	wt%	wt%	wt%	wt%	wt%	wt%	wt%	wt%
Carbonates											
Siderite	$FeCO_3$	-	-	-	-	-	-	-	-	3.1	0.3
Calcite	$CaCO_3$	1.0	0.8	6.5	6.5	1.2	1.0	7.2	6.1	5.5	2.7
Ankerite	$CaFe(CO_3)_2$	-	-	-	-	-	-	-	1.2	-	-
Silicates											
Quartz	SiO_2	73.4	73.0	52.9	51.1	31.5	32.6	21.3	18.0	25.0	46.6
Stilpnomelane	$K(Fe^{2+},Mg,Fe^{3+})_8(Si,Al)_{12}(O,OH)_{27}•n(H_2O)$	0.7	0.9	6.4	6.3	-	-	-	-	3.5	2.0
Chlorite	$(Fe,(Mg,Mn)_5,Al)(Si_3Al)O_{10}(OH)_8$	6.1	6.2	1.7	2.7	10.0	9.8	20.4	26.2	14.8	11.3
Magnesiohornblende	$Ca_2[Mg_4(Al,Fe^{3+})]Si_7AlO_{22}(OH)_2$	-	-	2.4	2.5	-	-	-	-	4.1	-
Talc	$Mg_3Si_4O_{10}(OH)_2$	-	-	0.8	1.0	-	-	0.4	3.0	5.2	-
Phlogopite	$KMg_3(AlSi_3O_{10})(OH)$	-	-	2.7	1.8	-	-	-	-	18.1	4.4
Albite	$NaAlSi_3O_8$	1.5	1.2	-	-	28.2	26.8	24.0	22.3	13.0	3.3
Orthoclase	$KAlSi_3O_8$	-	-	-	-	1.5	1.8	1.0	1.1	2.7	0.7
Biotite	$K(Mg,Fe)_3(AlSi_3O_{10})(OH)_2$	-	-	2.7	3.5	6.0	5.9	17.3	16.4	2.7	13.3
Muscovite	$KAl_2(AlSi_3O_{10})(OH)_2$	2.9	3.1	-	-	21.5	22.1	-	-	-	7.5
Almandine	$Fe_3Al_2Si_3O_{12}$	3.9	3.9	2.0	2.5	-	-	-	-	-	-
Cummingtonite	$(Mg,Fe)_7Si_8O_{22}(OH)_2$	3.2	3.5	14.7	14.9	-	-	-	-	-	2.4
Actinolite	$Ca_2(Mg,Fe)_5Si_8O_{22}(OH)_2$	1.8	1.9	-	-	-	-	5.2	-	-	-
Diopside	$CaMgSi_2O_6$	-	-	3.5	3.5	-	-	-	-	-	-
Anorthite	$CaAl_2Si_2O_8$	-	-	-	-	-	-	3.1	5.5	-	2.2
Richterite	$Na(CaNa)(Mg,Fe^{2+})_5[Si_8O_{22}](OH)_2$	-	-	-	-	-	-	-	-	-	1.4
Sulphides											
Pyrite	FeS_2	-	-	-	-	-	-	-	-	2.4	-
Pyrrhotite	$Fe_{(1-x)}S$	5.6	5.6	3.7	3.7	-	-	-	-	-	2.1
Sphalerite	ZnS	-	-	-	-	-	-	-	0.2	-	-
	TOTAL	100	100	100	100	100	100	100	100	100	100
Selected chemical characteristics											
NAG pH		2.5	2.5	6.9	6.9	6.8	6.8	-	-	4.0	4.0
CaNP (t CaCO3/1000t)		1		30		3.5		57	60	20	14
NP (t CaCO3/1000t)		28		65		15		84	87	50	35
AP (t CaCO3/1000t)		78		61		6.6		2	3	54	38
Total sulphur content (%)		2.5		1.9		0.21		0.07	0.10	1.73	1.21
Carbonate Net Potential Ratio (CaNPR)		0.0		0.5		0.5		27	20	0.4	0.4
Net Potential Ratio (NPR)		0.36		1.1		2.3		40	29	0.92	0.93
ARD potential*		**PAG**		**PAG**		**PAG**		**non PAG**	**non PAG**	**PAG**	**PAG**

Notes:

*based on MEND 2009

NAG = net acid generation

CaNP = carbonate neutralization potential

NP = neutralization potential

AP = acid potential

ARD = Acid Rock Drainage Potential (per MEND 2009)

Dashes in the X-ray diffraction results indicate that the mineral was not identifed by the analyst and not included in the refinement calculation for the sample.

Échantillon AMQ-ENV-31 (référence URSTM : U49307)

Les minéraux sulfurés sont essentiellement représentés par la pyrrhotite (FeS) et la gesrdorffite (NiAsS) avec des traces de pentlandite ($(Fe,Ni)_9S_8$), pyrite (FeS_2) et de chalcopyrite ($CuFeS_2$) (*figure 1*). La pyrrhotite contient des traces de Ni. La gersdorffite contient du Fe et du Co. Un seul grain de gersdorffite contenant de la Nickéline (NiAs) a été observé (*figure 1)*.

Aucun minéral de gangue silicaté analysé ne contient de l'As. Toutes les microanalyses chimiques des minéraux sulfurés au MEB-EDS sont présentées au *tableau 1*.

Tableau 1 : Microanalyses chimiques des minéraux sulfurés au MEB-EDS de l'échantillon AMQ-ENV-31

	S	Fe	Co	Ni	Cu	As	Sb	Total
Gersdorffite	18.73	6.72	2.42	23.97		48.17		100.01
Gersdorffite	20.63	6.61	3.05	20.49		49.21		99.99
Gersdorffite	21.31	5.33	1.57	18.94		52.85		100
Gersdorffite	20.26	6.85	5.52	17.9		49.48		100.01
Gersdorffite	18.6	5.68	1.2	25.79		48.73		100
Gersdorffite	19.52	7.14	1.8	23.96		47.59		100.01
Gersdorffite	22.68	6.22	2.33	16.39		52.39		100.01
Gersdorffite	21.07	6.05	1.46	18.95		52.48		100.01
Gersdorffite	19.08	7.97	5.03	20.78		47.14		100
Gersdorffite	19.43	5.85	3.44	23.95		47.33		100
Gersdorffite	18.44	5.96		26.37		49.23		100
Gersdorffite	19.84	5.76	2.4	25.08		46.92		100
Gersdorffite	18.91	6.77	1	25.7		47.62		100
Gersdorffite	19.34	7.43	1.44	25.08		46.72		100.01
Gersdorffite	21.69	5.94		19.4		52.97		100
Gersdorffite	22.01	5.65	1.13	17.37		53.84		100
Gersdorffite	20.01	5.86	1.11	22.43		50.57		99.98
Gersdorffite	18.99	5.86	3.24	24.16		47.75		100
Gersdorffite	20.12	1.75		31.84		45.22	1.07	100
Gersdorffite	19.06	7.15	4.76	22.03		47		100
Nickeline				43.17		55.98	0.85	100
Nickeline		0.47		42.32		57.21		100
Nickeline		1.26		29.87		68.86		99.99
Pentlandite	36.54	28.18		35.28				100
Pentlandite	46.1	27.25		26.64				99.99
Pentlandite	42.75	26.91		30.34				100
Pentlandite	47.19	25.66		27.15				100
Pyrite	55.39	42.85		1.76				100
Pyrite	54.72	43.72		1.55				99.99
Pyrite	55.84	44.16						100
Pyrite	55.19	44.81						100
Chalcopyrite	39.43	28.48			32.09			100
Chalcopyrite	38.36	29.46			32.18			100

Microscopie optique

Microscopie électronique

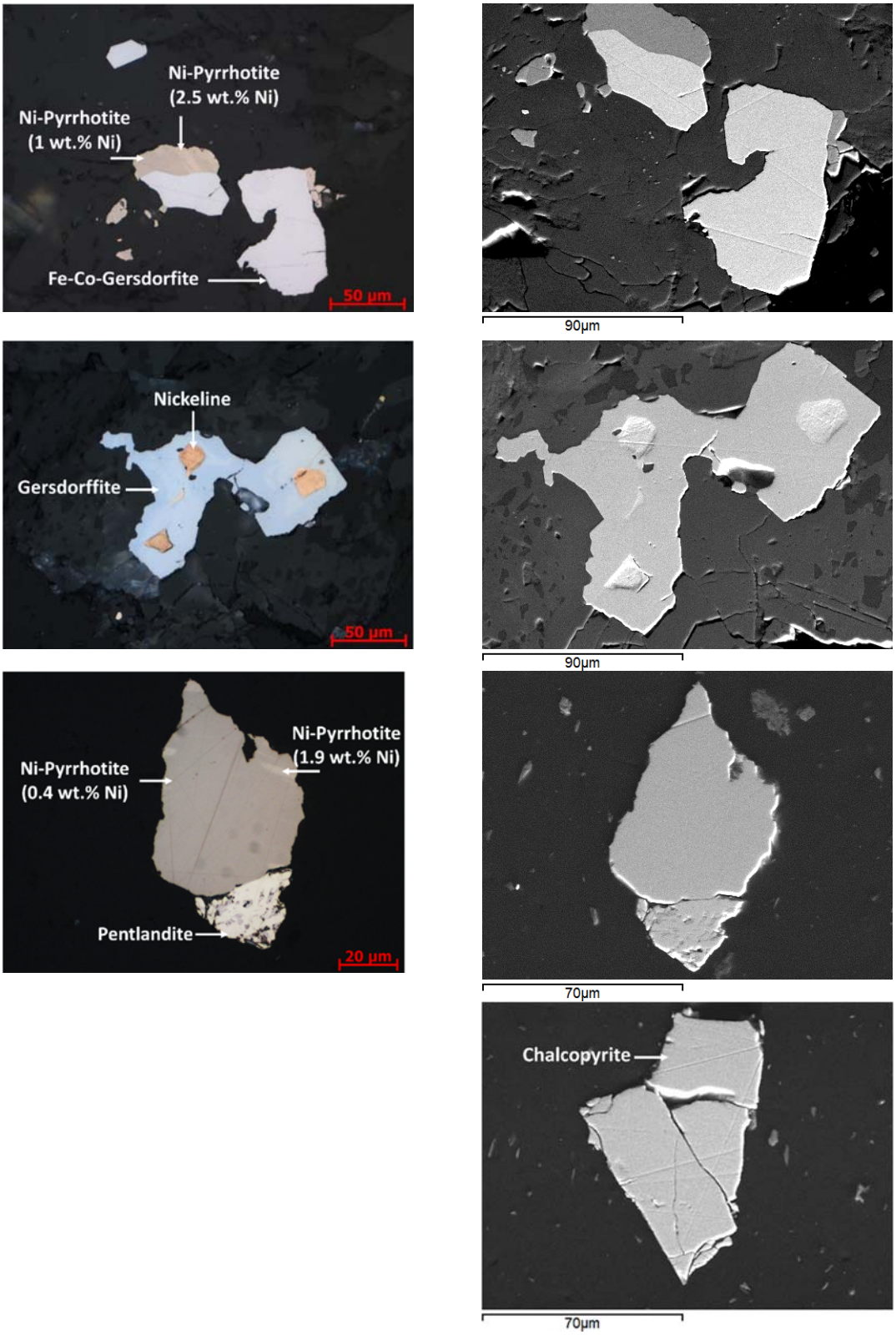


Figure 1 : microphotographies au microscope optique et électronique des minéraux sulfurés dans l'échantillon AMQ-ENV-31

Échantillon AMQ-ENV-125 (référence URSTM : U49309)

Les minéraux sulfurés sont représentés par la pyrrhotite (FeS), la pyrite (FeS_2) et la gersdorffite (NiAsS) avec des traces de pentlandite ($(Fe,Ni)_9S_8$) et de chalcopyrite ($CuFeS_2$) (*figure 2*). Cet échantillon contient plus de pyrite (FeS_2) et moins de gersdorffite (NiAsS) que l'échantillon AMQ-ENV-31.

Aucun minéral de gangue silicaté analysé ne contient de l'As. Toutes les microanalyses chimiques des minéraux sulfurés au MEB-EDS sont présentées au *tableau 2*.

Tableau 2 : Microanalyses chimiques des minéraux sulfurés au MEB-EDS de l'échantillon AMQ-ENV-125

	S	Fe	Co	Ni	As	Cu	Total
Gersdorffite	21.99	6.83	7.87	13.62	49.69		100
Gersdorffite	22.08	10.31	3.43	16.98	47.21		100
Gersdorffite	21.28	8.29	4.73	16.75	48.96		100
Gersdorffite	20.8	9.97	3.85	18.62	46.76		100
Gersdorffite	21.35	6.94	6.23	16.25	49.23		100
Gersdorffite	20.92	5.29	19.81	7.9	46.08		100
Gersdorffite	21.62	11.37		20.42	46.59		100
Gersdorffite	20.18	10.33	2.44	20.27	46.77		100
Gersdorffite	22.47	11.04	3.58	16.18	46.74		100
Gersdorffite	21.09	4.25	22.82	5.95	45.9		100
Gersdorffite	20.47	3.64	24.35	5.66	45.88		100
Gersdorffite	21.33	10.11	2.85	20.27	45.44		100
Gersdorffite	21.01	11.05	1.23	20.55	46.16		100
Gersdorffite	21.74	9.2	2.39	17.47	49.2		100
Gersdorffite	21.55	8.85	3.81	15.6	50.2		100
Gersdorffite	22.45	7.64	7.98	11.93	50.01		100
Gersdorffite	21.78	10.95	4.69	17.46	45.11		100
Pentlandite	39.09	30.09		30.82			100
Pentlandite	36.55	31.19		32.26			100
Pentlandite	38.95	41.25		19.8			100
Pentlandite	39.44	29.63		30.93			100
Pentlandite	36.93	31.82		31.25			100
Pentlandite	42.65	34.77		22.58			100
Pentlandite	39.22	29.68		31.1			100
Pentlandite	38	30.28		31.72			100
Pentlandite	43.73	33.77		22.5			100
Pentlandite	41.16	33.49		25.35			100
Pyrrhotite	42.25	57.75					100
Pyrrhotite	44.97	55.03					100
Pyrrhotite	45.43	54.57					100
Pyrrhotite	42.08	57.92					100
Pyrrhotite	41.94	58.06					100
Pyrrhotite	44.77	55.23					100
Pyrrhotite	47.07	52.93					100
Chalcopyrite	43.09	28.38				28.53	100
Chalcopyrite	40.29	30.07				29.63	100
Pyrite	53.58	46.42					100
Pyrite	56.34	43.66					100

Microscopie optique

Microscopie électronique

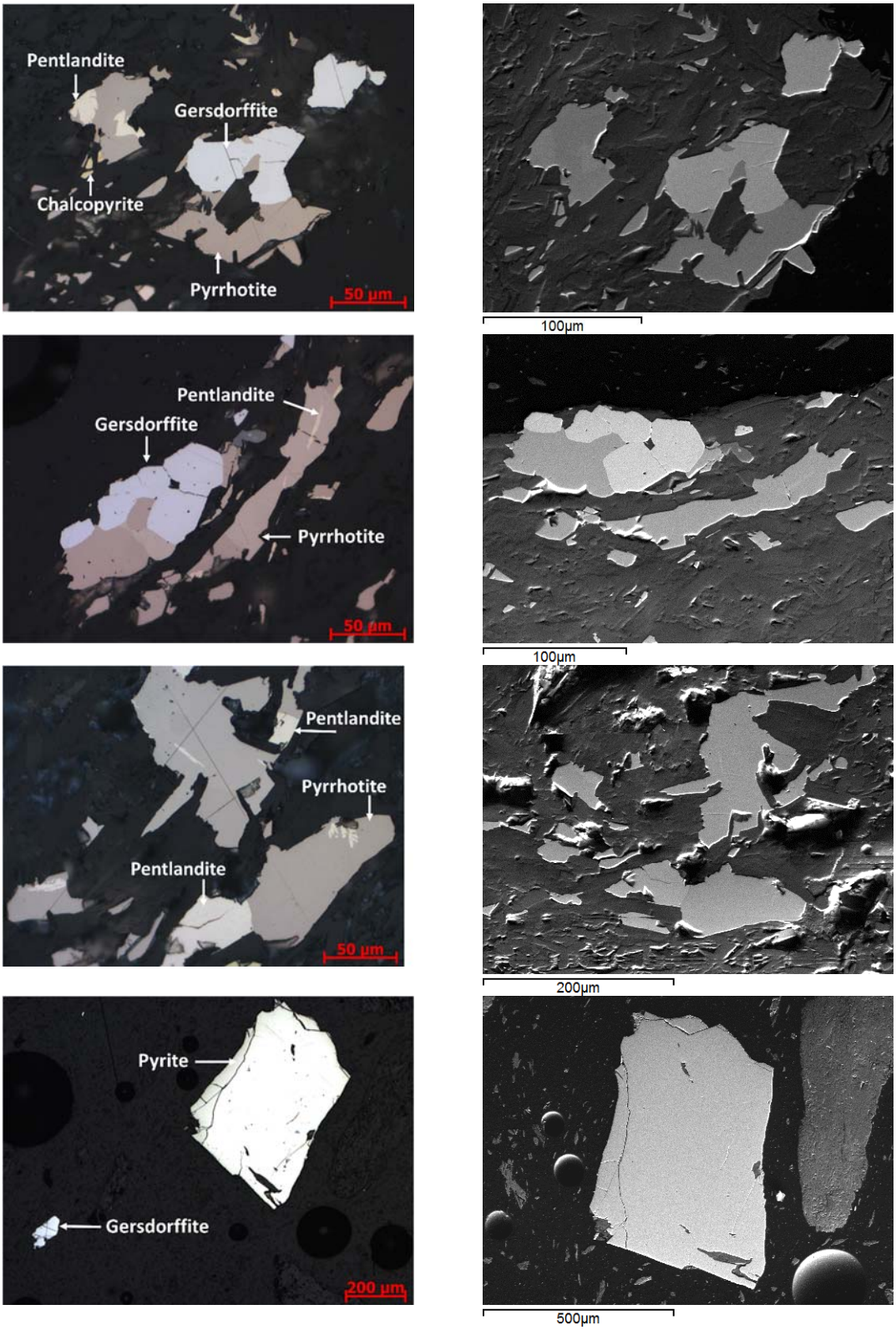


Figure 2 : microphotographies au microscope optique et électronique des minéraux sulfurés dans l'échantillon AMQ-ENV-125

Échantillon AMQ-ENV-43 (référence URSTM : U49308)

De manière générale, l'échantillon contient moins de minéraux sulfurés que les deux échantillons précédents. Ils sont représentés essentiellement par la gersdorffite, avec des traces de pyrrhotite et de pentlandite. Aucune pyrite ni chalcopyrite n'ont été observées.

Aucun minéral de gangue silicaté analysé ne contient de l'As. Toutes les microanalyses chimiques des minéraux sulfurés au MEB-EDS sont présentées au *tableau 3*.

Tableau 3 : Microanalyses chimiques des minéraux sulfurés au MEB-EDS de l'échantillon AMQ-ENV-43

	S	Fe	Co	Ni	As	Total
Gersdorffite	21.5	6.8	2.6	20.1	49.0	100
Gersdorffite	20.1	10.5	2.1	16.6	50.7	100
Gersdorffite	21.2	7.6	2.8	22.8	45.6	100
Gersdorffite	20.8	7.8	3.0	20.9	47.4	100
Gersdorffite	20.7	7.6	2.9	20.5	48.3	100
Gersdorffite	22.6	6.2	2.6	17.1	51.6	100
Gersdorffite	20.1	8.0	3.3	22.3	46.4	100
Gersdorffite	19.1	6.5	4.9	22.8	46.7	100
Gersdorffite	20.2	4.6	5.1	24.9	45.2	100
Gersdorffite	20.4	4.1	5.3	24.8	45.4	100
Gersdorffite	20.0	7.3	8.8	18.3	45.7	100
Gersdorffite	20.1	8.2	3.2	21.7	46.9	100
Gersdorffite	21.0	8.4	2.5	21.8	46.3	100
Gersdorffite	20.0	7.6	3.3	23.2	46.0	100
Gersdorffite	21.3	7.1	2.8	19.9	48.9	100
Gersdorffite	20.8	7.6	2.6	21.5	47.6	100
Gersdorffite	21.1	7.4	2.4	19.4	49.7	100
Gersdorffite	19.8	9.4	1.8	22.2	46.8	100
Gersdorffite	22.7	8.0	1.4	17.8	50.0	100
Gersdorffite	20.9	6.5	6.1	16.4	50.1	100
Gersdorffite	20.6	8.4	3.0	22.4	45.7	100
Gersdorffite	20.2	8.3	2.4	23.0	46.0	100
Gersdorffite	19.4	8.2	2.5	23.6	46.2	100
Pyrrhotite	41.9	56.7		1.4		100
Pyrrhotite	41.4	52.3		6.3		100
Pentlandite	41.1	24.6		34.4		100
Pentlandite	35.5	25.2		39.3		100
Pentlandite	41.1	24.6		34.4		100
Pentlandite	35.5	25.2		39.3		100

Microscopie optique

Microscopie électronique

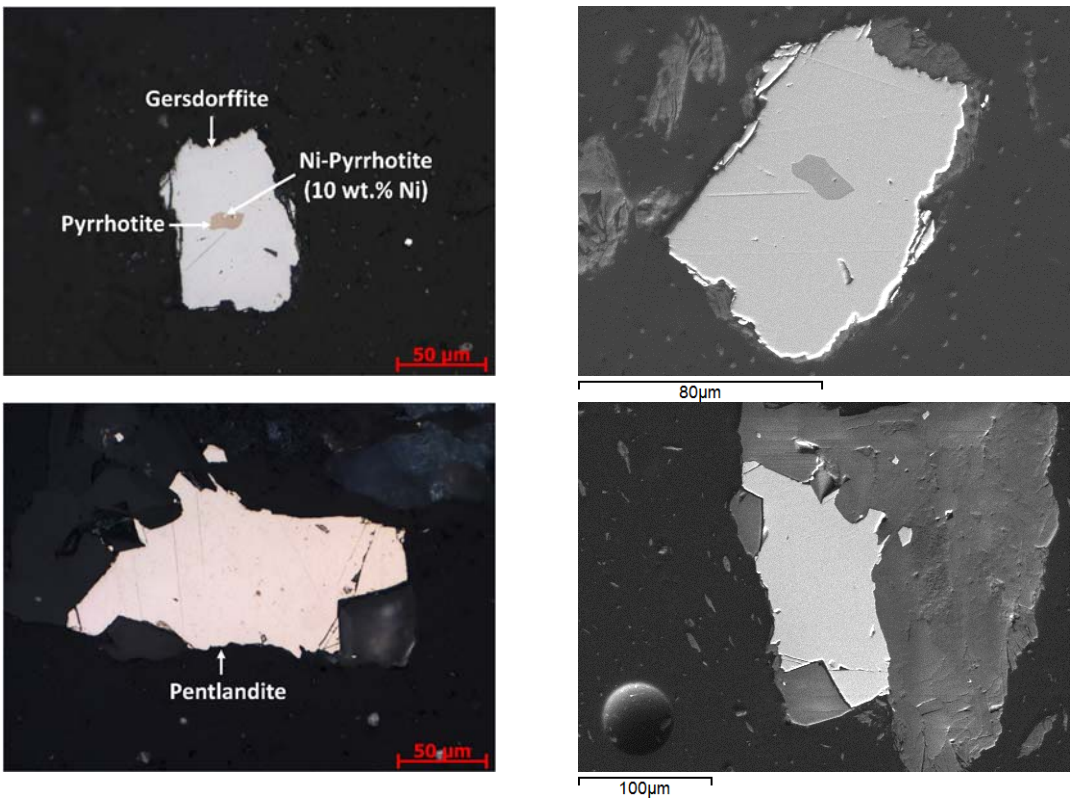


Figure 3 : microphotographies au microscope optique et électronique des minéraux sulfurés dans l'échantillon AMQ-ENV-43

E.2 – Chemical Composition

Appendix E.2
Whole Rock Analysis Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

| | | |

Appendix E.2
Whole Rock Analysis Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

									Typical Crustal Abundance (ug/g) (Price, 1997)[a]		29	62200	18400	18	27640	1060	1.2	22700	99	1120	13	0.2	0.05	2.1	384	273000	6320	0.72	2.3	136	76
									Typical Crustal Abundance (ug/g) x5		145	311000	92000	90	138200	5300	6	113500	495	5600	65	1	0.25	10.5	1920	1365000	31600	3.6	11.5	680	380
Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample type		Distance to Ore	ICP																					
		From	To						Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Tin	Strontium	Silicon	Titanium	Thallium	Uranium	Vanadium	Zinc
									µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
AMQ-ENV15-029	AMQ15-170	50	60	0a	Ultramafic	Waste	Core	0	8.3	23000	830	9.0	**31000**	**1100**	0.3	20	**240**	91	0.53	< 0.8	< 0.7	< 0.5	72	2500	100	0.03	< 0.002	41	14
AMQ-ENV-44	IVR14-118	281	295	0a	Ultramafic	Waste	Core	39	24	36000	3900	14	**39000**	860	0.1	69	**400**	110	1.0	< 0.8	< 0.7	< 0.5	47	7600	440	0.14	0.01	62	28
AMQ-ENV15-028	AMQ15-164	80	90	0a	Ultramafic	Waste	Core	24	7.6	35000	9400	**28**	25000	960	0.6	140	**720**	160	1.4	**4.4**	< 0.7	< 0.5	62	4300	700	0.2	0.023	51	23
AMQ-ENV-16	IVR14-123	95	104	0a	Ultramafic	Waste	Core	17	13	21000	640	4.0	**34000**	610	0.1	33	**410**	120	0.87	**3.1**	< 0.7	< 0.5	64	6400	87	0.02	0.022	39	18
AMQ-ENV-31	IVR14-120	61	68	0a	Ultramafic	Waste	Core	10	23	49000	12000	**28**	**32000**	**1200**	0.4	140	**1400**	110	0.51	**15**	< 0.7	< 0.5	11	10000	1200	0.28	0.036	71	47
AMQ-ENV-32	IVR14-120	77	86	0a	Ultramafic	Waste	Core	6	24	25000	1300	8.0	**39000**	750	< 0.1	28	**410**	110	0.77	**1.3**	< 0.7	< 0.5	71	7300	140	0.03	0.003	49	18
AMQ-ENV-33	IVR14-120	97	106	0a	Ultramafic	Waste	Core	32	**51**	30000	1100	6.0	**37000**	620	< 0.1	38	**320**	100	3.0	**1.0**	< 0.7	< 0.5	99	9300	130	0.04	0.004	54	17
AMQ-ENV-39	IVR14-121A	151	160	0a	Ultramafic	Waste	Core	10	**34**	24000	520	5.0	**40000**	670	0.1	41	**340**	120	1.0	**0.9**	< 0.7	< 0.5	66	5800	68	< 0.02	0.028	36	15
AMQ-ENV-121	IVR14-149	190	199	0a	Ultramafic	Waste	Core	18	20	36000	**19000**	**31**	**42000**	500	0.7	220	**330**	860	6.3	< 0.8	< 0.7	< 0.5	130	11000	1900	0.66	0.88	64	36
AMQ-ENV15-030	AMQ15-170	160	170	0a	Ultramafic	Waste	Core	2	5.1	25000	74	3.0	**35000**	760	0.3	19	**260**	110	0.82	< 0.8	< 0.7	< 0.5	110	2400	39	< 0.02	0.004	44	13
AMQ-ENV15-016	AMQ15-225	31	40	0a	Ultramafic	Waste	Core	23	**60**	**80000**	13000	**19**	**30000**	**1800**	0.5	55	**1060**	120	3.0	**3.4**	< 0.7	< 0.5	55	4900	1100	0.41	0.062	76	39
AMQ-ENV15-011	AMQ15-232	149	159	0a	Ultramafic	Waste	Core	11	14	30000	18000	**27**	19000	670	0.5	180	**600**	220	0.71	**3.0**	< 0.7	< 0.5	31	5500	1000	0.32	< 0.002	61	32
AMQ-ENV15-014	AMQ15-236	25	35	0a	Ultramafic	Waste	Core	8	**33**	31000	5400	13	**41000**	570	0.1	22	**200**	86	0.38	< 0.8	< 0.7	< 0.5	68	2700	530	0.15	0.007	66	19
AMQ-ENV15-090	IVR14-079	97	107	0a	Ultramafic	Waste	Core	11	**64**	41000	15000	**25**	26000	980	0.4	130	**1110**	110	1.5	**8.5**	< 0.7	< 0.5	40	5000	1100	0.3	0.018	56	33
AMQ-ENV15-026	IVR14-141	224	234	0a	Ultramafic	Waste	Core	2	9.9	20000	2800	5.0	**30000**	**1100**	0.4	27	**1370**	63	2.5	**3.5**	< 0.7	< 0.5	140	2500	250	0.09	0.006	37	19
AMQ-ENV15-055	IVR14-148	95	105	0a	Ultramafic	Waste	Core	29	16	26000	310	4.0	**36000**	510	0.2	18	**370**	89	0.61	**1.5**	< 0.7	< 0.5	37	2900	68	< 0.02	0.003	57	18
AMQ-ENV-49	IVR14-016	107	116	0a	Ultramafic	Waste	Reject	13	**54**	**120000**	12000	17	**32000**	**3000**	0.4	540	**1000**	120	1.9	**3.8**	< 0.7	< 0.5	81	3100	930	0.25	0.039	99	57
AMQ-ENV-58	IVR14-056	44	54	0a	Ultramafic	Waste	Reject	4	**56**	46000	13000	**20**	**42000**	970	0.5	74	**1000**	270	1.1	**3.6**	< 0.7	< 0.5	64	1100	860	0.28	0.011	80	33
AMQ-ENV-69	IVR14-015	70	80	0a	Ultramafic	Waste	Reject	14	29	55000	12000	**27**	22000	**1600**	0.2	400	**1100**	170	1.0	**7.1**	< 0.7	< 0.5	24	1700	1100	0.27	0.019	81	41
AMQ-ENV-70	IVR14-015	83	93	0a	Ultramafic	Waste	Reject	19	**44**	29000	910	5.0	**42000**	600	0.2	43	**580**	88	0.46	**1.8**	< 0.7	< 0.5	62	730	130	< 0.02	0.02	59	24
AMQ-ENV-73	IVR14-097	182	192	0a	Ultramafic	Waste	Reject	10	**31**	29000	1000	7.0	**38000**	510	< 0.1	32	**710**	83	11	**1.1**	< 0.7	< 0.5	63	1200	150	< 0.02	0.007	61	25
							Minimum		*5.1*	*20000*	*74*	*3.0*	*19000*	*500*	*< 0.1*	*18*	*200*	*63*	*0.38*	*< 0.8*	*< 0.7*	*< 0.5*	*11*	*730*	*39*	*< 0.02*	*< 0.002*	*36*	*13*
							Maximum		*64*	*120000*	*19000*	*31*	*42000*	*3000*	*0.7*	*540*	*1400*	*860*	*11*	*15*	*< 0.7*	*< 0.5*	*140*	*11000*	*1900*	*0.66*	*0.88*	*99*	*57*
Ultramafics - 0a							**Median**		*24*	*30000*	*3900*	*13*	*35000*	*760*	*0.3*	*43*	*580*	*110*	*1.0*	*1.8*	*nc*	*nc*	*64*	*4300*	*440*	*0.14*	*0.011*	*59*	*24*
							Average		*30*	*38619*	*6771*	*15*	*33905*	*969*	*0.3*	*108*	*663*	*158*	*1.9*	*3.2*	*nc*	*nc*	*67*	*4663*	*572*	*0.17*	*0.057*	*59*	*27*
							Std. Deviation		*19*	*23275*	*6573*	*9.9*	*6782*	*582*	*0.19*	*135*	*388*	*168*	*2.5*	*3.4*	*nc*	*nc*	*32*	*3032*	*526*	*0.17*	*0.19*	*16*	*12*
							75th Percentile		*44*	*41000*	*12000*	*25*	*39000*	*1100*	*0.4*	*140*	*1000*	*120*	*1.9*	*3.6*	*nc*	*nc*	*72*	*6400*	*1000*	*0.28*	*0.023*	*66*	*33*
AMQ-ENV-02	IVR14-130	34	44	0b	Ultramafic	Waste	Core	49	22	30000	5000	13	**37000**	760	0.6	37	**270**	730	4.5	< 0.8	< 0.7	< 0.5	270	6900	600	0.27	0.42	48	26
AMQ-ENV-09	IVR14-116	47	56	0b	Ultramafic	Waste	Core	25	**110**	40000	**24000**	**44**	**45000**	550	0.8	180	**260**	950	2.0	< 0.8	< 0.7	0.7	78	10000	2200	0.69	0.81	79	44
AMQ-ENV-10	IVR14-116	60	69	0b	Ultramafic	Waste	Core	15	16	43000	15000	**21**	**55000**	820	0.5	83	**310**	720	3.2	< 0.8	< 0.7	0.6	150	10000	1500	0.59	0.54	60	37
AMQ-ENV-113	IVR14-131	220	229	0b	Ultramafic	Waste	Core	28	**40**	47000	**20000**	**26**	**35000**	540	0.6	500	**140**	910	8.1	< 0.8	< 0.7	0.6	67	11000	1800	0.46	1.5	74	54
AMQ-ENV-119	IVR14-149	10	19	0b	Ultramafic	Waste	Core	100	**40**	43000	15000	**19**	**39000**	570	0.3	260	**190**	960	7.3	< 0.8	< 0.7	< 0.5	280	12000	1900	0.33	0.7	81	48
AMQ-ENV-122	IVR14-152	10	19	0b	Ultramafic	Waste	Core	96	**66**	54000	13000	**21**	25000	490	0.9	1000	87	640	6.2	< 0.8	< 0.7	< 0.5	47	12000	1700	0.32	1.1	89	64
AMQ-ENV15-020	AMQ15-167	21	31	0b	Ultramafic	Waste	Core	3	**36**	41000	13000	**19**	**31000**	540	0.5	110	**170**	670	5.6	< 0.8	< 0.7	< 0.5	84	3700	1400	0.46	0.53	57	32
AMQ-ENV15-033	AMQ15-180	77	87	0b	Ultramafic	Waste	Core	1	29	43000	**24000**	**21**	**48000**	730	0.6	150	**200**	890	4.6	< 0.8	< 0.7	0.8	180	2900	2000	**0.81**	0.65	75	40
AMQ-ENV15-109	IVR14-099	50	60	0b	Ultramafic	Waste	Core	25	**33**	42000	18000	16	**51000**	920	0.5	110	**310**	840	8.0	< 0.8	< 0.7	0.7	260	4100	1600	**0.79**	0.61	65	33
AMQ-ENV15-081	IVR14-156	105	115	0b	Ultramafic	Waste	Core	29	**43**	41000	11000	**25**	22000	460	1.1	300	87	990	**14**	< 0.8	< 0.7	< 0.5	39	4700	1100	0.4	1.8	64	46
AMQ-ENV-54	IVR14-055	21	28	0b	Ultramafic	Waste	Reject	5	**37**	**96000**	6800	18	11000	**1100**	**4.9**	250	34	470	9.9	< 0.8	**1.3**	< 0.5	4.7	1700	570	0.49	0.83	22	33
AMQ-ENV-61	IVR14-101	201	210	0b	Ultramafic	Waste	Reject	44	**43**	45000	**21000**	**23**	**43000**	770	0.5	110	**330**	820	5.9	< 0.8	< 0.7	< 0.5	210	1200	2000	0.52	0.94	89	46
AMQ-ENV-62	IVR14-092	69	80	0b	Ultramafic	Waste	Reject	58	24	55000	**20000**	15	**48000**	1000	0.4	160	**310**	1100	6.3	< 0.8	< 0.7	< 0.5	340	1400	2000	0.54	0.63	95	62
AMQ-ENV-68	IVR14-110	233	242	0b	Ultramafic	Waste	Reject	30	20	44000	8900	**22**	**59000**	970	0.7	64	**450**	680	7.4	< 0.8	< 0.7	0.5	380	1400	930	0.31	0.52	64	35
							Minimum		*16*	*30000*	*5000*	*13*	*11000*	*460*	*0.3*	*37*	*34*	*470*	*2.0*	*< 0.8*	*< 0.7*	*< 0.5*	*4.7*	*1200*	*570*	*0.27*	*0.42*	*22*	*26*
							Maximum		*110*	*96000*	*24000*	*44*	*59000*	*1100*	*4.9*	*1000*	*450*	*1100*	*14*	*< 0.8*	*1.3*	*0.8*	*380*	*12000*	*2200*	*0.81*	*1.8*	*95*	*64*
Transitional Ultramafics - 0b							**Median**		*37*	*43000*	*15000*	*21*	*41000*	*745*	*0.6*	*155*	*230*	*830*	*6.3*	*nc*	*0.7*	*0.5*	*165*	*4400*	*1650*	*0.48*	*0.68*	*70*	*42*
							Average		*40*	*47429*	*15336*	*22*	*39214*	*730*	*0.92*	*237*	*225*	*812*	*6.6*	*nc*	*0.74*	*0.56*	*171*	*5929*	*1521*	*0.5*	*0.83*	*69*	*43*
							Std. Deviation		*24*	*15210*	*6101*	*7.4*	*13492*	*210*	*1.2*	*250*	*115*	*169*	*3.0*	*nc*	*0.16*	*0.1*	*121*	*4241*	*534*	*0.17*	*0.4*	*19*	*11*
							75th Percentile		*42*	*46500*	*20000*	*23*	*48000*	*895*	*0.78*	*258*	*310*	*940*	*7.9*	*nc*	*0.7*	*0.6*	*268*	*10000*	*1975*	*0.58*	*0.91*	*81*	*48*

Appendix E.2
Whole Rock Analysis Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

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Appendix E.2
Whole Rock Analysis Results
Waste Rock, Ore and Tailing
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									Typical Crustal Abundance (ug/g) (Price, 1997)[a]	29	62200	18400	18	27640	1060	1.2	22700	99	1120	13	0.2	0.05	2.1	384	273000	6320	0.72	2.3	136	76
									Typical Crustal Abundance (ug/g) x5	145	311000	92000	90	138200	5300	6	113500	495	5600	65	1	0.25	10.5	1920	1365000	31600	3.6	11.5	680	380
Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample type		Distance to Ore	ICP																						
		From	To						Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Tin	Strontium	Silicon	Titanium	Thallium	Uranium	Vanadium	Zinc
									µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
AMQ-ENV15-009	AMQ15-232	92	102	S3C	Central Greywacke	Waste	Core	0	15	54000	2300	2.0	4400	790	**2.5**	180	14	570	1.6	**1.4**	< 0.7	< 0.5	16	13000	100	0.06	0.2	2.0	12
AMQ-ENV15-025	IVR14-141	139	148	S3C	Central Greywacke	Waste	Core	0	16	**64000**	5200	4.0	5900	870	**2.3**	350	8.6	500	2.5	< 0.8	< 0.7	< 0.5	38	7100	170	0.11	0.59	8.0	15
AMQ-ENV-28	IVR14-120	14	25	S3C	Central Greywacke	Waste	Core	18	21	46000	7800	**19**	10000	760	**2.6**	560	22	640	9.0	< 0.8	< 0.7	< 0.5	8.6	9200	890	0.66	**2.8**	29	54
AMQ-ENV-29	IVR14-120	33	42	S3C	Central Greywacke	Waste	Core	7	7.5	**65000**	4900	6.0	5000	**1200**	1.1	170	28	360	5.1	**1.3**	< 0.7	< 0.5	8.7	14000	270	0.18	0.38	9.0	17
AMQ-ENV-34	IVR14-121A	22	31	S3C	Central Greywacke	Waste	Core	4	15	**66000**	9200	11	7300	640	**2.5**	110	20	480	5.5	**0.8**	< 0.7	< 0.5	13	7900	450	0.39	1.0	14	51
AMQ-ENV-40	IVR14-118	14	23	S3C	Central Greywacke	Waste	Core	23	20	57000	5700	8.0	6000	**1100**	**1.3**	170	20	380	3.6	**0.8**	< 0.7	< 0.5	7.9	11000	360	0.24	0.61	11	36
AMQ-ENV-109	IVR14-146	10	19	S3C	Central Greywacke	Waste	Core	5	**32**	26000	4200	**21**	8900	460	**2.5**	540	30	640	**14**	< 0.8	< 0.7	< 0.5	14	7700	510	0.29	2.2	19	65
AMQ-ENV15-042	AMQ15-178	210	220	S3C	Central Greywacke	Waste	Core	17	22	33000	6400	16	11000	470	**3.9**	1000	34	580	**14**	< 0.8	< 0.7	< 0.5	31	10000	740	0.33	**2.8**	28	76
AMQ-ENV15-008	AMQ15-232	69	79	S3C	Central Greywacke	Waste	Core	21	20	**74000**	2700	7.0	5600	950	**8.3**	280	24	300	4.7	**1.4**	< 0.7	< 0.5	10	13000	160	0.09	0.84	9.0	69
AMQ-ENV15-091	IVR14-079	16	24	S3C	Central Greywacke	Waste	Core	16	21	**70000**	7300	12	7700	900	**6.7**	300	18	490	7.5	**1.4**	< 0.7	< 0.5	8.0	14000	400	0.27	2.0	10	37
AMQ-ENV15-098	IVR14-089	92	102	S3C	Central Greywacke	Waste	Core	19	**35**	38000	11000	18	10000	480	**4.4**	830	33	670	8.1	< 0.8	< 0.7	< 0.5	21	7400	880	0.65	**2.7**	28	69
AMQ-ENV15-097	IVR14-091	190	200	S3C	Central Greywacke	Waste	Core	23	25	26000	10000	13	7500	410	**5.9**	750	21	440	**19**	< 0.8	< 0.7	< 0.5	20	7600	760	0.51	**2.7**	15	63
AMQ-ENV15-106	IVR14-099	95	104	S3C	Central Greywacke	Waste	Core	23	20	27000	8900	11	7000	420	**4.3**	700	20	650	11	< 0.8	< 0.7	< 0.5	39	7100	810	**0.77**	**2.5**	17	59
AMQ-ENV15-064	IVR14-114	105	114	S3C	Central Greywacke	Waste	Core	40	**35**	38000	6700	**22**	12000	550	**2.7**	1000	38	670	7.1	< 0.8	< 0.7	< 0.5	16	8400	750	0.34	2.3	32	72
AMQ-ENV15-048	IVR14-141	119	129	S3C	Central Greywacke	Waste	Core	11	2.7	**65000**	11000	**21**	11000	940	**5.7**	380	11	540	12	< 0.8	< 0.7	< 0.5	19	10000	760	0.48	**2.6**	15	46
AMQ-ENV15-073	IVR14-153	45	55	S3C	Central Greywacke	Waste	Core	3	18	36000	9400	16	8800	580	**2.8**	630	13	360	8.6	< 0.8	< 0.7	< 0.5	17	9600	720	0.5	**3.8**	20	64
AMQ-ENV15-075	IVR14-153	90	100	S3C	Central Greywacke	Waste	Core	12	18	32000	5700	12	5800	520	**3.2**	710	13	760	5.4	< 0.8	< 0.7	< 0.5	18	6200	460	0.28	1.7	10	57
AMQ-ENV15-074	IVR14-153	150	160	S3C	Central Greywacke	Waste	Core	3	**34**	34000	6400	11	9400	450	**2.8**	730	29	660	**18**	< 0.8	< 0.7	< 0.5	20	7600	600	0.45	**2.8**	25	72
AMQ-ENV-03	IVR14-130	62	71	S3C	Central Greywacke	Waste	Core	50	21	34000	5500	17	8900	510	**1.6**	520	26	760	5.0	< 0.8	< 0.7	< 0.5	12	9200	650	0.43	2.3	27	55
AMQ-ENV-11	IVR14-116	175	184	S3C	Central Greywacke	Waste	Core	30	24	28000	11000	17	8000	430	**2.8**	580	28	640	**29**	< 0.8	< 0.7	< 0.5	25	10000	970	0.66	**2.6**	26	60
AMQ-ENV-12	IVR14-116	250	259	S3C	Central Greywacke	Waste	Core	35	21	26000	5400	11	9100	450	**2.4**	630	26	650	12	< 0.8	< 0.7	< 0.5	28	8500	570	0.4	**2.8**	20	60
AMQ-ENV-13	IVR14-123	9	19	S3C	Central Greywacke	Waste	Core	27	17	37000	7800	**23**	10000	550	**2.6**	410	27	700	10	< 0.8	< 0.7	< 0.5	16	7600	740	0.4	**2.5**	27	56
AMQ-ENV-14	IVR14-123	21	30	S3C	Central Greywacke	Waste	Core	19	29	34000	8000	**22**	9800	480	**2.4**	600	29	610	13	< 0.8	< 0.7	< 0.5	16	10000	860	0.5	2.3	32	61
AMQ-ENV-18	IVR14-114	18	27	S3C	Central Greywacke	Waste	Core	25	**32**	33000	8800	16	9300	480	**2.6**	540	32	640	12	< 0.8	< 0.7	< 0.5	16	9900	930	0.53	2.3	27	66
AMQ-ENV-19	IVR14-114	75	84	S3C	Central Greywacke	Waste	Core	24	**32**	32000	6800	**25**	11000	470	**2.5**	710	33	650	**15**	< 0.8	< 0.7	< 0.5	18	12000	710	0.36	2.3	27	**80**
AMQ-ENV-20	IVR14-114	190	199	S3C	Central Greywacke	Waste	Core	11	**32**	33000	12000	18	11000	570	**2.4**	820	32	670	9.2	< 0.8	< 0.7	< 0.5	22	11000	1100	0.63	2.0	38	75
AMQ-ENV-36	IVR14-121A	75	84	S3C	Central Greywacke	Waste	Core	14	**30**	48000	6000	15	5800	620	1.2	470	18	540	11	**0.9**	**0.7**	< 0.5	14	10000	390	0.34	**4.2**	9.0	62
AMQ-ENV-37	IVR14-121A	95	104	S3C	Central Greywacke	Waste	Core	24	15	28000	5400	14	8800	510	**2.3**	610	24	590	**17**	< 0.8	< 0.7	< 0.5	24	10000	530	0.33	**3.2**	22	53
AMQ-ENV-41	IVR14-118	86	96	S3C	Central Greywacke	Waste	Core	21	22	31000	14000	**26**	11000	500	**2.6**	560	25	620	**38**	< 0.8	< 0.7	< 0.5	18	11000	1200	**0.77**	**3.3**	28	57
AMQ-ENV-46	IVR14-130	149	155	S3C	Central Greywacke	Waste	Core	21	20	22000	7200	16	7600	400	**2.4**	670	26	430	12	< 0.8	< 0.7	< 0.5	15	8200	910	0.41	**3.3**	23	70
AMQ-ENV15-006	AMQ15-232	21	31	S3C	Central Greywacke	Waste	Core	21	**36**	44000	**21000**	**35**	**50000**	560	0.3	220	**280**	930	3.8	< 0.8	< 0.7	< 0.5	100	11000	2100	0.61	0.64	75	39
AMQ-ENV15-012	AMQ15-241	15	25	S3C	Central Greywacke	Waste	Core	44	**43**	49000	13000	**26**	23000	580	**2.6**	1200	71	1100	**22**	< 0.8	< 0.7	< 0.5	37	8900	1400	0.36	1.1	77	63
AMQ-ENV15-004	AMQ15-245a	32	42	S3C	Central Greywacke	Waste	Core	36	**42**	43000	**23000**	**30**	**40000**	450	**1.5**	710	**210**	970	6.4	< 0.8	< 0.7	0.6	94	14000	2200	0.55	1.3	81	46
AMQ-ENV15-005	AMQ15-245a	45	55	S3C	Central Greywacke	Waste	Core	25	17	42000	17000	**27**	**49000**	560	0.2	67	**270**	830	1.4	< 0.8	< 0.7	< 0.5	99	10000	1700	0.52	0.57	78	35
AMQ-ENV15-108	IVR14-099	150	160	S3C	Central Greywacke	Waste	Core	22	**32**	28000	10000	14	8000	320	**4.2**	1200	29	530	12	< 0.8	< 0.7	< 0.5	16	11000	940	0.58	**2.7**	23	**78**
AMQ-ENV15-065	IVR14-114	125	135	S3C	Central Greywacke	Waste	Core	29	**44**	32000	9100	**19**	9800	450	**4.6**	1100	34	630	**22**	< 0.8	< 0.7	< 0.5	18	9200	880	0.46	**2.7**	29	63
AMQ-ENV15-066	IVR14-114	148	157	S3C	Central Greywacke	Waste	Core	21	**53**	39000	9500	**21**	11000	510	**3.2**	830	41	670	10	< 0.8	< 0.7	< 0.5	18	10000	860	0.49	**2.5**	26	74
AMQ-ENV15-112	IVR14-125A	310	320	S3C	Central Greywacke	Waste	Core	6	20	48000	12000	11	9200	510	**7.7**	900	16	450	9.0	**1.0**	< 0.7	< 0.5	10	10000	690	0.69	0.72	13	**78**
AMQ-ENV15-054	IVR14-150	35	45	S3C	Central Greywacke	Waste	Core	30	**140**	**63000**	6100	16	8600	740	**3.2**	420	67	740	**20**	< 0.8	< 0.7	< 0.5	10	6400	410	0.21	2.0	20	28
AMQ-ENV15-107	IVR14-099	115	125	S3C	Central Greywacke	Waste	Core	32	25	34000	10000	16	10000	460	**2.9**	1000	29	590	7.5	< 0.8	< 0.7	< 0.5	19	10000	920	0.69	**3.0**	29	68
AMQ-ENV-48	IVR14-016	70	80	S3C	Central Greywacke	Waste	Reject	0	27	**100000**	4400	4.0	8700	**1800**	**3.1**	230	27	350	7.8	**2.0**	**1.8**	< 0.5	12	1800	190	0.05	0.35	12	22
AMQ-ENV-53	IVR14-084	150	161	S3C	Central Greywacke	Waste	Reject	10	20	19000	4400	6.0	3100	440	**3.7**	440	20	460	11	< 0.8	< 0.7	< 0.5	20	1100	320	0.21	**2.6**	7.0	**96**
AMQ-ENV-63	IVR14-092	80	88	S3C	Central Greywacke	Waste	Reject	54	**83**	**67000**	**23000**	**19**	**52000**	690	0.4	250	**140**	**1200**	**17**	< 0.8	< 0.7	< 0.5	230	2000	2000	0.5	0.71	100	61
								Minimum	*2.7*	*19000*	*2300*	*2.0*	*3100*	*320*	*0.2*	*67*	*8.6*	*300*	*1.4*	*< 0.8*	*< 0.7*	*< 0.5*	*7.9*	*1100*	*100*	*0.05*	*0.2*	*2.0*	*12*
								Maximum	*140*	*100000*	*23000*	*35*	*52000*	*1800*	*8.3*	*1200*	*280*	*1200*	*38*	*2.0*	*1.8*	*0.6*	*230*	*14000*	*2200*	*0.77*	*4.2*	*100*	*96*
								Median	*22*	*37000*	*7800*	*16*	*9100*	*510*	*2.6*	*580*	*27*	*630*	*10*	*0.8*	*0.7*	*0.5*	*18*	*9900*	*740*	*0.43*	*2.3*	*23*	*61*
Central Greywacke - S3C								**Average**	*29*	*42907*	*8958*	*16*	*12465*	*617*	*3.0*	*583*	*46*	*620*	*11*	*0.89*	*0.73*	*0.5*	*29*	*9153*	*790*	*0.43*	*2.1*	*27*	*57*
								Std. Deviation	*22*	*17157*	*4797*	*7.2*	*11899*	*269*	*1.8*	*296*	*62*	*187*	*7.3*	*0.24*	*0.17*	*0.015*	*38*	*2862*	*489*	*0.19*	*1.0*	*22*	*19*
								75th Percentile	*32*	*51500*	*10500*	*21*	*11000*	*665*	*3.5*	*740*	*33*	*670*	*14*	*0.8*	*0.7*	*0.5*	*23*	*10500*	*915*	*0.54*	*2.7*	*29*	*69*
AMQ-ENV-112	IVR14-131	10	19	S3s	South Greywacke	Waste	Core	296	**42**	40000	15000	**35**	**28000**	620	1.0	440	**110**	**1200**	**17**	< 0.8	< 0.7	0.5	22	9600	1300	0.49	**2.4**	50	55
AMQ-ENV-115	IVR14-144	70	79	S3s	South Greywacke	Waste	Core	101	**30**	42000	5800	**23**	16000	480	1.2	560	50	590	**37**	< 0.8	< 0.7	< 0.5	24	8100	950	0.28	**2.7**	42	76
AMQ-ENV-116	IVR14-144	186	195	S3s	South Greywacke	Waste	Core	47	**30**	55000	17000	**23**	**41000**	550	0.3	470	**180**	970	5.9	< 0.8	< 0.7	< 0.5	120	13000	1800	0.35	0.36	100	65
AMQ-ENV-117	IVR14-151	15	24	S3s	South Greywacke	Waste	Core	111	**30**	29000	11000	**26**	16000	450	1.1	500	62	670	**15**	< 0.8	< 0.7	< 0.5	34	9000	1000	0.45	2.3	38	49
AMQ-ENV-120	IVR14-149	50	59	S3s	South Greywacke	Waste	Core	74	**51**	45000	**21000**	**24**	**28000**	600	0.6	440	**110**	**1400**	8.9	< 0.8	< 0.7	< 0.5	55	10000	1800	0.58	0.79	73	59
AMQ-ENV15-023	AMQ15-161	28	38	S3s	South Greywacke	Waste	Core	56	**68**	37000	**21000**	18	23000	450	**2.6**	810	86	1100	9.8	< 0.8	< 0.7	< 0.5	56	10000	1800	0.49	1.2	59	44
AMQ-ENV15-022	AMQ15-161	60	70	S3s	South Greywacke	Waste	Core	36	**33**	45000	**25000**	**29**	**44000**	520	0.6	520	**220**	**1800**	11	< 0.8	< 0.7	0.5	210	12000	2500	0.62	1.1	88	48
AMQ-ENV15-032	AMQ15-180	25	35	S3s	South Greywacke	Waste	Core	33	**51**	39000	18000	**23**	27000	500	0.8	610	**110**	**1200**	3.4	< 0.8	< 0.7	0.6	61	9500	1600	0.43	1.0	64	50
AMQ-ENV15-003	AMQ15-187	32	42	S3s	South Greywacke	Waste	Core	56	**40**	43000	13000	**31**	**35000**	610	**1.5**	380	**170**	**1200**	**14**	< 0.8	< 0.7	< 0.5	56	8400	1400	0.4	0.89	76	67
AMQ-ENV15-001	AMQ15-187	95	105	S3s	South Greywacke	Waste	Core	18	**42**	45000	15000	**31**	**28000**	480	0.9	650	**120**	780	2.9	< 0.8	< 0.7	0.5	40	8600	1500	0.4	1.5	66	47
AMQ-ENV15-047	AMQ15-188	29	39	S3s	South Greywacke	Waste	Core	12	**46**	41000	18000	**29**	**48000**	530	0.6	77	**300**	770	4.2	< 0.8	< 0.7	< 0.5	92	9400	1800	0.7	0.63	69	35
AMQ-ENV15-013	AMQ15-241	76	86	S3s	South Greywacke	Waste	Core	13	**52**	43000	**24000**	**26**	**43000**	460	0.6	600	**230**	1000	3.2	< 0.8	< 0.7	0.6	120	14000	2300	0.65	1.0	84	41
AMQ-ENV15-101	IVR14-087	20	30	S3s	South Greywacke	Waste	Core	117	28	**69000**	13000	**31**	**41000**	720	0.9	440	**130**	1100	13	< 0.8	< 0.7	0.8	90	7300	1500	0.37	1.3	89	**77**
AMQ-ENV15-102	IVR14-087	50	60	S3s	South Greywacke	Waste	Core	88	**51**	54000	14000	**23**	26000	690	**2.0**	1500	93	1100	7.4	< 0.8	< 0.7	< 0.5	68	13000	1600	0.37	0.8	89	70
AMQ-ENV15-103	IVR14-087	75	85	S3s	South Greywacke	Waste	Core	59	**44**	47000	**21000**	**31**	**37000**	650	0.5	230	**150**	**1400**	2.7	< 0.8	< 0.7	< 0.5	89	6500	1500	0.44	0.38	78	55
AMQ-ENV15-093	IVR14-091	20	30	S3s	South Greywacke	Waste	Core	59	19	41000	7700	15	26000	510	**1.8**	990	97	610	**80**	< 0.8	< 0.7	0.5	52	12000	950	0.25	1.9	48	**94**
AMQ-ENV15-110	IVR14-099	15	25	S3s	South Greywacke	Waste	Core	58	29	35000	6200	**19**	13000	460	**1.4**	1300	38	620	**15**	< 0.8	< 0.7	< 0.5	51	13000	940	0.19	**3.5**	43	53
AMQ-ENV15-049	IVR14-141	13	22	S3s	South Greywacke	Waste	Core	82	**38**	40000	11000	**24**	**33000**	580	0.7	320	**130**	**1200**	2.4	< 0.8	< 0.7	< 0.5	60	7700	1300	0.3	1.1	63	49
AMQ-ENV-50	IVR14-103	125	132	S3s	South Greywacke	Waste	Reject	55	**66**	61000	15000	**22**	**41000**	730	**1.6**	160	**150**	**1300**	9.0	< 0.8	< 0.7	< 0.5	100	1300	1800	0.34	1.1	110	68
AMQ-ENV-60	IVR14-101	119	128	S3s	South Greywacke	Waste	Reject	81	**44**	43000	13000	**34**	**37000**	610	1.2	160	**140**	1100	5.6	< 0.8	< 0.7	0.5	64	1600	1300	0.35	1.2	86	50
AMQ-ENV-66	IVR14-110	92	100	S3s	South Greywacke	Waste	Reject	247	**69**	36000	15000	**26**	**30000**	500	1.0	290	**180**	**1500**	6.4	< 0.8	< 0.7	< 0.5	41	1500	1500	0.4	0.7	74	45
AMQ-ENV-67	IVR14-110	197	207	S3s	South Greywacke	Waste	Reject	49	**47**	42000	18000	**26**	**38000**	450	0.8	270	**190**	960	10	< 0.8	< 0.7	< 0.5	52	1900	1800	0.31	1.3	89	45
AMQ-ENV-71	IVR14-046	114	126	S3s	South Greywacke	Waste	Reject	124	**44**	43000	13000	**20**	22000	520	**1.4**	330	84	820	**31**	< 0.8	< 0.7	< 0.5	34	980	1400	0.38	1.8	70	56
								Minimum	*19*	*29000*	*5800*	*15*	*13000*	*450*	*0.3*	*77*	*38*	*590*	*2.4*	*< 0.8*	*< 0.7*	*< 0.5*	*22*	*980*	*940*	*0.19*	*0.36*	*38*	*35*
								Maximum	*69*	*69000*	*25000*	*35*	*48000*	*730*	*2.6*	*1500*	*300*	*1800*	*80*	*< 0.8*	*< 0.7*	*0.8*	*210*	*14000*	*2500*	*0.7*	*3.5*	*110*	*94*
								Median	*44*	*43000*	*15000*	*26*	*30000*	*520*	*1.0*	*440*	*130*	*1100*	*9.0*	*nc*	*nc*	*0.5*	*56*	*9000*	*1500*	*0.4*	*1.1*	*73*	*53*
South Greywacke - S3S								**Average**	*43*	*44130*	*15248*	*26*	*31348*	*551*	*1.1*	*524*	*136*	*1060*	*14*	*nc*	*nc*	*0.52*	*69*	*8190*	*1537*	*0.41*	*1.3*	*72*	*56*
								Std. Deviation	*13*	*8667*	*5148*	*5.2*	*9661*	*88*	*0.55*	*349*	*62*	*311*	*17*	*nc*	*nc*	*0.067*	*41*	*4133*	*398*	*0.13*	*0.77*	*19*	*14*
								75th Percentile	*51*	*45000*	*18000*	*30*	*39500*	*610*	*1.4*	*605*	*175*	*1200*	*15*	*nc*	*nc*	*0.5*	*90*	*11000*	*1800*	*0.47*	*1.7*	*87*	*66*

Appendix E.2
Whole Rock Analysis Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

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Appendix E.2
Whole Rock Analysis Results
Waste Rock, Ore and Tailing
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									Typical Crustal Abundance (ug/g) (Price, 1997)[a]		29	62200	18400	18	27640	1060	1.2	22700	99	1120	13	0.2	0.05	2.1	384	273000	6320	0.72	2.3	136	76
									Typical Crustal Abundance (ug/g) x5		145	311000	92000	90	138200	5300	6	113500	495	5600	65	1	0.25	10.5	1920	1365000	31600	3.6	11.5	680	380
Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample type		Distance to Ore	ICP																						
		From	To						Copper		Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Tin	Strontium	Silicon	Titanium	Thallium	Uranium	Vanadium	Zinc
									µg/g		µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
AMQ-ENV15-019	AMQ15-167	47	57	S10	Chert	Waste	Core	0	16		79000	6400	11	7800	910	2.2	240	72	370	12	2.0	< 0.7	< 0.5	8.3	9400	330	0.26	3.4	10	21
AMQ-ENV15-133	AMQ15-433-01	20	30	S10	Chert	Waste	Core	-	22		98000	3800	6.0	7800	1900	4.7	85	25	610	9.3	1.5	< 0.7	1.6	8.3	4400	310	0.07	0.65	21	31
AMQ-ENV15-141	AMQ15-481-02	225	235	S10	Chert	Waste	Core	-	5.8		62000	5300	8.0	5100	920	1.8	470	11	570	3.4	1.1	< 0.7	< 0.5	14	4600	370	0.16	1.3	9.0	19
AMQ-ENV15-046	AMQ15-188	65	75	S10	Chert	Waste	Core	22	11		87000	5600	4.0	7400	820	2.0	280	12	470	7.4	0.9	< 0.7	< 0.5	16	9100	170	0.13	0.61	9.0	11
AMQ-ENV15-037	AMQ15-193	15	25	S10	Chert	Waste	Core	9	52		59000	3600	7.0	4300	540	2.0	71	22	320	18	1.4	< 0.7	< 0.5	2.8	6400	160	0.18	0.98	8.0	16
AMQ-ENV15-007	AMQ15-232	50	60	S10	Chert	Waste	Core	2	46		71000	17000	21	31000	910	2.6	280	130	770	11	< 0.8	< 0.7	0.6	190	5800	1300	0.78	0.94	48	46
AMQ-ENV15-092	IVR14-079	64	72	S10	Chert	Waste	Core	6	26		100000	5800	4.0	9000	2100	1.3	130	210	160	2.6	1.7	1.4	< 0.5	16	9300	180	0.1	0.13	15	29
AMQ-ENV15-088	IVR14-089	35	45	S10	Chert	Waste	Core	13	110		48000	18000	19	44000	1100	0.4	130	550	290	2.5	1.6	< 0.7	< 0.5	130	8700	980	0.42	< 0.002	79	36
AMQ-ENV15-095	IVR14-091	80	90	S10	Chert	Waste	Core	1	20		23000	5300	7.0	4500	480	2.3	520	33	500	7.5	< 0.8	< 0.7	< 0.5	32	5300	280	0.26	1.6	11	120
AMQ-ENV15-096	IVR14-091	130	140	S10	Chert	Waste	Core	27	16		93000	13000	15	9500	940	3.0	310	29	620	7.7	< 0.8	< 0.7	0.6	15	7400	1000	0.74	1.3	31	79
AMQ-ENV15-085	IVR14-125A	370	380	S10	Chert	Waste	Core	11	20		47000	4500	5.0	6300	450	2.5	100	13	74	4.1	< 0.8	0.8	< 0.5	7.5	6500	270	0.24	0.5	12	90
AMQ-ENV15-058	IVR14-147	35	45	S10	Chert	Waste	Core	12	19		58000	8600	14	8500	880	5.0	380	19	530	6.4	< 0.8	< 0.7	< 0.5	14	8400	380	0.37	2.9	12	32
AMQ-ENV15-056	IVR14-148	37	47	S10	Chert	Waste	Core	10	30		32000	5800	17	9200	490	2.8	570	34	710	15	< 0.8	< 0.7	< 0.5	13	6300	600	0.33	2.7	19	63
AMQ-ENV15-115	IVR14-155	335	345	S10	Chert	Waste	Core	9	10		69000	5200	< 2	4900	730	1.6	980	13	610	1.8	1.2	< 0.7	< 0.5	14	15000	230	0.14	0.33	7.0	13
								Minimum	*5.8*		*23000*	*3600*	*< 2*	*4300*	*450*	*0.4*	*71*	*11*	*74*	*1.8*	*< 0.8*	*< 0.7*	*< 0.5*	*2.8*	*4400*	*160*	*0.07*	*< 0.002*	*7.0*	*11*
								Maximum	*110*		*100000*	*18000*	*21*	*44000*	*2100*	*5.0*	*980*	*550*	*770*	*18*	*2.0*	*1.4*	*1.6*	*190*	*15000*	*1300*	*0.78*	*3.4*	*79*	*120*
Chert - S10								Median	*20*		*65500*	*5700*	*7.5*	*7800*	*895*	*2.3*	*280*	*27*	*515*	*7.5*	*1.0*	*0.7*	*0.5*	*14*	*6950*	*320*	*0.25*	*0.96*	*12*	*32*
								Average	*29*		*66143*	*7707*	*10*	*11379*	*941*	*2.4*	*325*	*84*	*472*	*7.8*	*1.2*	*0.76*	*0.59*	*34*	*7614*	*469*	*0.3*	*1.2*	*21*	*43*
								Std. Deviation	*27*		*23813*	*4762*	*6.2*	*11494*	*494*	*1.2*	*250*	*146*	*204*	*4.9*	*0.41*	*0.19*	*0.29*	*55*	*2734*	*363*	*0.22*	*1.1*	*20*	*33*
								75th Percentile	*29*		*85000*	*8050*	*15*	*9150*	*935*	*2.8*	*448*	*63*	*610*	*11*	*1.5*	*0.7*	*0.5*	*16*	*9000*	*545*	*0.36*	*1.5*	*21*	*59*
AMQ-ENV15-035	AMQ15-211	36	46	S9E	Iron Formation	Waste	Core	0	47		150000	2800	8.0	5700	1300	0.5	200	620	70	0.81	1.7	< 0.7	< 0.5	8.2	4000	350	0.17	0.072	45	19
AMQ-ENV15-099	IVR14-089	161	171	S9E	Iron Formation	Waste	Core	0	7.6		25000	160	< 2	39000	820	0.1	19	550	220	0.58	1.9	< 0.7	< 0.5	120	2100	51	< 0.02	< 0.002	35	13
AMQ-ENV-17	IVR14-123	168	177	S9E	Iron Formation	Waste	Core	23	74		28000	2500	8.0	32000	450	0.1	110	390	100	0.73	< 0.8	< 0.7	< 0.5	21	7700	280	0.1	0.014	56	24
AMQ-ENV-42	IVR14-118	201	213	S9E	Iron Formation	Waste	Core	16	33		31000	7500	15	8300	430	2.1	680	25	540	13	< 0.8	< 0.7	< 0.5	33	8700	820	0.53	2.6	29	63
AMQ-ENV-43	IVR14-118	264	276	S9E	Iron Formation	Waste	Core	37	6.9		34000	3600	9.0	53000	1660	0.3	110	650	170	4.2	1.1	< 0.7	< 0.5	140	7800	420	0.14	0.027	38	24
AMQ-ENV-125	IVR14-152	175	184	S9E	Iron Formation	Waste	Core	12	36		38000	12000	27	47000	490	0.3	84	480	220	2.8	1.3	< 0.7	< 0.5	92	7800	990	0.37	0.14	79	36
AMQ-ENV15-027	AMQ15-164	45	55	S9E	Iron Formation	Waste	Core	3	47		110000	7600	17	9400	1700	0.4	270	1020	90	2.2	4.6	< 0.7	< 0.5	16	6100	700	0.24	0.067	52	22
AMQ-ENV15-034	AMQ15-180	110	119	S9E	Iron Formation	Waste	Core	4	64		130000	2400	9.0	11000	2400	0.6	270	930	110	1.3	3.1	< 0.7	< 0.5	17	6300	320	0.12	0.15	60	28
AMQ-ENV15-045	AMQ15-188	115	125	S9E	Iron Formation	Waste	Core	4	15		68000	6000	21	16000	1900	0.3	190	920	210	1.0	5.6	< 0.7	< 0.5	37	6000	670	0.17	0.005	63	38
AMQ-ENV15-038	AMQ15-193	43	53	S9E	Iron Formation	Waste	Core	11	26		130000	12000	28	15000	2200	0.5	160	790	100	0.93	3.5	< 0.7	< 0.5	22	3800	1200	0.35	0.05	83	47
AMQ-ENV15-039	AMQ15-193	85	95	S9E	Iron Formation	Waste	Core	12	1.9		32000	15000	25	44000	720	0.2	96	610	810	0.52	3.3	< 0.7	< 0.5	82	7900	750	0.36	< 0.002	56	32
AMQ-ENV15-086	IVR14-016	130	140	S9E	Iron Formation	Waste	Core	6	48		37000	16000	29	35000	600	0.2	47	710	97	0.79	2.5	< 0.7	< 0.5	57	3900	970	0.33	< 0.002	77	38
AMQ-ENV15-021	AMQ15-161	138	148	S9E	Iron Formation	Waste	Core	7	28		27000	4000	13	25000	540	0.4	45	510	490	1.8	2.7	< 0.7	< 0.5	230	3900	400	0.12	0.43	43	22
AMQ-ENV15-040	AMQ15-178	40	50	S9E	Iron Formation	Waste	Core	35	15		22000	410	5.0	32000	680	< 0.1	15	230	74	0.8	< 0.8	< 0.7	< 0.5	120	2900	87	< 0.02	< 0.002	48	11
AMQ-ENV15-041	AMQ15-178	90	100	S9E	Iron Formation	Waste	Core	36	5.5		22000	530	9.0	31000	450	< 0.1	14	170	110	0.41	< 0.8	< 0.7	< 0.5	45	2100	95	0.02	0.56	48	15
AMQ-ENV15-010	AMQ15-232	116	124	S9E	Iron Formation	Waste	Core	5	26		110000	11000	20	8100	1600	0.5	250	1030	160	1.2	5.2	< 0.7	< 0.5	17	6400	1000	0.46	0.085	54	34
AMQ-ENV-47	IVR14-016	130	140	S9E	Iron Formation	Waste	Reject	6	47		41000	15000	28	36000	970	0.3	71	920	79	4.4	2.6	< 0.7	< 0.5	100	1200	1200	0.32	0.012	88	49
AMQ-ENV-56	IVR14-055	95	105	S9E	Iron Formation	Waste	Reject	8	61		57000	9500	16	8800	1300	2.5	550	1200	160	1.3	9.4	< 0.7	< 0.5	11	2000	1200	0.19	0.048	45	28
AMQ-ENV-57	IVR14-056	21	31	S9E	Iron Formation	Waste	Reject	9	56		70000	17000	32	15000	1700	0.8	200	1300	190	1.4	7.2	< 0.7	< 0.5	7.5	1800	1600	0.34	0.046	69	47
AMQ-ENV-59	IVR14-056	80	90	S9E	Iron Formation	Waste	Reject	34	31		41000	7900	16	47000	1100	0.1	65	500	180	1.4	< 0.8	< 0.7	< 0.5	110	1500	650	0.18	0.005	81	31
AMQ-ENV-72	IVR14-097	99	111	S9E	Iron Formation	Waste	Reject	21	32		57000	18000	22	56000	1500	0.7	100	670	350	3.9	0.9	< 0.7	< 0.5	200	1400	1500	0.4	0.39	86	47
AMQ-ENV-64	IVR14-092	216	227	S9E	Iron Formation	Waste	Reject	17	35		33000	13000	26	37000	840	0.6	92	740	190	1.7	1.1	< 0.7	< 0.5	210	1300	1400	0.39	0.3	67	40
								Minimum	*1.9*		*22000*	*160*	*< 2*	*5700*	*430*	*< 0.1*	*14*	*25*	*70*	*0.41*	*< 0.8*	*< 0.7*	*< 0.5*	*7.5*	*1200*	*51*	*< 0.02*	*< 0.002*	*29*	*11*
								Maximum	*74*		*150000*	*18000*	*32*	*56000*	*2400*	*2.5*	*680*	*1300*	*810*	*13*	*9.4*	*< 0.7*	*< 0.5*	*230*	*8700*	*1600*	*0.53*	*2.6*	*88*	*63*
Iron Formation - S9E								Median	*33*		*39500*	*7750*	*17*	*31500*	*1035*	*0.35*	*105*	*660*	*165*	*1.3*	*2.2*	*nc*	*nc*	*51*	*3900*	*725*	*0.22*	*0.049*	*56*	*32*
								Average	*34*		*58773*	*8359*	*18*	*27786*	*1152*	*0.53*	*165*	*680*	*215*	*2.1*	*2.8*	*nc*	*nc*	*77*	*4391*	*757*	*0.24*	*0.23*	*59*	*32*
								Std. Deviation	*20*		*40261*	*5822*	*8.9*	*16210*	*606*	*0.61*	*167*	*323*	*183*	*2.7*	*2.3*	*nc*	*nc*	*70*	*2595*	*471*	*0.15*	*0.55*	*18*	*13*
								75th Percentile	*47*		*69500*	*12750*	*26*	*38500*	*1645*	*0.58*	*200*	*920*	*218*	*2.1*	*3.5*	*nc*	*nc*	*118*	*6375*	*1150*	*0.36*	*0.15*	*75*	*40*
AMQ-ENV-114	IVR14-144	16	25	8b	Intermediate Intrusive	Waste	Core	381	19		55000	19000	47	17000	630	1.5	630	25	1400	6.6	< 0.8	< 0.7	< 0.5	20	9300	2100	0.79	2.5	62	87
AMQ-ENV15-002	AMQ15-187	18	25	8b	Intermediate Intrusive	Waste	Core	66	28		55000	11000	26	16000	590	2.2	590	21	1200	26	< 0.8	< 0.7	< 0.5	22	5400	1400	0.46	2.0	68	81
AMQ-ENV15-100	IVR14-087	9	18	8b	Intermediate Intrusive	Waste	Core	128	15		71000	15000	28	22000	590	1.4	370	25	1400	83	< 0.8	< 0.7	0.8	20	4900	1700	0.53	2.3	69	120
AMQ-ENV15-077	IVR14-156	15	25	8b	Intermediate Intrusive	Waste	Core	95	12		54000	12000	23	14000	580	2.0	840	19	1100	11	< 0.8	< 0.7	< 0.5	40	7800	1400	0.37	2.1	62	83
AMQ-ENV-65	IVR14-110	70	80	8b	Intermediate Intrusive	Waste	Reject	274	22		59000	9900	26	19000	780	2.0	460	39	1600	9.0	< 0.8	< 0.7	< 0.5	28	2200	1800	0.33	1.7	73	97
								Minimum	*12*		*54000*	*9900*	*23*	*14000*	*580*	*1.4*	*370*	*19*	*1100*	*6.6*	*< 0.8*	*< 0.7*	*< 0.5*	*20*	*2200*	*1400*	*0.33*	*1.7*	*62*	*81*
								Maximum	*28*		*71000*	*19000*	*47*	*22000*	*780*	*2.2*	*840*	*39*	*1600*	*83*	*< 0.8*	*< 0.7*	*0.8*	*40*	*9300*	*2100*	*0.79*	*2.5*	*73*	*120*
Intermediate Intrusive - 8b								Median	*19*		*55000*	*12000*	*26*	*17000*	*590*	*2.0*	*590*	*25*	*1400*	*11*	*nc*	*nc*	*0.5*	*22*	*5400*	*1700*	*0.46*	*2.1*	*68*	*87*
								Average	*19*		*58800*	*13380*	*30*	*17600*	*634*	*1.8*	*578*	*26*	*1340*	*27*	*nc*	*nc*	*0.56*	*26*	*5920*	*1680*	*0.5*	*2.1*	*67*	*94*
								Std. Deviation	*6.2*		*7085*	*3670*	*9.7*	*3050*	*84*	*0.35*	*179*	*7.8*	*195*	*32*	*nc*	*nc*	*0.13*	*8.5*	*2744*	*295*	*0.18*	*0.3*	*4.8*	*16*
								75th Percentile	*22*		*59000*	*15000*	*28*	*19000*	*630*	*2.0*	*630*	*25*	*1400*	*26*	*nc*	*nc*	*0.5*	*28*	*7800*	*1800*	*0.53*	*2.3*	*69*	*97*

Appendix E.2
Whole Rock Analysis Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

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Appendix E.2
Whole Rock Analysis Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
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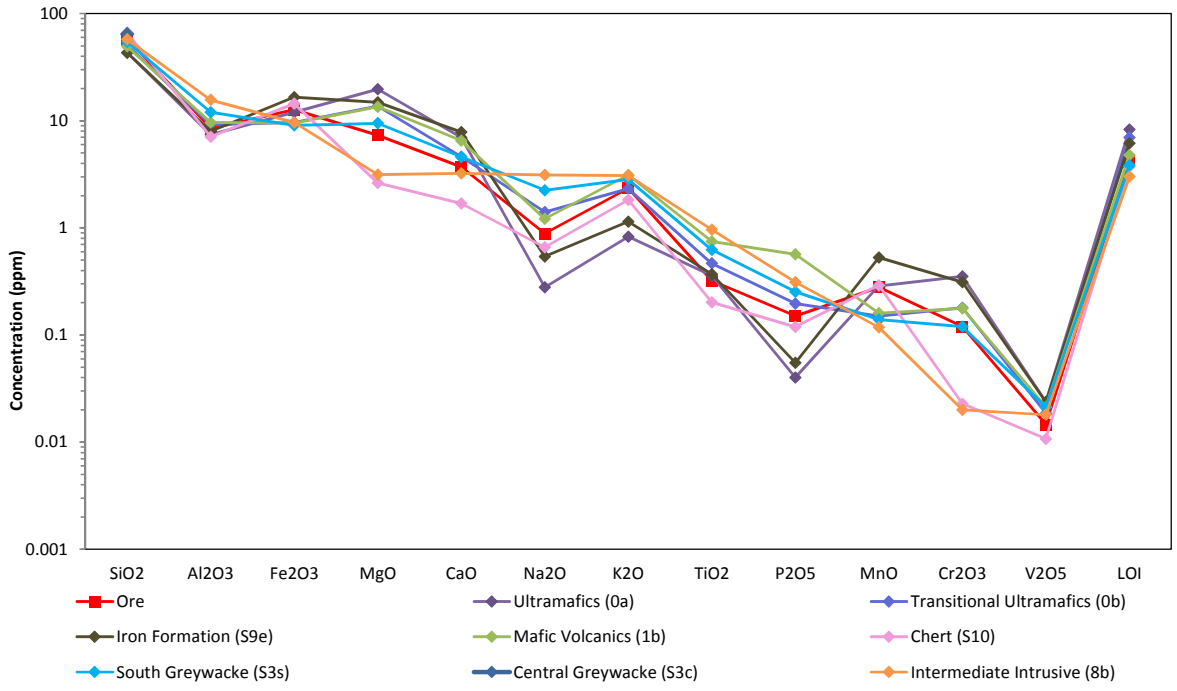
									Typical Crustal Abundance (ug/g) (Price, 1997)[a]		29	62200	18400	18	27640	1060	1.2	22700	99	1120	13	0.2	0.05	2.1	384	273000	6320	0.72	2.3	136	76
									Typical Crustal Abundance (ug/g) x5		145	311000	92000	90	138200	5300	6	113500	495	5600	65	1	0.25	10.5	1920	1365000	31600	3.6	11.5	680	380
Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample type		Distance to Ore		ICP																					
		From	To							Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Tin	Strontium	Silicon	Titanium	Thallium	Uranium	Vanadium	Zinc
										µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
AMQ-ENV-01	IVR14-130	11	20	1b	Mafic Volcanic (near UM contact)	Waste	Core	50		26	46000	18000	17	**54000**	870	0.7	100	**270**	800	**16**	< 0.8	< 0.7	0.7	240	9200	1600	0.68	0.62	69	44
AMQ-ENV-07	IVR14-116	16	25	1b	Mafic Volcanic	Waste	Core	47		**41**	47000	**25000**	**110**	**42000**	860	0.3	230	**220**	**8400**	7.8	< 0.8	< 0.7	1.2	**710**	7700	3500	**0.87**	1.3	89	63
AMQ-ENV-08	IVR14-116	30	39	1b	Mafic Volcanic	Waste	Core	36		**38**	39000	**24000**	**60**	**37000**	480	0.4	340	**190**	**5000**	**22**	< 0.8	< 0.7	0.6	**430**	12000	2800	0.64	0.95	69	56
AMQ-ENV-118	IVR14-151	200	209	1b	Mafic Volcanic	Waste	Core	31		**39**	51000	**22000**	**25**	**40000**	680	0.5	330	**190**	970	3.9	< 0.8	< 0.7	0.5	200	11000	2300	0.68	1.0	78	61
AMQ-ENV15-104	IVR14-087	100	110	1b	Mafic Volcanic	Waste	Core	31		**35**	42000	**19000**	**27**	**44000**	500	0.5	270	**250**	1000	13	< 0.8	< 0.7	< 0.5	110	12000	1900	0.55	0.85	93	46
AMQ-ENV15-094	IVR14-091	41	51	1b	Mafic Volcanic	Waste	Core	42		**57**	43000	16000	**29**	**38000**	650	**1.4**	290	**200**	**1300**	8.4	< 0.8	< 0.7	< 0.5	87	6100	1400	0.35	0.5	80	53
AMQ-ENV15-024	IVR14-141	38	47	1b	Mafic Volcanic	Waste	Core	67		**51**	31000	12000	**23**	25000	350	0.8	630	**140**	**1200**	8.5	< 0.8	< 0.7	< 0.5	49	9700	1200	0.31	1.2	46	36
AMQ-ENV-51	IVR14-103	218	228	1b	Mafic Volcanic (prev. logged GW)	Waste	Reject	36		29	35000	12000	**20**	**36000**	510	0.8	150	**340**	900	4.7	< 0.8	< 0.7	< 0.5	140	1100	1700	0.34	1.2	81	47
Mafic Volcanic - 1b									**Minimum**		*26*	*31000*	*12000*	*17*	*25000*	*350*	*0.3*	*100*	*140*	*800*	*3.9*	*< 0.8*	*< 0.7*	*< 0.5*	*49*	*1100*	*1200*	*0.31*	*0.5*	*46*	*36*
									Maximum		*57*	*51000*	*25000*	*110*	*54000*	*870*	*1.4*	*630*	*340*	*8400*	*22*	*< 0.8*	*< 0.7*	*1.2*	*710*	*12000*	*3500*	*0.87*	*1.3*	*93*	*63*
									Median		*39*	*42500*	*18500*	*26*	*39000*	*580*	*0.6*	*280*	*210*	*1100*	*8.5*	*nc*	*nc*	*0.5*	*170*	*9450*	*1800*	*0.6*	*0.98*	*79*	*50*
									Average		*40*	*41750*	*18500*	*39*	*39500*	*613*	*0.68*	*293*	*225*	*2446*	*11*	*nc*	*nc*	*0.63*	*246*	*8600*	*2050*	*0.55*	*0.95*	*76*	*51*
									Std. Deviation		*10*	*6563*	*5014*	*32*	*8177*	*186*	*0.35*	*160*	*61*	*2783*	*6.1*	*nc*	*nc*	*0.24*	*222*	*3660*	*776*	*0.2*	*0.29*	*15*	*9.2*
									75th Percentile		*44*	*46250*	*22500*	*37*	*42500*	*725*	*0.8*	*333*	*255*	*2225*	*14*	*nc*	*nc*	*0.63*	*288*	*11250*	*2425*	*0.68*	*1.2*	*83*	*57*
AMQ-ENV15-089	IVR14-079	78	88	S9E	Iron Formation	Ore	Core	0		**85**	**100000**	15000	**22**	13000	**1800**	0.5	160	**940**	120	4.7	**5.2**	< 0.7	< 0.5	24	4500	1200	0.45	0.11	61	42
AMQ-ENV15-134	AMQ15-433-02	32	42	S10	ALTV41	Ore	Core	0		19	**100000**	6300	8.0	6200	**1600**	**2.8**	65	37	940	**19**	**2.0**	< 0.7	0.8	9.8	4500	360	0.11	1.0	11	**110**
AMQ-ENV15-135	AMQ15-433-03	67	75	0a	ALTV42	Ore	Core	0		6.1	30000	9300	18	**36000**	540	0.4	50	**730**	94	0.97	**1.9**	< 0.7	< 0.5	38	4400	630	0.19	0.004	53	32
AMQ-ENV15-136	AMQ15-438-01	32	33	S10	QZ3	Ore	Core	0		**60**	47000	**29000**	**27**	**45000**	440	**1.7**	190	**220**	**1300**	1.4	< 0.8	< 0.7	0.6	28	5100	2400	**1.2**	1.2	87	45
AMQ-ENV15-137	AMQ15-438-02	33	38	0a	QZ4	Ore	Core	0		14	40000	9900	18	**50000**	840	0.7	56	**380**	700	1.8	< 0.8	< 0.7	< 0.5	100	3100	910	0.38	0.55	45	39
AMQ-ENV15-138	AMQ15-438-03	66	78	S10/UM	QZ2	Ore	Core	0		23	**83000**	3600	4.0	5500	1000	**3.0**	84	20	420	4.0	**1.7**	**1.0**	< 0.5	16	2900	250	0.16	0.39	10	36
AMQ-ENV15-139	AMQ15-438-04	88	98	S10	QZ2	Ore	Core	0		10	**90000**	11000	5.0	8800	**1100**	**1.6**	210	24	810	1.4	**1.5**	< 0.7	< 0.5	9.7	4300	510	0.26	0.53	15	18
AMQ-ENV15-140	AMQ15-481-01	190	200	S3C	QZ3	Ore	Core	0		27	32000	15000	**24**	15000	520	**1.6**	420	37	740	**20**	< 0.8	< 0.7	< 0.5	26	2800	1200	0.47	**3.4**	36	63
AMQ-ENV15-142	AMQ15-481-03	254	259	S3C	QZ2	Ore	Core	0		20	34000	6600	12	8500	630	**1.3**	400	19	970	**15**	< 0.8	< 0.7	< 0.5	43	3600	570	0.44	**4.0**	19	51
AMQ-ENV15-143	AMQ15-481-04	262	272	S3C	QZ2	Ore	Core	0		22	40000	8400	13	9700	460	**2.0**	610	26	840	**110**	**0.8**	**0.8**	< 0.5	29	4900	670	0.48	**3.1**	24	50
AMQ-ENV15-144	AMQ15-481-05	390	400	S3C	ALTV41	Ore	Core	0		**50**	**77000**	9000	13	9100	**1700**	**1.4**	200	**580**	260	**45**	**4.1**	**1.0**	< 0.5	38	3200	860	0.33	1.1	26	**150**
AMQ-ENV15-076	IVR14-156	145	155	0b	Ultramafic	Ore	Core	0		**46**	58000	7000	18	23000	760	**1.5**	57	**150**	470	9.7	**1.0**	**0.8**	< 0.5	91	3300	690	0.31	0.36	28	22
AMQ-ENV-52	IVR14-084	72	84	0b	Ultramafic	Ore	Reject	0		29	49000	10000	18	**30000**	750	0.9	82	**370**	450	**15**	< 0.8	**0.9**	< 0.5	88	1100	1100	0.31	0.48	48	**180**
Ore									**Minimum**		*6.1*	*30000*	*3600*	*4.0*	*5500*	*440*	*0.4*	*50*	*19*	*94*	*0.97*	*< 0.8*	*< 0.7*	*< 0.5*	*9.7*	*1100*	*250*	*0.11*	*0.004*	*10*	*18*
									Maximum		*85*	*100000*	*29000*	*27*	*50000*	*1800*	*3.0*	*610*	*940*	*1300*	*110*	*5.2*	*1.0*	*0.8*	*100*	*5100*	*2400*	*1.2*	*4.0*	*87*	*180*
									Median		*23*	*49000*	*9300*	*18*	*13000*	*760*	*1.5*	*160*	*150*	*700*	*9.7*	*1.0*	*0.7*	*0.5*	*29*	*3600*	*690*	*0.33*	*0.55*	*28*	*45*
									Average		*32*	*60000*	*10777*	*15*	*19985*	*934*	*1.5*	*199*	*272*	*624*	*19*	*1.7*	*0.78*	*0.53*	*42*	*3669*	*873*	*0.39*	*1.2*	*36*	*64*
									Std. Deviation		*23*	*26413*	*6347*	*7.0*	*15404*	*481*	*0.79*	*175*	*310*	*358*	*30*	*1.4*	*0.12*	*0.085*	*31*	*1100*	*548*	*0.27*	*1.3*	*23*	*50*
									75th Percentile		*46*	*83000*	*11000*	*18*	*30000*	*1100*	*1.7*	*210*	*380*	*840*	*19*	*1.9*	*0.8*	*0.5*	*43*	*4500*	*1100*	*0.45*	*1.2*	*48*	*63*
RE-13872/RE-13874	-	-	-	-	Processed ore	Tailing	milling reject	0		**280**	**90000**	6200	11	11000	**1300**	**4.3**	1300	**390**	320	**63**	**3.3**	**1.6**	2.1	35	1700	610	0.09	0.38	35	48
AMQ-ENV15-116	-	0	1.0	-	Overburden	Waste	Grab	-		3.3	18000	1300	7.0	3100	190	0.7	180	11	430	5.1	< 0.8	< 0.7	0.5	8.3	1300	430	0.06	1.2	13	32
AMQ-ENV15-130	-	0	1.0	-	Overburden	Waste	Grab	-		17	28000	3100	15	6200	300	**8.0**	340	30	540	11	< 0.8	< 0.7	0.8	17	1500	490	0.18	**5.9**	15	49
AMQ-ENV15-131	-	0	1.0	-	Overburden	Waste	Grab	-		5.6	15000	1500	9.0	4000	180	0.6	210	16	400	6.0	< 0.8	< 0.7	< 0.5	12	1500	340	0.07	1.8	11	29
AMQ-ENV15-132	-	0	1.0	-	Overburden	Waste	Grab	-		4.9	14000	1200	7.0	3200	200	0.6	180	13	400	5.4	< 0.8	< 0.7	< 0.5	12	1600	340	0.06	2.2	10	29
AMQ-ENV15-117	-	0	1.0	-	Overburden	Waste	Grab	-		6.9	26000	2400	12	5500	260	0.6	300	20	740	5.4	< 0.8	< 0.7	< 0.5	13	2100	670	0.08	1.1	33	45
AMQ-ENV15-118	-	0	1.0	-	Overburden	Waste	Grab	-		19	25000	5200	14	13000	390	**1.5**	310	72	670	7.4	< 0.8	< 0.7	0.5	25	1500	940	0.23	1.3	29	34
AMQ-ENV15-119	-	0	1.0	-	Overburden	Waste	Grab	-		9.8	20000	3100	10	6300	200	**7.2**	560	35	590	5.5	< 0.8	< 0.7	0.6	19	2100	520	0.09	1.2	14	31
AMQ-ENV15-125	-	0	1.0	-	Overburden	Waste	Grab	-		8.7	19000	2300	9.0	4100	220	**1.8**	450	17	400	6.5	< 0.8	< 0.7	0.7	18	2000	460	0.1	**2.6**	12	34
AMQ-ENV15-126	-	0	1.0	-	Overburden	Waste	Grab	-		7.7	19000	3300	10	4300	240	**6.0**	770	18	480	6.6	< 0.8	< 0.7	0.7	20	5300	520	0.1	2.2	10	32
AMQ-ENV15-127	-	0	1.0	-	Overburden	Waste	Grab	-		6.7	18000	2600	9.0	3700	240	**2.2**	550	15	420	6.1	< 0.8	< 0.7	0.7	17	2700	500	0.1	2.0	11	33
AMQ-ENV15-128	-	0	1.0	-	Overburden	Waste	Grab	-		6.8	16000	2600	7.0	3800	200	**6.8**	620	20	400	5.0	< 0.8	< 0.7	0.6	17	2300	400	0.07	1.6	7.0	26
AMQ-ENV15-129	-	0	1.0	-	Overburden	Waste	Grab	-		11	20000	2400	10	4600	290	**4.7**	420	22	430	8.0	< 0.8	< 0.7	0.7	16	1500	430	0.11	**2.9**	13	36
Overburden									**Minimum**		*3.3*	*14000*	*1200*	*7.0*	*3100*	*180*	*0.6*	*180*	*11*	*400*	*5.0*	*< 0.8*	*< 0.7*	*< 0.5*	*8.3*	*1300*	*340*	*0.06*	*1.1*	*7.0*	*26*
									Maximum		*19*	*28000*	*5200*	*15*	*13000*	*390*	*8.0*	*770*	*72*	*740*	*11*	*< 0.8*	*< 0.7*	*0.8*	*25*	*5300*	*940*	*0.23*	*5.9*	*33*	*49*
									Median		*7.3*	*19000*	*2500*	*9.5*	*4200*	*230*	*2.0*	*380*	*19*	*430*	*6.1*	*nc*	*nc*	*0.6*	*17*	*1800*	*475*	*0.095*	*1.9*	*13*	*33*
									Average		*9.0*	*19833*	*2583*	*9.9*	*5150*	*243*	*3.4*	*408*	*24*	*492*	*6.5*	*nc*	*nc*	*0.61*	*16*	*2117*	*503*	*0.1*	*2.2*	*15*	*34*
									Std. Deviation		*4.7*	*4387*	*1078*	*2.6*	*2689*	*60*	*2.9*	*188*	*17*	*118*	*1.7*	*nc*	*nc*	*0.11*	*4.4*	*1086*	*164*	*0.051*	*1.3*	*7.9*	*6.6*
									75th Percentile		*10*	*21250*	*3100*	*11*	*5675*	*268*	*6.2*	*553*	*24*	*553*	*6.8*	*nc*	*nc*	*0.7*	*18*	*2150*	*520*	*0.1*	*2.3*	*14*	*35*
WTN-1	-	0	0.1	-	Lake Sediment	Waste	Grab	-		**37**	**151000**	2040	13	5800	**6660**	**6.3**	292	92	**1830**	11	**0.25**	**0.78**	<2.0	22	-	379	0.22	**8.8**	24	**88**
WTN-2	-	0	0.1	-	Lake Sediment	Waste	Grab	-		**38**	**146000**	2060	12	5410	**23500**	**6.9**	302	**126**	**2250**	11	**0.27**	**0.78**	<2.0	30	-	370	0.24	**8.5**	22	**99**
WTN-3	-	0	0.1	-	Lake Sediment	Waste	Grab	-		**36**	**127000**	2150	14	6300	**2200**	**5.3**	257	60	**1770**	12	**0.25**	**0.75**	<2.0	22	-	413	0.15	**9.2**	26	**79**
WTN-4	-	0	0.1	-	Lake Sediment	Waste	Grab	-		**42**	**179000**	2110	13	6110	**5430**	**8.6**	355	93	**2750**	13	**0.34**	**0.96**	<2.0	25	-	393	0.21	**9.6**	25	**96**
WTN-5	-	0	0.1	-	Lake Sediment	Waste	Grab	-		**39**	**139000**	1840	13	5880	**3900**	**5.8**	328	**108**	**2020**	12	**0.27**	**0.76**	<2.0	19	-	308	0.24	**9.2**	24	**93**
Lake Sediment									**Minimum**		*36*	*127000*	*1840*	*12*	*5410*	*2200*	*5.3*	*257*	*60*	*1770*	*11*	*0.25*	*0.75*	*< 2*	*19*	*< 0*	*308*	*0.15*	*8.5*	*22*	*79*
									Maximum		*42*	*179000*	*2150*	*14*	*6300*	*23500*	*8.6*	*355*	*126*	*2750*	*13*	*0.34*	*0.96*	*< 2*	*30*	*< 0*	*413*	*0.24*	*9.6*	*26*	*99*
									Median		*38*	*146000*	*2060*	*13*	*5880*	*5430*	*6.3*	*302*	*93*	*2020*	*12*	*0.27*	*0.78*	*nc*	*22*	*nc*	*379*	*0.22*	*9.2*	*24*	*93*
									Average		*38*	*148400*	*2040*	*13*	*5900*	*8338*	*6.6*	*307*	*96*	*2124*	*12*	*0.28*	*0.81*	*nc*	*23*	*nc*	*373*	*0.21*	*9.1*	*24*	*91*
									Std. Deviation		*2.3*	*19334*	*120*	*0.84*	*337*	*8639*	*1.3*	*37*	*24*	*397*	*0.76*	*0.037*	*0.087*	*nc*	*4.0*	*nc*	*40*	*0.035*	*0.45*	*1.4*	*7.9*
									75th Percentile		*39*	*151000*	*2110*	*13*	*6110*	*6660*	*6.9*	*328*	*108*	*2250*	*12*	*0.27*	*0.78*	*nc*	*25*	*nc*	*393*	*0.24*	*9.2*	*25*	*96*

Notes:

a) Price, 1997. Guidelines and Recommended Methods for the Prediction of Metal Leaching and Acid Rock Drainage at Minesites in British

nc - statistic could not be calculated

1	Result exceeds the Price Crustal Abundance.
1.0	Result exceeds 5x the Price Crustal Abundance.



Notes:
Average concentrations plotted
MDL values were used in average calculations if their concentrations are less than the MDL

Oxide Content

All Lithologies

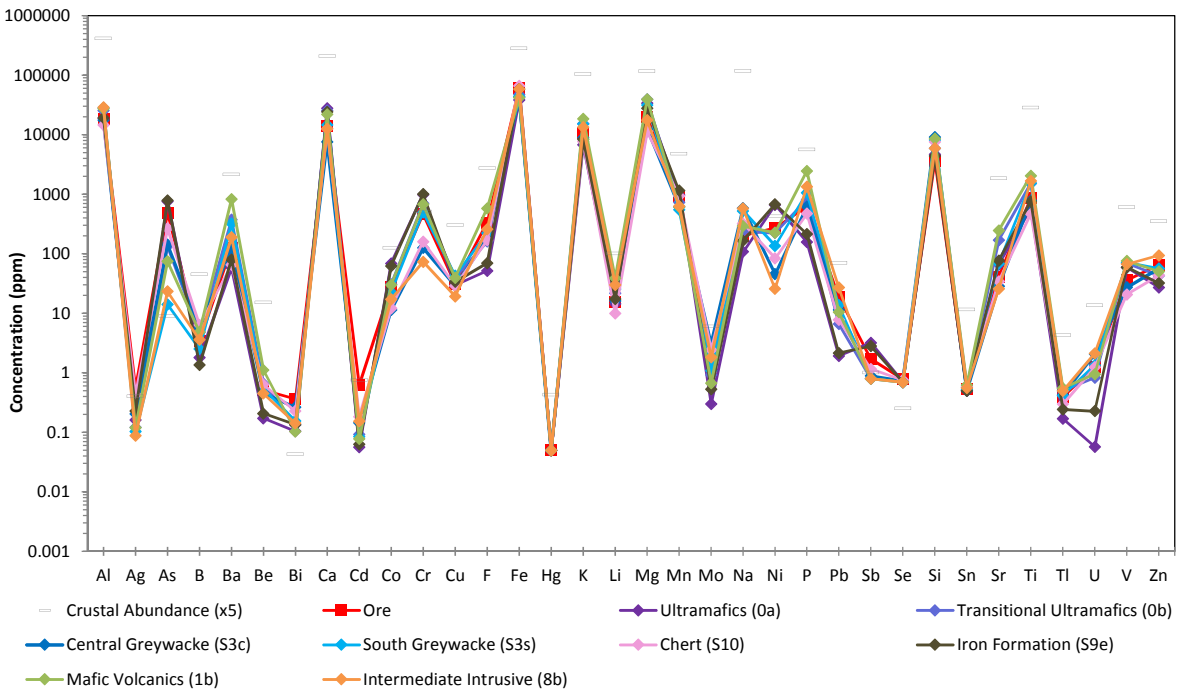
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-2.1



Notes:
Average concentrations plotted
MDL values were used in average calculations if their concentrations are less than the MDL

Trace Element Content

All Lithologies

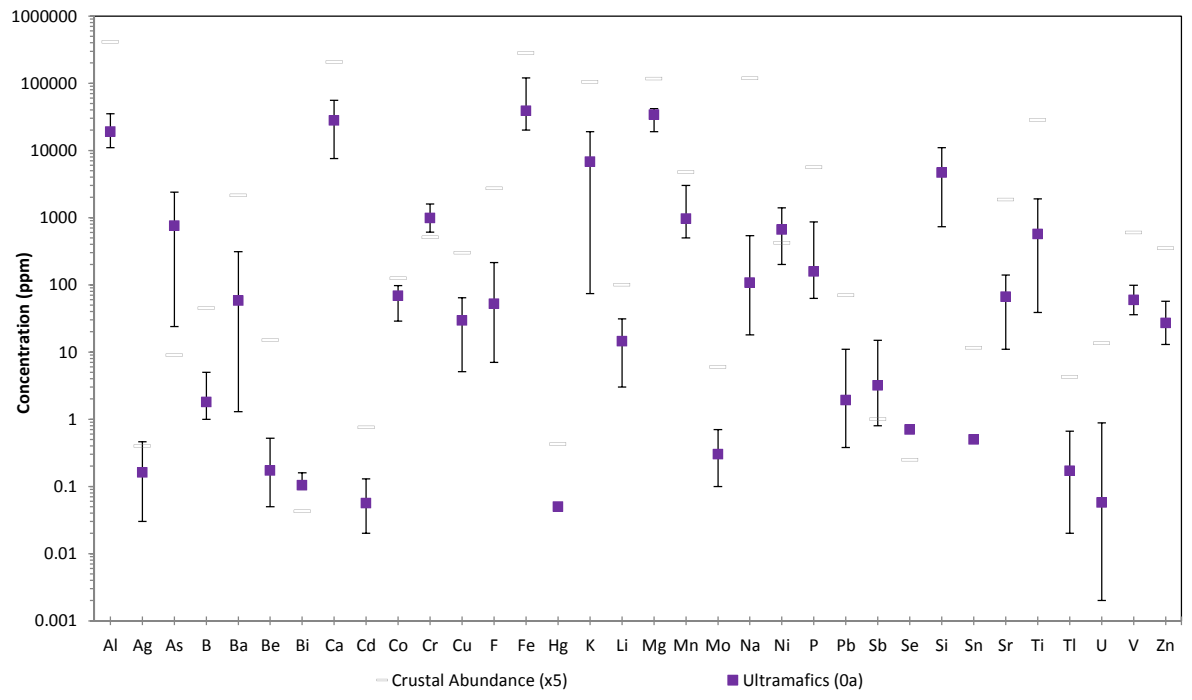
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-2.2



Notes:

Average concentrations plotted

MDL values were used in average calculations if their concentrations are less than the MDL

Trace Element Content

Ultramafics (0a)

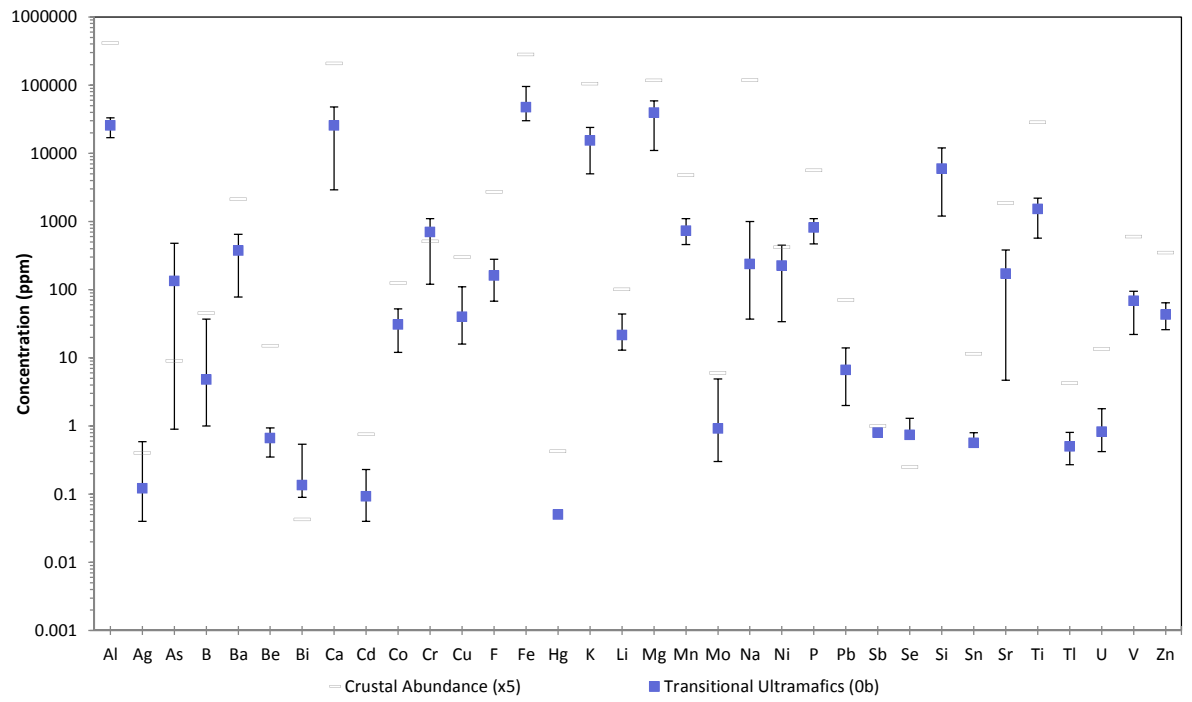
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-2.3



Notes:

Average concentrations plotted

MDL values were used in average calculations if their concentrations are less than the MDL

Trace Element Content

Transitional Ultramafics (0b)

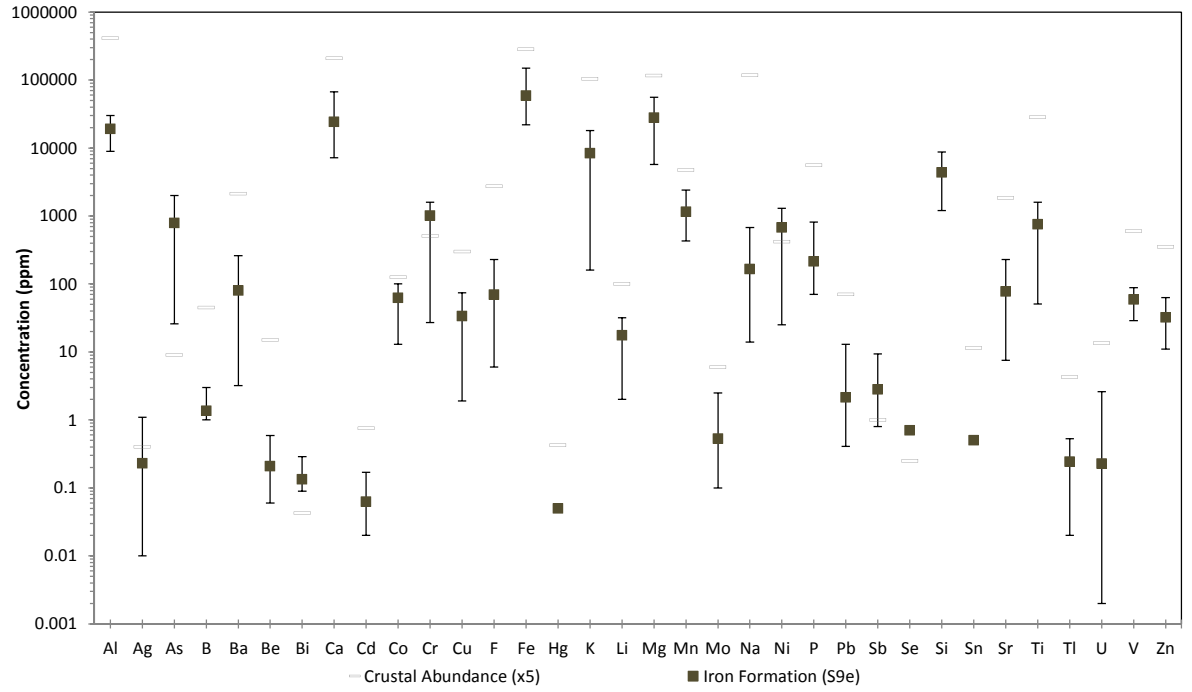
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-2.4



Notes:

Average concentrations plotted

MDL values were used in average calculations if their concentrations are less than the MDL

Trace Element Content

Iron Formation (S9e)

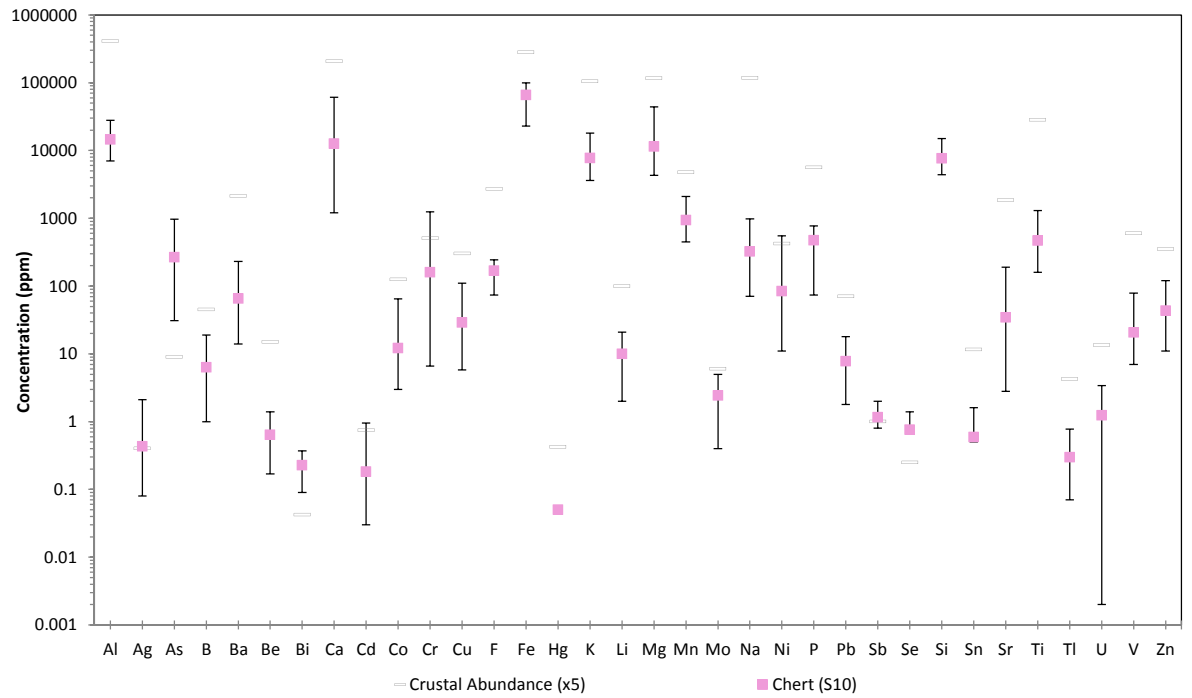
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

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APPENDIX FIGURE E-2.5



Notes:

Average concentrations plotted

MDL values were used in average calculations if their concentrations are less than the MDL

Trace Element Content

Chert (S10)

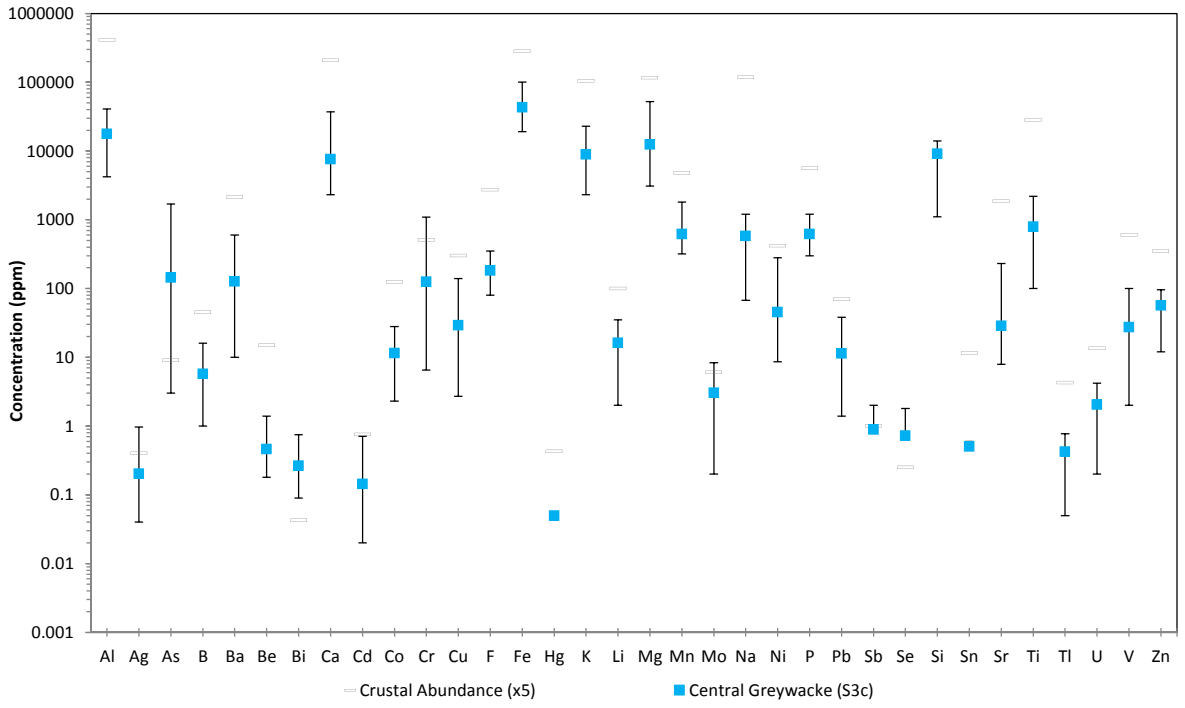
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-2.6



Notes:

Average concentrations plotted

MDL values were used in average calculations if their concentrations are less than the MDL

Trace Element Content

Central Greywacke (S3c)

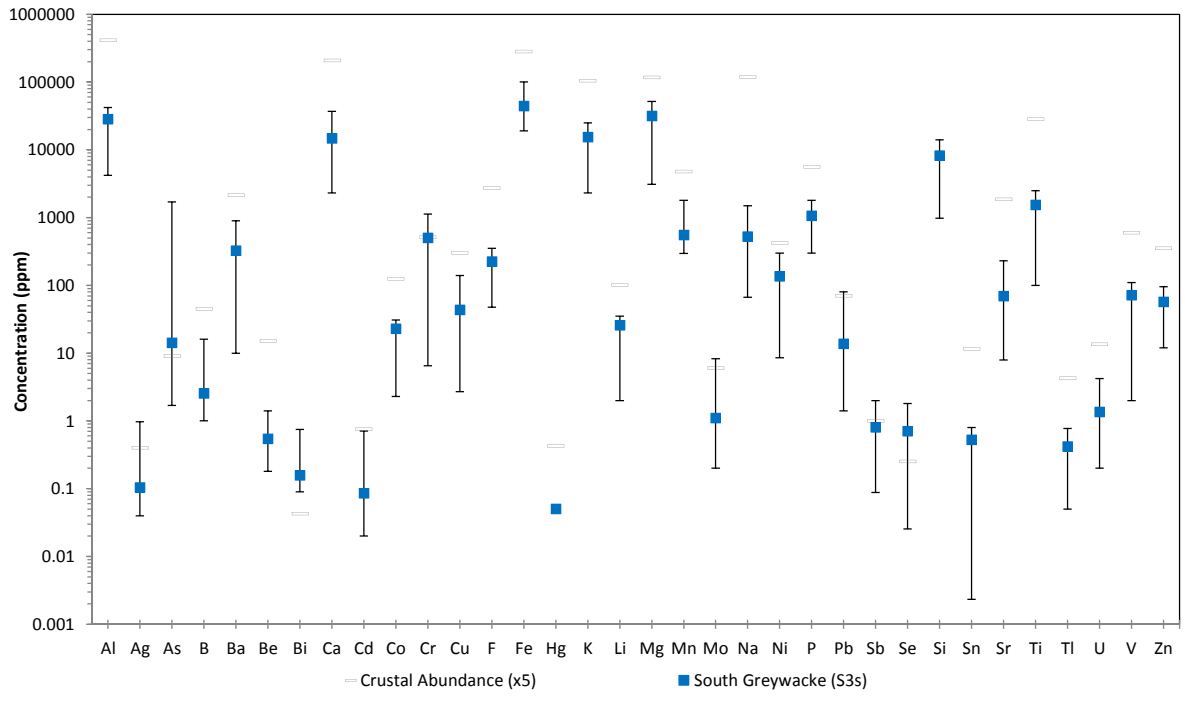
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

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APPENDIX FIGURE E-2.7



Notes:

Average concentrations plotted

MDL values were used in average calculations if their concentrations are less than the MDL

Trace Element Content

South Greywacke (S3s)

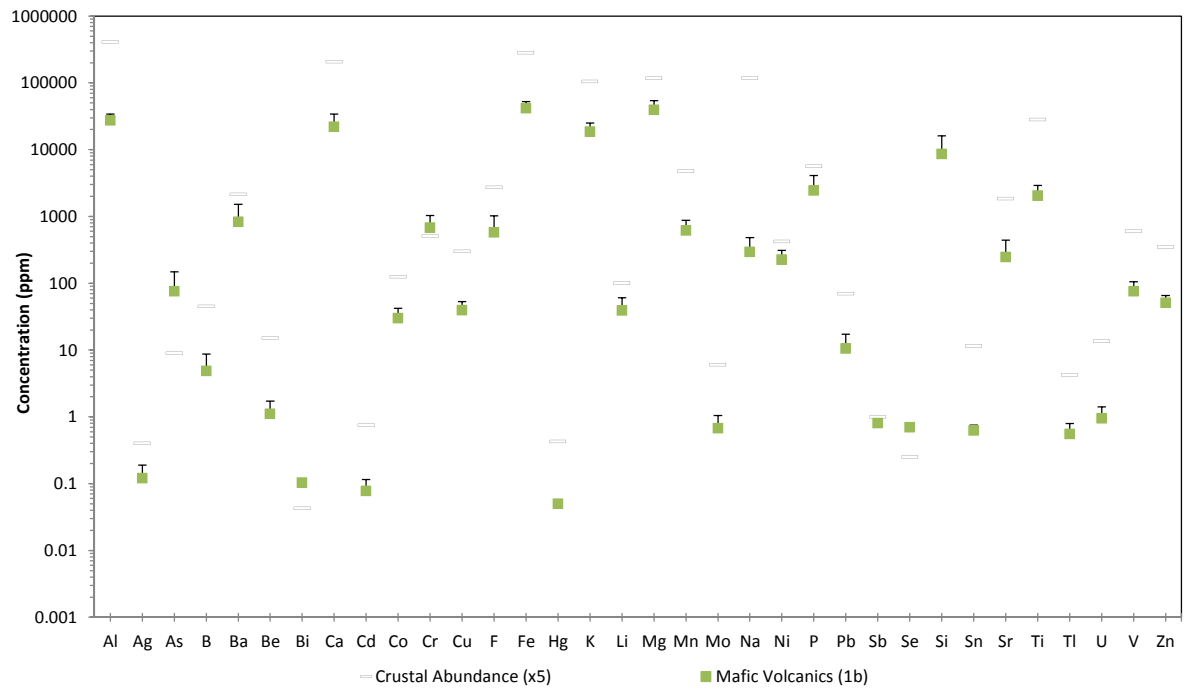
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

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APPENDIX FIGURE E-2.8



Notes:

Average concentrations plotted

MDL values were used in average calculations if their concentrations are less than the MDL

Trace Element Content

Mafic Volcanic (1b)

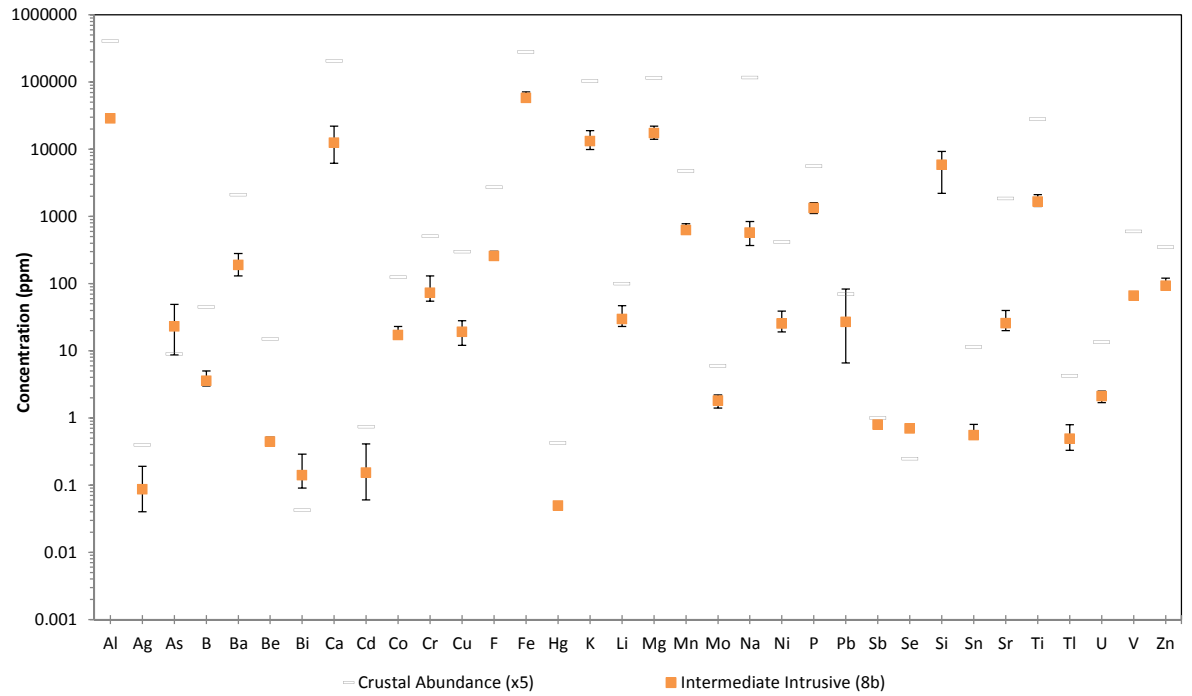
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

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APPENDIX FIGURE E-2.9



Notes:

Average concentrations plotted

MDL values were used in average calculations if their concentrations are less than the MDL

Trace Element Content

Intermediate Intrusive (8b)

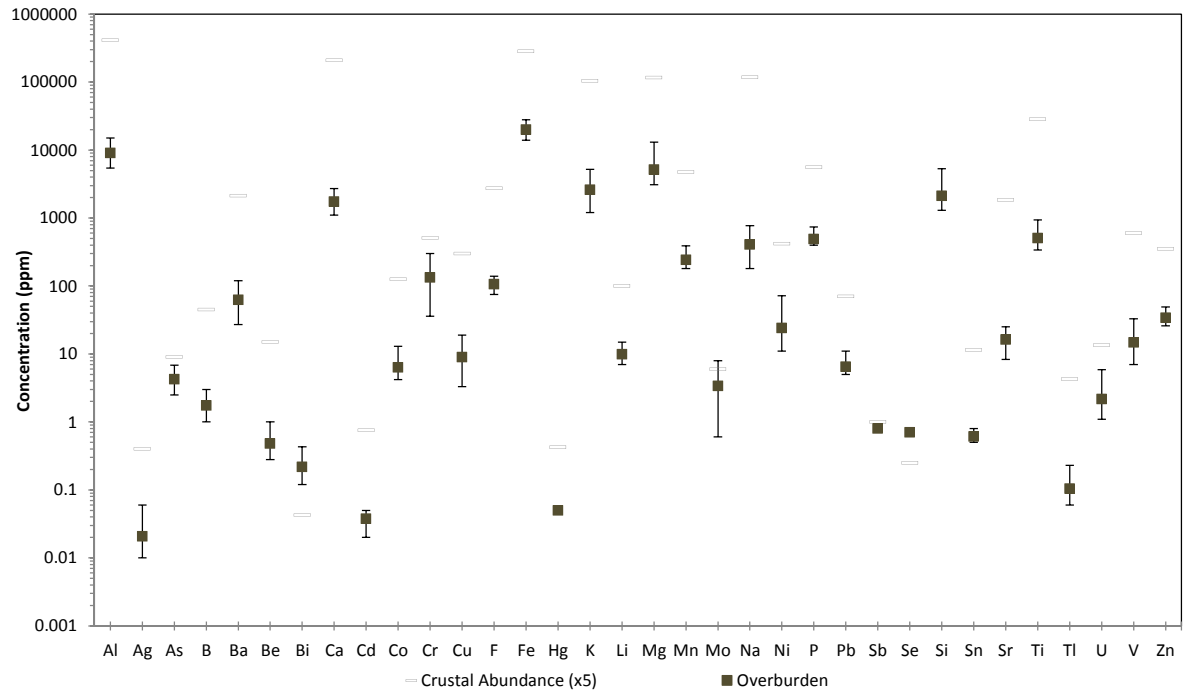
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-2.10



Notes:
Average concentrations plotted
MDL values were used in average calculations if their concentrations are less than the MDL

Trace Element Content

Overburden

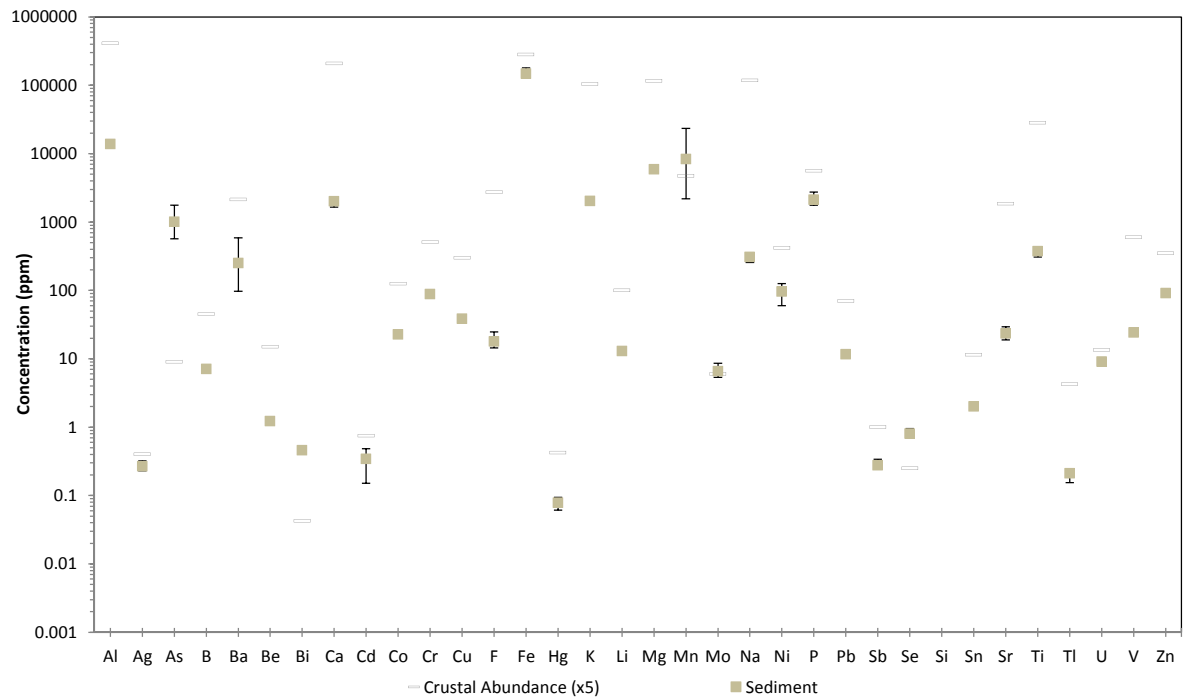
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

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APPENDIX FIGURE E-2.11



Notes:
Average concentrations plotted
MDL values were used in average calculations if their concentrations are less than the MDL

Trace Element Content

Lake Sediment

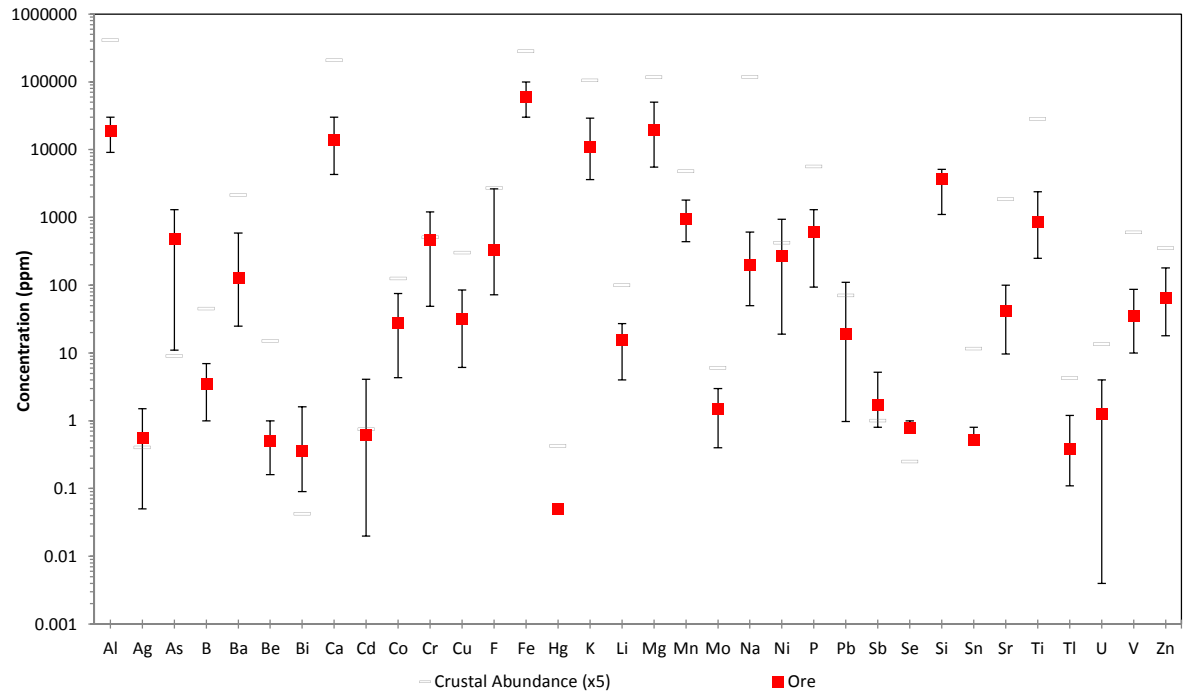
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

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APPENDIX FIGURE E-2.12



Notes:

Average concentrations plotted

MDL values were used in average calculations if their concentrations are less than the MDL

Trace Element Content

Ore

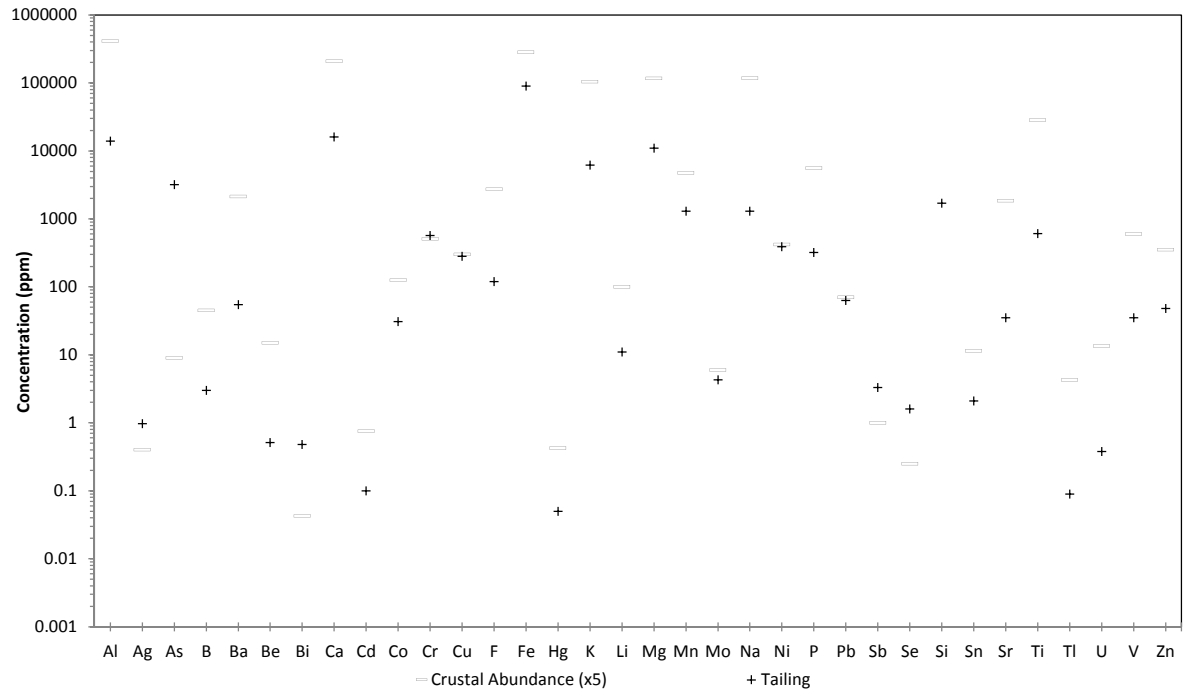
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

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APPENDIX FIGURE E-2.13



Notes:

Average concentrations plotted

MDL values were used in average calculations if their concentrations are less than the MDL

Trace Element Content

Tailings

PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

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APPENDIX FIGURE E-2.14

E.3 – Acid Generation Potential

Appendix E.3
Acid Base Accounting Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample Type		Distance to Ore	ABA													
		From	To						Paste pH	Sulphur (total)	Acid Leachable SO4-S	Sulphide	Carbon (total)	Graphitic Carbon	Carbonate (Graphite Corrected)	AP	NP	Net NP	CaNP	CaNPR	NPR	ARD Potential
										%						t CaCO3/1000 t				ratio		
AMQ-ENV15-029	AMQ15-170	50	60	0a	Ultramafic	Waste	Core	0	8.8	0.017	0.02	< 0.01	1.6	< 0.01	7.6	0.53	127	126	127	239	239	non PAG
AMQ-ENV-44	IVR14-118	281	295	0a	Ultramafic	Waste	Core	39	9.7	0.02	0.02	< 0.01	1.0	< 0.01	5.1	0.63	98	97	85	137	157	non PAG
AMQ-ENV15-028	AMQ15-164	80	90	0a	Ultramafic	Waste	Core	24	8.9	0.06	0.03	0.03	1.1	< 0.01	5.3	1.9	103	102	88	47	55	non PAG
AMQ-ENV-16	IVR14-123	95	104	0a	Ultramafic	Waste	Core	17	9.7	0.022	0.02	< 0.01	1.3	< 0.01	6.4	0.69	106	108	107	156	154	non PAG
AMQ-ENV-31	IVR14-120	61	68	0a	Ultramafic	Waste	Core	10	9.4	0.18	0.04	0.14	0.29	< 0.01	1.4	5.8	43	38	23	4.1	7.5	non PAG
AMQ-ENV-32	IVR14-120	77	86	0a	Ultramafic	Waste	Core	6	9.6	0.028	0.03	< 0.01	1.5	< 0.01	7.6	0.88	124	120	127	145	142	non PAG
AMQ-ENV-33	IVR14-120	97	106	0a	Ultramafic	Waste	Core	32	9.6	0.017	0.02	< 0.01	1.1	< 0.01	5.5	0.53	98	100	92	174	184	non PAG
AMQ-ENV-39	IVR14-121A	151	160	0a	Ultramafic	Waste	Core	10	9.7	0.035	0.04	< 0.01	1.8	< 0.01	8.9	1.1	142	131	148	135	130	non PAG
AMQ-ENV-121	IVR14-149	190	199	0a	Ultramafic	Waste	Core	18	10	0.02	0.02	< 0.01	0.43	< 0.01	2.2	0.63	54	69	36	57	86	non PAG
AMQ-ENV15-030	AMQ15-170	160	170	0a	Ultramafic	Waste	Core	2	9.1	0.019	0.02	< 0.01	1.7	< 0.01	8.4	0.59	136	135	140	235	229	non PAG
AMQ-ENV15-016	AMQ15-225	31	40	0a	Ultramafic	Waste	Core	23	8.8	1.3	0.21	1.1	1.3	< 0.01	5.7	40	121	88	95	2.4	3.0	non PAG
AMQ-ENV15-011	AMQ15-232	149	159	0a	Ultramafic	Waste	Core	11	9.7	0.028	< 0.01	0.02	0.45	< 0.01	2.1	0.88	54	53	35	40	62	non PAG
AMQ-ENV15-014	AMQ15-236	25	35	0a	Ultramafic	Waste	Core	8	9.1	0.008	< 0.01	< 0.01	1.2	< 0.01	5.7	0.25	100	100	96	383	400	non PAG
AMQ-ENV15-090	IVR14-079	97	107	0a	Ultramafic	Waste	Core	11	9.6	0.15	0.01	0.14	0.79	< 0.01	3.6	4.7	74	69	60	13	16	non PAG
AMQ-ENV15-026	IVR14-141	224	234	0a	Ultramafic	Waste	Core	2	9.3	0.14	0.02	0.12	1.8	< 0.01	9.0	4.5	153	149	151	33	34	non PAG
AMQ-ENV15-055	IVR14-148	95	105	0a	Ultramafic	Waste	Core	29	9.1	0.042	0.03	0.01	0.79	< 0.01	3.8	1.3	66	66	63	48	50	non PAG
AMQ-ENV-49	IVR14-016	107	116	0a	Ultramafic	Waste	Reject	13	9.3	0.72	0.23	0.49	1.4	< 0.01	5.7	23	133	108	95	4.2	5.9	non PAG
AMQ-ENV-58	IVR14-056	44	54	0a	Ultramafic	Waste	Reject	4	9.8	0.21	0.02	0.18	0.85	< 0.01	3.7	6.4	92	78	61	9.5	14	non PAG
AMQ-ENV-69	IVR14-015	70	80	0a	Ultramafic	Waste	Reject	14	9.1	0.24	0.05	0.19	0.57	< 0.01	2.0	7.4	65	44	33	4.4	8.7	non PAG
AMQ-ENV-70	IVR14-015	83	93	0a	Ultramafic	Waste	Reject	19	9.5	0.033	0.03	< 0.01	0.97	< 0.01	4.3	1.0	91	82	72	70	88	non PAG
AMQ-ENV-73	IVR14-097	182	192	0a	Ultramafic	Waste	Reject	10	9.5	0.12	0.08	0.04	0.72	< 0.01	3.3	3.7	66	75	55	15	18	non PAG
Ultramafics - 0a								**Minimum**	*8.8*	*0.008*	*< 0.01*	*< 0.01*	*0.29*	*< 0.01*	*1.4*	*0.25*	*43*	*38*	*23*	*2.4*	*3.0*	**Bulk CaNPR = 17 Non PAG**
								Maximum	*10*	*1.3*	*0.23*	*1.1*	*1.8*	*< 0.01*	*9.0*	*40*	*153*	*149*	*151*	*383*	*400*	
								Median	*9.5*	*0.035*	*0.02*	*nc*	*1.1*	*nc*	*5.3*	*1.1*	*98*	*97*	*88*	*48*	*62*	
								Average	*9.3*	*0.16*	*0.046*	*nc*	*1.1*	*nc*	*5.1*	*5.0*	*97*	*92*	*85*	*93*	*99*	
								Std. Deviation	*nc*	*0.3*	*0.06*	*nc*	*0.45*	*nc*	*2.3*	*9.4*	*32*	*30*	*39*	*102*	*102*	
								75th Percentile	*nc*	*0.15*	*0.04*	*nc*	*1.4*	*nc*	*6.4*	*4.7*	*124*	*108*	*107*	*145*	*154*	
AMQ-ENV-02	IVR14-130	34	44	0b	Ultramafic	Waste	Core	49	9.7	< 0.005	< 0.01	< 0.01	1.5	< 0.01	7.5	< 0.16	137	127	125	803	877	non PAG
AMQ-ENV-09	IVR14-116	47	56	0b	Ultramafic	Waste	Core	25	9.9	0.044	0.02	0.02	0.53	< 0.01	2.6	1.4	58	69	44	32	42	non PAG
AMQ-ENV-10	IVR14-116	60	69	0b	Ultramafic	Waste	Core	15	9.6	< 0.005	< 0.01	< 0.01	1.6	< 0.01	8.2	< 0.16	137	126	137	874	877	non PAG
AMQ-ENV-113	IVR14-131	220	229	0b	Ultramafic	Waste	Core	28	10.0	0.099	0.04	0.06	0.42	< 0.01	2.1	3.1	51	58	35	11	16	non PAG
AMQ-ENV-119	IVR14-149	10	19	0b	Ultramafic	Waste	Core	100	9.9	0.02	0.01	0.01	0.66	< 0.01	3.3	0.63	80	74	55	88	128	non PAG
AMQ-ENV-122	IVR14-152	10	19	0b	Ultramafic	Waste	Core	96	9.6	0.17	0.02	0.15	0.27	< 0.01	1.4	5.4	38	33	23	4.2	7.0	non PAG
AMQ-ENV15-020	AMQ15-167	21	31	0b	Ultramafic	Waste	Core	3	8.9	0.37	0.09	0.28	0.59	0.03	2.5	12	51	42	41	3.6	4.4	non PAG
AMQ-ENV15-033	AMQ15-180	77	87	0b	Ultramafic	Waste	Core	1	9.7	0.011	0.01	< 0.01	1.3	< 0.01	6.5	0.34	114	114	108	313	332	non PAG
AMQ-ENV15-109	IVR14-099	50	60	0b	Ultramafic	Waste	Core	25	9.4	0.007	< 0.01	< 0.01	2.2	< 0.01	11	0.22	182	181	175	801	832	non PAG
AMQ-ENV15-081	IVR14-156	105	115	0b	Ultramafic	Waste	Core	29	9.5	0.1	0.03	0.07	0.25	< 0.01	1.1	3.1	30	28	19	6.0	9.6	non PAG
AMQ-ENV-54	IVR14-055	21	28	0b	Ultramafic	Waste	Reject	5	7.6	4.0	< 0.01	4.0	1.6	1.2	3.5	125	7.1	-94	58	0.47	0.057	PAG
AMQ-ENV-61	IVR14-101	201	210	0b	Ultramafic	Waste	Reject	44	10.0	0.066	0.03	0.04	0.9	< 0.01	4.2	2.1	99	91	70	34	48	non PAG
AMQ-ENV-62	IVR14-092	69	80	0b	Ultramafic	Waste	Reject	58	9.9	0.028	0.02	0.01	1.6	< 0.01	7.8	0.88	165	144	131	149	189	non PAG
AMQ-ENV-68	IVR14-110	233	242	0b	Ultramafic	Waste	Reject	30	9.6	< 0.005	< 0.01	< 0.01	2.1	< 0.01	9.6	< 0.16	166	163	160	1025	1062	non PAG
Transitional Ultramafics - 0b								**Minimum**	*7.6*	*< 0.005*	*< 0.01*	*< 0.01*	*0.25*	*< 0.01*	*1.1*	*< 0.16*	*7.1*	*-94*	*19*	*0.47*	*0.057*	**Bulk CaNPR = 7.7 Non PAG**
								Maximum	*10.0*	*4.0*	*0.09*	*4.0*	*2.2*	*1.2*	*11*	*125*	*182*	*181*	*175*	*1025*	*1062*	
								Median	*9.7*	*0.036*	*0.015*	*0.015*	*1.1*	*nc*	*3.8*	*1.1*	*90*	*82*	*64*	*61*	*88*	
								Average	*8.6*	*0.35*	*0.023*	*0.34*	*1.1*	*nc*	*5.1*	*11*	*94*	*83*	*84*	*296*	*316*	
								Std. Deviation	*nc*	*1.1*	*0.022*	*1.1*	*0.67*	*nc*	*3.2*	*33*	*57*	*70*	*53*	*393*	*404*	
								75th Percentile	*nc*	*0.10*	*0.028*	*0.068*	*1.6*	*nc*	*7.8*	*3.1*	*137*	*127*	*129*	*679*	*707*	

Appendix E.3
Acid Base Accounting Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

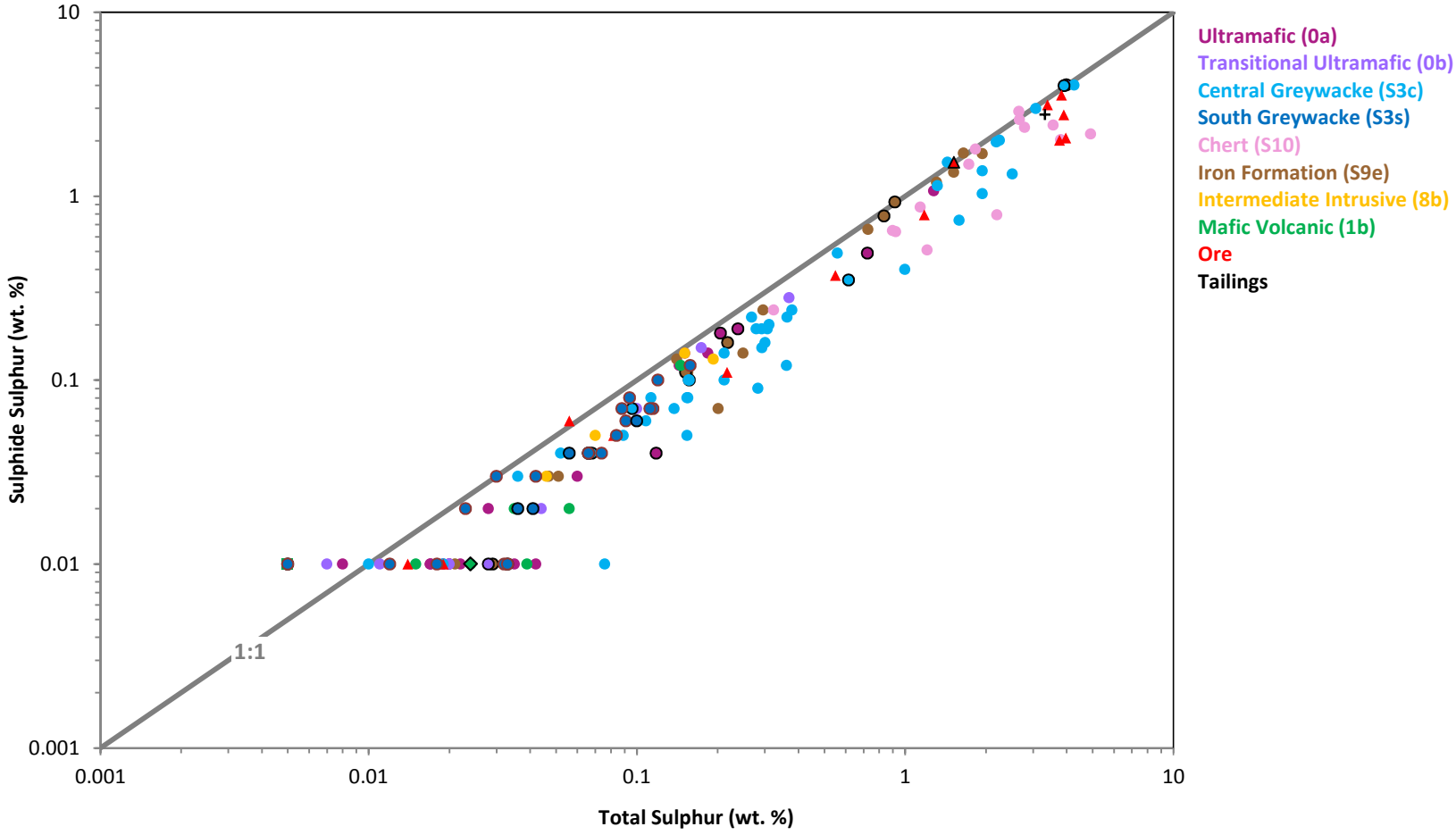
Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample Type		Distance to Ore	ABA													
		From	To						Paste pH	Sulphur (total)	Acid Leachable SO4-S	Sulphide	Carbon (total)	Graphitic Carbon	Carbonate (Graphite Corrected)	AP	NP	Net NP	CaNP	CaNPR	NPR	ARD Potential
										%						t CaCO3/1000 t				ratio		
AMQ-ENV15-009	AMQ15-232	92	102	S3C	Central Greywacke	Waste	Core	0	9.1	1.9	0.57	1.4	0.54	0.16	0.55	61	13	-30	9.1	0.15	0.21	PAG
AMQ-ENV15-025	IVR14-141	139	148	S3C	Central Greywacke	Waste	Core	0	9.7	1.9	0.91	1.0	1.3	0.5	1.8	61	65	33	30	0.5	1.1	PAG
AMQ-ENV-28	IVR14-120	14	25	S3C	Central Greywacke	Waste	Core	18	8.3	0.56	0.07	0.49	0.045	0.01	0.17	17	8.9	5.7	2.8	0.16	0.51	PAG
AMQ-ENV-29	IVR14-120	33	42	S3C	Central Greywacke	Waste	Core	7	8.5	3.1	0.08	3.0	0.7	0.48	0.55	96	16	-66	9.2	0.096	0.17	PAG
AMQ-ENV-34	IVR14-121A	22	31	S3C	Central Greywacke	Waste	Core	4	9.4	2.3	0.24	2.0	1.3	0.96	0.79	70	20	-25	13	0.19	0.28	PAG
AMQ-ENV-40	IVR14-118	14	23	S3C	Central Greywacke	Waste	Core	23	9.3	1.3	0.18	1.1	0.29	0.12	0.81	41	14	-15	14	0.33	0.34	PAG
AMQ-ENV-109	IVR14-146	10	19	S3C	Central Greywacke	Waste	Core	5	9.5	0.089	0.04	0.05	0.055	< 0.01	0.24	2.8	9.6	15	3.9	1.4	3.5	non PAG
AMQ-ENV15-042	AMQ15-178	210	220	S3C	Central Greywacke	Waste	Core	17	9.8	0.11	0.05	0.06	0.095	< 0.01	0.31	3.4	15	13	5.2	1.5	4.4	uncertain
AMQ-ENV15-008	AMQ15-232	69	79	S3C	Central Greywacke	Waste	Core	21	9.4	2.5	1.2	1.3	1.4	1.0	0.05	78	28	-13	0.83	0.011	0.36	PAG
AMQ-ENV15-091	IVR14-079	16	24	S3C	Central Greywacke	Waste	Core	16	8.5	1.4	< 0.01	1.5	0.27	0.03	0.27	45	11	-37	4.4	0.099	0.24	PAG
AMQ-ENV15-098	IVR14-089	92	102	S3C	Central Greywacke	Waste	Core	19	9.8	0.38	0.14	0.24	0.036	< 0.01	0.07	12	12	5.0	1.2	0.099	1.0	PAG
AMQ-ENV15-097	IVR14-091	190	200	S3C	Central Greywacke	Waste	Core	23	9.9	0.36	0.24	0.12	0.15	< 0.01	0.38	11	20	16	6.3	0.56	1.8	PAG
AMQ-ENV15-106	IVR14-099	95	104	S3C	Central Greywacke	Waste	Core	23	9.9	0.36	0.14	0.22	0.077	< 0.01	0.14	11	15	8.0	2.3	0.21	1.3	PAG
AMQ-ENV15-064	IVR14-114	105	114	S3C	Central Greywacke	Waste	Core	40	9.6	0.29	0.1	0.19	0.036	< 0.01	0.085	9.1	11	4.8	1.4	0.16	1.2	PAG
AMQ-ENV15-048	IVR14-141	119	129	S3C	Central Greywacke	Waste	Core	11	9.8	0.15	0.07	0.08	0.47	0.04	1.6	4.8	37	34	27	5.5	7.7	non PAG
AMQ-ENV15-073	IVR14-153	45	55	S3C	Central Greywacke	Waste	Core	3	9.8	0.21	0.07	0.14	0.024	< 0.01	0.04	6.6	11	6.5	0.67	0.1	1.7	PAG
AMQ-ENV15-075	IVR14-153	90	100	S3C	Central Greywacke	Waste	Core	12	9.7	1.0	0.6	0.4	0.19	< 0.01	0.46	31	19	6.7	7.7	0.25	0.61	PAG
AMQ-ENV15-074	IVR14-153	150	160	S3C	Central Greywacke	Waste	Core	3	9.8	0.3	0.14	0.16	0.11	< 0.01	0.27	9.4	16	11	4.5	0.48	1.7	PAG
AMQ-ENV-03	IVR14-130	62	71	S3C	Central Greywacke	Waste	Core	50	9.3	0.27	0.05	0.22	0.056	< 0.01	0.27	8.4	4.4	14	4.4	0.53	0.53	PAG
AMQ-ENV-11	IVR14-116	175	184	S3C	Central Greywacke	Waste	Core	30	10	0.28	0.19	0.09	0.16	0.01	0.75	8.8	20	27	12	1.4	2.3	uncertain
AMQ-ENV-12	IVR14-116	250	259	S3C	Central Greywacke	Waste	Core	35	9.8	0.076	0.08	< 0.01	0.11	0.01	0.53	2.4	16	32	8.8	3.7	6.7	non PAG
AMQ-ENV-13	IVR14-123	9	19	S3C	Central Greywacke	Waste	Core	27	9.2	0.11	0.03	0.08	0.077	< 0.01	0.37	3.5	11	23	6.1	1.7	3.1	uncertain
AMQ-ENV-14	IVR14-123	21	30	S3C	Central Greywacke	Waste	Core	19	9.6	0.16	0.06	0.1	0.044	0.02	0.15	4.9	9.8	16	2.4	0.49	2.0	PAG
AMQ-ENV-18	IVR14-114	18	27	S3C	Central Greywacke	Waste	Core	25	9.8	0.31	0.12	0.19	0.086	0.01	0.39	9.6	14	20	6.5	0.68	1.5	PAG
AMQ-ENV-19	IVR14-114	75	84	S3C	Central Greywacke	Waste	Core	24	9.7	0.16	0.08	0.08	0.079	< 0.01	0.37	4.8	14	37	6.1	1.3	2.9	uncertain
AMQ-ENV-20	IVR14-114	190	199	S3C	Central Greywacke	Waste	Core	11	10.0	0.15	0.1	0.05	0.1	0.01	0.46	4.8	16	28	7.7	1.6	3.3	uncertain
AMQ-ENV-36	IVR14-121A	75	84	S3C	Central Greywacke	Waste	Core	14	9.2	2.2	0.22	2.0	0.29	0.03	1.3	68	21	-23	21	0.3	0.31	PAG
AMQ-ENV-37	IVR14-121A	95	104	S3C	Central Greywacke	Waste	Core	24	9.5	0.16	0.06	0.1	0.22	0.02	1.1	4.9	23	28	18	3.6	4.7	non PAG
AMQ-ENV-41	IVR14-118	86	96	S3C	Central Greywacke	Waste	Core	21	10	0.019	0.02	< 0.01	0.08	0.01	0.37	0.59	15	35	6.2	10	25	non PAG
AMQ-ENV-46	IVR14-130	149	155	S3C	Central Greywacke	Waste	Core	21	9.9	0.14	0.07	0.07	0.12	< 0.01	0.57	4.3	17	21	9.5	2.2	3.9	non PAG
AMQ-ENV15-006	AMQ15-232	21	31	S3C	Central Greywacke	Waste	Core	21	9.2	0.01	0.01	< 0.01	0.35	< 0.01	1.6	0.31	51	51	26	84	163	non PAG
AMQ-ENV15-012	AMQ15-241	15	25	S3C	Central Greywacke	Waste	Core	44	9.4	0.052	0.01	0.04	0.11	< 0.01	0.39	1.6	28	27	6.5	4.0	17	non PAG
AMQ-ENV15-004	AMQ15-245a	32	42	S3C	Central Greywacke	Waste	Core	36	9.6	0.036	< 0.01	0.03	0.19	< 0.01	0.76	1.1	36	36	13	11	32	non PAG
AMQ-ENV15-005	AMQ15-245a	45	55	S3C	Central Greywacke	Waste	Core	25	9.3	< 0.005	< 0.01	< 0.01	0.56	< 0.01	2.5	< 0.16	61	61	42	269	390	non PAG
AMQ-ENV-108	IVR14-099	150	160	S3C	Central Greywacke	Waste	Core	22	9.9	0.29	0.14	0.15	0.071	< 0.01	0.16	9.2	13	8.5	2.6	0.28	1.4	PAG
AMQ-ENV15-065	IVR14-114	125	135	S3C	Central Greywacke	Waste	Core	29	9.9	0.31	0.11	0.2	0.062	< 0.01	0.15	9.7	14	7.7	2.5	0.26	1.4	PAG
AMQ-ENV15-066	IVR14-114	148	157	S3C	Central Greywacke	Waste	Core	21	9.7	0.28	0.09	0.19	0.054	< 0.01	0.12	8.7	14	8.1	1.9	0.22	1.6	PAG
AMQ-ENV15-112	IVR14-125A	310	320	S3C	Central Greywacke	Waste	Core	6	10	1.6	0.85	0.74	0.49	0.38	0.075	50	13	-10	1.3	0.025	0.26	PAG
AMQ-ENV15-054	IVR14-150	35	45	S3C	Central Greywacke	Waste	Core	30	8.4	4.3	0.26	4.0	0.28	< 0.01	0.55	133	30	-95	9.2	0.069	0.22	PAG
AMQ-ENV15-107	IVR14-099	115	125	S3C	Central Greywacke	Waste	Core	32	10.0	0.21	0.11	0.1	0.08	< 0.01	0.21	6.6	15	12	3.5	0.53	2.3	PAG
AMQ-ENV-48	IVR14-016	70	80	S3C	Central Greywacke	Waste	Reject	0	8.4	3.9	< 0.01	4.0	1.1	0.38	1.5	123	32	-40	25	0.2	0.26	PAG
AMQ-ENV-53	IVR14-084	150	161	S3C	Central Greywacke	Waste	Reject	10	9.8	0.62	0.27	0.35	0.39	0.07	0.89	19	27	27	15	0.77	1.4	PAG
AMQ-ENV-63	IVR14-092	80	88	S3C	Central Greywacke	Waste	Reject	54	10	0.068	0.03	0.04	0.76	< 0.01	3.4	2.1	84	78	57	27	40	non PAG
Central Greywacke - S3C							**Minimum**		*8.3*	*< 0.005*	*< 0.01*	*< 0.01*	*0.024*	*< 0.01*	*0.04*	*< 0.16*	*4.4*	*-95*	*0.67*	*0.011*	*0.17*	**Bulk CaNPR = 0.43 PAG**
							Maximum		*10*	*4.3*	*1.2*	*4.0*	*1.4*	*1.0*	*3.4*	*133*	*84*	*78*	*57*	*269*	*390*	
							Median		*9.7*	*0.29*	*0.09*	*0.16*	*0.12*	*nc*	*0.39*	*9.1*	*16*	*13*	*6.5*	*0.5*	*1.6*	
							Average		*9.2*	*0.79*	*0.18*	*0.61*	*0.3*	*nc*	*0.64*	*25*	*22*	*9.3*	*11*	*10*	*17*	
							Std. Deviation		*nc*	*1.1*	*0.26*	*1.0*	*0.36*	*nc*	*0.69*	*34*	*16*	*31*	*12*	*43*	*64*	
							75th Percentile		*nc*	*1.2*	*0.19*	*0.62*	*0.37*	*nc*	*0.78*	*36*	*25*	*28*	*13*	*1.7*	*3.7*	
AMQ-ENV-112	IVR14-131	10	19	S3s	South Greywacke	Waste	Core	296	9.6	0.074	0.03	0.04	0.21	< 0.01	1.0	2.3	24	32	17	7.4	10	non PAG
AMQ-ENV-115	IVR14-144	70	79	S3s	South Greywacke	Waste	Core	101	9.6	0.091	0.03	0.06	0.16	< 0.01	0.77	2.8	21	34	13	4.5	7.4	non PAG
AMQ-ENV-116	IVR14-144	186	195	S3s	South Greywacke	Waste	Core	47	9.9	0.066	0.03	0.04	0.38	< 0.01	1.9	2.1	52	56	31	15	25	non PAG
AMQ-ENV-117	IVR14-151	15	24	S3s	South Greywacke	Waste	Core	111	9.9	0.094	0.01	0.08	0.36	0.03	1.7	2.9	40	49	28	9.4	14	non PAG
AMQ-ENV-120	IVR14-149	50	59	S3s	South Greywacke	Waste	Core	74	10.0	0.042	0.01	0.03	0.22	< 0.01	1.1	1.3	39	43	18	14	30	non PAG
AMQ-ENV15-023	AMQ15-161	28	38	S3s	South Greywacke	Waste	Core	56	10	0.032	0.02	0.01	0.16	< 0.01	0.55	1.0	34	33	9.1	9.1	34	non PAG
AMQ-ENV15-022	AMQ15-161	60	70	S3s	South Greywacke	Waste	Core	36	10.0	0.084	0.03	0.05	0.4	< 0.01	1.8	2.6	62	60	29	11	24	non PAG
AMQ-ENV15-032	AMQ15-180	25	35	S3s	South Greywacke	Waste	Core	33	9.9	0.033	0.02	0.01	0.21	< 0.01	0.81	1.0	43	43	14	13	42	non PAG
AMQ-ENV15-003	AMQ15-187	32	42	S3s	South Greywacke	Waste	Core	56	9.9	0.018	< 0.01	0.01	0.28	< 0.01	1.2	0.56	49	49	19	34	87	non PAG
AMQ-ENV15-001	AMQ15-187	95	105	S3s	South Greywacke	Waste	Core	18	9.7	0.088	0.02	0.07	0.1	< 0.01	0.36	2.8	26	24	6.0	2.2	9.5	non PAG
AMQ-ENV15-047	AMQ15-188	29	39	S3s	South Greywacke	Waste	Core	12	9.4	< 0.005	< 0.01	< 0.01	0.33	< 0.01	1.5	< 0.16	48	48	25	158	307	non PAG
AMQ-ENV15-013	AMQ15-241	76	86	S3s	South Greywacke	Waste	Core	13	9.8	0.03	< 0.01	0.03	0.27	< 0.01	1.2	0.94	42	41	20	22	45	non PAG
AMQ-ENV15-101	IVR14-087	20	30	S3s	South Greywacke	Waste	Core	117	9.5	0.16	0.04	0.12	0.65	< 0.01	2.9	4.9	76	73	48	9.8	15	non PAG
AMQ-ENV15-102	IVR14-087	50	60	S3s	South Greywacke	Waste	Core	88	9.9	0.12	0.04	0.07	0.29	< 0.01	1.1	3.6	49	47	19	5.3	14	non PAG
AMQ-ENV15-103	IVR14-087	75	85	S3s	South Greywacke	Waste	Core	59	9.6	0.012	0.01	< 0.01	0.47	< 0.01	2.0	0.38	44	44	34	91	117	non PAG
AMQ-ENV15-093	IVR14-091	20	30	S3s	South Greywacke	Waste	Core	59	9.5	0.12	0.02	0.1	0.82	< 0.01	3.3	3.8	72	69	54	14	19	non PAG
AMQ-ENV15-110	IVR14-099	15	25	S3s	South Greywacke	Waste	Core	58	9.7	0.11	0.04	0.07	0.35	< 0.01	1.4	3.5	36	34	23	6.5	10	non PAG
AMQ-ENV15-049	IVR14-141	13	22	S3s	South Greywacke	Waste	Core	82	9.6	0.023	< 0.01	0.02	0.31	< 0.01	1.3	0.72	46	45	22	30	64	non PAG
AMQ-ENV-50	IVR14-103	125	132	S3s	South Greywacke	Waste	Reject	55	9.8	0.096	0.03	0.07	0.8	< 0.01	3.6	3.0	87	73	60	20	29	non PAG
AMQ-ENV-60	IVR14-101	119	128	S3s	South Greywacke	Waste	Reject	81	9.5	0.056	0.02	0.04	0.64	< 0.01	2.9	1.8	69	67	49	28	39	non PAG
AMQ-ENV-66	IVR14-110	92	100	S3s	South Greywacke	Waste	Reject	247	9.9	0.041	0.02	0.02	0.13	< 0.01	0.38	1.3	31	38	6.3	4.9	24	non PAG
AMQ-ENV-67	IVR14-110	197	207	S3s	South Greywacke	Waste	Reject	49	10.0	0.036	0.02	0.02	0.17	< 0.01	0.64	1.1	36	43	11	9.5	32	non PAG
AMQ-ENV-71	IVR14-046	114	126	S3s	South Greywacke	Waste	Reject	124	9.7	0.1	0.04	0.06	0.25	< 0.01	0.77	3.1	35	38	13	4.1	11	non PAG
South Greywacke - S3s							**Minimum**		*9.4*	*< 0.005*	*< 0.01*	*< 0.01*	*0.1*	*< 0.01*	*0.36*	*< 0.16*	*21*	*24*	*6.0*	*2.2*	*7.4*	**Bulk CaNPR = 12 Non PAG**
							Maximum		*10*	*0.16*	*0.04*	*0.12*	*0.82*	*0.03*	*3.6*	*4.9*	*87*	*73*	*60*	*158*	*307*	
							Median		*9.8*	*0.066*	*0.02*	*0.04*	*0.29*	*nc*	*1.2*	*2.1*	*43*	*44*	*20*	*11*	*25*	
							Average		*9.7*	*0.066*	*0.023*	*0.045*	*0.35*	*nc*	*1.5*	*2.1*	*46*	*47*	*25*	*23*	*44*	
							Std. Deviation		*nc*	*0.041*	*0.011*	*0.031*	*0.2*	*nc*	*0.91*	*1.3*	*17*	*13*	*15*	*35*	*63*	
							75th Percentile		*nc*	*0.095*	*0.03*	*0.07*	*0.39*	*nc*	*1.8*	*3.0*	*51*	*52*	*30*	*21*	*41*	

Appendix E.3
Acid Base Accounting Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample Type		Distance to Ore	ABA													
		From	To						Paste pH	Sulphur (total)	Acid Leachable SO4-S	Sulphide	Carbon (total)	Graphitic Carbon	Carbonate (Graphite Corrected)	AP	NP	Net NP	CaNP	CaNPR	NPR	ARD Potential
										%						t CaCO3/1000 t				ratio		
AMQ-ENV15-019	AMQ15-167	47	57	S10	Chert	Waste	Core	0	8.8	2.7	< 0.01	2.9	0.71	0.27	0.33	83	21	-69	5.5	0.066	0.25	PAG
AMQ-ENV15-133	AMQ15-433-01	20	30	S10	Chert	Waste	Core	-	8.6	2.8	0.43	2.4	0.49	< 0.05	0.13	87	13	-61	2.1	0.024	0.15	PAG
AMQ-ENV15-141	AMQ15-481-02	225	235	S10	Chert	Waste	Core	-	10	0.92	0.28	0.64	0.75	0.4	2.5	29	25	5.0	41	1.4	0.87	uncertain
AMQ-ENV15-046	AMQ15-188	65	75	S10	Chert	Waste	Core	22	9.0	2.7	0.07	2.6	0.51	< 0.01	0.62	83	33	-49	10	0.12	0.4	PAG
AMQ-ENV15-037	AMQ15-193	15	25	S10	Chert	Waste	Core	9	5.9	3.8	1.8	2.0	1.0	0.94	< 0.025	119	4.1	-59	< 0.42	0.0035	0.035	PAG
AMQ-ENV15-007	AMQ15-232	50	60	S10	Chert	Waste	Core	2	9.5	1.7	0.24	1.5	2.1	1.4	1.2	54	50	3.0	20	0.36	0.92	PAG
AMQ-ENV15-092	IVR14-079	64	72	S10	Chert	Waste	Core	6	9.1	3.6	1.1	2.4	0.72	0.18	0.85	112	38	-38	14	0.13	0.34	PAG
AMQ-ENV15-088	IVR14-089	35	45	S10	Chert	Waste	Core	13	8.8	4.9	2.7	2.2	0.97	0.69	0.29	154	23	-45	4.8	0.031	0.15	PAG
AMQ-ENV15-095	IVR14-091	80	90	S10	Chert	Waste	Core	1	9.6	0.9	0.25	0.65	0.55	0.18	0.72	28	24	4.2	12	0.43	0.85	PAG
AMQ-ENV15-096	IVR14-091	130	140	S10	Chert	Waste	Core	27	9.8	1.2	0.7	0.51	1.6	1.1	0.84	38	35	19	14	0.37	0.93	PAG
AMQ-ENV15-085	IVR14-125A	370	380	S10	Chert	Waste	Core	11	9.1	2.2	1.4	0.79	0.16	< 0.01	0.21	69	20	-4.3	3.4	0.05	0.29	PAG
AMQ-ENV15-058	IVR14-147	35	45	S10	Chert	Waste	Core	12	8.5	1.8	0.03	1.8	0.14	< 0.01	0.25	57	13	-43	4.2	0.073	0.23	PAG
AMQ-ENV15-056	IVR14-148	37	47	S10	Chert	Waste	Core	10	9.4	0.32	0.08	0.24	0.081	< 0.01	0.2	10	13	5.6	3.3	0.33	1.3	PAG
AMQ-ENV15-115	IVR14-155	335	345	S10	Chert	Waste	Core	9	10	1.1	0.27	0.87	0.53	0.15	0.59	36	31	3.5	9.8	0.27	0.87	PAG
Chert - S10								**Minimum**	*5.9*	*0.32*	*< 0.01*	*0.24*	*0.081*	*< 0.01*	*< 0.025*	*10*	*4.1*	*-69*	*< 0.42*	*0.0035*	*0.035*	**Bulk CaNPR = 0.15 PAG**
								Maximum	*10*	*4.9*	*2.7*	*2.9*	*2.1*	*1.4*	*2.5*	*154*	*50*	*19*	*41*	*1.4*	*1.3*	
								Median	*9.1*	*2.0*	*0.28*	*1.6*	*0.63*	*0.18*	*0.46*	*63*	*24*	*-21*	*7.6*	*0.12*	*0.37*	
								Average	*7.0*	*2.2*	*0.67*	*1.5*	*0.73*	*0.39*	*0.62*	*68*	*25*	*-23*	*10*	*0.26*	*0.54*	
								Std. Deviation	*nc*	*1.3*	*0.81*	*0.9*	*0.55*	*0.46*	*0.62*	*41*	*12*	*31*	*10*	*0.36*	*0.39*	
								75th Percentile	*nc*	*2.8*	*1.0*	*2.3*	*0.91*	*0.62*	*0.81*	*86*	*33*	*4.0*	*14*	*0.35*	*0.87*	
AMQ-ENV15-035	AMQ15-211	36	46	S9E	Iron Formation	Waste	Core	0	9.0	1.5	0.17	1.4	0.18	< 0.01	0.55	48	23	-19	9.1	0.19	0.48	PAG
AMQ-ENV15-099	IVR14-089	161	171	S9E	Iron Formation	Waste	Core	0	9.1	0.051	0.02	0.03	2.2	< 0.01	11	1.6	173	172	178	112	109	non PAG
AMQ-ENV-17	IVR14-123	168	177	S9E	Iron Formation	Waste	Core	23	9.6	0.028	0.03	< 0.01	0.26	< 0.01	1.3	0.88	36	45	21	24	41	non PAG
AMQ-ENV-42	IVR14-118	201	213	S9E	Iron Formation	Waste	Core	16	9.9	0.2	0.13	0.07	0.14	0.02	0.68	6.3	18	31	11	1.8	2.9	uncertain
AMQ-ENV-43	IVR14-118	264	276	S9E	Iron Formation	Waste	Core	37	9.4	0.033	0.03	< 0.01	3.8	0.01	19	1.0	290	278	312	302	281	non PAG
AMQ-ENV-125	IVR14-152	175	184	S9E	Iron Formation	Waste	Core	12	9.8	0.25	0.11	0.14	0.31	< 0.01	1.5	7.8	44	45	25	3.3	5.7	non PAG
AMQ-ENV15-027	AMQ15-164	45	55	S9E	Iron Formation	Waste	Core	3	9.3	1.3	0.12	1.2	0.3	< 0.01	1.0	41	36	-0.89	17	0.42	0.88	PAG
AMQ-ENV15-034	AMQ15-180	110	119	S9E	Iron Formation	Waste	Core	4	9.2	1.9	0.24	1.7	0.32	< 0.01	1.1	61	34	-19	18	0.3	0.56	PAG
AMQ-ENV15-045	AMQ15-188	115	125	S9E	Iron Formation	Waste	Core	4	9.2	0.3	0.06	0.24	0.65	< 0.01	3.0	9.3	67	59	50	5.4	7.2	non PAG
AMQ-ENV15-038	AMQ15-193	43	53	S9E	Iron Formation	Waste	Core	11	9.0	0.73	0.07	0.66	0.44	< 0.01	1.6	23	55	35	27	1.2	2.4	uncertain
AMQ-ENV15-039	AMQ15-193	85	95	S9E	Iron Formation	Waste	Core	12	9.7	0.021	0.01	0.01	1.0	< 0.01	4.7	0.66	98	98	78	119	149	non PAG
AMQ-ENV15-086	IVR14-016	130	140	S9E	Iron Formation	Waste	Core	6	9.7	0.14	0.01	0.13	0.4	< 0.01	1.8	4.4	39	35	30	6.8	8.9	non PAG
AMQ-ENV15-021	AMQ15-161	138	148	S9E	Iron Formation	Waste	Core	7	9.3	0.16	0.04	0.11	0.58	< 0.01	2.7	4.8	59	56	45	9.4	12	non PAG
AMQ-ENV15-040	AMQ15-178	40	50	S9E	Iron Formation	Waste	Core	35	9.0	0.047	0.02	0.03	1.6	< 0.01	7.6	1.5	131	130	127	86	89	non PAG
AMQ-ENV15-041	AMQ15-178	90	100	S9E	Iron Formation	Waste	Core	36	9.1	< 0.005	< 0.01	< 0.01	0.83	< 0.01	4.0	< 0.16	67	67	66	422	429	non PAG
AMQ-ENV15-010	AMQ15-232	116	124	S9E	Iron Formation	Waste	Core	5	9.0	1.7	< 0.01	1.7	0.32	< 0.01	0.99	52	40	-13	17	0.32	0.78	PAG
AMQ-ENV-47	IVR14-016	130	140	S9E	Iron Formation	Waste	Reject	6	9.9	0.22	0.06	0.16	0.81	< 0.01	3.6	6.8	87	79	61	8.9	13	non PAG
AMQ-ENV-56	IVR14-055	95	105	S9E	Iron Formation	Waste	Reject	8	9.5	0.83	0.05	0.78	0.21	< 0.01	0.36	26	37	22	6.0	0.23	1.4	PAG
AMQ-ENV-57	IVR14-056	21	31	S9E	Iron Formation	Waste	Reject	9	8.9	0.92	< 0.01	0.93	0.13	< 0.01	0.29	29	32	-13	4.8	0.17	1.1	PAG
AMQ-ENV-59	IVR14-056	80	90	S9E	Iron Formation	Waste	Reject	34	9.7	0.029	0.02	0.01	1.7	< 0.01	8.3	0.91	151	147	139	153	167	non PAG
AMQ-ENV-72	IVR14-097	99	111	S9E	Iron Formation	Waste	Reject	21	9.8	0.16	0.06	0.1	2.2	< 0.01	10	4.9	187	179	173	35	38	non PAG
AMQ-ENV-64	IVR14-092	216	227	S9E	Iron Formation	Waste	Reject	17	9.9	0.15	0.04	0.11	0.78	< 0.01	3.6	4.8	77	71	60	13	16	non PAG
Iron Formation - S9E								**Minimum**	*8.9*	*< 0.005*	*< 0.01*	*< 0.01*	*0.13*	*< 0.01*	*0.29*	*< 0.16*	*18*	*-19*	*4.8*	*0.17*	*0.48*	**Bulk CaNPR = 4.4 Non PAG**
								Maximum	*9.9*	*1.9*	*0.24*	*1.7*	*3.8*	*0.02*	*19*	*61*	*290*	*278*	*312*	*422*	*429*	
								Median	*9.4*	*0.18*	*0.04*	*0.12*	*0.51*	*nc*	*2.3*	*5.6*	*57*	*50*	*38*	*7.9*	*11*	
								Average	*9.3*	*0.49*	*0.06*	*0.43*	*0.87*	*nc*	*4.0*	*15*	*81*	*67*	*67*	*59*	*63*	
								Std. Deviation	*nc*	*0.61*	*0.06*	*0.58*	*0.91*	*nc*	*4.6*	*19*	*67*	*75*	*76*	*109*	*109*	
								75th Percentile	*nc*	*0.81*	*0.068*	*0.75*	*0.98*	*nc*	*4.5*	*25*	*95*	*93*	*75*	*74*	*77*	
AMQ-ENV-114	IVR14-144	16	25	8b	Intermediate Intrusive	Waste	Core	381	10.0	0.046	0.02	0.03	0.078	< 0.01	0.39	1.4	17	38	6.5	4.5	12	non PAG
AMQ-ENV15-002	AMQ15-187	18	25	8b	Intermediate Intrusive	Waste	Core	66	9.3	0.15	0.01	0.14	0.11	< 0.01	0.34	4.7	22	17	5.6	1.2	4.7	uncertain
AMQ-ENV15-100	IVR14-087	9	18	8b	Intermediate Intrusive	Waste	Core	128	9.6	0.19	0.06	0.13	0.28	< 0.01	0.93	6.0	35	31	15	2.6	5.8	non PAG
AMQ-ENV15-077	IVR14-156	15	25	8b	Intermediate Intrusive	Waste	Core	95	9.8	0.07	0.02	0.05	0.51	< 0.01	2.1	2.2	55	53	36	16	25	non PAG
AMQ-ENV-65	IVR14-110	70	80	8b	Intermediate Intrusive	Waste	Reject	274	9.7	0.066	0.03	0.04	0.3	< 0.01	1.1	2.1	42	33	18	8.7	20	non PAG
Intermediate Intrusive - 8b								**Minimum**	*9.3*	*0.046*	*0.01*	*0.03*	*0.078*	*< 0.01*	*0.34*	*1.4*	*17*	*17*	*5.6*	*1.2*	*4.7*	**Bulk CaNPR = 4.9 Non PAG**
								Maximum	*10.0*	*0.19*	*0.06*	*0.14*	*0.51*	*< 0.01*	*2.1*	*6.0*	*55*	*53*	*36*	*16*	*25*	
								Median	*9.7*	*0.07*	*0.02*	*0.05*	*0.28*	*nc*	*0.93*	*2.2*	*35*	*33*	*15*	*4.5*	*12*	
								Average	*9.6*	*0.11*	*0.028*	*0.078*	*0.25*	*nc*	*0.97*	*3.3*	*34*	*35*	*16*	*6.6*	*14*	
								Std. Deviation	*nc*	*0.063*	*0.019*	*0.053*	*0.17*	*nc*	*0.72*	*2.0*	*15*	*13*	*12*	*6.1*	*9.0*	
								75th Percentile	*nc*	*0.15*	*0.03*	*0.13*	*0.3*	*nc*	*1.1*	*4.7*	*42*	*38*	*18*	*8.7*	*20*	

Appendix E.3
Acid Base Accounting Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Sample ID	Borehole ID	Depth (m) From	Depth (m) To	Lithology Code	Rock Name	Sample Type		Distance to Ore	ABA: Paste pH	Sulphur (total)	Acid Leachable SO4-S	Sulphide	Carbon (total)	Graphitic Carbon	Carbonate (Graphite Corrected)	AP	NP	Net NP	CaNP	CaNPR	NPR	ARD Potential
										%						t CaCO3/1000 t				ratio		
AMQ-ENV-01	IVR14-130	11	20	1b	Mafic Volcanic (near UM contact)	Waste	Core	50	9.7	< 0.005	< 0.01	< 0.01	1.9	< 0.01	9.5	< 0.16	158	149	158	1011	1011	non PAG
AMQ-ENV-07	IVR14-116	16	25	1b	Mafic Volcanic	Waste	Core	47	8.8	0.039	0.03	0.01	0.57	< 0.01	2.8	1.2	83	76	47	39	68	non PAG
AMQ-ENV-08	IVR14-116	30	39	1b	Mafic Volcanic	Waste	Core	36	9.8	0.056	0.04	0.02	0.21	< 0.01	1.0	1.8	44	50	17	9.5	25	non PAG
AMQ-ENV-118	IVR14-151	200	209	1b	Mafic Volcanic	Waste	Core	31	10.0	0.15	0.03	0.12	0.54	0.02	2.5	4.6	71	67	42	9.2	16	non PAG
AMQ-ENV15-104	IVR14-087	100	110	1b	Mafic Volcanic	Waste	Core	31	9.8	0.015	< 0.01	0.01	0.28	< 0.01	1.2	0.47	46	46	20	43	98	non PAG
AMQ-ENV15-094	IVR14-091	41	51	1b	Mafic Volcanic	Waste	Core	42	9.6	0.024	0.01	0.01	0.42	< 0.01	1.7	0.75	59	59	29	38	79	non PAG
AMQ-ENV15-024	IVR14-141	38	47	1b	Mafic Volcanic	Waste	Core	67	9.7	0.035	0.02	0.02	0.15	< 0.01	0.56	1.1	37	36	9.3	8.5	34	non PAG
AMQ-ENV-51	IVR14-103	218	228	1b	Mafic Volcanic (prev. logged GW)	Waste	Reject	36	10.0	0.024	0.02	< 0.01	0.35	< 0.01	1.5	0.75	48	52	26	34	64	non PAG
Mafic Volcanic - 1b							**Minimum**		*8.8*	*< 0.005*	*< 0.01*	*< 0.01*	*0.15*	*< 0.01*	*0.56*	*< 0.16*	*37*	*36*	*9.3*	*8.5*	*16*	**Bulk CaNPR = 32 Non PAG**
							Maximum		*10.0*	*0.15*	*0.04*	*0.12*	*1.9*	*0.02*	*9.5*	*4.6*	*158*	*149*	*158*	*1011*	*1011*	
							Median		*9.8*	*0.03*	*0.02*	*0.01*	*0.38*	*nc*	*1.6*	*0.92*	*54*	*55*	*27*	*36*	*66*	
							Average		*9.5*	*0.043*	*0.021*	*0.026*	*0.55*	*nc*	*2.6*	*1.3*	*68*	*67*	*43*	*149*	*174*	
							Std. Deviation		*nc*	*0.044*	*0.011*	*0.038*	*0.57*	*nc*	*2.9*	*1.4*	*39*	*35*	*48*	*349*	*339*	
							75th Percentile		*nc*	*0.043*	*0.03*	*0.02*	*0.55*	*nc*	*2.6*	*1.4*	*74*	*69*	*43*	*40*	*84*	
AMQ-ENV15-089	IVR14-079	78	88	S9E	Ultramafic	Ore	Core	0	8.9	3.4	0.26	3.1	0.51	< 0.01	1.8	106	61	-37	30	0.28	0.57	PAG
AMQ-ENV15-134	AMQ15-433-02	32	42	S10	ALTV41	Ore	Core	0	9.4	3.8	1.8	2.0	0.26	0.1	0.4	118	8.0	-55	6.7	0.057	0.068	PAG
AMQ-ENV15-135	AMQ15-433-03	67	75	0a	ALTV42	Ore	Core	0	9.8	0.056	< 0.01	0.06	0.23	< 0.05	0.98	1.8	10	8.1	16	9.4	5.7	non PAG
AMQ-ENV15-136	AMQ15-438-01	32	33	S10	QZ3	Ore	Core	0	9.9	0.014	< 0.01	0.01	0.4	< 0.05	1.6	0.44	45	45	27	61	103	non PAG
AMQ-ENV15-137	AMQ15-438-02	33	38	0a	QZ4	Ore	Core	0	9.4	0.019	< 0.01	0.01	1.7	< 0.05	8.0	0.59	122	122	134	225	205	non PAG
AMQ-ENV15-138	AMQ15-438-03	66	78	S10/UM	QZ2	Ore	Core	0	9.4	4.0	1.9	2.1	1.0	0.75	3.6	124	17	-48	59	0.48	0.14	PAG
AMQ-ENV15-139	AMQ15-438-04	88	98	S10	QZ2	Ore	Core	0	9.9	1.2	0.39	0.79	0.25	0.06	0.61	37	18	-6.7	10	0.28	0.49	PAG
AMQ-ENV15-140	AMQ15-481-01	190	200	S3C	QZ3	Ore	Core	0	10	0.082	0.03	0.05	0.33	< 0.05	1.3	2.6	33	31	22	8.5	13	non PAG
AMQ-ENV15-142	AMQ15-481-03	254	259	S3C	QZ2	Ore	Core	0	9.9	0.55	0.18	0.37	0.42	< 0.05	1.4	17	34	22	24	1.4	2.0	uncertain
AMQ-ENV15-143	AMQ15-481-04	262	272	S3C	QZ2	Ore	Core	0	10.0	0.22	0.11	0.11	0.23	< 0.05	0.73	6.8	16	13	12	1.8	2.4	uncertain
AMQ-ENV15-144	AMQ15-481-05	390	400	S3C	ALTV41	Ore	Core	0	9.8	3.9	1.1	2.8	0.64	< 0.05	1.4	122	41	-46	24	0.19	0.34	PAG
AMQ-ENV15-076	IVR14-156	145	155	0b	Ultramafic	Ore	Core	0	8.5	3.8	0.29	3.5	2.2	1.2	3.5	120	82	-29	58	0.48	0.69	PAG
AMQ-ENV-52	IVR14-084	72	84	0b	Ultramafic	Ore	Reject	0	9.4	1.5	< 0.01	1.5	0.74	0.16	2.4	48	47	2.2	40	0.85	0.99	PAG
Ore							**Minimum**		*8.5*	*0.014*	*< 0.01*	*0.01*	*0.23*	*< 0.01*	*0.4*	*0.44*	*8.0*	*-55*	*6.7*	*0.057*	*0.068*	**Bulk CaNPR = 0.66 PAG**
							Maximum		*10*	*4.0*	*1.9*	*3.5*	*2.2*	*1.2*	*8.0*	*124*	*122*	*122*	*134*	*225*	*205*	
							Median		*9.8*	*1.2*	*0.18*	*0.79*	*0.42*	*nc*	*1.4*	*37*	*34*	*2.2*	*24*	*0.85*	*0.99*	
							Average		*9.3*	*1.7*	*0.47*	*1.3*	*0.69*	*nc*	*2.1*	*54*	*41*	*1.7*	*36*	*24*	*26*	
							Std. Deviation		*nc*	*1.7*	*0.68*	*1.3*	*0.62*	*nc*	*2.0*	*55*	*32*	*48*	*34*	*63*	*61*	
							75th Percentile		*nc*	*3.8*	*0.39*	*2.1*	*0.74*	*nc*	*2.4*	*118*	*47*	*22*	*40*	*8.5*	*5.7*	
RE-13872/RE-13874	-	-	-	-	Processed ore	Tailing	milling reject	0	8.6	3.3	0.54	2.8	0.61	0.15	1.1	87	-6.8	-94	19	0.22	-0.078	PAG
AMQ-ENV15-116	-	0	1.0		Overburden	Waste	Grab	-	6.2	< 0.005	< 0.01	< 0.01	1.0	< 0.01	<0.025	< 0.31	2.3	2.0	< 0.42	1.3	7.4	non PAG
AMQ-ENV15-130	-	0	1.0		Overburden	Waste	Grab	-	6.2	< 0.005	< 0.01	< 0.01	1.8	< 0.01	0.035	< 0.31	2.2	1.9	0.58	1.9	7.0	non PAG
AMQ-ENV15-131	-	0	1.0		Overburden	Waste	Grab	-	7.1	< 0.005	< 0.01	< 0.01	0.37	< 0.01	<0.025	< 0.31	3.3	3.0	< 0.42	1.3	11	non PAG
AMQ-ENV15-132	-	0	1.0		Overburden	Waste	Grab	-	7.7	< 0.005	< 0.01	< 0.01	0.11	< 0.01	<0.025	< 0.31	3.7	3.4	< 0.42	1.3	12	non PAG
AMQ-ENV15-117	-	0	1.0		Overburden	Waste	Grab	-	7.2	< 0.005	< 0.01	< 0.01	0.36	< 0.01	<0.025	< 0.31	5.8	5.5	< 0.42	1.3	19	non PAG
AMQ-ENV15-118	-	0	1.0		Overburden	Waste	Grab	-	7.1	< 0.005	< 0.01	< 0.01	0.58	< 0.01	0.055	< 0.31	8.4	8.1	0.92	2.9	27	non PAG
AMQ-ENV15-119	-	0	1.0		Overburden	Waste	Grab	-	7.5	< 0.005	< 0.01	< 0.01	0.51	< 0.01	0.03	< 0.31	5.8	5.5	0.5	1.6	19	non PAG
AMQ-ENV15-125	-	0	1.0		Overburden	Waste	Grab	-	7.4	< 0.005	< 0.01	< 0.01	0.53	< 0.01	<0.025	< 0.31	4.9	4.6	< 0.42	1.3	16	non PAG
AMQ-ENV15-126	-	0	1.0		Overburden	Waste	Grab	-	8.5	< 0.005	< 0.01	< 0.01	0.11	< 0.01	<0.025	< 0.31	6.1	5.8	< 0.42	1.3	20	non PAG
AMQ-ENV15-127	-	0	1.0		Overburden	Waste	Grab	-	8.5	< 0.005	< 0.01	< 0.01	0.18	0.01	< 0.025	< 0.31	6.5	6.2	< 0.42	1.3	21	non PAG
AMQ-ENV15-128	-	0	1.0		Overburden	Waste	Grab	-	8.1	< 0.005	< 0.01	< 0.01	0.25	< 0.01	<0.025	< 0.31	5.5	5.2	< 0.42	1.3	18	non PAG
AMQ-ENV15-129	-	0	1.0		Overburden	Waste	Grab	-	7.2	< 0.005	< 0.01	< 0.01	0.65	< 0.01	<0.025	< 0.31	4.1	3.8	< 0.42	1.3	13	non PAG
Overburden							**Minimum**		*6.2*	*< 0.005*	*< 0.01*	*< 0.01*	*0.11*	*< 0.01*	*< 0.025*	*< 0.31*	*2.2*	*1.9*	*< 0.42*	*1.3*	*7.0*	**Bulk CaNPR = 1.5 Uncertain**
							Maximum		*8.5*	*< 0.005*	*< 0.01*	*< 0.01*	*1.8*	*0.01*	*0.055*	*< 0.31*	*8.4*	*8.1*	*0.92*	*2.9*	*27*	
							Median		*7.3*	*nc*	*nc*	*nc*	*0.44*	*nc*	*0.025*	*nc*	*5.2*	*4.9*	*0.42*	*1.3*	*17*	
							Average		*6.8*	*nc*	*nc*	*nc*	*0.54*	*nc*	*0.029*	*nc*	*4.9*	*4.6*	*0.48*	*1.5*	*16*	
							Std. Deviation		*nc*	*nc*	*nc*	*nc*	*0.48*	*nc*	*0.0088*	*nc*	*1.8*	*1.8*	*0.15*	*0.47*	*5.9*	
							75th Percentile		*nc*	*nc*	*nc*	*nc*	*0.6*	*nc*	*0.026*	*nc*	*5.9*	*5.6*	*0.44*	*1.4*	*19*	
WTN-1	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-	0.14	0.07	0.07	4.2	0.02	< 0.025	2.2	-5.0	-7.2	< 0.42	0.19	-2.3	non PAG
WTN-2	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-	0.15	0.09	0.06	4.2	< 0.01	0.04	1.9	-4.1	-6.0	0.67	0.36	-2.2	non PAG
WTN-3	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-	0.14	0.11	0.03	4.0	< 0.01	< 0.025	0.94	-3.2	-4.1	< 0.42	0.44	-3.4	non PAG
WTN-4	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-	0.16	0.12	0.04	4.4	< 0.01	< 0.025	1.3	-4.3	-5.6	< 0.42	0.33	-3.4	non PAG
WTN-5	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-	0.17	0.13	0.04	4.4	0.02	< 0.025	1.3	-5.5	-6.8	< 0.42	0.33	-4.4	non PAG
Lake Sediment							**Minimum**		*< -*	*0.14*	*0.07*	*0.03*	*4.0*	*< 0.01*	*< 0.025*	*0.94*	*-5.5*	*-7.2*	*< 0.42*	*0.19*	*-4.4*	**Bulk CaNPR = 1.5 Uncertain**
							Maximum		*< -*	*0.17*	*0.13*	*0.07*	*4.4*	*0.02*	*0.04*	*2.2*	*-3.2*	*-4.1*	*0.67*	*0.44*	*-2.2*	
							Median		*nc*	*0.15*	*0.11*	*0.04*	*4.2*	*nc*	*0.025*	*1.3*	*-4.3*	*-6.0*	*0.42*	*0.33*	*-3.4*	
							Average		*nc*	*0.15*	*0.1*	*0.048*	*4.2*	*nc*	*0.028*	*1.5*	*-4.4*	*-5.9*	*0.47*	*0.33*	*-3.1*	
							Std. Deviation		*nc*	*0.012*	*0.024*	*0.016*	*0.16*	*nc*	*0.0067*	*0.51*	*0.88*	*1.2*	*0.11*	*0.091*	*0.92*	
							75th Percentile		*nc*	*0.16*	*0.12*	*0.06*	*4.4*	*nc*	*0.025*	*1.9*	*-4.1*	*-5.6*	*0.42*	*0.36*	*-2.3*	



Notes:

Open Pit ▲ Ore

■ near UM contact ◆ prev. logged GW

Outlined symbols indicate reject samples.

Portage NWB Effluent Limit (0.3 mg/L)

Vault NWB Effluent Limit (0.1 mg/L)

Values < MDL are plotted as MDL value

Sulphide Sulphur versus Total Sulphur

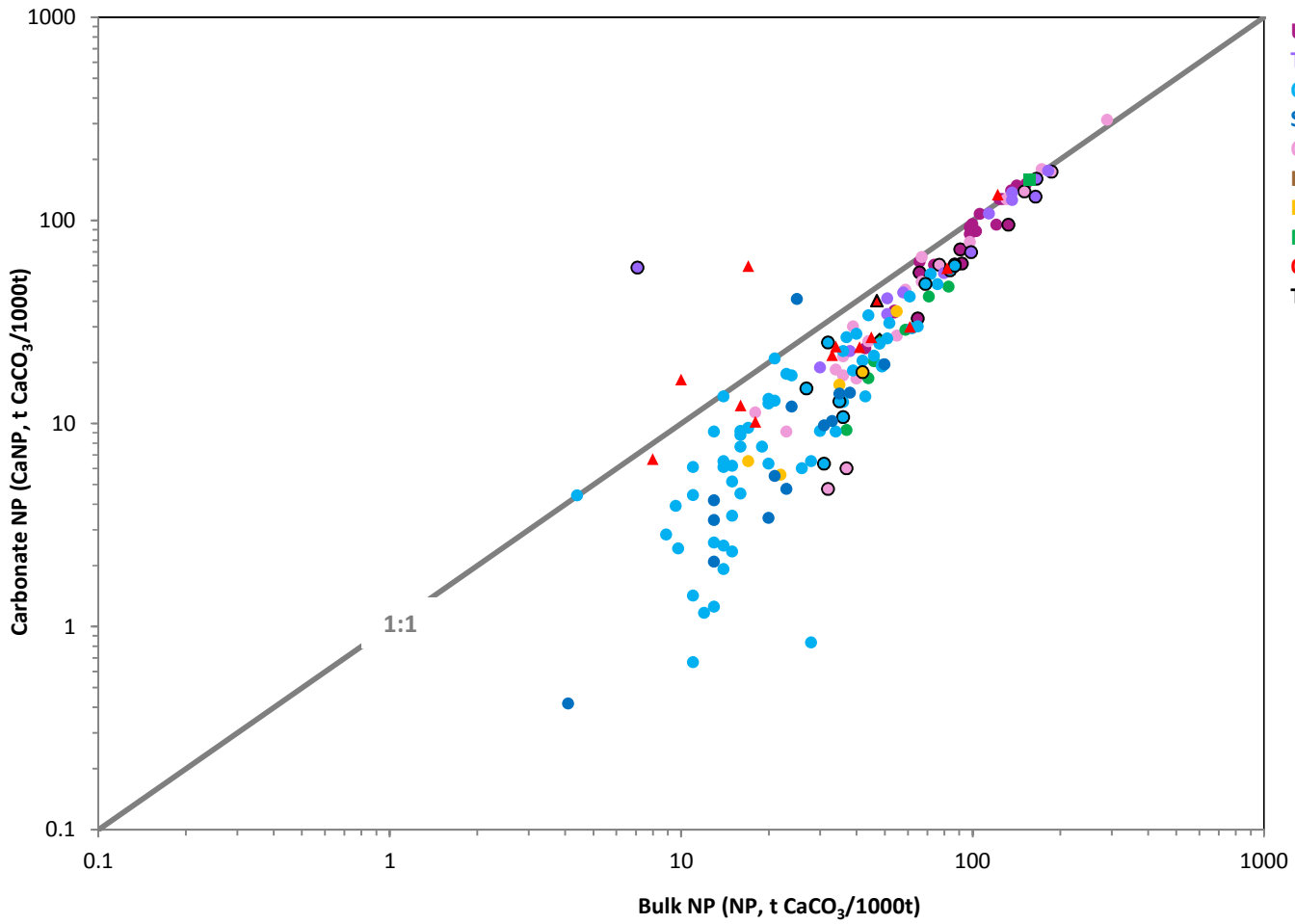
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-3.1



Notes:

Open Pit ▲ Ore

■ near UM contact ◆ prev. logged GW

Outlined symbols indicate reject samples.

Portage NWB Effluent Limit (0.3 mg/L)

Vault NWB Effluent Limit (0.1 mg/L)

Values < MDL are plotted as MDL value

Carbonate Neutralization Potential versus Neutralization Potential

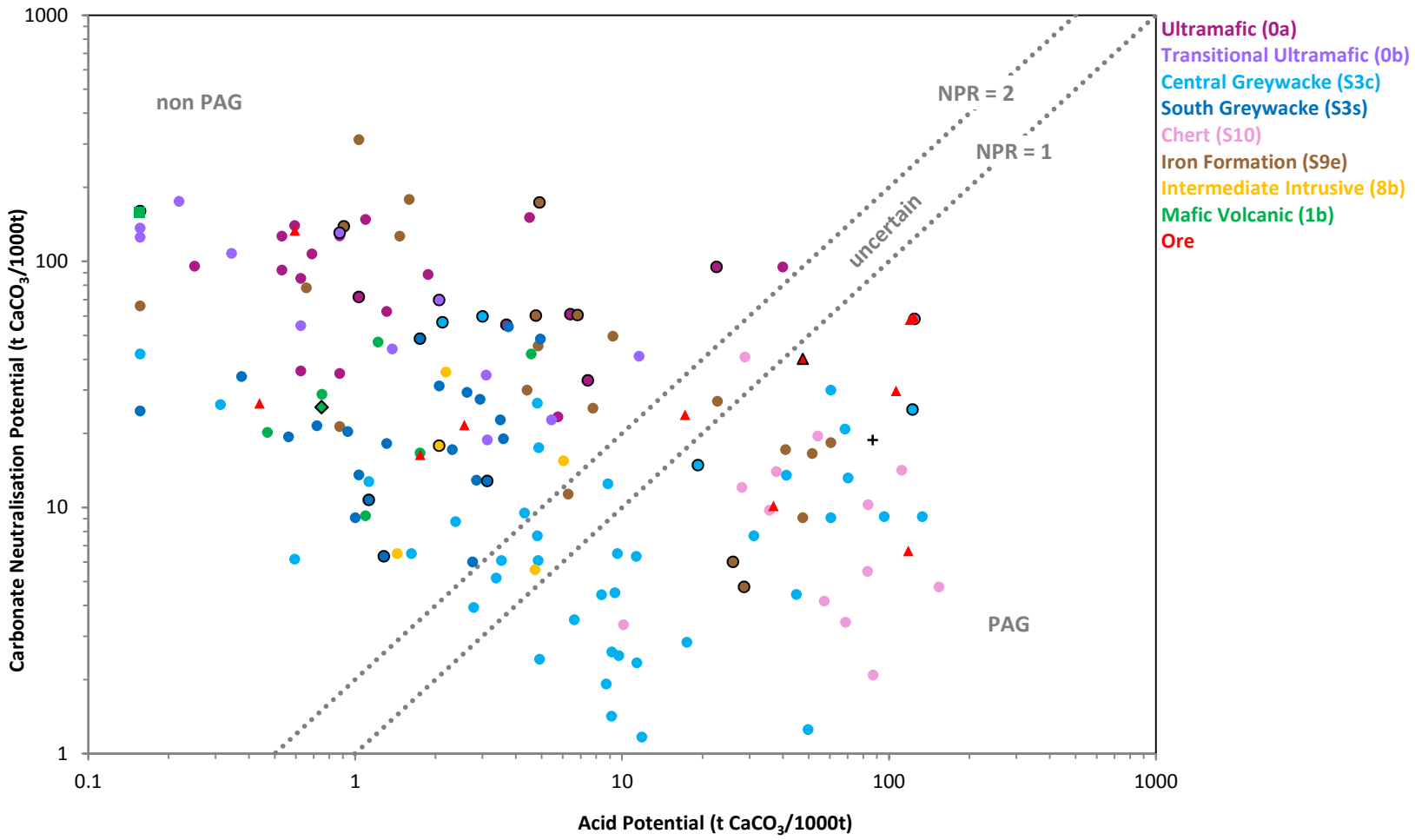
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-3.2



Notes:

Open Pit ▲ Ore

■ near UM contact ◆ prev. logged GW

Outlined symbols indicate reject samples.

Portage NWB Effluent Limit (0.3 mg/L)

Vault NWB Effluent Limit (0.1 mg/L)

Values < MDL are plotted as MDL value

Carbonate Neutralization Potential versus Acid Potential

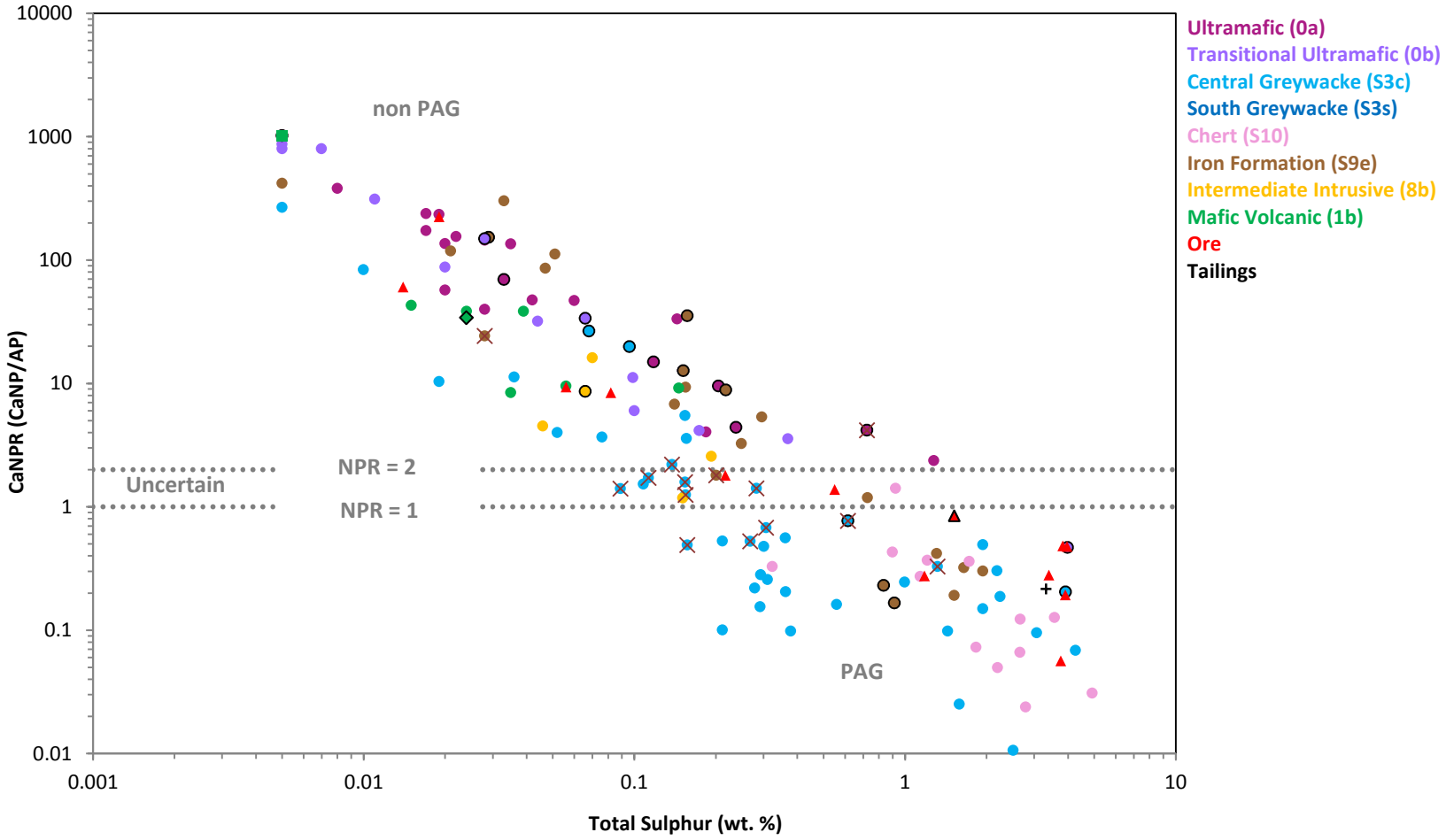
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

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Meadowbank Division

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APPENDIX FIGURE E-3.3



Notes:

Open Pit ▲ Ore

near UM contact ◆ prev. logged GW

× samples selected for NAG analysis

Outlined symbols indicate reject samples.

Portage NWB Effluent Limit (0.3 mg/L)

Vault NWB Effluent Limit (0.1 mg/L)

Values < MDL are plotted as MDL value

CaNP Ratio versus Total Sulphur

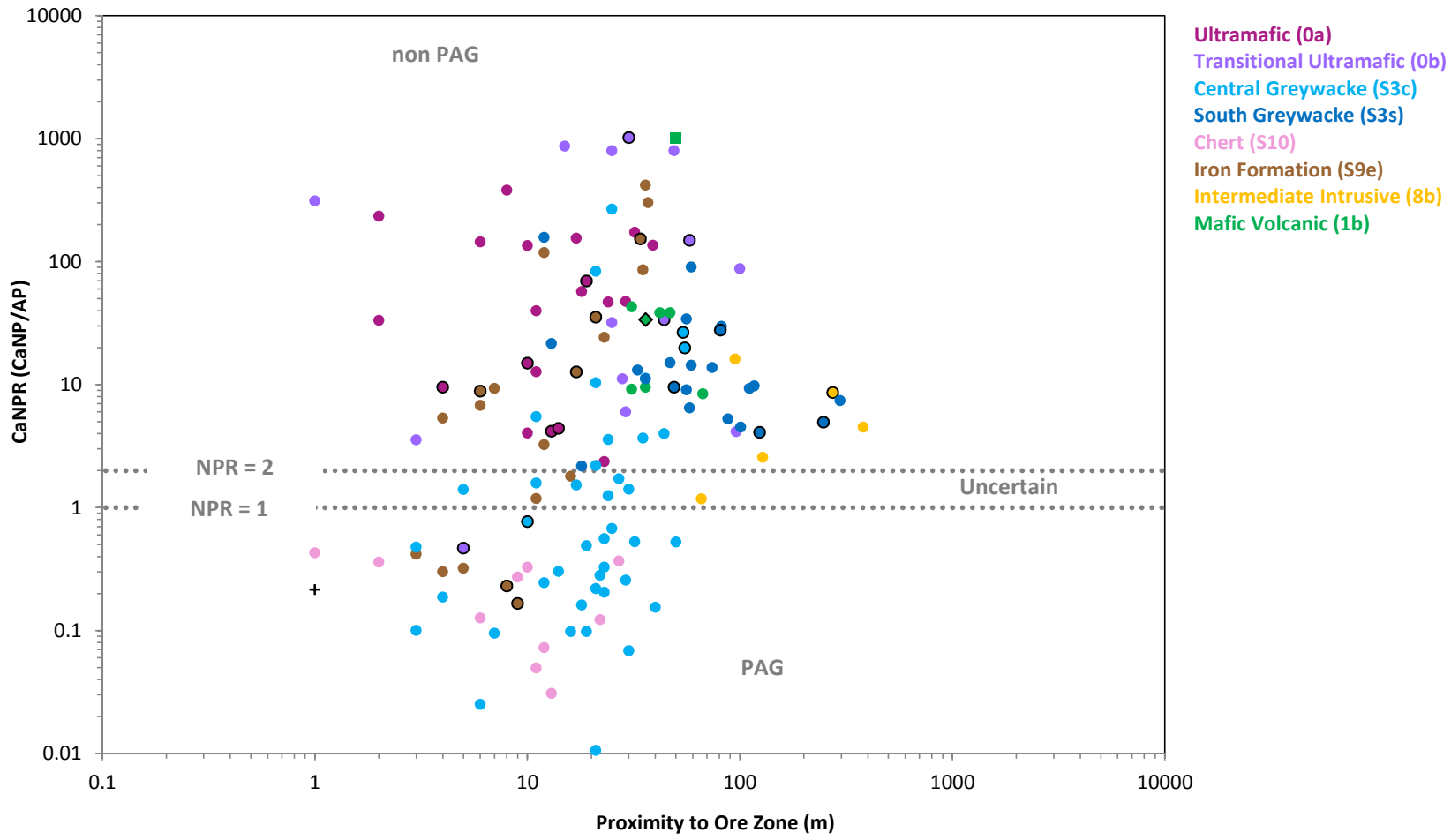
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

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APPENDIX FIGURE E-3.4



Notes:

Open Pit ▲ Ore

near UM contact ◆ prev. logged GW

Outlined symbols indicate reject samples.

Portage NWB Effluent Limit (0.3 mg/L)

Vault NWB Effluent Limit (0.1 mg/L)

Values < MDL are plotted as MDL value

CaNP Ratio versus Proximity to Ore Zone

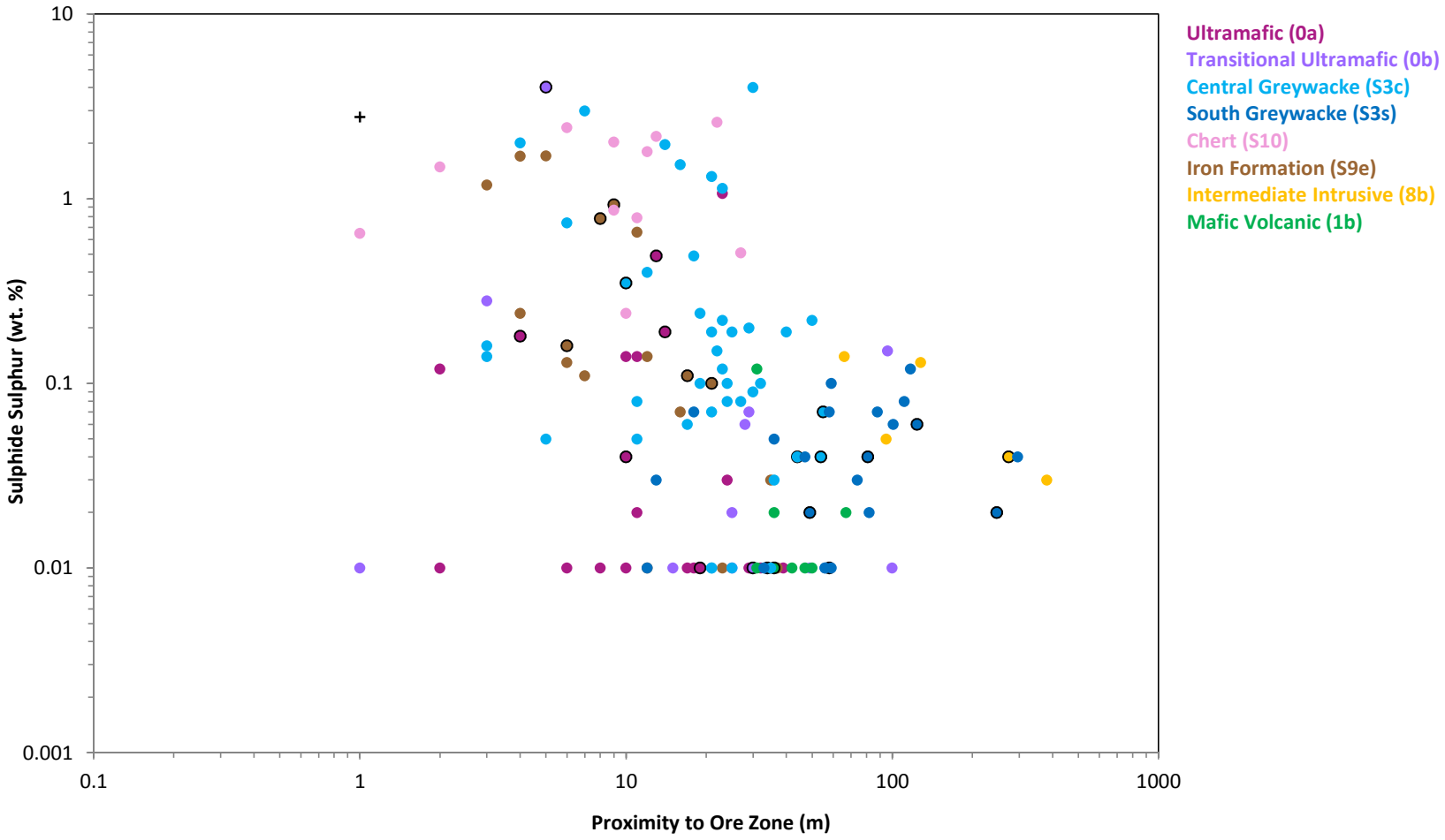
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

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APPENDIX FIGURE E-3.5



Notes:

Open Pit ▲ Ore

near UM contact ◆ prev. logged GW

Outlined symbols indicate reject samples.

Portage NWB Effluent Limit (0.3 mg/L)

Vault NWB Effluent Limit (0.1 mg/L)

Values < MDL are plotted as MDL value

Sulphide Sulphur versus Proximity to Ore Zone

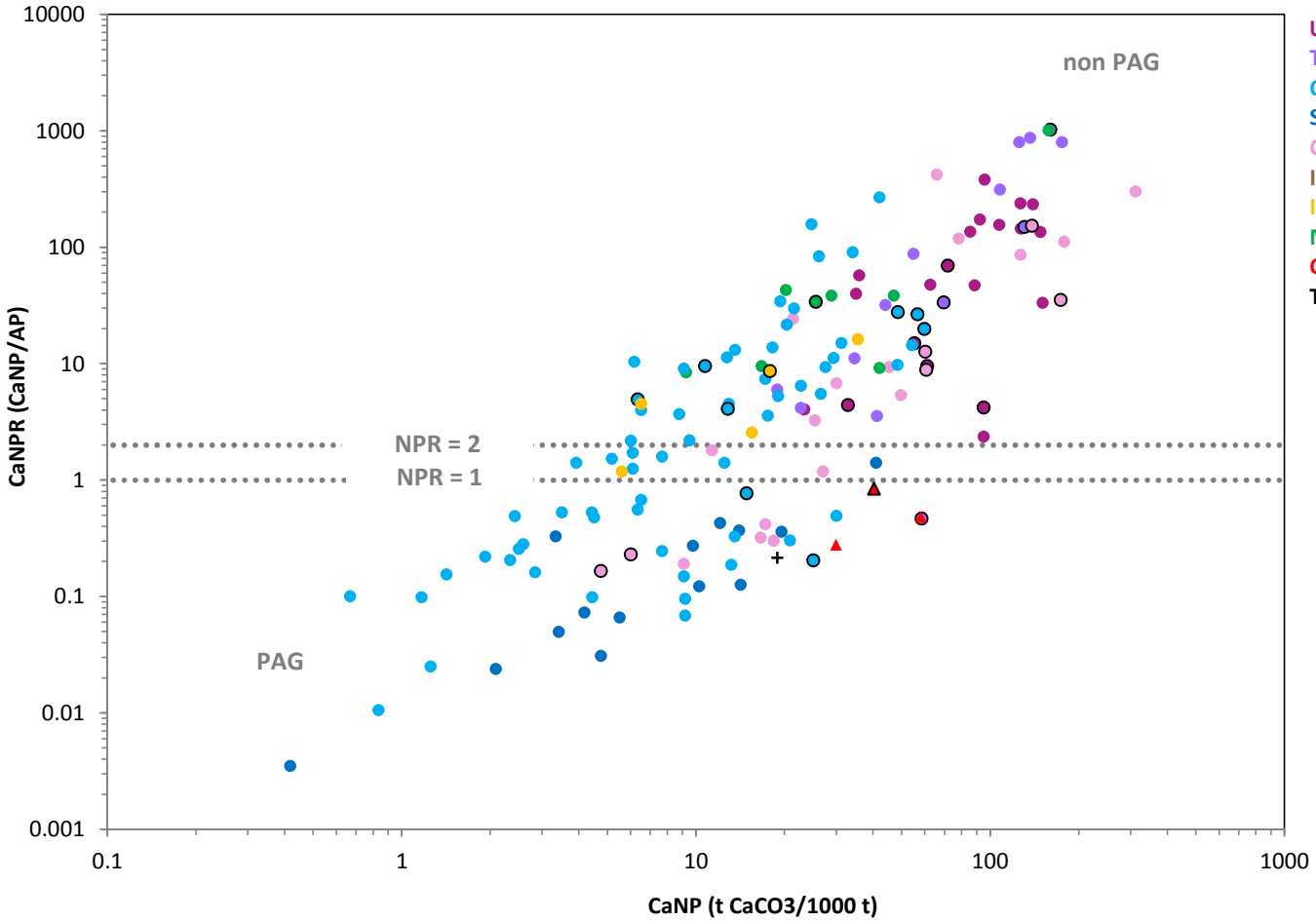
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

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APPENDIX FIGURE E-3.6



Notes:

Open Pit | Ore

near UM contact | prev. logged GW

Outlined symbols indicate reject samples.

Portage NWB Effluent Limit (0.3 mg/L)

Vault NWB Effluent Limit (0.1 mg/L)

Values < MDL are plotted as MDL value

CaNP Ratio versus Carbonate Neutralization Potential

PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

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APPENDIX FIGURE E-3.7

E.4 – Net Acid Generation Test

Appendix E.4
NAG Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Portage Effluent Quality Criteria[a]																										
Vault Effluent Quality Criteria[b]																										
Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample Type		Distance to Ore	Sequential NAG Step 1					Sequential NAG Step 2					Sequential NAG Step 3					Sequential NAG Step 4				
		From	To						Final pH	Vol NaOH to PH 4.5	Vol NaOH to PH 7.0	NAG (pH 4.5)	NAG (pH 7.0)	Final pH	Vol NaOH to PH 4.5	Vol NaOH to PH 7.0	NAG (pH 4.5)	NAG (pH 7.0)	Final pH	Vol NaOH to PH 4.5	Vol NaOH to PH 7.0	NAG (pH 4.5)	NAG (pH 7.0)	Final pH	Vol NaOH to PH 4.5	Vol NaOH to PH 7.0	NAG (pH 4.5)	NAG (pH 7.0)
										mL	mL	kg H2SO4/t	kg H2SO4/t		mL	mL	kg H2SO4/t	kg H2SO4/t		mL	mL	kg H2SO4/t	kg H2SO4/t		mL	mL	kg H2SO4/t	kg H2SO4/t
AMQ-ENV-40	IVR14-118	14	23.2	S3C	Greywacke	Waste	Core	23	2.7	3.8	5.1	12	16	3.6	0.27	0.59	0.8	0	5.2	0	0.09	0	0.3	5.8	0	0.13	0	0.4
AMQ-ENV-109	IVR14-146	10	19.1	S3C	Greywacke	Waste	Core	5	6.6	0	0.13	0	0.4	6.8	0	0.05	0	0	5.6	0	0.92	0	3.0	5.3	0	0.83	0	2.7
AMQ-ENV-03	IVR14-130	61.8	71.2	S3C	Greywacke	Waste	Core	50	3.9	0.37	1.3	1.2	4.1	5.4	0	0.27	0	0.9	5.4	0	0.5	0	1.6	5.3	0	0.64	0	2.1
AMQ-ENV-11	IVR14-116	175	184.1	S3C	Greywacke	Waste	Core	30	8.3	0	0	0	0	6.7	0	0.05	0	0	6.8	0	0.08	0	0.3	6.2	0	0.17	0	0.5
AMQ-ENV-13	IVR14-123	9	18.5	S3C	Greywacke	Waste	Core	27	6.8	0	0.06	0	0.2	6.8	0	0.05	0	0	5.8	0	0.69	0	2.3	5.4	0	0.93	0	3.0
AMQ-ENV-14	IVR14-123	21	30.2	S3C	Greywacke	Waste	Core	19	5.1	0	0.47	0	1.5	6.0	0	0.2	0	0	5.5	0	0.8	0	2.6	5.1	0	1.0	0	3.4
AMQ-ENV-18	IVR14-114	18	27.2	S3C	Greywacke	Waste	Core	25	5.2	0	0.37	0	1.2	6.2	0	0.09	0	0.3	5.7	0	0.4	0	1.3	5.4	0	0.73	0	2.3
AMQ-ENV-19	IVR14-114	75.2	84.1	S3C	Greywacke	Waste	Core	24	7.4	0	0	0	0	7.3	0	0	0	0	6.8	0	0.08	0	0.3	6.1	0	0.23	0	0.7
AMQ-ENV-20	IVR14-114	190	199.1	S3C	Greywacke	Waste	Core	11	7.8	0	0	0	0	7.2	0	0	0	0	6.6	0	0.14	0	0.5	6.2	0	0.29	0	0.9
AMQ-ENV-46	IVR14-130	148.9	155.3	S3C	Greywacke	Waste	Core	21	8.0	0	0	0	0	7.5	0	0	0	0	6.9	0	0.09	0	0.3	6.0	0	0.41	0	1.3
AMQ-ENV-53	IVR14-084	150	160.5	S3C	Greywacke	Waste	Reject	10	7.7	0	0	0	0	7.1	0	0	0	0	7.1	0	0	0	0	6.4	0	0.05	0	0.2
AMQ-ENV15-074	IVR14-153	150	160	S3C	Greywacke	Waste	Core	3	6.6	0	0.25	0	0.8	6.7	0	0.2	0	0.6	6.5	0	0.06	0	0.2	6.4	0	0.13	0	0.4
AMQ-ENV15-042	AMQ15-178	210	220	S3C	Greywacke	Waste	Core	17	7.7	0	0	0	0	7.5	0	0	0	0	7.1	0	0	0	0	6.6	0	0.11	0	0.4
AMQ-ENV15-008	AMQ15-232	69	79	S3C	Greywacke	Waste	Core	21	2.5	6.8	9.2	22	30	3.5	0.79	1.5	2.6	4.8	4.1	0.13	0.29	0.4	0.9	4.4	0.05	0.17	0.2	0.6
AMQ-ENV15-098	IVR14-089	92	102	S3C	Greywacke	Waste	Core	19	4.3	0.5	1.0	1.6	3.1	5.5	0	0.69	0	2.2	6.1	0	0.24	0	0.7	5.8	0	0.47	0	1.5
AMQ-ENV15-097	IVR14-091	190	200	S3C	Greywacke	Waste	Core	23	7.0	0	0	0	0	6.7	0	0.18	0	0.6	6.8	0	0.05	0	0.2	6.6	0	0.08	0	0.3
AMQ-ENV15-106	IVR14-099	95	104	S3C	Greywacke	Waste	Core	23	5.0	0	0.19	0	0.6	6.1	0	0.34	0	1.1	6.2	0	0.15	0	0.5	6.0	0	0.21	0	0.7
AMQ-ENV15-107	IVR14-099	115	125	S3C	Greywacke	Waste	Core	32	6.9	0	0.13	0	0.4	7.2	0	0	0	0	7.0	0	0.04	0	0.1	6.8	0	0.07	0	0.2
AMQ-ENV15-108	IVR14-099	150	160	S3C	Greywacke	Waste	Core	22	5.5	0	0.22	0	0.7	6.5	0	0.3	0	1.0	6.5	0	0.09	0	0.3	6.3	0	0.13	0	0.4
AMQ-ENV15-064	IVR14-114	105	114	S3C	Greywacke	Waste	Core	40	4.4	0.08	0.44	0.3	1.4	5.7	0	0.33	0	1.0	5.9	0	0.33	0	1.0	5.9	0	0.28	0	0.9
AMQ-ENV15-065	IVR14-114	125	135	S3C	Greywacke	Waste	Core	29	4.9	0	0.22	0	0.7	5.9	0	0.14	0	0.4	6.1	0	0.21	0	0.7	6.0	0	0.29	0	0.9
AMQ-ENV15-066	IVR14-114	148	157	S3C	Greywacke	Waste	Core	21	5.3	0.07	0.24	0.2	0.8	6.2	0	0.13	0	0.4	6.3	0	0.14	0	0.5	6.0	0	0.33	0	1.1
AMQ-ENV15-025	IVR14-141	139	148	S3C	Greywacke	Waste	Core	0	6.9	0	0	0	0	8.1	0	0	0	0	6.3	0	0.05	0	0.2	6.9	0	0.04	0	0.1
AMQ-ENV15-073	IVR14-153	45	55	S3C	Greywacke	Waste	Core	3	5.6	0.1	0.39	0.3	1.2	5.8	0	0.18	0	0.6	6.0	0	0.24	0	0.8	5.7	0	0.6	0	1.9
AMQ-ENV-49	IVR14-016	106.5	115.5	0a	Ultramafic	Waste	Reject	13	8.7	0	0	0	0	11	0	0	0	0	11	0	0	0	0	11	0	0	0	0
AMQ-ENV-17	IVR14-123	168.2	177.3	S9E	Iron Formation	Waste	Core	23	10	0	0	0	0	11	0	0	0	0	8.6	0	0	0	0	7.2	0	0	0	0
AMQ-ENV-42	IVR14-118	201.2	213.4	S9E	Iron Formation	Waste	Core	16	8.3	0	0	0	0	6.4	0	0.06	0	0.2	6.1	0	0.2	0	0.7	5.9	0	0.27	0	0.9
AMQ-ENV-56	IVR14-055	95	105	S9E	Iron Formation	Waste	Reject	8	5.0	0	0.46	0	1.5	5.9	0	0.14	0	0.5	6.4	0	0.08	0	0.3	6.4	0	0.08	0	0.3
AMQ-ENV-57	IVR14-056	21	31	S9E	Iron Formation	Waste	Reject	9	3.6	0.53	1.3	1.7	4.1	5.0	0	0.23	0	0.8	5.5	0	0.06	0	0.2	6.0	0	0.07	0	0.2
AMQ-ENV15-027	AMQ15-164	45	55	S9E	Iron Formation	Waste	Core	3	6.4	0	0.44	0	1.4	3.9	0.25	0.52	0.8	1.7	4.9	0	0.06	0	0.2	5.3	0	0.11	0	0.4
AMQ-ENV15-034	AMQ15-180	110	119	S9E	Iron Formation	Waste	Core	4	2.9	3.2	4.3	10	14	3.8	0.28	0.53	0.9	1.7	4.6	0	0.13	0	0.4	5.1	0	0.13	0	0.4
AMQ-ENV15-035	AMQ15-211	36	46	S9E	Iron Formation	Waste	Core	0	2.8	3.7	4.8	12	15	4.0	0.19	0.35	0.6	1.1	4.8	0	0.11	0	0.4	5.2	0	0.09	0	0.3
AMQ-ENV15-010	AMQ15-232	116	124	S9E	Iron Formation	Waste	Core	5	3.5	0	0.1	0	0.3	4.3	0.13	0.38	0.4	1.2	5.1	0	0.1	0	0.3	5.6	0	0.08	0	0.3
AMQ-ENV15-007	AMQ15-232	50	60	S10	Chert	Waste	Core	2	8.8	0	0	0	0	4.0	0.15	0.58	0.5	1.9	5.2	0	0.08	0	0.3	5.6	0	0.1	0	0.3
AMQ-ENV15-095	IVR14-091	80	90	S10	Chert	Waste	Core	1	5.7	0	0	0	0	3.9	0.38	0.76	1.2	2.5	4.9	0	0.12	0	0.4	5.3	0	0.1	0	0.3
AMQ-ENV15-096	IVR14-091	130	140	S10	Chert	Waste	Core	27	4.2	0	0.23	0	0.8	4.0	0.24	0.58	0.8	1.9	4.9	0	0.13	0	0.4	5.4	0	0.1	0	0.3
AMQ-ENV15-056	IVR14-148	37	47	S10	Chert	Waste	Core	10	5.6	0	0.08	0	0.3	6.4	0	0.19	0	0.6	6.4	0	0.09	0	0.3	6.0	0	0.36	0	1.2
AMQ-ENV15-115	IVR14-155	335	345	S10	Chert	Waste	Core	9	4.7	0	0.29	0	0.9	5.1	0	0.23	0	0.7	5.5	0	0.06	0	0.2	5.9	0	0.1	0	0.3
RE-13872/RE-13874	-	-		-	Processed Ore	Tailing	milling reject	0	2.7	4.8	7.0	15	22	3.1	1.5	1.8	4.7	5.8	3.8	0.27	0.46	0.9	1.5	4.4	0.09	0.36	0.3	1.2

Notes:
a) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525,
b) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525,
nc - statistic could not be calculated

1.0	Results exceeds the Portage Effluent Water Quality Guideline.
1.0	Result exceeds the Vault Effluent Water Quality Guideline.

Appendix E.4
NAG Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Portage Effluent Quality Criteria[a]									6-9				1000		0.0004	1		0.3						0.002			0.1		
Vault Effluent Quality Criteria[b]									6-9				500		0.0004	1		0.1						0.002			0.1		
Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample Type		Distance to Ore	Sequential NAG Metals Phase 1																				
		From	To						pH	Conductivity	Alkalinity	Acidity	Chloride	Sulphate	Mercury	Aluminum	Silver	Arsenic	Barium	Beryllium	Bismuth	Boron	Calcium	Cadmium	Cobalt	Chromium	Copper	Iron	Potassium
									no unit	uS/cm	mg/L as CaCO3	mg/L as CaCO3	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMQ-ENV-40	IVR14-118	14	23.2	S3C	Greywacke	Waste	Core	23	2.8	1240	< 2	168	< 1	290	< 0.00001	7.9	0.00016	0.015	0.18	0.0014	< 0.000007	0.037	34	0.00029	0.056	0.0024	0.17	4.2	31
AMQ-ENV-109	IVR14-146	10	19.1	S3C	Greywacke	Waste	Core	5	7.8	191	41	< 2	2.0	34	< 0.00001	0.007	0.00002	0.0023	0.0076	< 0.000007	< 0.000007	0.2	5.6	0.000025	0.00037	0.014	0.00025	< 0.007	9.4
AMQ-ENV-03	IVR14-130	61.8	71.2	S3C	Greywacke	Waste	Core	50	3.8	260	< 2	40	2.0	85	< 0.00001	4.0	0.00026	0.0006	0.14	0.0006	< 0.000007	0.058	9.6	0.00035	0.068	0.0078	0.046	0.068	12
AMQ-ENV-11	IVR14-116	175	184.1	S3C	Greywacke	Waste	Core	30	8.2	234	39	< 2	< 1	66	< 0.00001	0.95	< 0.000002	0.021	0.0042	< 0.000007	< 0.000007	0.017	33	0.000016	0.000004	0.0083	0.00033	0.008	19
AMQ-ENV-13	IVR14-123	9	18.5	S3C	Greywacke	Waste	Core	27	6.5	122	5.0	< 2	1.0	41	< 0.00001	0.016	0.000034	0.0048	0.008	< 0.000007	< 0.000007	0.028	5.8	0.000015	0.00028	0.0096	0.00042	< 0.007	13
AMQ-ENV-14	IVR14-123	21	30.2	S3C	Greywacke	Waste	Core	19	5.3	155	< 2	11	2.0	59	< 0.00001	0.31	0.00031	0.0008	0.084	0.000036	< 0.000007	0.07	7.6	0.0003	0.012	0.0079	0.0035	< 0.007	14
AMQ-ENV-18	IVR14-114	18	27.2	S3C	Greywacke	Waste	Core	25	5.0	262	< 2	3.0	1.0	98	< 0.00001	0.11	0.00014	0.0004	0.086	0.000016	< 0.000007	0.041	25	0.00059	0.0059	0.0062	0.0011	< 0.007	20
AMQ-ENV-19	IVR14-114	75.2	84.1	S3C	Greywacke	Waste	Core	24	7.2	164	10	< 2	1.0	55	< 0.00001	0.099	0.000005	0.017	0.0042	< 0.000007	< 0.000007	0.065	16	0.000019	0.000062	0.018	0.00028	0.009	14
AMQ-ENV-20	IVR14-114	190	199.1	S3C	Greywacke	Waste	Core	11	6.6	101	6.0	14	1.0	48	< 0.00001	0.56	0.000008	0.037	0.0044	< 0.000007	< 0.000007	0.016	21	0.000011	0.000016	0.012	0.00046	0.028	20
AMQ-ENV-46	IVR14-130	148.9	155.3	S3C	Greywacke	Waste	Core	21	8.0	208	52	< 2	2.0	46	< 0.00001	0.48	0.000004	0.065	0.0048	< 0.000007	< 0.000007	0.015	29	0.000013	0.000017	0.012	0.00038	0.008	15
AMQ-ENV-53	IVR14-084	150	160.5	S3C	Greywacke	Waste	Reject	10	6.9	401	7.0	< 2	< 1	170	< 0.00001	0.18	0.000007	0.0057	0.011	< 0.000007	< 0.000007	0.019	65	0.000007	0.000016	0.014	0.0003	< 0.007	16
AMQ-ENV15-074	IVR14-153	150	160	S3C	Greywacke	Waste	Core	3	6.3	-	-	-	-	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-042	AMQ15-178	210	220	S3C	Greywacke	Waste	Core	17	8.1	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-008	AMQ15-232	69	79	S3C	Greywacke	Waste	Core	21	2.5	-	-	-	-	480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-098	IVR14-089	92	102	S3C	Greywacke	Waste	Core	19	4.3	-	-	-	-	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-097	IVR14-091	190	200	S3C	Greywacke	Waste	Core	23	7.6	-	-	-	-	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-106	IVR14-099	95	104	S3C	Greywacke	Waste	Core	23	5.2	-	-	-	-	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-107	IVR14-099	115	125	S3C	Greywacke	Waste	Core	32	6.9	-	-	-	-	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-108	IVR14-099	150	160	S3C	Greywacke	Waste	Core	22	5.8	-	-	-	-	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-064	IVR14-114	105	114	S3C	Greywacke	Waste	Core	40	4.4	-	-	-	-	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-065	IVR14-114	125	135	S3C	Greywacke	Waste	Core	29	4.8	-	-	-	-	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-066	IVR14-114	148	157	S3C	Greywacke	Waste	Core	21	4.3	-	-	-	-	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-025	IVR14-141	139	148	S3C	Greywacke	Waste	Core	0	7.6	-	-	-	-	370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-073	IVR14-153	45	55	S3C	Greywacke	Waste	Core	3	4.2	-	-	-	-	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-49	IVR14-016	106.5	115.5	0a	Ultramafic	Waste	Reject	13	7.6	374	15	< 2	< 1	140	< 0.00001	0.59	0.000007	0.15	0.0063	< 0.000007	< 0.000007	0.015	50	0.000004	0.000012	0.25	0.00036	< 0.007	31
AMQ-ENV-17	IVR14-123	168.2	177.3	S9E	Iron Formation	Waste	Core	23	10	138	58	< 2	2.0	4.0	< 0.00001	0.16	0.000003	0.023	0.0057	< 0.000007	< 0.000007	0.069	18	< 0.000003	0.000012	0.23	0.00019	< 0.007	17
AMQ-ENV-42	IVR14-118	201.2	213.4	S9E	Iron Formation	Waste	Core	16	8.2	214	58	< 2	< 1	47	< 0.00001	0.57	0.000008	0.036	0.0038	< 0.000007	< 0.000007	0.013	32	0.000015	0.000014	0.0095	0.00065	< 0.007	16
AMQ-ENV-56	IVR14-055	95	105	S9E	Iron Formation	Waste	Reject	8	4.6	-	-	-	-	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-57	IVR14-056	21	31	S9E	Iron Formation	Waste	Reject	9	3.7	-	-	-	-	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-027	AMQ15-164	45	55	S9E	Iron Formation	Waste	Core	3	6.9	-	-	-	-	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-034	AMQ15-180	110	119	S9E	Iron Formation	Waste	Core	4	2.9	-	-	-	-	420	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-035	AMQ15-211	36	46	S9E	Iron Formation	Waste	Core	0	2.8	-	-	-	-	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-010	AMQ15-232	116	124	S9E	Iron Formation	Waste	Core	5	6.8	-	-	-	-	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-007	AMQ15-232	50	60	S10	Chert	Waste	Core	2	9.6	-	-	-	-	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-095	IVR14-091	80	90	S10	Chert	Waste	Core	1	7.2	-	-	-	-	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-096	IVR14-091	130	140	S10	Chert	Waste	Core	27	5.6	-	-	-	-	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-056	IVR14-148	37	47	S10	Chert	Waste	Core	10	6.1	-	-	-	-	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-115	IVR14-155	335	345	S10	Chert	Waste	Core	9	4.8	-	-	-	-	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RE-13872/RE-13874	-	-		-	Processed Ore	Tailing	milling reject	0	2.7	1980	< 2	234	< 2	770	< 0.00001	6.3	0.000054	0.33	0.33	0.0025	0.000007	0.1	159	0.0011	0.28	0.027	2.3	20	44

Notes:
a) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525,
b) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525,
nc - statistic could not be calculated

1.0	Results exceeds the Portage Effluent Water Quality Guideline.
1.0	Result exceeds the Vault Effluent Water Quality Guideline.

Appendix E.4
NAG Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

							Portage Effluent Quality Criteria[a]					0.2	1	0.1								0.4	6-9				1000
							Vault Effluent Quality Criteria[b]					**0.2**	**1.5**	**0.1**								**0.2**	**6-9**				**500**
Sample ID	**Borehole ID**	**Depth (m)**		**Lithology Code**	**Rock Name**	**Sample Type**		**Distance to Ore**	**Sequential NAG Metals Phase 1**																**Sequential NAG Metals - Phase 2**				
		From	**To**						**Lithium**	**Magnesium**	**Manganese**	**Molybdenum**	**Sodium**	**Nickel**	**Phosphorus**	**Lead**	**Antimony**	**Selenium**	**Tin**	**Strontium**	**Titanium**	**Thallium**	**Uranium**	**Vanadium**	**Zinc**	**pH**	**Conductivity**	**Alkalinity**	**Acidity**	**Chloride**
									mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	no unit	uS/cm	mg/L as CaCO3	mg/L as CaCO3	mg/L
AMQ-ENV-40	IVR14-118	14	23.2	S3C	Greywacke	Waste	Core	23	0.015	7.9	2.7	0.00052	1.2	0.15	< 0.003	0.011	0.0005	0.0031	0.00014	0.04	0.0016	0.00053	0.0036	0.00013	0.16	**3.8**	107	< 2	61	< 1
AMQ-ENV-109	IVR14-146	10	19.1	S3C	Greywacke	Waste	Core	5	0.0075	3.3	0.10	0.029	1.9	0.0002	< 0.003	< 0.00001	0.0011	0.0014	0.00019	0.018	0.001	0.000069	0.00021	0.021	< 0.002	6.7	17	5.0	11	< 1
AMQ-ENV-03	IVR14-130	61.8	71.2	S3C	Greywacke	Waste	Core	50	0.011	4.9	1.4	0.019	2.2	0.18	< 0.003	0.0014	0.0004	0.0011	0.00032	0.032	0.15	0.00024	0.00037	0.023	0.14	**5.3**	28	< 2	137	< 10
AMQ-ENV-11	IVR14-116	175	184.1	S3C	Greywacke	Waste	Core	30	0.007	0.032	0.00049	0.027	1.3	< 0.0001	0.006	0.00004	0.0009	0.0016	0.00017	0.033	0.004	0.000042	0.00033	0.016	< 0.002	6.7	72	5.0	2.0	< 1
AMQ-ENV-13	IVR14-123	9	18.5	S3C	Greywacke	Waste	Core	27	0.0024	4.3	0.033	0.027	1.4	0.0002	< 0.003	0.00002	0.001	0.0013	0.00013	0.014	0.0012	0.000039	0.00019	0.018	< 0.002	6.9	19	7.0	6.0	< 1
AMQ-ENV-14	IVR14-123	21	30.2	S3C	Greywacke	Waste	Core	19	0.0056	4.7	0.5	0.027	2.6	0.09	< 0.003	0.00016	0.0006	0.0016	0.00023	0.03	0.01	0.00019	0.00024	0.027	0.014	**5.9**	16	2.0	103	8.0
AMQ-ENV-18	IVR14-114	18	27.2	S3C	Greywacke	Waste	Core	25	0.0019	5.1	0.89	0.029	2.0	0.076	< 0.003	0.00011	0.0004	0.0016	0.0001	0.061	0.0025	0.00023	0.000087	0.019	0.007	**5.6**	22	< 2	11	< 1
AMQ-ENV-19	IVR14-114	75.2	84.1	S3C	Greywacke	Waste	Core	24	0.0065	2.0	0.0018	0.027	1.9	0.0002	< 0.003	0.00002	0.0011	0.0016	0.00012	0.021	0.0013	0.000047	0.00023	0.021	< 0.002	7.0	27	9.0	< 2	< 1
AMQ-ENV-20	IVR14-114	190	199.1	S3C	Greywacke	Waste	Core	11	0.0072	0.26	0.0014	0.026	2.2	< 0.0001	0.018	0.00005	0.0009	0.0012	0.00018	0.021	0.0066	0.000076	0.00031	0.025	< 0.002	7.1	50	8.0	< 2	< 1
AMQ-ENV-46	IVR14-130	148.9	155.3	S3C	Greywacke	Waste	Core	21	0.0057	0.65	0.0046	0.024	2.0	0.0001	0.014	0.00004	0.0008	0.00092	0.00013	0.034	0.0042	0.00006	0.00046	0.016	< 0.002	7.2	48	20	20	< 1
AMQ-ENV-53	IVR14-084	150	160.5	S3C	Greywacke	Waste	Reject	10	0.006	2.9	0.0012	0.015	2.7	0.0002	< 0.003	0.00002	0.0011	0.0025	0.00005	0.084	0.00015	0.00007	0.000074	0.0064	< 0.002	6.4	66	3.0	< 2	< 1
AMQ-ENV15-074	IVR14-153	150	160	S3C	Greywacke	Waste	Core	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	-	-
AMQ-ENV15-042	AMQ15-178	210	220	S3C	Greywacke	Waste	Core	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	-	-
AMQ-ENV15-008	AMQ15-232	69	79	S3C	Greywacke	Waste	Core	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**3.4**	-	-	-	-
AMQ-ENV15-098	IVR14-089	92	102	S3C	Greywacke	Waste	Core	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.4**	-	-	-	-
AMQ-ENV15-097	IVR14-091	190	200	S3C	Greywacke	Waste	Core	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-106	IVR14-099	95	104	S3C	Greywacke	Waste	Core	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.8**	-	-	-	-
AMQ-ENV15-107	IVR14-099	115	125	S3C	Greywacke	Waste	Core	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	-	-
AMQ-ENV15-108	IVR14-099	150	160	S3C	Greywacke	Waste	Core	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	-	-
AMQ-ENV15-064	IVR14-114	105	114	S3C	Greywacke	Waste	Core	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.5**	-	-	-	-
AMQ-ENV15-065	IVR14-114	125	135	S3C	Greywacke	Waste	Core	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.8**	-	-	-	-
AMQ-ENV15-066	IVR14-114	148	157	S3C	Greywacke	Waste	Core	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.0**	-	-	-	-
AMQ-ENV15-025	IVR14-141	139	148	S3C	Greywacke	Waste	Core	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	-	-	-	-
AMQ-ENV15-073	IVR14-153	45	55	S3C	Greywacke	Waste	Core	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.6**	-	-	-	-
AMQ-ENV-49	IVR14-016	106.5	115.5	0a	Ultramafic	Waste	Reject	13	0.0015	0.048	0.00061	0.0014	4.7	0.0002	< 0.003	< 0.00001	0.0082	0.0024	0.00007	0.09	0.00016	0.000032	0.000023	0.022	< 0.002	11	308	131	< 2	1.0
AMQ-ENV-17	IVR14-123	168.2	177.3	S9E	Iron Formation	Waste	Core	23	< 0.000006	0.013	0.0002	0.00086	1.0	0.0001	< 0.003	< 0.00001	0.0008	0.00022	0.00028	0.062	0.00013	0.000014	0.000044	0.028	< 0.002	9.7	92	44	< 2	2.0
AMQ-ENV-42	IVR14-118	201.2	213.4	S9E	Iron Formation	Waste	Core	16	0.0045	0.1	0.0015	0.022	1.9	0.0001	0.01	0.00004	0.001	0.0011	0.00011	0.07	0.0042	0.000086	0.0003	0.021	< 0.002	6.7	61	4.0	7.0	< 1
AMQ-ENV-56	IVR14-055	95	105	S9E	Iron Formation	Waste	Reject	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.9**	-	-	-	-
AMQ-ENV-57	IVR14-056	21	31	S9E	Iron Formation	Waste	Reject	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**4.9**	-	-	-	-
AMQ-ENV15-027	AMQ15-164	45	55	S9E	Iron Formation	Waste	Core	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.3**	-	-	-	-
AMQ-ENV15-034	AMQ15-180	110	119	S9E	Iron Formation	Waste	Core	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**3.8**	-	-	-	-
AMQ-ENV15-035	AMQ15-211	36	46	S9E	Iron Formation	Waste	Core	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**3.9**	-	-	-	-
AMQ-ENV15-010	AMQ15-232	116	124	S9E	Iron Formation	Waste	Core	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**4.3**	-	-	-	-
AMQ-ENV15-007	AMQ15-232	50	60	S10	Chert	Waste	Core	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**4.3**	-	-	-	-
AMQ-ENV15-095	IVR14-091	80	90	S10	Chert	Waste	Core	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**4.3**	-	-	-	-
AMQ-ENV15-096	IVR14-091	130	140	S10	Chert	Waste	Core	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**4.5**	-	-	-	-
AMQ-ENV15-056	IVR14-148	37	47	S10	Chert	Waste	Core	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	-	-
AMQ-ENV15-115	IVR14-155	335	345	S10	Chert	Waste	Core	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	-	-
RE-13872/RE-13874	-	-		-	Processed Ore	Tailing	milling reject	0	0.036	17	6.1	0.00047	13	3.4	< 0.003	0.11	0.0003	0.01	0.00008	0.4	0.0021	0.00082	0.0027	0.00068	0.28	**3.0**	548	< 2	68	< 2

Notes:
a) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525,
b) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525,
nc - statistic could not be calculated

1.0	Results exceeds the Portage Effluent Water Quality Guideline.
1.0	Result exceeds the Vault Effluent Water Quality Guideline.

Appendix E.4
NAG Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

							Portage Effluent Quality Criteria[a]		0.0004	1		0.3						0.002			0.1								0.2
							Vault Effluent Quality Criteria[b]		**0.0004**	**1**		**0.1**						**0.002**			**0.1**								**0.2**
Sample ID	**Borehole ID**	**Depth (m)**		**Lithology Code**	**Rock Name**	**Sample Type**		**Distance to Ore**	**Sequential NAG Metals - Phase 2**																				
		From	**To**						**Sulphate**	**Mercury**	**Aluminum**	**Silver**	**Arsenic**	**Barium**	**Beryllium**	**Bismuth**	**Boron**	**Calcium**	**Cadmium**	**Cobalt**	**Chromium**	**Copper**	**Iron**	**Potassium**	**Lithium**	**Magnesium**	**Manganese**	**Molybdenum**	**Sodium**	**Nickel**
									mg/L	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
AMQ-ENV-40	IVR14-118	14	23.2	S3C	Greywacke	Waste	Core	23	22	< 0.00001	0.37	0.000047	< 0.0002	0.028	0.000058	< 0.000007	0.014	3.6	0.000018	0.013	0.0062	0.0011	0.016	1.8	0.002	1.1	0.24	0.0059	0.09	0.0092
AMQ-ENV-109	IVR14-146	10	19.1	S3C	Greywacke	Waste	Core	5	1.0	< 0.00001	0.023	0.000007	0.0025	0.00091	< 0.000007	< 0.000007	0.015	0.98	< 0.000003	0.000046	0.0047	0.0004	0.012	1.9	0.0007	0.53	0.028	0.00072	0.4	< 0.0001
AMQ-ENV-03	IVR14-130	61.8	71.2	S3C	Greywacke	Waste	Core	50	7.0	< 0.00001	0.056	0.000013	0.001	0.0017	< 0.000007	< 0.000007	0.025	2.6	0.000007	0.00057	0.0076	0.00089	0.012	1.3	0.00045	0.35	0.25	0.00058	0.22	0.0013
AMQ-ENV-11	IVR14-116	175	184.1	S3C	Greywacke	Waste	Core	30	21	< 0.00001	0.018	0.00001	0.0023	0.0035	< 0.000007	< 0.000007	0.015	6.9	0.000004	0.000075	0.0034	0.00047	< 0.007	6.2	0.00061	0.66	0.0076	0.0011	0.45	0.0001
AMQ-ENV-13	IVR14-123	9	18.5	S3C	Greywacke	Waste	Core	27	1.0	< 0.00001	0.05	0.000006	0.0071	0.0014	< 0.000007	< 0.000007	0.015	0.69	0.000012	0.000084	0.0031	0.00057	0.045	3.5	0.00025	0.59	0.017	0.00076	0.31	0.0002
AMQ-ENV-14	IVR14-123	21	30.2	S3C	Greywacke	Waste	Core	19	2.0	< 0.00001	0.065	0.000029	0.0052	0.0019	< 0.000007	< 0.000007	0.033	0.91	0.000015	0.00016	0.0087	0.0011	0.049	2.2	0.00018	0.25	0.042	0.002	0.28	0.0004
AMQ-ENV-18	IVR14-114	18	27.2	S3C	Greywacke	Waste	Core	25	5.0	< 0.00001	0.007	0.000014	0.0005	0.0019	< 0.000007	< 0.000007	0.026	1.5	0.00001	0.00021	0.012	0.00046	< 0.007	2.4	0.000041	0.31	0.037	0.001	0.25	0.0003
AMQ-ENV-19	IVR14-114	75.2	84.1	S3C	Greywacke	Waste	Core	24	2.0	< 0.00001	0.053	0.000003	0.012	0.00081	< 0.000007	< 0.000007	0.014	2.1	< 0.000003	0.000022	0.0069	0.0005	< 0.007	3.2	0.00047	0.59	0.0016	0.00058	0.49	< 0.0001
AMQ-ENV-20	IVR14-114	190	199.1	S3C	Greywacke	Waste	Core	11	10	< 0.00001	0.041	0.000004	0.015	0.0018	< 0.000007	< 0.000007	0.012	3.9	< 0.000003	0.000034	0.0059	0.00072	0.008	6.7	0.00028	0.62	0.0024	0.00073	0.66	0.0001
AMQ-ENV-46	IVR14-130	148.9	155.3	S3C	Greywacke	Waste	Core	21	7.0	< 0.00001	0.036	0.000004	0.028	0.002	< 0.000007	< 0.000007	0.013	4.7	0.000003	0.000023	0.0065	0.00054	< 0.007	4.4	0.00018	0.96	0.0063	0.00076	0.65	< 0.0001
AMQ-ENV-53	IVR14-084	150	160.5	S3C	Greywacke	Waste	Reject	10	21	< 0.00001	0.017	0.000005	0.0038	0.0022	< 0.000007	< 0.000007	0.011	7.2	0.000007	0.00004	0.017	0.0007	< 0.007	3.0	0.00029	1.2	0.003	0.0026	0.54	< 0.0001
AMQ-ENV15-074	IVR14-153	150	160	S3C	Greywacke	Waste	Core	3	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-042	AMQ15-178	210	220	S3C	Greywacke	Waste	Core	17	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-008	AMQ15-232	69	79	S3C	Greywacke	Waste	Core	21	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-098	IVR14-089	92	102	S3C	Greywacke	Waste	Core	19	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-097	IVR14-091	190	200	S3C	Greywacke	Waste	Core	23	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-106	IVR14-099	95	104	S3C	Greywacke	Waste	Core	23	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-107	IVR14-099	115	125	S3C	Greywacke	Waste	Core	32	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-108	IVR14-099	150	160	S3C	Greywacke	Waste	Core	22	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-064	IVR14-114	105	114	S3C	Greywacke	Waste	Core	40	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-065	IVR14-114	125	135	S3C	Greywacke	Waste	Core	29	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-066	IVR14-114	148	157	S3C	Greywacke	Waste	Core	21	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-025	IVR14-141	139	148	S3C	Greywacke	Waste	Core	0	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-073	IVR14-153	45	55	S3C	Greywacke	Waste	Core	3	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-49	IVR14-016	106.5	115.5	0a	Ultramafic	Waste	Reject	13	12	< 0.00001	1.7	0.000002	0.0042	0.0023	< 0.000007	< 0.000007	0.042	55	< 0.000003	< 0.000004	0.071	0.00066	< 0.007	6.3	0.00025	0.005	0.00012	0.0003	0.42	0.0001
AMQ-ENV-17	IVR14-123	168.2	177.3	S9E	Iron Formation	Waste	Core	23	3.0	< 0.00001	0.12	0.000002	0.03	0.0034	< 0.000007	< 0.000007	0.15	18	< 0.000003	0.00001	0.058	0.00029	< 0.007	2.3	0.00025	0.016	0.00021	0.00019	0.2	0.0001
AMQ-ENV-42	IVR14-118	201.2	213.4	S9E	Iron Formation	Waste	Core	16	18	< 0.00001	0.011	0.000005	0.0038	0.0026	< 0.000007	< 0.000007	0.01	6.3	< 0.000003	0.000078	0.004	0.00042	< 0.007	4.2	0.00033	0.82	0.0092	0.0006	0.59	0.0002
AMQ-ENV-56	IVR14-055	95	105	S9E	Iron Formation	Waste	Reject	8	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-57	IVR14-056	21	31	S9E	Iron Formation	Waste	Reject	9	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-027	AMQ15-164	45	55	S9E	Iron Formation	Waste	Core	3	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-034	AMQ15-180	110	119	S9E	Iron Formation	Waste	Core	4	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-035	AMQ15-211	36	46	S9E	Iron Formation	Waste	Core	0	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-010	AMQ15-232	116	124	S9E	Iron Formation	Waste	Core	5	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-007	AMQ15-232	50	60	S10	Chert	Waste	Core	2	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-095	IVR14-091	80	90	S10	Chert	Waste	Core	1	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-096	IVR14-091	130	140	S10	Chert	Waste	Core	27	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-056	IVR14-148	37	47	S10	Chert	Waste	Core	10	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-115	IVR14-155	335	345	S10	Chert	Waste	Core	9	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RE-13872/RE-13874	-	-		-	Processed Ore	Tailing	milling reject	0	100	< 0.00001	1.6	0.00011	0.0041	0.072	0.0006	< 0.000007	0.04	6.8	0.000049	0.048	0.053	0.23	0.54	5.6	0.0083	3.5	0.54	0.0098	0.3	0.27

Notes:
a) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525,
b) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525,
nc - statistic could not be calculated

1.0	Results exceeds the Portage Effluent Water Quality Guideline.
1.0	Result exceeds the Vault Effluent Water Quality Guideline.

Appendix E.4
NAG Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

							Portage Effluent Quality Criteria[a]	1	0.1								0.4	6-9				1000		0.0004	1		0.3	
							Vault Effluent Quality Criteria[b]	**1.5**	**0.1**								**0.2**	**6-9**				**500**		**0.0004**	**1**		**0.1**	
Sample ID	**Borehole ID**	**Depth (m)**		**Lithology Code**	**Rock Name**	**Sample Type**		**Distance to Ore**	**Sequential NAG Metals - Phase 2**													**Sequental NAG Metals - Phase 3**							
		From	**To**						**Phosphorus**	**Lead**	**Antimony**	**Selenium**	**Tin**	**Strontium**	**Titanium**	**Thallium**	**Uranium**	**Vanadium**	**Zinc**	**pH**	**Conductivity**	**Alkalinity**	**Acidity**	**Chloride**	**Sulphate**	**Mercury**	**Aluminum**	**Silver**	**Arsenic**	**Barium**
									mg/L	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**no unit**	**uS/cm**	**mg/L as CaCO3**	**mg/L as CaCO3**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
AMQ-ENV-40	IVR14-118	14	23.2	S3C	Greywacke	Waste	Core	23	< 0.003	0.00064	0.0006	0.0004	0.00022	0.0078	0.0014	0.000059	0.000016	0.0095	0.009	**4.6**	30	< 2	14	2.0	7.0	< 0.00001	0.079	0.000012	< 0.0002	0.0045
AMQ-ENV-109	IVR14-146	10	19.1	S3C	Greywacke	Waste	Core	5	0.006	0.00003	0.0008	< 0.00004	0.0003	0.0031	0.0046	0.000015	0.00023	0.0055	< 0.002	6.4	13	5.0	68	3.0	1.0	< 0.00001	0.016	0.000007	0.0029	0.0011
AMQ-ENV-03	IVR14-130	61.8	71.2	S3C	Greywacke	Waste	Core	50	0.006	0.00004	0.0006	0.0001	0.00026	0.0017	0.052	0.000025	0.00028	0.007	0.002	**5.6**	9.0	2.0	148	< 1	2.0	< 0.00001	0.11	0.000004	0.003	0.0012
AMQ-ENV-11	IVR14-116	175	184.1	S3C	Greywacke	Waste	Core	30	< 0.003	0.00004	0.001	0.0004	0.00014	0.013	0.00083	0.000055	0.000094	0.0055	< 0.002	6.8	18	6.0	15	3.0	1.0	< 0.00001	0.025	0.000011	0.0023	0.0014
AMQ-ENV-13	IVR14-123	9	18.5	S3C	Greywacke	Waste	Core	27	0.008	0.00009	0.0008	< 0.00004	0.00056	0.0021	0.0087	0.000015	0.00036	0.0047	< 0.002	6.6	14	5.0	32	2.0	1.0	< 0.00001	0.1	0.000005	0.0087	0.0019
AMQ-ENV-14	IVR14-123	21	30.2	S3C	Greywacke	Waste	Core	19	0.006	0.00016	0.001	0.00011	0.00087	0.0013	0.061	0.000033	0.0008	0.0091	< 0.002	**5.5**	12	2.0	254	< 1	2.0	< 0.00001	0.11	0.000024	0.011	0.002
AMQ-ENV-18	IVR14-114	18	27.2	S3C	Greywacke	Waste	Core	25	< 0.003	0.00001	0.0005	0.00009	0.0001	0.0024	0.0026	0.000024	0.000041	0.0089	< 0.002	**5.9**	11	3.0	66	< 1	1.0	< 0.00001	0.04	0.000006	0.0035	0.0011
AMQ-ENV-19	IVR14-114	75.2	84.1	S3C	Greywacke	Waste	Core	24	0.013	0.00008	0.0009	0.00005	0.00011	0.0037	0.001	0.000018	0.00017	0.0066	< 0.002	7.0	19	8.0	20	< 1	1.0	< 0.00001	0.025	0.000005	0.0039	0.00091
AMQ-ENV-20	IVR14-114	190	199.1	S3C	Greywacke	Waste	Core	11	0.006	0.00004	0.0008	0.00024	0.00017	0.0058	0.0019	0.000031	0.00018	0.011	< 0.002	7.0	25	10	44	5.0	2.0	< 0.00001	0.037	0.000005	0.0089	0.0016
AMQ-ENV-46	IVR14-130	148.9	155.3	S3C	Greywacke	Waste	Core	21	0.008	0.00002	0.0006	0.00013	0.00013	0.0089	0.0016	0.000029	0.00031	0.0067	< 0.002	7.0	19	7.0	15	3.0	1.0	< 0.00001	0.028	0.000003	0.019	0.0011
AMQ-ENV-53	IVR14-084	150	160.5	S3C	Greywacke	Waste	Reject	10	< 0.003	0.00001	0.001	0.0003	0.00008	0.014	0.00019	0.000023	0.000034	0.0049	< 0.002	6.7	16	4.0	< 2	< 1	2.0	0.00001	0.017	0.000004	0.0042	0.00054
AMQ-ENV15-074	IVR14-153	150	160	S3C	Greywacke	Waste	Core	3	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	-	-	1.0	-	-	-	-	-
AMQ-ENV15-042	AMQ15-178	210	220	S3C	Greywacke	Waste	Core	17	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	-	-	1.0	-	-	-	-	-
AMQ-ENV15-008	AMQ15-232	69	79	S3C	Greywacke	Waste	Core	21	-	-	-	-	-	-	-	-	-	-	-	**3.9**	-	-	-	-	16	-	-	-	-	-
AMQ-ENV15-098	IVR14-089	92	102	S3C	Greywacke	Waste	Core	19	-	-	-	-	-	-	-	-	-	-	-	**5.8**	-	-	-	-	1.0	-	-	-	-	-
AMQ-ENV15-097	IVR14-091	190	200	S3C	Greywacke	Waste	Core	23	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-	-	-	2.0	-	-	-	-	-
AMQ-ENV15-106	IVR14-099	95	104	S3C	Greywacke	Waste	Core	23	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	-	-	1.0	-	-	-	-	-
AMQ-ENV15-107	IVR14-099	115	125	S3C	Greywacke	Waste	Core	32	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-	-	-	1.0	-	-	-	-	-
AMQ-ENV15-108	IVR14-099	150	160	S3C	Greywacke	Waste	Core	22	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	-	-	1.0	-	-	-	-	-
AMQ-ENV15-064	IVR14-114	105	114	S3C	Greywacke	Waste	Core	40	-	-	-	-	-	-	-	-	-	-	-	**5.9**	-	-	-	-	1.0	-	-	-	-	-
AMQ-ENV15-065	IVR14-114	125	135	S3C	Greywacke	Waste	Core	29	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	-	-	1.0	-	-	-	-	-
AMQ-ENV15-066	IVR14-114	148	157	S3C	Greywacke	Waste	Core	21	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	-	-	1.0	-	-	-	-	-
AMQ-ENV15-025	IVR14-141	139	148	S3C	Greywacke	Waste	Core	0	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-	-	-	70	-	-	-	-	-
AMQ-ENV15-073	IVR14-153	45	55	S3C	Greywacke	Waste	Core	3	-	-	-	-	-	-	-	-	-	-	-	**5.8**	-	-	-	-	1.0	-	-	-	-	-
AMQ-ENV-49	IVR14-016	106.5	115.5	0a	Ultramafic	Waste	Reject	13	< 0.003	0.00018	0.0019	0.00016	0.00024	0.077	0.00008	0.000018	0.000004	0.0087	< 0.002	**11**	356	113	< 2	< 1	4.0	0.00002	1.1	0.000003	0.011	0.001
AMQ-ENV-17	IVR14-123	168.2	177.3	S9E	Iron Formation	Waste	Core	23	0.003	0.00001	0.0007	0.00011	0.00037	0.041	0.00017	< 0.000005	0.000005	0.023	< 0.002	8.4	142	78	< 2	1.0	2.0	< 0.00001	0.012	< 0.000002	0.1	0.0084
AMQ-ENV-42	IVR14-118	201.2	213.4	S9E	Iron Formation	Waste	Core	16	< 0.003	0.00003	0.001	0.00036	0.00015	0.023	0.001	0.000052	0.00011	0.0078	< 0.002	6.5	20	5.0	23	< 1	3.0	0.00001	0.012	0.000006	0.004	0.0013
AMQ-ENV-56	IVR14-055	95	105	S9E	Iron Formation	Waste	Reject	8	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	-	-	2.0	-	-	-	-	-
AMQ-ENV-57	IVR14-056	21	31	S9E	Iron Formation	Waste	Reject	9	-	-	-	-	-	-	-	-	-	-	-	**5.5**	-	-	-	-	5.0	-	-	-	-	-
AMQ-ENV15-027	AMQ15-164	45	55	S9E	Iron Formation	Waste	Core	3	-	-	-	-	-	-	-	-	-	-	-	**4.7**	-	-	-	-	12	-	-	-	-	-
AMQ-ENV15-034	AMQ15-180	110	119	S9E	Iron Formation	Waste	Core	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-
AMQ-ENV15-035	AMQ15-211	36	46	S9E	Iron Formation	Waste	Core	0	-	-	-	-	-	-	-	-	-	-	-	**5.9**	-	-	-	-	7.0	-	-	-	-	-
AMQ-ENV15-010	AMQ15-232	116	124	S9E	Iron Formation	Waste	Core	5	-	-	-	-	-	-	-	-	-	-	-	**4.8**	-	-	-	-	8.0	-	-	-	-	-
AMQ-ENV15-007	AMQ15-232	50	60	S10	Chert	Waste	Core	2	-	-	-	-	-	-	-	-	-	-	-	**5.3**	-	-	-	-	20	-	-	-	-	-
AMQ-ENV15-095	IVR14-091	80	90	S10	Chert	Waste	Core	1	-	-	-	-	-	-	-	-	-	-	-	**5.0**	-	-	-	-	5.0	-	-	-	-	-
AMQ-ENV15-096	IVR14-091	130	140	S10	Chert	Waste	Core	27	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	-	-	7.0	-	-	-	-	-
AMQ-ENV15-056	IVR14-148	37	47	S10	Chert	Waste	Core	10	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	-	-	1.0	-	-	-	-	-
AMQ-ENV15-115	IVR14-155	335	345	S10	Chert	Waste	Core	9	-	-	-	-	-	-	-	-	-	-	-	**5.5**	-	-	-	-	6.0	-	-	-	-	-
RE-13872/RE-13874	-	-		-	Processed Ore	Tailing	milling reject	0	< 0.003	0.022	0.0004	0.002	0.00022	0.016	0.021	0.00035	0.00015	0.053	0.036	**3.7**	126	< 2	17	< 2	26	< 0.00001	0.2	0.00024	0.0008	0.0079

Notes:
a) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525,
b) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525,
nc - statistic could not be calculated

1.0	Results exceeds the Portage Effluent Water Quality Guideline.
1.0	Result exceeds the Vault Effluent Water Quality Guideline.

Appendix E.4
NAG Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

							Portage Effluent Quality Criteria[a]				0.002			0.1								0.2	1	0.1				
							Vault Effluent Quality Criteria[b]				**0.002**			**0.1**								**0.2**	**1.5**	**0.1**				
Sample ID	**Borehole ID**	**Depth (m)**		**Lithology Code**	**Rock Name**	**Sample Type**		**Distance to Ore**	**Sequental NAG Metals - Phase 3**																				
		From	**To**						**Beryllium**	**Bismuth**	**Boron**	**Calcium**	**Cadmium**	**Cobalt**	**Chromium**	**Copper**	**Iron**	**Potassium**	**Lithium**	**Magnesium**	**Manganese**	**Molybdenum**	**Sodium**	**Nickel**	**Phosphorus**	**Lead**	**Antimony**	**Selenium**	**Tin**	**Strontium**
									mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMQ-ENV-40	IVR14-118	14	23.2	S3C	Greywacke	Waste	Core	23	0.000014	< 0.000007	0.015	1.5	0.000004	0.00096	0.0036	0.0005	< 0.007	0.59	0.001	0.48	0.1	0.00075	0.06	0.0012	0.003	0.00003	0.0005	0.00019	0.00023	0.0037
AMQ-ENV-109	IVR14-146	10	19.1	S3C	Greywacke	Waste	Core	5	< 0.000007	< 0.000007	0.012	1.1	0.000009	0.000032	0.003	0.0034	0.011	1.3	0.00042	0.44	0.08	0.00034	0.25	0.0001	0.01	0.0002	0.0006	< 0.00004	0.00083	0.0038
AMQ-ENV-03	IVR14-130	61.8	71.2	S3C	Greywacke	Waste	Core	50	< 0.000007	< 0.000007	0.028	0.83	< 0.000003	0.000097	0.0055	0.00073	0.11	0.73	0.00015	0.15	0.068	0.00027	0.15	0.0002	0.023	0.00008	0.0006	< 0.00004	0.0015	0.00098
AMQ-ENV-11	IVR14-116	175	184.1	S3C	Greywacke	Waste	Core	30	< 0.000007	< 0.000007	0.013	1.7	0.000008	0.00004	0.0026	0.00032	0.016	2.3	0.000085	0.32	0.013	0.00031	0.25	0.0002	0.008	0.00007	0.0009	< 0.00004	0.00033	0.0043
AMQ-ENV-13	IVR14-123	9	18.5	S3C	Greywacke	Waste	Core	27	< 0.000007	< 0.000007	0.019	0.66	0.000003	0.00014	0.0024	0.00073	0.12	2.5	0.00018	0.51	0.041	0.00034	0.22	0.0003	0.021	0.00023	0.0007	< 0.00004	0.0013	0.0021
AMQ-ENV-14	IVR14-123	21	30.2	S3C	Greywacke	Waste	Core	19	< 0.000007	< 0.000007	0.035	0.77	0.000007	0.00017	0.0034	0.00058	0.084	1.7	0.00021	0.21	0.033	0.0011	0.2	0.0003	0.034	0.00021	0.0011	< 0.00004	0.0015	0.0012
AMQ-ENV-18	IVR14-114	18	27.2	S3C	Greywacke	Waste	Core	25	< 0.000007	< 0.000007	0.025	0.8	0.000005	0.000065	0.0065	0.00063	0.041	1.8	0.000044	0.19	0.021	0.0003	0.16	0.0002	0.009	0.00008	0.0006	< 0.00004	0.00061	0.0013
AMQ-ENV-19	IVR14-114	75.2	84.1	S3C	Greywacke	Waste	Core	24	< 0.000007	< 0.000007	0.01	1.6	0.000008	0.00003	0.0037	0.00041	0.012	1.9	0.00019	0.65	0.0069	0.00026	0.33	0.0001	0.014	0.00007	0.0007	< 0.00004	0.00024	0.0039
AMQ-ENV-20	IVR14-114	190	199.1	S3C	Greywacke	Waste	Core	11	< 0.000007	< 0.000007	0.012	2.0	0.000005	0.000038	0.0034	0.00056	0.022	3.5	0.0001	0.56	0.011	0.00029	0.4	0.0002	0.013	0.00003	0.0007	< 0.00004	0.00024	0.0046
AMQ-ENV-46	IVR14-130	148.9	155.3	S3C	Greywacke	Waste	Core	21	< 0.000007	< 0.000007	0.019	1.8	0.000005	0.000027	0.0045	0.00041	0.013	1.8	0.000061	0.55	0.0081	0.00028	0.45	0.0001	0.017	0.00004	0.0006	< 0.00004	0.00034	0.0046
AMQ-ENV-53	IVR14-084	150	160.5	S3C	Greywacke	Waste	Reject	10	< 0.000007	< 0.000007	0.0099	1.6	< 0.000003	0.000019	0.0075	0.00045	< 0.007	0.99	0.000047	0.4	0.0039	0.0007	0.29	< 0.0001	0.005	0.00002	0.001	< 0.00004	0.0002	0.0042
AMQ-ENV15-074	IVR14-153	150	160	S3C	Greywacke	Waste	Core	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-042	AMQ15-178	210	220	S3C	Greywacke	Waste	Core	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-008	AMQ15-232	69	79	S3C	Greywacke	Waste	Core	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-098	IVR14-089	92	102	S3C	Greywacke	Waste	Core	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-097	IVR14-091	190	200	S3C	Greywacke	Waste	Core	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-106	IVR14-099	95	104	S3C	Greywacke	Waste	Core	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-107	IVR14-099	115	125	S3C	Greywacke	Waste	Core	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-108	IVR14-099	150	160	S3C	Greywacke	Waste	Core	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-064	IVR14-114	105	114	S3C	Greywacke	Waste	Core	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-065	IVR14-114	125	135	S3C	Greywacke	Waste	Core	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-066	IVR14-114	148	157	S3C	Greywacke	Waste	Core	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-025	IVR14-141	139	148	S3C	Greywacke	Waste	Core	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-073	IVR14-153	45	55	S3C	Greywacke	Waste	Core	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-49	IVR14-016	106.5	115.5	0a	Ultramafic	Waste	Reject	13	< 0.000007	< 0.000007	0.2	47	< 0.000003	< 0.000004	0.051	0.00018	< 0.007	3.1	0.00026	0.005	0.00013	0.00016	0.27	< 0.0001	< 0.003	0.00002	0.0022	0.00007	0.00019	0.056
AMQ-ENV-17	IVR14-123	168.2	177.3	S9E	Iron Formation	Waste	Core	23	< 0.000007	< 0.000007	0.059	29	< 0.000003	0.000029	0.029	0.00096	< 0.007	0.98	0.0024	1.2	0.0081	0.00023	0.08	0.0003	0.03	0.00003	0.0005	0.00009	0.00018	0.05
AMQ-ENV-42	IVR14-118	201.2	213.4	S9E	Iron Formation	Waste	Core	16	< 0.000007	< 0.000007	0.01	1.9	0.000005	0.000034	0.0029	0.00043	0.009	1.7	0.000062	0.44	0.019	0.00026	0.33	0.0002	0.006	0.00002	0.0009	0.00006	0.00027	0.01
AMQ-ENV-56	IVR14-055	95	105	S9E	Iron Formation	Waste	Reject	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-57	IVR14-056	21	31	S9E	Iron Formation	Waste	Reject	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-027	AMQ15-164	45	55	S9E	Iron Formation	Waste	Core	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-034	AMQ15-180	110	119	S9E	Iron Formation	Waste	Core	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-035	AMQ15-211	36	46	S9E	Iron Formation	Waste	Core	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-010	AMQ15-232	116	124	S9E	Iron Formation	Waste	Core	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-007	AMQ15-232	50	60	S10	Chert	Waste	Core	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-095	IVR14-091	80	90	S10	Chert	Waste	Core	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-096	IVR14-091	130	140	S10	Chert	Waste	Core	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-056	IVR14-148	37	47	S10	Chert	Waste	Core	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-115	IVR14-155	335	345	S10	Chert	Waste	Core	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RE-13872/RE-13874	-	-		-	Processed Ore	Tailing	milling reject	0	0.000072	< 0.000007	0.034	2.4	0.000004	0.0026	0.022	0.016	0.041	1.0	0.0029	1.5	0.16	0.0028	0.09	0.02	< 0.003	0.0019	0.0004	< 0.001	0.00021	0.0085

Notes:
a) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525,
b) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525,
nc - statistic could not be calculated

1.0	Results exceeds the Portage Effluent Water Quality Guideline.
1.0	Result exceeds the Vault Effluent Water Quality Guideline.

Appendix E.4
NAG Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

								Portage Effluent Quality Criteria[a]					0.4	6-9				1000		0.0004	1		0.3						0.002	
								Vault Effluent Quality Criteria[b]					**0.2**	**6-9**				**500**		**0.0004**	**1**		**0.1**						**0.002**	
Sample ID	**Borehole ID**	**Depth (m)**		**Lithology Code**	**Rock Name**	**Sample Type**		**Distance to Ore**	**Sequental NAG Metals - Phase 3**													**Sequental NAG Metals - Phase 4**									
		From	**To**						**Titanium**	**Thallium**	**Uranium**	**Vanadium**	**Zinc**	**pH**	**Conductivity**	**Alkalinity**	**Acidity**	**Chloride**	**Sulphate**	**Mercury**	**Aluminum**	**Silver**	**Arsenic**	**Barium**	**Beryllium**	**Bismuth**	**Boron**	**Calcium**	**Cadmium**	**Cobalt**
									mg/L	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**no unit**	**uS/cm**	**mg/L as CaCO3**	**mg/L as CaCO3**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
AMQ-ENV-40	IVR14-118	14	23.2	S3C	Greywacke	Waste	Core	23	0.00043	0.000021	0.000006	0.0024	0.003	**4.7**	20	< 2	6.0	< 1	4.0	< 0.00001	0.031	0.000006	0.0007	0.0019	< 0.000007	< 0.000007	0.018	1.0	< 0.000003	0.00031
AMQ-ENV-109	IVR14-146	10	19.1	S3C	Greywacke	Waste	Core	5	0.018	0.000022	0.00059	0.0026	0.004	**5.7**	13	4.0	328	17	1.0	< 0.00001	0.019	0.000014	0.0052	0.0017	< 0.000007	< 0.000007	0.0063	1.2	0.000021	0.000046
AMQ-ENV-03	IVR14-130	61.8	71.2	S3C	Greywacke	Waste	Core	50	0.14	0.000012	0.00047	0.0037	< 0.002	**5.1**	9.0	2.0	269	8.0	2.0	< 0.00001	0.096	0.000007	0.0046	0.0012	< 0.000007	< 0.000007	0.021	0.93	< 0.000003	0.00011
AMQ-ENV-11	IVR14-116	175	184.1	S3C	Greywacke	Waste	Core	30	0.0025	0.000025	0.0001	0.0035	< 0.002	6.4	13	3.0	53	2.0	1.0	< 0.00001	0.049	0.000014	0.004	0.0019	< 0.000007	< 0.000007	0.013	1.4	0.000004	0.000074
AMQ-ENV-13	IVR14-123	9	18.5	S3C	Greywacke	Waste	Core	27	0.032	0.000018	0.00085	0.003	< 0.002	6.0	13	4.0	181	12	1.0	< 0.00001	0.066	0.00001	0.014	0.0022	< 0.000007	< 0.000007	0.013	0.87	0.00001	0.00012
AMQ-ENV-14	IVR14-123	21	30.2	S3C	Greywacke	Waste	Core	19	0.23	0.000037	0.0014	0.0035	< 0.002	**5.2**	10	2.0	303	< 10	2.0	< 0.00001	0.12	0.00016	0.011	0.0024	< 0.000007	< 0.000007	0.024	0.93	0.000006	0.00023
AMQ-ENV-18	IVR14-114	18	27.2	S3C	Greywacke	Waste	Core	25	0.021	0.000019	0.00042	0.0072	< 0.002	**5.5**	12	2.0	154	< 10	1.0	< 0.00001	0.069	0.000012	0.0063	0.0017	< 0.000007	< 0.000007	0.02	0.94	0.000003	0.00011
AMQ-ENV-19	IVR14-114	75.2	84.1	S3C	Greywacke	Waste	Core	24	0.0029	0.000021	0.00021	0.0035	< 0.002	6.5	14	4.0	24	3.0	1.0	< 0.00001	0.048	0.000007	0.0037	0.0011	< 0.000007	< 0.000007	0.012	1.2	0.000021	0.000068
AMQ-ENV-20	IVR14-114	190	199.1	S3C	Greywacke	Waste	Core	11	0.0058	0.000035	0.00027	0.0053	< 0.002	6.6	16	5.0	28	1.0	1.0	< 0.00001	0.071	0.000008	0.0096	0.0018	< 0.000007	< 0.000007	0.018	1.3	< 0.000003	0.000087
AMQ-ENV-46	IVR14-130	148.9	155.3	S3C	Greywacke	Waste	Core	21	0.0042	0.000019	0.00032	0.0039	< 0.002	6.6	15	5.0	41	3.0	1.0	< 0.00001	0.041	0.000006	0.021	0.0017	< 0.000007	< 0.000007	0.021	1.4	0.000003	0.000046
AMQ-ENV-53	IVR14-084	150	160.5	S3C	Greywacke	Waste	Reject	10	0.00033	0.000006	0.000016	0.0025	< 0.002	6.5	14	4.0	3.0	< 1	1.0	< 0.00001	0.009	0.000004	0.0013	0.00075	< 0.000007	< 0.000007	0.0077	1.5	0.000005	0.00003
AMQ-ENV15-074	IVR14-153	150	160	S3C	Greywacke	Waste	Core	3	-	-	-	-	-	6.5	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-042	AMQ15-178	210	220	S3C	Greywacke	Waste	Core	17	-	-	-	-	-	6.9	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-008	AMQ15-232	69	79	S3C	Greywacke	Waste	Core	21	-	-	-	-	-	**4.2**	-	-	-	-	7.0	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-098	IVR14-089	92	102	S3C	Greywacke	Waste	Core	19	-	-	-	-	-	**5.9**	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-097	IVR14-091	190	200	S3C	Greywacke	Waste	Core	23	-	-	-	-	-	7.0	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-106	IVR14-099	95	104	S3C	Greywacke	Waste	Core	23	-	-	-	-	-	6.2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-107	IVR14-099	115	125	S3C	Greywacke	Waste	Core	32	-	-	-	-	-	6.7	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-108	IVR14-099	150	160	S3C	Greywacke	Waste	Core	22	-	-	-	-	-	6.2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-064	IVR14-114	105	114	S3C	Greywacke	Waste	Core	40	-	-	-	-	-	**5.9**	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-065	IVR14-114	125	135	S3C	Greywacke	Waste	Core	29	-	-	-	-	-	6.0	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-066	IVR14-114	148	157	S3C	Greywacke	Waste	Core	21	-	-	-	-	-	6.1	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-025	IVR14-141	139	148	S3C	Greywacke	Waste	Core	0	-	-	-	-	-	6.5	-	-	-	-	34	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-073	IVR14-153	45	55	S3C	Greywacke	Waste	Core	3	-	-	-	-	-	**5.8**	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-49	IVR14-016	106.5	115.5	0a	Ultramafic	Waste	Reject	13	0.00016	0.000011	0.000004	0.018	< 0.002	10	152	75	< 2	< 1	3.0	< 0.00001	0.8	0.000003	0.023	0.00032	< 0.000007	< 0.000007	0.57	32	< 0.000003	< 0.000004
AMQ-ENV-17	IVR14-123	168.2	177.3	S9E	Iron Formation	Waste	Core	23	0.00031	0.000017	0.000007	0.0066	< 0.002	7.4	41	17	< 2	2.0	2.0	< 0.00001	0.019	0.000002	0.29	0.0043	< 0.000007	< 0.000007	0.068	5.1	< 0.000003	0.00021
AMQ-ENV-42	IVR14-118	201.2	213.4	S9E	Iron Formation	Waste	Core	16	0.0044	0.000033	0.00021	0.0048	< 0.002	6.4	13	4.0	21	4.0	1.0	< 0.00001	0.059	0.000007	0.0079	0.0013	< 0.000007	< 0.000007	0.012	1.3	< 0.000003	0.00009
AMQ-ENV-56	IVR14-055	95	105	S9E	Iron Formation	Waste	Reject	8	-	-	-	-	-	6.5	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-57	IVR14-056	21	31	S9E	Iron Formation	Waste	Reject	9	-	-	-	-	-	**5.8**	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-027	AMQ15-164	45	55	S9E	Iron Formation	Waste	Core	3	-	-	-	-	-	**5.2**	-	-	-	-	4.0	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-034	AMQ15-180	110	119	S9E	Iron Formation	Waste	Core	4	-	-	-	-	-	**4.8**	-	-	-	-	5.0	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-035	AMQ15-211	36	46	S9E	Iron Formation	Waste	Core	0	-	-	-	-	-	**5.1**	-	-	-	-	3.0	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-010	AMQ15-232	116	124	S9E	Iron Formation	Waste	Core	5	-	-	-	-	-	**5.1**	-	-	-	-	4.0	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-007	AMQ15-232	50	60	S10	Chert	Waste	Core	2	-	-	-	-	-	**5.9**	-	-	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-095	IVR14-091	80	90	S10	Chert	Waste	Core	1	-	-	-	-	-	**5.3**	-	-	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-096	IVR14-091	130	140	S10	Chert	Waste	Core	27	-	-	-	-	-	**5.4**	-	-	-	-	3.0	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-056	IVR14-148	37	47	S10	Chert	Waste	Core	10	-	-	-	-	-	6.2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-115	IVR14-155	335	345	S10	Chert	Waste	Core	9	-	-	-	-	-	**5.7**	-	-	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-
RE-13872/RE-13874	-	-		-	Processed Ore	Tailing	milling reject	0	0.0018	0.000099	0.000022	0.011	0.007	**4.2**	52	< 2	6.0	< 2	11	< 0.00001	0.059	0.00041	0.0003	0.0026	0.000019	< 0.000007	0.032	1.4	< 0.000003	0.00089

Notes:
a) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525,
b) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525,
nc - statistic could not be calculated

1.0	Results exceeds the Portage Effluent Water Quality Guideline.
1.0	Result exceeds the Vault Effluent Water Quality Guideline.

Appendix E.4
NAG Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Portage Effluent Quality Criteria[a]									0.1								0.2	1	0.1										0.4
Vault Effluent Quality Criteria[b]									**0.1**								**0.2**	**1.5**	**0.1**										**0.2**
Sample ID	**Borehole ID**	**Depth (m)**		**Lithology Code**	**Rock Name**	**Sample Type**		**Distance to Ore**	**Sequental NAG Metals - Phase 4**																		**Sequental NAG Metals - Phase 4**					
		From	**To**						**Chromium**	**Copper**	**Iron**	**Potassium**	**Lithium**	**Magnesium**	**Manganese**	**Molybdenum**	**Sodium**	**Nickel**	**Phosphorus**	**Lead**	**Antimony**	**Selenium**	**Tin**	**Strontium**	**Silicon**	**Titanium**	**Thallium**	**Uranium**	**Vanadium**	**Zinc**
									mg/L	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
AMQ-ENV-40	IVR14-118	14	23.2	S3C	Greywacke	Waste	Core	23	0.0012	0.00034	< 0.007	0.36	0.00067	0.35	0.078	0.0005	0.07	0.0006	< 0.003	0.00002	0.0005	0.00015	0.00038	0.0027	-	0.00073	0.000011	0.00006	0.00083	< 0.002
AMQ-ENV-109	IVR14-146	10	19.1	S3C	Greywacke	Waste	Core	5	0.0023	0.00019	0.016	0.96	0.00035	0.32	0.13	0.001	0.17	0.0001	0.016	0.00003	0.0005	< 0.00004	0.00039	0.0044	-	0.036	0.000023	0.0011	0.0019	< 0.002
AMQ-ENV-03	IVR14-130	61.8	71.2	S3C	Greywacke	Waste	Core	50	0.0026	0.00077	0.098	0.66	0.00012	0.15	0.062	0.00038	0.12	0.0002	0.043	0.00006	0.0004	< 0.00004	0.002	0.0009	-	0.28	0.000016	0.0007	0.0022	< 0.002
AMQ-ENV-11	IVR14-116	175	184.1	S3C	Greywacke	Waste	Core	30	0.0023	0.00099	0.034	1.6	0.000035	0.3	0.027	0.00037	0.19	0.0002	0.01	0.00019	0.0005	< 0.00004	0.00074	0.0038	-	0.01	0.000023	0.00028	0.0028	< 0.002
AMQ-ENV-13	IVR14-123	9	18.5	S3C	Greywacke	Waste	Core	27	0.0022	0.00046	0.074	2.2	0.00013	0.5	0.092	0.0013	0.16	0.0002	0.04	0.00015	0.0005	< 0.00004	0.0013	0.0026	-	0.099	0.000026	0.0017	0.0025	< 0.002
AMQ-ENV-14	IVR14-123	21	30.2	S3C	Greywacke	Waste	Core	19	0.0025	0.00095	0.084	1.2	0.00023	0.2	0.032	0.0055	0.17	0.0004	0.045	0.00026	0.001	0.00006	0.0022	0.0013	-	0.35	0.000037	0.0017	0.0027	< 0.002
AMQ-ENV-18	IVR14-114	18	27.2	S3C	Greywacke	Waste	Core	25	0.0027	0.00047	0.062	1.6	0.000032	0.21	0.027	0.00045	0.14	0.0002	0.017	0.00008	0.0004	< 0.00004	0.0011	0.0014	-	0.054	0.000021	0.00075	0.0031	< 0.002
AMQ-ENV-19	IVR14-114	75.2	84.1	S3C	Greywacke	Waste	Core	24	0.0033	0.0005	0.032	1.2	0.000075	0.48	0.011	0.00028	0.25	0.0001	0.012	0.00006	0.0005	< 0.00004	0.00053	0.0032	-	0.012	0.000015	0.00026	0.0031	< 0.002
AMQ-ENV-20	IVR14-114	190	199.1	S3C	Greywacke	Waste	Core	11	0.0035	0.00041	0.055	2.3	0.00004	0.42	0.013	0.00047	0.35	0.0002	0.015	0.00006	0.0005	< 0.00004	0.00073	0.0033	-	0.015	0.000024	0.00032	0.0053	< 0.002
AMQ-ENV-46	IVR14-130	148.9	155.3	S3C	Greywacke	Waste	Core	21	0.003	0.00078	0.026	1.4	0.000022	0.47	0.02	0.00055	0.33	0.0001	0.02	0.00007	0.0005	< 0.00004	0.00057	0.004	-	0.019	0.000018	0.00065	0.0029	< 0.002
AMQ-ENV-53	IVR14-084	150	160.5	S3C	Greywacke	Waste	Reject	10	0.0056	0.00028	< 0.007	0.87	< 0.000006	0.41	0.031	0.00032	0.23	< 0.0001	< 0.003	< 0.00001	0.0006	< 0.00004	0.00022	0.0049	-	0.00082	0.000011	0.000043	0.0013	< 0.002
AMQ-ENV15-074	IVR14-153	150	160	S3C	Greywacke	Waste	Core	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-042	AMQ15-178	210	220	S3C	Greywacke	Waste	Core	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-008	AMQ15-232	69	79	S3C	Greywacke	Waste	Core	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-098	IVR14-089	92	102	S3C	Greywacke	Waste	Core	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-097	IVR14-091	190	200	S3C	Greywacke	Waste	Core	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-106	IVR14-099	95	104	S3C	Greywacke	Waste	Core	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-107	IVR14-099	115	125	S3C	Greywacke	Waste	Core	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-108	IVR14-099	150	160	S3C	Greywacke	Waste	Core	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-064	IVR14-114	105	114	S3C	Greywacke	Waste	Core	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-065	IVR14-114	125	135	S3C	Greywacke	Waste	Core	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-066	IVR14-114	148	157	S3C	Greywacke	Waste	Core	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-025	IVR14-141	139	148	S3C	Greywacke	Waste	Core	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-073	IVR14-153	45	55	S3C	Greywacke	Waste	Core	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-49	IVR14-016	106.5	115.5	0a	Ultramafic	Waste	Reject	13	0.04	0.00063	< 0.007	1.9	0.00016	0.003	0.0001	0.00014	0.44	< 0.0001	< 0.003	< 0.00001	0.0018	0.00005	0.00025	0.034	-	0.00034	0.000005	0.00001	0.027	< 0.002
AMQ-ENV-17	IVR14-123	168.2	177.3	S9E	Iron Formation	Waste	Core	23	0.046	0.0071	0.026	0.59	0.002	2.1	0.004	0.00025	0.11	0.001	0.098	0.00003	0.0006	0.0002	0.00095	0.013	-	0.00071	0.000007	0.000013	0.0037	0.002
AMQ-ENV-42	IVR14-118	201.2	213.4	S9E	Iron Formation	Waste	Core	16	0.0027	0.00046	0.047	1.1	0.000025	0.34	0.019	0.00025	0.28	0.0002	0.014	0.00009	0.0005	< 0.00004	0.00086	0.0065	-	0.018	0.000017	0.00038	0.0044	< 0.002
AMQ-ENV-56	IVR14-055	95	105	S9E	Iron Formation	Waste	Reject	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV-57	IVR14-056	21	31	S9E	Iron Formation	Waste	Reject	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-027	AMQ15-164	45	55	S9E	Iron Formation	Waste	Core	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-034	AMQ15-180	110	119	S9E	Iron Formation	Waste	Core	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-035	AMQ15-211	36	46	S9E	Iron Formation	Waste	Core	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-010	AMQ15-232	116	124	S9E	Iron Formation	Waste	Core	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-007	AMQ15-232	50	60	S10	Chert	Waste	Core	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-095	IVR14-091	80	90	S10	Chert	Waste	Core	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-096	IVR14-091	130	140	S10	Chert	Waste	Core	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-056	IVR14-148	37	47	S10	Chert	Waste	Core	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMQ-ENV15-115	IVR14-155	335	345	S10	Chert	Waste	Core	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RE-13872/RE-13874	-	-		-	Processed Ore	Tailing	milling reject	0	0.02	0.0062	0.007	0.47	0.0015	0.9	0.093	0.0013	0.07	0.0089	< 0.003	0.00039	0.0003	< 0.001	0.00056	0.0053	3.8	0.00056	0.000044	0.000005	0.0028	0.006

Notes:
a) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525,
b) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525,
nc - statistic could not be calculated

1.0	Results exceeds the Portage Effluent Water Quality Guideline.
1.0	Result exceeds the Vault Effluent Water Quality Guideline.

E.5 – Short-Term Leaching Tests

Appendix E.5
Shake Flask Extraction Results
Waste Rock, Ore, Tailing, Soil and Lake Sediment
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

									Portage Effluent Quality Criteria[a]	6-9				1000				20		1.5	0.0004		1	0.3						0.002
									Vault Effluent Quality Criteria[b]	6-9				500				50		1	0.0004		1	0.1						0.002
Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample Type			Distance to Ore	Final pH	Alkalinity	Conductivity	Fluoride	Chloride	Sulphate	Bromide	Nitrite (as N)	Nitrate (as N)	Chromium	Phosphorus (total reactive)	Mercury	Silver	Aluminum	Arsenic	Barium	Boron	Beryllium	Bismuth	Calcium	Cadmium
		From	To								mg/L as CaCO3	uS/cm	mg/L	mg/L	mg/L	mg/L	as N mg/L	as N mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMQ-ENV15-029	AMQ15-170	50	60	0a	Ultramafic	Waste	Core		0	**9.6**	29	75	< 0.06	4.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000006	0.041	0.079	0.0091	0.0084	< 0.000007	< 0.000007	7.0	< 0.000003
AMQ-ENV-44	IVR14-118	281	295	0a	Ultramafic	Waste	Core		39	**9.8**	42	88	0.06	< 2	< 2	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	< 0.000002	0.01	**0.13**	0.0043	0.1	< 0.000007	< 0.000007	3.0	< 0.000003
AMQ-ENV15-028	AMQ15-164	80	90	0a	Ultramafic	Waste	Core		24	**9.6**	32	87	< 0.06	3.0	1.0	< 3	< 0.3	< 0.6	0.5	0.13	< 0.00001	0.000041	0.075	**1.1**	0.0062	0.016	< 0.000007	< 0.000007	5.9	0.000003
AMQ-ENV-16	IVR14-123	95	104	0a	Ultramafic	Waste	Core		17	**9.5**	34	75	< 0.06	< 2	< 2	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	< 0.000002	< 0.01	**0.31**	0.0063	0.029	< 0.000007	< 0.000007	5.5	< 0.000003
AMQ-ENV-31	IVR14-120	61	68	0a	Ultramafic	Waste	Core		10	**9.4**	43	134	0.07	< 2	5.6	< 3	< 0.3	< 0.6	-	**2.0**	< 0.00001	< 0.000002	< 0.01	**5.5**	0.028	0.016	< 0.000007	< 0.000007	12	< 0.000003
AMQ-ENV-32	IVR14-120	77	86	0a	Ultramafic	Waste	Core		6	**9.4**	44	105	< 0.06	2.4	< 2	< 3	< 0.3	< 0.6	-	0.11	< 0.00001	< 0.000002	< 0.01	**0.98**	0.02	0.014	< 0.000007	< 0.000007	5.2	< 0.000003
AMQ-ENV-33	IVR14-120	97	106	0a	Ultramafic	Waste	Core		32	**9.6**	45	88	< 0.06	< 2	< 2	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	< 0.000002	< 0.01	**0.11**	0.013	0.023	< 0.000007	< 0.000007	3.8	< 0.000003
AMQ-ENV-39	IVR14-121A	151	160	0a	Ultramafic	Waste	Core		10	**9.4**	42	85	< 0.06	< 2	< 2	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	< 0.000002	< 0.01	**0.21**	0.014	0.023	< 0.000007	< 0.000007	4.7	< 0.000003
AMQ-ENV-121	IVR14-149	190	199	0a	Ultramafic	Waste	Core		18	**9.9**	94	216	0.33	< 2	6.7	< 3	< 0.3	< 0.6	-	0.12	< 0.00001	< 0.000002	0.04	**0.36**	0.0048	0.1	< 0.000007	< 0.000007	2.0	< 0.000003
AMQ-ENV15-030	AMQ15-170	160	170	0a	Ultramafic	Waste	Core		2	**9.6**	29	62	< 0.06	1.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000007	0.031	0.084	0.0048	0.015	< 0.000007	< 0.000007	5.7	< 0.000003
AMQ-ENV15-016	AMQ15-225	31	40	0a	Ultramafic	Waste	Core		23	**9.1**	38	203	< 0.06	13	34	< 3	< 0.3	< 0.6	0.2	0.37	< 0.00001	0.00002	0.091	**1.7**	0.053	0.013	< 0.000007	0.000015	12	< 0.000003
AMQ-ENV15-011	AMQ15-232	149	159	0a	Ultramafic	Waste	Core		11	**9.8**	34	85	< 0.06	2.0	< 1	< 3	< 0.3	< 0.6	1.3	0.17	< 0.00001	0.000003	0.14	**1.2**	0.0061	0.02	< 0.000007	< 0.000007	4.5	< 0.000003
AMQ-ENV15-014	AMQ15-236	25	35	0a	Ultramafic	Waste	Core		8	**9.6**	34	90	0.09	5.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.031	0.01	0.024	0.0085	< 0.000007	< 0.000007	5.5	< 0.000003
AMQ-ENV15-090	IVR14-079	97	107	0a	Ultramafic	Waste	Core		11	**9.7**	33	84	< 0.06	2.0	1.0	< 3	< 0.3	< 0.6	1.1	0.24	< 0.00001	< 0.000002	0.092	**1.4**	0.0075	0.0063	< 0.000007	< 0.000007	5.4	< 0.000003
AMQ-ENV15-026	IVR14-141	224	234	0a	Ultramafic	Waste	Core		2	**9.6**	31	72	< 0.06	2.0	1.0	< 3	< 0.3	< 0.6	0.8	0.15	< 0.00001	0.000002	0.037	**1.1**	0.0088	0.021	< 0.000007	< 0.000007	6.5	< 0.000003
AMQ-ENV15-055	IVR14-148	95	105	0a	Ultramafic	Waste	Core		29	**9.6**	29	66	< 0.06	< 1	1.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.026	0.056	0.011	0.012	< 0.000007	< 0.000007	5.3	< 0.000003
AMQ-ENV-49	IVR14-016	107	116	0a	Ultramafic	Waste	Reject		13	**9.2**	42	464	0.11	3.1	130	< 3	< 0.3	< 0.6	0.5	**1.6**	< 0.00001	0.000008	0.16	**4.7**	0.0021	0.018	< 0.000007	< 0.000007	11	< 0.000003
AMQ-ENV-58	IVR14-056	44	54	0a	Ultramafic	Waste	Reject		4	**9.4**	64	204	0.2	4.4	22	< 3	< 0.3	< 0.6	5.8	**2.2**	< 0.00001	< 0.000002	0.032	**5.6**	0.0034	0.067	< 0.000007	0.000007	5.3	< 0.000003
AMQ-ENV-69	IVR14-015	70	80	0a	Ultramafic	Waste	Reject		14	**9.1**	39	473	0.11	86	36	< 3	< 0.3	< 0.6	1.3	**4.3**	< 0.00001	0.000004	0.07	**8.9**	0.0073	0.041	< 0.000007	< 0.000007	16	< 0.000003
AMQ-ENV-70	IVR14-015	83	93	0a	Ultramafic	Waste	Reject		19	**9.4**	38	130	0.09	6.6	13	< 3	< 0.3	< 0.6	0.5	0.72	< 0.00001	< 0.000002	0.019	**2.4**	0.0051	0.026	< 0.000007	< 0.000007	7.5	< 0.000003
AMQ-ENV-73	IVR14-097	182	192	0a	Ultramafic	Waste	Reject		10	**9.3**	46	111	0.14	< 2	2.7	< 3	< 0.3	< 0.6	1.6	0.65	< 0.00001	0.000004	0.013	**2.3**	0.0038	0.068	< 0.000007	< 0.000007	6.4	< 0.000003
									Minimum	*9.1*	*29*	*62*	*< 0.06*	*< 1*	*< 1*	*< 3*	*< 0.3*	*< 0.6*	*< 0.2*	*< 0.03*	*< 0.00001*	*< 0.000002*	*< 0.01*	*0.01*	*0.0021*	*0.0063*	*< 0.000007*	*< 0.000007*	*2.0*	*< 0.000003*
									Maximum	*9.9*	*94*	*473*	*0.33*	*86*	*130*	*< 3*	*< 0.3*	*< 0.6*	*5.8*	*4.3*	*< 0.00001*	*0.000041*	*0.16*	*8.9*	*0.053*	*0.1*	*< 0.000007*	*0.000015*	*16*	*0.000003*
Ultramafics - 0a									**Median**	*9.6*	*38*	*88*	*0.06*	*2.0*	*2.0*	*nc*	*nc*	*nc*	*0.5*	*0.13*	*nc*	*0.000002*	*0.031*	*1.1*	*0.0073*	*0.02*	*nc*	*0.000007*	*5.5*	*0.000003*
									Average	*9.5*	*41*	*143*	*0.091*	*7.1*	*13*	*nc*	*nc*	*nc*	*1.0*	*0.62*	*nc*	*0.0000057*	*0.045*	*1.8*	*0.012*	*0.031*	*nc*	*0.0000074*	*6.7*	*0.000003*
									Std. Deviation	*nc*	*15*	*118*	*0.065*	*18*	*29*	*nc*	*nc*	*nc*	*1.3*	*1.1*	*nc*	*0.0000091*	*0.043*	*2.4*	*0.012*	*0.029*	*nc*	*0.0000017*	*3.3*	*8.7E-22*
									75th Percentile	*nc*	*43*	*134*	*0.09*	*4.0*	*6.7*	*nc*	*nc*	*nc*	*1.3*	*0.65*	*nc*	*0.000004*	*0.07*	*2.3*	*0.013*	*0.029*	*nc*	*0.000007*	*7.0*	*0.000003*
AMQ-ENV-02	IVR14-130	34	44	0b	Ultramafic	Waste	Core		49	**9.5**	35	97	0.08	< 2	6.7	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	< 0.000002	0.01	**0.27**	0.025	0.013	< 0.000007	< 0.000007	5.7	< 0.000003
AMQ-ENV-09	IVR14-116	47	56	0b	Ultramafic	Waste	Core		25	**9.8**	46	122	0.14	2.5	4.4	< 3	< 0.3	< 0.6	-	0.04	< 0.00001	< 0.000002	0.05	0.048	0.037	0.015	< 0.000007	< 0.000007	4.1	< 0.000003
AMQ-ENV-10	IVR14-116	60	69	0b	Ultramafic	Waste	Core		15	**9.5**	63	151	0.15	3.4	3.3	< 3	< 0.3	< 0.6	-	0.04	< 0.00001	< 0.000002	0.01	**0.31**	0.065	0.023	< 0.000007	< 0.000007	7.7	< 0.000003
AMQ-ENV-113	IVR14-131	220	229	0b	Ultramafic	Waste	Core		28	**10.0**	58	128	0.21	< 2	< 2	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	0.000002	0.28	0.0027	0.0029	0.063	< 0.000007	< 0.000007	1.7	0.000008
AMQ-ENV-119	IVR14-149	10	19	0b	Ultramafic	Waste	Core		100	**10**	66	155	0.31	< 2	3.3	< 3	< 0.3	< 0.6	-	0.04	< 0.00001	< 0.000002	0.06	0.093	0.0075	0.059	< 0.000007	< 0.000007	2.2	< 0.000003
AMQ-ENV-122	IVR14-152	10	19	0b	Ultramafic	Waste	Core		96	**9.4**	38	131	0.16	< 2	10	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	0.000007	0.32	0.019	0.024	0.015	< 0.000007	< 0.000007	5.7	< 0.000003
AMQ-ENV15-020	AMQ15-167	21	31	0b	Ultramafic	Waste	Core		3	**9.3**	40	163	0.12	9.0	17	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000012	0.05	**0.24**	0.091	0.013	< 0.000007	0.000011	8.1	< 0.000003
AMQ-ENV15-033	AMQ15-180	77	87	0b	Ultramafic	Waste	Core		1	**9.5**	71	162	0.09	2.0	1.0	< 3	< 0.3	< 0.6	0.2	0.05	< 0.00001	0.000002	0.038	**0.36**	0.083	0.0086	< 0.000007	< 0.000007	5.7	< 0.000003
AMQ-ENV15-109	IVR14-099	50	60	0b	Ultramafic	Waste	Core		25	**9.4**	72	151	0.07	2.0	< 1	< 3	< 0.3	< 0.6	< 0.2	0.05	< 0.00001	< 0.000002	0.026	**0.6**	0.063	0.0077	< 0.000007	< 0.000007	5.6	< 0.000003
AMQ-ENV15-081	IVR14-156	105	115	0b	Ultramafic	Waste	Core		29	**9.7**	41	85	0.13	3.0	2.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000006	0.41	0.041	0.0069	0.0096	< 0.000007	< 0.000007	4.7	< 0.000003
AMQ-ENV-54	IVR14-055	21	28	0b	Ultramafic	Waste	Reject		5	*6.4*	17	689	0.18	61	200	< 3	< 0.3	< 0.6	0.4	< 0.03	< 0.00001	0.000002	0.0045	0.027	0.047	0.11	< 0.000007	< 0.000007	16	0.000064
AMQ-ENV-61	IVR14-101	201	210	0b	Ultramafic	Waste	Reject		44	**9.9**	61	153	0.27	< 2	2.3	< 3	< 0.3	< 0.6	1.4	0.05	< 0.00001	0.000004	0.066	**0.31**	0.0039	0.075	< 0.000007	0.000012	1.9	< 0.000003
AMQ-ENV-62	IVR14-092	69	80	0b	Ultramafic	Waste	Reject		58	**9.6**	62	138	0.19	3.0	3.0	< 3	< 0.3	< 0.6	0.6	0.06	< 0.00001	0.000002	0.13	**0.38**	0.029	0.021	< 0.000007	< 0.000007	2.8	< 0.000003
AMQ-ENV-68	IVR14-110	233	242	0b	Ultramafic	Waste	Reject		30	**9.4**	66	154	0.24	2.1	2.7	< 3	< 0.3	< 0.6	2.2	0.6	< 0.00001	0.000006	0.018	**1.8**	0.01	0.081	< 0.000007	< 0.000007	4.4	< 0.000003
									Minimum	*6.4*	*17*	*85*	*0.07*	*< 2*	*< 1*	*< 3*	*< 0.3*	*< 0.6*	*< 0.2*	*< 0.03*	*< 0.00001*	*< 0.000002*	*0.0045*	*0.0027*	*0.0029*	*0.0077*	*< 0.000007*	*< 0.000007*	*1.7*	*< 0.000003*
									Maximum	*10*	*72*	*689*	*0.31*	*61*	*200*	*< 3*	*< 0.3*	*< 0.6*	*2.2*	*0.6*	*< 0.00001*	*0.000012*	*0.41*	*1.8*	*0.091*	*0.11*	*< 0.000007*	*0.000012*	*16*	*0.000064*
Transitional Ultramafics - 0b									**Median**	*9.5*	*60*	*151*	*0.16*	*2.1*	*3.2*	*nc*	*nc*	*nc*	*0.3*	*0.04*	*nc*	*0.000002*	*0.05*	*0.25*	*0.027*	*0.018*	*nc*	*0.000007*	*5.1*	*0.000003*
									Average	*7.6*	*53*	*177*	*0.17*	*7.0*	*18*	*nc*	*nc*	*nc*	*0.68*	*0.079*	*nc*	*0.0000038*	*0.11*	*0.32*	*0.035*	*0.036*	*nc*	*0.0000076*	*5.4*	*0.0000077*
									Std. Deviation	*nc*	*16*	*149*	*0.072*	*16*	*52*	*nc*	*nc*	*nc*	*0.64*	*0.15*	*nc*	*0.000003*	*0.13*	*0.46*	*0.03*	*0.033*	*nc*	*0.0000016*	*3.5*	*0.000016*
									75th Percentile	*nc*	*65*	*155*	*0.21*	*3.0*	*6.1*	*nc*	*nc*	*nc*	*0.8*	*0.05*	*nc*	*0.0000055*	*0.12*	*0.35*	*0.059*	*0.062*	*nc*	*0.000007*	*5.7*	*0.000003*

Appendix E.5
Shake Flask Extraction Results
Waste Rock, Ore, Tailing, Soil and Lake Sediment
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

										Portage Effluent Quality Criteria[a]			0.1										0.2	1	0.1										0.4
										Vault Effluent Quality Criteria[b]			**0.1**										**0.2**	**1.5**	**0.1**										**0.2**
Sample ID	**Borehole ID**	**Depth (m)**		**Lithology Code**	**Rock Name**	**Sample Type**		**Distance to Ore**	**Cobalt**	**Chromium**	**Copper**	**Iron**	**Potassium**	**Lithium**	**Magnesium**	**Manganese**	**Molybdenum**	**Sodium**	**Nickel**	**Phosphorus**	**Lead**	**Antimony**	**Selenium**	**Silicon**	**Tin**	**Strontium**	**Titanium**	**Thallium**	**Uranium**	**Vanadium**	**Zinc**
		From	**To**						**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
AMQ-ENV15-029	AMQ15-170	50	60	0a	Ultramafic	Waste	Core	0	0.000034	< 0.00003	0.00013	0.009	5.1	0.0002	2.1	0.0001	0.00006	0.66	0.0003	< 0.003	0.00001	0.0015	< 0.00004	2.7	< 0.00001	0.075	< 0.00005	0.000023	< 0.000002	0.0011	< 0.002
AMQ-ENV-44	IVR14-118	281	295	0a	Ultramafic	Waste	Core	39	0.000069	0.00026	0.00028	< 0.002	14	0.000086	0.51	0.00014	0.00011	5.7	0.0004	< 0.009	0.00001	0.0071	< 0.001	5.3	0.00006	0.049	0.00013	0.000053	0.000002	0.0092	< 0.001
AMQ-ENV15-028	AMQ15-164	80	90	0a	Ultramafic	Waste	Core	24	0.000043	0.00043	0.00013	0.01	13	0.00086	1.2	0.00041	0.00021	0.82	0.0006	< 0.003	< 0.00001	0.013	0.00018	5.4	< 0.00001	0.041	< 0.00005	0.000027	< 0.000002	0.012	< 0.002
AMQ-ENV-16	IVR14-123	95	104	0a	Ultramafic	Waste	Core	17	0.000089	0.0002	0.00019	0.005	9.1	0.00003	2.0	0.0011	0.00012	0.58	0.001	0.011	0.00002	0.015	< 0.001	5.0	0.00003	0.034	0.00013	0.000061	0.000002	0.0049	< 0.001
AMQ-ENV-31	IVR14-120	61	68	0a	Ultramafic	Waste	Core	10	0.000054	0.0021	0.00044	< 0.002	13	0.000085	3.5	0.00034	0.00047	0.68	0.0037	0.015	< 0.00001	0.083	< 0.001	9.6	0.00004	0.03	0.0001	0.000005	0.000012	0.02	< 0.001
AMQ-ENV-32	IVR14-120	77	86	0a	Ultramafic	Waste	Core	6	0.000051	0.0003	0.00018	< 0.002	20	0.00011	2.1	0.00013	0.00011	0.51	0.0008	0.01	< 0.00001	0.019	< 0.001	4.7	0.00002	0.038	< 0.00005	0.000083	0.000004	0.0057	< 0.001
AMQ-ENV-33	IVR14-120	97	106	0a	Ultramafic	Waste	Core	32	0.000057	0.00018	0.00021	< 0.002	18	0.000058	1.2	0.00022	0.00004	0.65	0.0005	< 0.009	< 0.00001	0.0087	< 0.001	5.1	0.00002	0.04	0.00008	0.000054	< 0.000002	0.0085	< 0.001
AMQ-ENV-39	IVR14-121A	151	160	0a	Ultramafic	Waste	Core	10	0.00024	0.00013	0.00088	< 0.002	14	0.000053	2.0	0.0002	0.00008	0.9	0.001	< 0.009	0.00006	0.0053	< 0.001	4.3	0.00008	0.055	< 0.00005	0.000049	0.00001	0.0031	< 0.001
AMQ-ENV-121	IVR14-149	190	199	0a	Ultramafic	Waste	Core	18	0.000089	0.0044	0.00078	0.08	28	0.00061	0.38	0.0013	0.00052	23	0.0013	0.027	0.00013	0.017	< 0.001	16	0.0001	0.025	0.004	< 0.000005	0.000021	0.026	< 0.001
AMQ-ENV15-030	AMQ15-170	160	170	0a	Ultramafic	Waste	Core	2	0.000029	< 0.00003	0.00041	0.007	3.2	0.000039	2.2	0.00007	0.00004	1.3	0.0004	< 0.003	0.00001	0.0033	0.00009	2.7	0.00014	0.076	< 0.00005	0.000007	0.000003	0.0021	< 0.002
AMQ-ENV15-016	AMQ15-225	31	40	0a	Ultramafic	Waste	Core	23	0.000094	0.00013	0.00038	0.024	25	0.0015	3.9	0.0031	0.00041	1.9	0.0067	< 0.003	< 0.00001	0.019	0.0023	3.2	< 0.00001	0.11	0.00021	0.000025	0.000008	0.0055	< 0.002
AMQ-ENV15-011	AMQ15-232	149	159	0a	Ultramafic	Waste	Core	11	0.000054	0.0016	0.0001	0.023	16	0.0028	0.63	0.00061	0.00011	1.2	0.0008	< 0.003	< 0.00001	0.012	0.00013	7.5	< 0.00001	0.039	0.00037	< 0.000005	< 0.000002	0.015	< 0.002
AMQ-ENV15-014	AMQ15-236	25	35	0a	Ultramafic	Waste	Core	8	0.000033	< 0.00003	0.00038	0.008	14	0.00021	1.8	0.00007	0.00006	0.41	0.0002	< 0.003	< 0.00001	0.0021	< 0.00004	2.7	< 0.00001	0.063	< 0.00005	0.00002	< 0.000002	0.0016	< 0.002
AMQ-ENV15-090	IVR14-079	97	107	0a	Ultramafic	Waste	Core	11	0.000052	0.0011	0.00032	0.011	15	0.0004	0.88	0.00032	0.00024	0.6	0.0012	< 0.003	0.00001	0.026	0.00008	5.9	0.00001	0.024	0.00013	< 0.000005	< 0.000002	0.011	< 0.002
AMQ-ENV15-026	IVR14-141	224	234	0a	Ultramafic	Waste	Core	2	0.000048	0.00064	0.00012	0.009	6.3	0.000046	1.8	0.00017	0.00004	0.9	0.002	< 0.003	< 0.00001	0.011	< 0.00004	3.9	< 0.00001	0.079	< 0.00005	0.000011	< 0.000002	0.0055	< 0.002
AMQ-ENV15-055	IVR14-148	95	105	0a	Ultramafic	Waste	Core	29	0.000034	< 0.00003	0.0001	< 0.007	7.8	0.000027	1.6	0.00005	0.00006	0.46	0.0002	< 0.003	< 0.00001	0.0041	< 0.00004	3.5	< 0.00001	0.057	< 0.00005	0.000035	< 0.000002	0.0028	< 0.002
AMQ-ENV-49	IVR14-016	107	116	0a	Ultramafic	Waste	Reject	13	0.000086	0.00052	0.00034	< 0.007	28	0.0016	2.9	0.0022	0.0011	64	0.0037	0.005	< 0.00001	0.045	< 0.001	3.5	0.00003	0.054	0.00009	< 0.000005	0.000015	0.011	< 0.001
AMQ-ENV-58	IVR14-056	44	54	0a	Ultramafic	Waste	Reject	4	0.00015	0.0076	0.00032	0.064	35	0.0012	2.3	0.0016	0.0003	13	0.0028	0.014	0.00002	0.064	< 0.001	7.9	0.00003	0.02	0.0016	< 0.000005	0.000003	0.029	< 0.001
AMQ-ENV-69	IVR14-015	70	80	0a	Ultramafic	Waste	Reject	14	0.00013	0.0012	0.0002	0.007	31	0.0032	4.1	0.0019	0.00065	54	0.0077	0.005	< 0.00001	0.13	< 0.001	5.7	0.00004	0.039	0.00026	< 0.000005	0.000007	0.02	< 0.001
AMQ-ENV-70	IVR14-015	83	93	0a	Ultramafic	Waste	Reject	19	0.000024	0.00055	0.00019	< 0.007	17	0.000098	4.3	0.00025	0.00034	1.1	0.0009	0.006	< 0.00001	0.036	< 0.001	5.7	0.00006	0.077	0.0001	0.000008	0.000002	0.02	< 0.001
AMQ-ENV-73	IVR14-097	182	192	0a	Ultramafic	Waste	Reject	10	0.000065	0.002	0.00018	0.014	11	0.00022	2.6	0.00026	0.00056	7.0	0.0018	0.008	0.00001	0.025	< 0.001	6.8	0.00004	0.066	0.00019	< 0.000005	0.000013	0.017	< 0.001
							Minimum		*0.000024*	*< 0.00003*	*0.0001*	*< 0.002*	*3.2*	*0.000027*	*0.38*	*0.00005*	*0.00004*	*0.41*	*0.0002*	*< 0.003*	*< 0.00001*	*0.0015*	*< 0.00004*	*2.7*	*< 0.00001*	*0.02*	*< 0.00005*	*< 0.000005*	*< 0.000002*	*0.0011*	*< 0.001*
							Maximum		*0.00024*	*0.0076*	*0.00088*	*0.08*	*35*	*0.0032*	*4.3*	*0.0031*	*0.0011*	*64*	*0.0077*	*0.027*	*0.00013*	*0.13*	*0.0023*	*16*	*0.00014*	*0.11*	*0.004*	*0.000083*	*0.000021*	*0.029*	*< 0.002*
Ultramafics - 0a							**Median**		*0.000054*	*0.00043*	*0.00021*	*0.007*	*14*	*0.0002*	*2.0*	*0.00026*	*0.00012*	*0.9*	*0.001*	*0.005*	*0.00001*	*0.015*	*0.001*	*5.1*	*0.00003*	*0.049*	*0.0001*	*0.000011*	*0.000002*	*0.0092*	*nc*
							Average		*0.000072*	*0.0011*	*0.0003*	*0.014*	*16*	*0.00064*	*2.1*	*0.00069*	*0.00027*	*8.5*	*0.0018*	*0.0074*	*0.000019*	*0.026*	*0.00071*	*5.6*	*0.000037*	*0.052*	*0.00037*	*0.000024*	*0.0000056*	*0.011*	*nc*
							Std. Deviation		*0.00005*	*0.0018*	*0.00021*	*0.02*	*8.7*	*0.00094*	*1.1*	*0.00085*	*0.00027*	*18*	*0.0021*	*0.0059*	*0.000028*	*0.032*	*0.00058*	*2.9*	*0.000035*	*0.023*	*0.00088*	*0.000023*	*0.0000055*	*0.0082*	*nc*
							75th Percentile		*0.000089*	*0.0012*	*0.00038*	*0.011*	*20*	*0.00086*	*2.6*	*0.0011*	*0.00041*	*5.7*	*0.002*	*0.009*	*0.00001*	*0.026*	*0.001*	*5.9*	*0.00004*	*0.066*	*0.00019*	*0.000035*	*0.000008*	*0.017*	*nc*
AMQ-ENV-02	IVR14-130	34	44	0b	Ultramafic	Waste	Core	49	0.000067	0.00019	0.0003	< 0.002	15	0.0006	1.7	0.00024	0.00049	0.85	0.0007	< 0.009	< 0.00001	0.0026	< 0.001	4.8	0.00003	0.14	0.00007	0.000067	0.000008	0.0051	< 0.001
AMQ-ENV-09	IVR14-116	47	56	0b	Ultramafic	Waste	Core	25	0.00003	0.00097	0.00027	0.026	24	0.001	0.94	0.003	0.0049	2.5	0.0005	0.044	0.00002	0.0054	< 0.001	9.6	0.00003	0.028	0.0015	0.000009	0.000037	0.016	< 0.001
AMQ-ENV-10	IVR14-116	60	69	0b	Ultramafic	Waste	Core	15	0.00027	0.00022	0.00025	< 0.002	26	0.0028	2.8	0.00057	0.0072	1.6	0.0055	< 0.009	0.00007	0.0055	< 0.001	5.1	0.00002	0.067	0.00009	0.000027	0.000028	0.008	< 0.001
AMQ-ENV-113	IVR14-131	220	229	0b	Ultramafic	Waste	Core	28	0.000056	0.0015	0.0003	0.03	17	0.00031	0.12	0.00054	0.00059	13	0.0004	0.018	0.00009	0.0028	< 0.001	6.8	0.0017	0.017	0.0019	< 0.000005	0.000089	0.025	< 0.001
AMQ-ENV-119	IVR14-149	10	19	0b	Ultramafic	Waste	Core	100	0.000077	0.0035	0.00035	0.097	24	0.0003	0.3	0.0014	0.00038	13	0.0006	0.021	0.00003	0.0041	< 0.001	10	0.00006	0.018	0.0059	< 0.000005	0.000014	0.025	< 0.001
AMQ-ENV-122	IVR14-152	10	19	0b	Ultramafic	Waste	Core	96	0.00003	0.00028	0.00017	0.017	20	0.00052	0.84	0.00038	0.0025	6.0	0.0004	0.037	< 0.00001	0.0024	< 0.001	3.7	0.00005	0.056	0.0012	0.000005	0.000039	0.0092	< 0.001
AMQ-ENV15-020	AMQ15-167	21	31	0b	Ultramafic	Waste	Core	3	0.000036	0.00012	0.00046	0.015	23	0.0013	2.6	0.00041	0.00051	2.0	0.0007	0.009	0.00002	0.0065	0.00092	5.4	0.00033	0.066	0.00024	< 0.000005	0.000009	0.005	< 0.002
AMQ-ENV15-033	AMQ15-180	77	87	0b	Ultramafic	Waste	Core	1	0.000061	0.00027	0.00017	0.008	30	0.0022	2.2	0.00046	0.00058	3.4	0.0003	< 0.003	< 0.00001	0.0038	0.00012	5.8	< 0.00001	0.089	< 0.00005	0.000015	0.000009	0.005	< 0.002
AMQ-ENV15-109	IVR14-099	50	60	0b	Ultramafic	Waste	Core	25	0.000072	0.00022	0.00017	< 0.007	28	0.0017	3.3	0.00062	0.00031	1.8	0.0007	< 0.003	< 0.00001	0.0033	< 0.00004	4.7	< 0.00001	0.091	< 0.00005	0.00002	0.000004	0.004	< 0.002
AMQ-ENV15-081	IVR14-156	105	115	0b	Ultramafic	Waste	Core	29	0.00004	0.00024	0.00012	0.019	12	0.00042	0.52	0.00027	0.0031	3.5	0.0002	0.013	< 0.00001	0.0026	0.00039	4.9	< 0.00001	0.037	0.0006	< 0.000005	0.00016	0.015	< 0.002
AMQ-ENV-54	IVR14-055	21	28	0b	Ultramafic	Waste	Reject	5	0.015	0.00045	0.00035	< 0.007	73	0.038	17	2.2	0.00028	45	0.038	< 0.003	< 0.00001	0.0024	0.002	4.4	0.00007	0.06	0.00011	0.000089	0.000037	0.00006	< 0.001
AMQ-ENV-61	IVR14-101	201	210	0b	Ultramafic	Waste	Reject	44	0.0016	0.0031	0.00096	0.075	28	0.00058	0.34	0.0011	0.0014	13	0.0013	0.01	0.00006	0.0066	< 0.001	8.1	0.00004	0.028	0.004	< 0.000005	0.000068	0.018	< 0.001
AMQ-ENV-62	IVR14-092	69	80	0b	Ultramafic	Waste	Reject	58	0.000048	0.00066	0.00025	< 0.007	34	0.00053	0.84	0.00026	0.00088	3.6	0.0007	0.012	< 0.00001	0.0037	< 0.001	4.6	0.00003	0.06	0.00035	0.000008	0.000008	0.017	< 0.001
AMQ-ENV-68	IVR14-110	233	242	0b	Ultramafic	Waste	Reject	30	0.0001	0.0029	0.00031	0.03	23	0.0012	1.8	0.00021	0.0016	12	0.0009	0.013	0.00009	0.019	< 0.001	7.1	0.00004	0.064	0.001	0.00067	0.000055	0.015	< 0.001
							Minimum		*0.00003*	*0.00012*	*0.00012*	*< 0.002*	*12*	*0.0003*	*0.12*	*0.00021*	*0.00028*	*0.85*	*0.0002*	*< 0.003*	*< 0.00001*	*0.0024*	*< 0.00004*	*3.7*	*< 0.00001*	*0.017*	*< 0.00005*	*< 0.000005*	*0.000004*	*0.00006*	*< 0.001*
							Maximum		*0.015*	*0.0035*	*0.00096*	*0.097*	*73*	*0.038*	*17*	*2.2*	*0.0072*	*45*	*0.038*	*0.044*	*0.00009*	*0.019*	*0.002*	*10*	*0.0017*	*0.14*	*0.0059*	*0.00067*	*0.00016*	*0.025*	*< 0.002*
Transitional Ultramafics - 0b							**Median**		*0.000064*	*0.00037*	*0.00029*	*0.016*	*24*	*0.00081*	*1.3*	*0.0005*	*0.00074*	*3.5*	*0.0007*	*0.011*	*0.000015*	*0.0038*	*0.001*	*5.3*	*0.000035*	*0.06*	*0.00048*	*0.0000085*	*0.000033*	*0.012*	*nc*
							Average		*0.0012*	*0.001*	*0.00032*	*0.024*	*27*	*0.0037*	*2.5*	*0.16*	*0.0018*	*8.6*	*0.0036*	*0.015*	*0.000032*	*0.005*	*0.00089*	*6.1*	*0.00017*	*0.059*	*0.0012*	*0.000067*	*0.00004*	*0.012*	*nc*
							Std. Deviation		*0.004*	*0.0012*	*0.00021*	*0.028*	*15*	*0.01*	*4.2*	*0.59*	*0.002*	*11*	*0.010*	*0.012*	*0.000031*	*0.0042*	*0.00047*	*2.0*	*0.00045*	*0.033*	*0.0017*	*0.00017*	*0.000043*	*0.0079*	*nc*
							75th Percentile		*0.000097*	*0.0013*	*0.00034*	*0.029*	*28*	*0.0016*	*2.5*	*0.00094*	*0.0023*	*13*	*0.00085*	*0.017*	*0.000053*	*0.0055*	*0.001*	*7.0*	*0.000058*	*0.067*	*0.0014*	*0.000025*	*0.000051*	*0.017*	*nc*

Appendix E.5
Shake Flask Extraction Results
Waste Rock, Ore, Tailing, Soil and Lake Sediment
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

								Portage Effluent Quality Criteria[a]	6-9				1000					20		1.5	0.0004		1	0.3						0.002
								Vault Effluent Quality Criteria[b]	6-9				500					50		1	0.0004		1	0.1						0.002
Sample ID	Borehole ID	Depth (m) From	Depth (m) To	Lithology Code	Rock Name	Sample Type		Distance to Ore	Final pH	Alkalinity	Conductivity	Fluoride	Chloride	Sulphate	Bromide	Nitrite (as N)	Nitrate (as N)	Chromium	Phosphorus (total reactive)	Mercury	Silver	Aluminum	Arsenic	Barium	Boron	Beryllium	Bismuth	Calcium	Cadmium
										mg/L as CaCO3	uS/cm	mg/L	mg/L	mg/L	mg/L	as N mg/L	as N mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMQ-ENV15-009	AMQ15-232	92	102	S3C	Central Greywacke	Waste	Core	0	**9.0**	38	143	0.12	22	1.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	0.088	**0.12**	0.0016	0.021	< 0.000007	0.000019	8.9	< 0.000003
AMQ-ENV15-025	IVR14-141	139	148	S3C	Central Greywacke	Waste	Core	0	**9.5**	43	123	0.13	14	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000008	0.073	0.045	0.0096	0.018	< 0.000007	0.00001	5.4	< 0.000003
AMQ-ENV-28	IVR14-120	14	25	S3C	Central Greywacke	Waste	Core	18	6.6	3.0	130	0.06	< 2	44	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	0.00001	< 0.01	0.031	0.0084	0.016	0.000007	< 0.000007	3.3	0.000074
AMQ-ENV-29	IVR14-120	33	42	S3C	Central Greywacke	Waste	Core	7	8.0	64	327	0.09	< 2	43	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	0.000043	0.02	0.0052	0.0071	0.013	< 0.000007	0.000011	30	< 0.000003
AMQ-ENV-34	IVR14-121A	22	31	S3C	Central Greywacke	Waste	Core	4	8.8	52	222	0.2	< 2	16	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	0.000019	0.18	0.08	0.0025	0.026	< 0.000007	< 0.000007	17	< 0.000003
AMQ-ENV-40	IVR14-118	14	23	S3C	Central Greywacke	Waste	Core	23	8.5	41	154	0.1	< 2	10	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	0.000008	0.09	0.0074	0.0052	0.016	< 0.000007	< 0.000007	15	< 0.000003
AMQ-ENV-109	IVR14-146	10	19	S3C	Central Greywacke	Waste	Core	5	**9.4**	53	114	0.29	< 2	4.3	< 3	< 0.3	< 0.6	-	0.05	< 0.00001	0.000007	**1.5**	0.046	0.0055	0.065	0.000015	0.000012	2.4	< 0.000003
AMQ-ENV15-042	AMQ15-178	210	220	S3C	Central Greywacke	Waste	Core	17	**9.7**	33	69	0.3	1.0	< 1	< 3	< 0.3	< 0.6	< 0.2	0.03	< 0.00001	< 0.000002	**1.9**	0.029	0.0037	0.018	< 0.000007	< 0.000007	2.6	< 0.000003
AMQ-ENV15-008	AMQ15-232	69	79	S3C	Central Greywacke	Waste	Core	21	9.0	38	130	0.43	19	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.00016	0.34	0.0045	0.0021	0.022	< 0.000007	0.000036	9.3	< 0.000003
AMQ-ENV15-091	IVR14-079	16	24	S3C	Central Greywacke	Waste	Core	16	8.0	43	203	0.17	19	27	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000018	0.038	0.037	0.018	0.043	< 0.000007	< 0.000007	11	< 0.000003
AMQ-ENV15-098	IVR14-089	92	102	S3C	Central Greywacke	Waste	Core	19	**9.5**	41	90	0.14	3.0	< 1	< 3	< 0.3	< 0.6	< 0.2	0.08	< 0.00001	0.000003	**1.1**	**0.15**	0.0071	0.024	0.00001	< 0.000007	2.6	< 0.000003
AMQ-ENV15-097	IVR14-091	190	200	S3C	Central Greywacke	Waste	Core	23	**9.7**	42	91	0.12	2.0	< 1	< 3	< 0.3	< 0.6	< 0.2	0.05	< 0.00001	< 0.000002	**1.1**	**0.16**	0.0023	0.026	0.000007	< 0.000007	2.9	0.000003
AMQ-ENV15-106	IVR14-099	95	104	S3C	Central Greywacke	Waste	Core	23	**9.7**	54	109	0.27	2.0	< 1	< 3	< 0.3	< 0.6	0.6	< 0.03	< 0.00001	0.000002	0.98	0.0057	0.0017	0.1	< 0.000007	< 0.000007	2.3	< 0.000003
AMQ-ENV15-064	IVR14-114	105	114	S3C	Central Greywacke	Waste	Core	40	**9.3**	40	110	0.17	7.0	< 1	< 3	< 0.3	< 0.6	< 0.2	0.05	< 0.00001	0.000004	0.82	**0.11**	0.0035	0.038	< 0.000007	< 0.000007	3.6	< 0.000003
AMQ-ENV15-048	IVR14-141	119	129	S3C	Central Greywacke	Waste	Core	11	**9.6**	44	94	0.18	2.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	**1.1**	0.021	0.0023	0.024	< 0.000007	< 0.000007	4.1	< 0.000003
AMQ-ENV15-073	IVR14-153	45	55	S3C	Central Greywacke	Waste	Core	3	**9.6**	40	87	0.12	3.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.87	0.071	0.009	0.03	0.000008	< 0.000007	3.0	< 0.000003
AMQ-ENV15-075	IVR14-153	90	100	S3C	Central Greywacke	Waste	Core	12	**9.4**	44	104	0.17	6.0	< 1	< 3	< 0.3	< 0.6	0.2	0.03	< 0.00001	< 0.000002	0.81	0.058	0.0028	0.05	< 0.000007	< 0.000007	3.9	< 0.000003
AMQ-ENV15-074	IVR14-153	150	160	S3C	Central Greywacke	Waste	Core	3	**9.6**	42	94	0.17	1.0	< 1	< 3	< 0.3	< 0.6	< 0.2	0.04	< 0.00001	< 0.000002	**1.4**	0.04	0.0024	0.034	< 0.000007	< 0.000007	2.3	< 0.000003
AMQ-ENV-03	IVR14-130	62	71	S3C	Central Greywacke	Waste	Core	50	8.7	36	130	0.12	< 2	8.7	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	0.000006	0.54	0.0045	0.0037	0.013	< 0.000007	< 0.000007	12	< 0.000003
AMQ-ENV-11	IVR14-116	175	184	S3C	Central Greywacke	Waste	Core	30	**9.8**	35	75	0.1	< 2	< 2	< 3	< 0.3	< 0.6	-	0.06	< 0.00001	< 0.000002	**2.0**	**0.12**	0.0064	0.019	0.000015	< 0.000007	2.9	< 0.000003
AMQ-ENV-12	IVR14-116	250	259	S3C	Central Greywacke	Waste	Core	35	**9.7**	34	71	0.16	< 2	2.1	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	< 0.000002	**1.8**	0.025	0.0042	0.019	0.000008	< 0.000007	3.8	< 0.000003
AMQ-ENV-13	IVR14-123	9	19	S3C	Central Greywacke	Waste	Core	27	**9.1**	36	117	0.22	3.0	8.9	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	0.000007	0.59	0.037	0.018	0.083	0.000009	0.000008	3.1	< 0.000003
AMQ-ENV-14	IVR14-123	21	30	S3C	Central Greywacke	Waste	Core	19	**9.4**	24	46	0.12	< 2	< 2	< 3	< 0.3	< 0.6	-	0.08	< 0.00001	0.000005	**2.6**	0.075	0.023	0.14	0.00003	0.000019	0.25	< 0.000003
AMQ-ENV-18	IVR14-114	18	27	S3C	Central Greywacke	Waste	Core	25	**9.4**	41	98	0.2	< 2	< 2	< 3	< 0.3	< 0.6	-	1.0	< 0.00001	0.000003	**1.9**	0.084	0.033	0.056	0.000031	0.000026	3.7	< 0.000003
AMQ-ENV-19	IVR14-114	75	84	S3C	Central Greywacke	Waste	Core	24	**9.6**	39	83	0.09	< 2	< 2	< 3	< 0.3	< 0.6	-	0.03	< 0.00001	0.000002	**1.8**	0.066	0.023	0.061	0.000017	0.000023	2.6	< 0.000003
AMQ-ENV-20	IVR14-114	190	199	S3C	Central Greywacke	Waste	Core	11	**9.8**	41	81	0.18	< 2	< 2	< 3	< 0.3	< 0.6	-	0.03	< 0.00001	< 0.000002	**2.3**	0.06	0.018	0.057	0.000015	0.000017	1.9	< 0.000003
AMQ-ENV-36	IVR14-121A	75	84	S3C	Central Greywacke	Waste	Core	14	8.4	39	137	0.09	< 2	6.8	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	0.000006	0.31	0.057	0.0032	0.016	< 0.000007	< 0.000007	13	< 0.000003
AMQ-ENV-37	IVR14-121A	95	104	S3C	Central Greywacke	Waste	Core	24	**9.5**	62	108	0.24	< 2	< 2	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	0.000008	**1.1**	**0.12**	0.0045	0.051	0.000012	< 0.000007	4.2	< 0.000003
AMQ-ENV-41	IVR14-118	86	96	S3C	Central Greywacke	Waste	Core	21	**9.8**	54	107	0.23	< 2	< 2	< 3	< 0.3	< 0.6	-	0.09	< 0.00001	0.000002	**2.2**	**0.13**	0.0092	0.072	0.000021	< 0.000007	1.8	0.000008
AMQ-ENV-46	IVR14-130	149	155	S3C	Central Greywacke	Waste	Core	21	**9.7**	54	110	< 0.06	< 2	< 2	< 3	< 0.3	< 0.6	-	0.04	0.00001	0.000004	**2.3**	0.099	0.012	0.052	0.00003	0.000008	2.6	< 0.000003
AMQ-ENV15-006	AMQ15-232	21	31	S3C	Central Greywacke	Waste	Core	21	**9.6**	38	99	0.11	2.0	< 1	< 3	< 0.3	< 0.6	0.3	< 0.03	< 0.00001	0.00003	0.035	0.012	0.039	0.014	< 0.000007	0.000013	4.1	< 0.000003
AMQ-ENV15-012	AMQ15-241	15	25	S3C	Central Greywacke	Waste	Core	44	**9.4**	42	113	0.21	3.0	5.0	< 3	< 0.3	< 0.6	0.2	0.09	< 0.00001	0.000008	0.14	0.047	0.011	0.036	< 0.000007	< 0.000007	3.2	0.000007
AMQ-ENV15-004	AMQ15-245a	32	42	S3C	Central Greywacke	Waste	Core	36	**9.8**	61	131	0.19	2.0	< 1	< 3	< 0.3	< 0.6	0.8	< 0.03	< 0.00001	< 0.000002	0.046	0.055	0.012	0.062	< 0.000007	< 0.000007	2.7	0.000005
AMQ-ENV15-005	AMQ15-245a	45	55	S3C	Central Greywacke	Waste	Core	25	**9.6**	55	124	0.19	2.0	< 1	< 3	< 0.3	< 0.6	0.3	< 0.03	< 0.00001	< 0.000002	0.011	0.035	0.023	0.039	< 0.000007	< 0.000007	3.5	< 0.000003
AMQ-ENV15-108	IVR14-099	150	160	S3C	Central Greywacke	Waste	Core	22	**9.7**	45	91	0.19	1.0	< 1	< 3	< 0.3	< 0.6	0.2	0.03	< 0.00001	< 0.000002	**1.4**	0.054	0.0038	0.035	< 0.000007	< 0.000007	2.5	< 0.000003
AMQ-ENV15-065	IVR14-114	125	135	S3C	Central Greywacke	Waste	Core	29	**9.6**	40	86	0.16	2.0	< 1	< 3	< 0.3	< 0.6	< 0.2	0.04	< 0.00001	< 0.000002	**1.4**	0.042	0.0084	0.042	0.00001	< 0.000007	2.3	< 0.000003
AMQ-ENV15-066	IVR14-114	148	157	S3C	Central Greywacke	Waste	Core	21	**9.4**	42	101	0.21	4.0	2.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000032	**1.4**	0.037	0.011	0.041	0.000007	< 0.000007	4.0	< 0.000003
AMQ-ENV15-112	IVR14-125A	310	320	S3C	Central Greywacke	Waste	Core	6	**9.6**	49	110	0.41	4.0	< 1	< 3	< 0.3	< 0.6	0.8	< 0.03	< 0.00001	0.000004	0.85	0.045	0.001	0.17	< 0.000007	< 0.000007	0.72	< 0.000003
AMQ-ENV15-054	IVR14-150	35	45	S3C	Central Greywacke	Waste	Core	30	8.0	62	288	0.14	42	39	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000075	0.13	0.0015	0.0081	0.022	< 0.000007	0.000008	34	< 0.000003
AMQ-ENV15-107	IVR14-099	115	125	S3C	Central Greywacke	Waste	Core	32	**9.7**	43	89	0.21	1.0	< 1	< 3	< 0.3	< 0.6	0.2	< 0.03	< 0.00001	< 0.000002	**1.1**	0.022	0.0012	0.051	< 0.000007	< 0.000007	1.9	< 0.000003
AMQ-ENV-48	IVR14-016	70	80	S3C	Central Greywacke	Waste	Reject	0	7.9	38	1150	0.15	9.7	540	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000017	0.02	0.016	0.014	0.073	< 0.000007	< 0.000007	134	0.000003
AMQ-ENV-53	IVR14-084	150	161	S3C	Central Greywacke	Waste	Reject	10	**9.4**	56	138	0.38	< 2	4.4	< 3	< 0.3	< 0.6	0.4	0.04	< 0.00001	0.000003	0.39	**0.15**	0.0022	0.07	< 0.000007	0.000009	4.1	< 0.000003
AMQ-ENV-63	IVR14-092	80	88	S3C	Central Greywacke	Waste	Reject	54	**9.8**	60	149	0.31	2.0	4.1	< 3	< 0.3	< 0.6	0.8	< 0.03	< 0.00001	< 0.000002	0.22	0.049	0.0047	0.046	< 0.000007	< 0.000007	2.1	< 0.000003
Central Greywacke - S3C								**Minimum**	*6.6*	*3.0*	*46*	*< 0.06*	*< 1*	*< 1*	*< 3*	*< 0.3*	*< 0.6*	*< 0.2*	*< 0.03*	*< 0.00001*	*< 0.000002*	*< 0.01*	*0.0015*	*0.001*	*0.013*	*< 0.000007*	*< 0.000007*	*0.25*	*< 0.000003*
								Maximum	*9.8*	*64*	*1150*	*0.43*	*42*	*540*	*< 3*	*< 0.3*	*< 0.6*	*0.8*	*1.0*	*0.00001*	*0.00016*	*2.6*	*0.16*	*0.039*	*0.17*	*0.000031*	*0.000036*	*134*	*0.000074*
								Median	*9.5*	*42*	*110*	*0.17*	*2.0*	*2.0*	*nc*	*nc*	*nc*	*0.2*	*0.03*	*0.00001*	*0.000004*	*0.85*	*0.046*	*0.0064*	*0.038*	*0.000007*	*0.000007*	*3.3*	*0.000003*
								Average	*8.1*	*44*	*145*	*0.18*	*4.9*	*19*	*nc*	*nc*	*nc*	*0.3*	*0.061*	*0.00001*	*0.000012*	*0.91*	*0.057*	*0.0091*	*0.045*	*0.00001*	*0.0000098*	*8.8*	*0.0000049*
								Std. Deviation	*nc*	*11*	*166*	*0.087*	*7.7*	*82*	*nc*	*nc*	*nc*	*0.22*	*0.15*	*1.0E-20*	*0.000027*	*0.78*	*0.044*	*0.0086*	*0.032*	*0.0000065*	*0.0000062*	*21*	*0.000011*
								75th Percentile	*nc*	*53*	*131*	*0.21*	*3.0*	*4.7*	*nc*	*nc*	*nc*	*0.28*	*0.04*	*0.00001*	*0.000008*	*1.4*	*0.078*	*0.012*	*0.057*	*0.0000095*	*0.0000085*	*4.8*	*0.000003*

Appendix E.5
Shake Flask Extraction Results
Waste Rock, Ore, Tailing, Soil and Lake Sediment
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

									Portage Effluent Quality Criteria[a]				0.1									0.2	1	0.1									0.4
									Vault Effluent Quality Criteria[b]				**0.1**									**0.2**	**1.5**	**0.1**									**0.2**
Sample ID	**Borehole ID**	**Depth (m)**		**Lithology Code**	**Rock Name**	**Sample Type**		**Distance to Ore**	**Cobalt**	**Chromium**	**Copper**	**Iron**	**Potassium**	**Lithium**	**Magnesium**	**Manganese**	**Molybdenum**	**Sodium**	**Nickel**	**Phosphorus**	**Lead**	**Antimony**	**Selenium**	**Silicon**	**Tin**	**Strontium**	**Titanium**	**Thallium**	**Uranium**	**Vanadium**	**Zinc**
		From	**To**						**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
AMQ-ENV15-009	AMQ15-232	92	102	S3C	Central Greywacke	Waste	Core	0	0.000032	0.00004	0.00016	0.026	10	0.0015	2.3	0.004	0.0036	9.1	0.0003	< 0.003	< 0.00001	0.003	0.00025	3.6	0.00003	0.033	0.00029	< 0.000005	0.000079	0.00032	< 0.002
AMQ-ENV15-025	IVR14-141	139	148	S3C	Central Greywacke	Waste	Core	0	0.000052	< 0.00003	0.00009	0.069	5.8	0.00074	0.77	0.00073	0.0008	14	< 0.0001	< 0.003	< 0.00001	0.0022	0.00018	4.4	< 0.00001	0.017	0.00027	< 0.000005	0.000057	0.001	< 0.002
AMQ-ENV-28	IVR14-120	14	25	S3C	Central Greywacke	Waste	Core	18	0.0078	< 0.00003	0.00027	0.007	15	0.0084	2.3	1.2	0.00009	4.8	0.035	< 0.009	< 0.00001	0.0007	0.004	5.0	0.00002	0.018	0.00016	0.000047	0.000019	0.00007	< 0.001
AMQ-ENV-29	IVR14-120	33	42	S3C	Central Greywacke	Waste	Core	7	0.000047	< 0.00003	0.00022	0.005	31	0.0038	3.2	0.087	0.0054	1.8	0.0014	0.012	< 0.00001	0.0022	0.001	2.7	0.00003	0.048	0.0001	0.00001	0.00055	0.00007	< 0.001
AMQ-ENV-34	IVR14-121A	22	31	S3C	Central Greywacke	Waste	Core	4	0.00003	0.00005	0.00041	0.009	27	0.004	2.0	0.01	0.0012	1.4	0.0003	< 0.009	0.00002	0.0034	< 0.001	2.1	0.00004	0.02	0.00021	0.000007	0.00044	0.00026	< 0.001
AMQ-ENV-40	IVR14-118	14	23	S3C	Central Greywacke	Waste	Core	23	0.000034	< 0.00003	0.00023	0.059	15	0.0021	2.1	0.017	0.0004	0.81	0.0004	< 0.009	0.00004	0.0021	< 0.001	3.4	0.00003	0.017	0.00045	0.000007	0.00013	0.00019	< 0.001
AMQ-ENV-109	IVR14-146	10	19	S3C	Central Greywacke	Waste	Core	5	0.00023	0.00099	0.00058	0.32	8.9	0.002	0.4	0.0082	0.0016	16	0.0009	0.053	0.00049	0.0028	< 0.001	3.8	0.00004	0.0057	0.0097	0.000009	0.00076	0.0083	< 0.001
AMQ-ENV15-042	AMQ15-178	210	220	S3C	Central Greywacke	Waste	Core	17	0.000062	0.00021	0.00034	0.082	39	0.00068	0.24	0.0014	0.0014	5.0	0.0003	0.036	0.00006	0.0045	0.00038	3.6	< 0.00001	0.012	0.0091	< 0.000005	0.0014	0.012	< 0.002
AMQ-ENV15-008	AMQ15-232	69	79	S3C	Central Greywacke	Waste	Core	21	0.000052	< 0.00003	0.00015	0.022	6.0	0.0013	1.3	0.0026	0.0024	9.1	0.0004	< 0.003	0.00002	0.0047	< 0.00004	1.7	< 0.00001	0.019	0.00021	< 0.000005	0.000046	0.00023	< 0.002
AMQ-ENV15-091	IVR14-079	16	24	S3C	Central Greywacke	Waste	Core	16	0.000042	0.00012	0.00021	0.054	23	0.004	2.7	0.0084	0.0023	8.7	0.0003	< 0.003	0.00001	0.0021	0.00092	3.0	< 0.00001	0.027	0.00055	< 0.000005	0.00014	0.00016	< 0.002
AMQ-ENV15-098	IVR14-089	92	102	S3C	Central Greywacke	Waste	Core	19	0.000084	0.00013	0.00053	0.19	7.6	0.0025	0.28	0.0045	0.00055	10	0.0002	0.029	0.00011	0.0024	< 0.00004	3.4	0.00005	0.0068	0.0061	< 0.000005	0.00086	0.0096	< 0.002
AMQ-ENV15-097	IVR14-091	190	200	S3C	Central Greywacke	Waste	Core	23	0.000044	< 0.00003	0.0001	0.032	9.4	0.0019	0.2	0.00071	0.00039	9.3	0.0002	0.018	0.00006	0.0027	0.00009	3.9	< 0.00001	0.0069	0.0014	< 0.000005	0.00075	0.0082	< 0.002
AMQ-ENV15-106	IVR14-099	95	104	S3C	Central Greywacke	Waste	Core	23	0.000037	0.00053	0.00058	0.041	6.3	0.0014	0.14	0.001	0.0011	18	< 0.0001	0.008	0.00007	0.002	< 0.00004	4.3	< 0.00001	0.0073	0.0017	< 0.000005	0.00097	0.0056	< 0.002
AMQ-ENV15-064	IVR14-114	105	114	S3C	Central Greywacke	Waste	Core	40	0.000061	0.00014	0.00032	0.07	7.2	0.003	0.41	0.0011	0.001	14	0.0002	0.026	0.00004	0.0026	0.00025	3.3	0.00003	0.0081	0.0028	< 0.000005	0.00069	0.0084	< 0.002
AMQ-ENV15-048	IVR14-141	119	129	S3C	Central Greywacke	Waste	Core	11	0.000028	0.00003	0.00021	0.028	9.5	0.00072	0.25	0.00035	0.0005	8.8	< 0.0001	< 0.003	< 0.00001	0.0027	< 0.00004	2.1	0.00003	0.009	0.00029	< 0.000005	0.00021	0.0013	< 0.002
AMQ-ENV15-073	IVR14-153	45	55	S3C	Central Greywacke	Waste	Core	3	0.00009	0.00011	0.00015	0.21	7.1	0.0026	0.32	0.0041	0.00036	9.7	0.0003	0.016	0.00018	0.0032	< 0.00004	3.9	< 0.00001	0.007	0.0059	< 0.000005	0.001	0.0047	< 0.002
AMQ-ENV15-075	IVR14-153	90	100	S3C	Central Greywacke	Waste	Core	12	0.000058	0.00012	0.00009	0.068	7.0	0.0035	0.41	0.0014	0.00066	12	0.0002	0.017	0.00003	0.0027	0.00012	3.0	< 0.00001	0.0073	0.002	< 0.000005	0.00032	0.0032	< 0.002
AMQ-ENV15-074	IVR14-153	150	160	S3C	Central Greywacke	Waste	Core	3	0.000057	0.00015	0.0002	0.076	7.1	0.0008	0.18	0.0012	0.00031	12	0.0001	0.026	0.00006	0.0028	< 0.00004	4.0	0.00002	0.006	0.0034	< 0.000005	0.00095	0.011	< 0.002
AMQ-ENV-03	IVR14-130	62	71	S3C	Central Greywacke	Waste	Core	50	0.000055	0.00007	0.00016	0.028	11	0.0043	1.3	0.022	0.0014	4.3	0.0004	0.035	0.00002	0.0011	< 0.001	2.2	0.00004	0.023	0.0018	0.000014	0.00038	0.00069	< 0.001
AMQ-ENV-11	IVR14-116	175	184	S3C	Central Greywacke	Waste	Core	30	0.00011	0.00032	0.0002	0.16	13	0.0028	0.23	0.0032	0.00061	4.0	0.0005	0.062	0.00018	0.0032	< 0.001	4.2	0.00004	0.0063	0.01	0.000007	0.0011	0.011	< 0.001
AMQ-ENV-12	IVR14-116	250	259	S3C	Central Greywacke	Waste	Core	35	0.000086	0.00025	0.0002	0.092	8.6	0.00053	0.26	0.0021	0.00046	4.9	0.0004	0.039	0.00031	0.0031	< 0.001	4.1	0.00004	0.015	0.006	0.000007	0.00096	0.0097	< 0.001
AMQ-ENV-13	IVR14-123	9	19	S3C	Central Greywacke	Waste	Core	27	0.00006	0.00068	0.00032	0.19	13	0.0032	0.8	0.0023	0.0022	9.7	0.0005	0.024	0.00009	0.0028	0.001	2.8	0.00006	0.0089	0.0059	0.000006	0.00026	0.0038	< 0.001
AMQ-ENV-14	IVR14-123	21	30	S3C	Central Greywacke	Waste	Core	19	0.00031	0.0013	0.00048	0.81	2.6	0.0022	0.26	0.011	0.0012	9.5	0.0015	0.097	0.00061	0.0023	< 0.001	5.4	0.00006	0.0024	0.022	0.000011	0.00017	0.01	0.002
AMQ-ENV-18	IVR14-114	18	27	S3C	Central Greywacke	Waste	Core	25	0.00019	0.0012	0.00037	0.35	11	0.0023	0.43	0.0066	0.00088	9.7	0.0008	0.038	0.00036	0.0027	< 0.001	4.8	0.00007	0.0098	0.021	0.000012	0.0019	0.0091	0.002
AMQ-ENV-19	IVR14-114	75	84	S3C	Central Greywacke	Waste	Core	24	0.0001	0.001	0.00031	0.23	9.1	0.0027	0.32	0.0037	0.0008	9.5	0.0003	0.042	0.0002	0.003	< 0.001	4.7	0.00005	0.006	0.013	0.000008	0.001	0.011	< 0.001
AMQ-ENV-20	IVR14-114	190	199	S3C	Central Greywacke	Waste	Core	11	0.00021	0.0012	0.0004	0.35	8.2	0.0017	0.26	0.0065	0.00032	11	0.0007	0.056	0.00036	0.0026	< 0.001	6.0	0.00005	0.006	0.018	0.000006	0.00069	0.013	< 0.001
AMQ-ENV-36	IVR14-121A	75	84	S3C	Central Greywacke	Waste	Core	14	0.00002	< 0.00003	0.00058	0.024	12	0.0038	1.4	0.012	0.0015	2.3	0.0002	0.011	0.00004	0.003	< 0.001	2.9	0.00004	0.017	0.00062	< 0.000005	0.0014	0.00045	< 0.001
AMQ-ENV-37	IVR14-121A	95	104	S3C	Central Greywacke	Waste	Core	24	0.00016	0.00061	0.00043	0.13	11	0.0019	0.43	0.0028	0.0015	11	0.0009	0.023	0.00014	0.0048	< 0.001	3.7	0.00006	0.0088	0.0074	0.000006	0.0016	0.0085	< 0.001
AMQ-ENV-41	IVR14-118	86	96	S3C	Central Greywacke	Waste	Core	21	0.00021	0.00098	0.0016	0.39	14	0.0055	0.26	0.0072	0.00077	13	0.0006	0.05	0.00026	0.003	< 0.001	5.7	0.00008	0.0039	0.018	0.000013	0.0017	0.013	< 0.001
AMQ-ENV-46	IVR14-130	149	155	S3C	Central Greywacke	Waste	Core	21	0.00017	0.00097	0.00033	0.29	9.0	0.0016	0.31	0.0052	0.0012	15	0.0007	0.032	0.00049	0.0019	< 0.001	5.4	0.00006	0.0048	0.017	0.000009	0.00082	0.0092	0.001
AMQ-ENV15-006	AMQ15-232	21	31	S3C	Central Greywacke	Waste	Core	21	0.00005	0.00071	0.00038	0.033	19	0.00085	1.2	0.00053	0.00028	1.8	0.0005	0.011	0.00007	0.0025	0.00065	8.4	0.00006	0.03	0.0013	< 0.000005	0.000007	0.02	< 0.002
AMQ-ENV15-012	AMQ15-241	15	25	S3C	Central Greywacke	Waste	Core	44	0.00012	0.00074	0.00072	0.1	7.6	0.0016	0.58	0.002	0.0022	14	0.0005	0.07	0.0011	0.0019	0.00061	6.4	0.00002	0.018	0.0033	< 0.000005	0.00013	0.018	< 0.002
AMQ-ENV15-004	AMQ15-245a	32	42	S3C	Central Greywacke	Waste	Core	36	0.000064	0.0015	0.002	0.043	13	0.00066	0.49	0.0007	0.00057	16	0.0004	0.022	0.00009	0.0031	0.00035	15	0.0007	0.022	0.0017	< 0.000005	0.000021	0.022	< 0.002
AMQ-ENV15-005	AMQ15-245a	45	55	S3C	Central Greywacke	Waste	Core	25	0.000053	0.00054	0.00074	0.016	18	0.00085	0.9	0.00029	0.00036	8.5	0.0003	< 0.003	0.00001	0.0032	0.00024	7.8	0.00002	0.029	0.00053	< 0.000005	0.000006	0.0078	< 0.002
AMQ-ENV15-108	IVR14-099	150	160	S3C	Central Greywacke	Waste	Core	22	0.000066	0.00029	0.00019	0.073	7.2	0.0016	0.17	0.0011	0.00056	13	0.0001	0.025	0.0001	0.0017	< 0.00004	4.3	< 0.00001	0.0052	0.0039	< 0.000005	0.00061	0.0097	< 0.002
AMQ-ENV15-065	IVR14-114	125	135	S3C	Central Greywacke	Waste	Core	29	0.00013	0.00036	0.00014	0.2	6.9	0.0019	0.25	0.0036	0.00054	11	0.0004	0.03	0.00018	0.0021	0.00012	4.2	< 0.00001	0.0055	0.0085	< 0.000005	0.00077	0.011	< 0.002
AMQ-ENV15-066	IVR14-114	148	157	S3C	Central Greywacke	Waste	Core	21	0.00017	0.00023	0.0003	0.21	12	0.0027	0.42	0.0031	0.0013	9.4	0.0006	0.019	0.00016	0.0025	0.00014	2.8	0.00001	0.011	0.0062	< 0.000005	0.00043	0.0083	< 0.002
AMQ-ENV15-112	IVR14-125A	310	320	S3C	Central Greywacke	Waste	Core	6	0.000054	0.00072	0.0002	0.14	4.9	0.0024	0.13	0.0021	0.00055	19	< 0.0001	0.023	0.00009	0.0027	< 0.00004	4.8	< 0.00001	0.0022	0.0031	< 0.000005	0.000087	0.0037	< 0.002
AMQ-ENV15-054	IVR14-150	35	45	S3C	Central Greywacke	Waste	Core	30	0.000076	< 0.00003	0.00013	0.059	14	0.0095	4.3	0.053	0.00095	2.4	0.0009	< 0.003	< 0.00001	0.0024	< 0.00004	1.9	< 0.00001	0.034	0.00053	< 0.000005	0.00044	0.0001	< 0.002
AMQ-ENV15-107	IVR14-099	115	125	S3C	Central Greywacke	Waste	Core	32	0.000022	0.0002	0.00012	0.034	6.5	0.001	0.14	0.0006	0.00048	13	< 0.0001	0.018	0.00004	0.0024	0.00011	4.1	< 0.00001	0.0044	0.0014	< 0.000005	0.00078	0.0088	< 0.002
AMQ-ENV-48	IVR14-016	70	80	S3C	Central Greywacke	Waste	Reject	0	0.00011	< 0.00003	0.00021	< 0.007	78	0.0037	29	0.44	0.0076	35	0.0011	< 0.003	0.00002	0.001	0.003	3.2	0.0001	0.34	0.00005	0.000016	0.0011	0.00008	< 0.001
AMQ-ENV-53	IVR14-084	150	161	S3C	Central Greywacke	Waste	Reject	10	0.00002	0.00047	0.00021	0.033	19	0.0032	0.8	0.0016	0.0026	14	0.0002	0.011	0.00006	0.0097	< 0.001	3.6	0.00006	0.0092	0.0014	< 0.000005	0.0023	0.0052	< 0.001
AMQ-ENV-63	IVR14-092	80	88	S3C	Central Greywacke	Waste	Reject	54	0.000038	0.001	0.00022	0.022	29	0.0004	0.33	0.00026	0.001	12	0.0004	0.017	0.00005	0.0023	< 0.001	3.4	0.00003	0.033	0.0013	< 0.000005	0.000011	0.015	< 0.001
Central Greywacke - S3C								**Minimum**	*0.00002*	*< 0.00003*	*0.00009*	*< 0.005*	*2.6*	*0.0004*	*0.13*	*0.00026*	*0.00009*	*0.81*	*< 0.0001*	*< 0.003*	*< 0.00001*	*0.0007*	*< 0.00004*	*1.7*	*< 0.00001*	*0.0022*	*0.00005*	*< 0.000005*	*0.000006*	*0.00007*	*< 0.001*
								Maximum	*0.0078*	*0.0015*	*0.002*	*0.81*	*78*	*0.0095*	*29*	*1.2*	*0.0076*	*35*	*0.035*	*0.097*	*0.0011*	*0.0097*	*0.004*	*15*	*0.0007*	*0.34*	*0.022*	*0.000047*	*0.0023*	*0.022*	*0.002*
								Median	*0.000061*	*0.00023*	*0.00023*	*0.069*	*10*	*0.0021*	*0.41*	*0.0031*	*0.00088*	*9.7*	*0.0004*	*0.019*	*0.00006*	*0.0027*	*0.00065*	*3.9*	*0.00003*	*0.0092*	*0.002*	*0.000005*	*0.00061*	*0.0083*	*0.002*
								Average	*0.00027*	*0.00042*	*0.00037*	*0.13*	*14*	*0.0025*	*1.5*	*0.046*	*0.0013*	*10*	*0.0013*	*0.024*	*0.00015*	*0.0028*	*0.00069*	*4.3*	*0.000049*	*0.022*	*0.0051*	*0.0000076*	*0.00065*	*0.0071*	*0.0016*
								Std. Deviation	*0.0012*	*0.00043*	*0.00036*	*0.15*	*13*	*0.0019*	*4.4*	*0.2*	*0.0014*	*6.0*	*0.0053*	*0.021*	*0.00021*	*0.0014*	*0.00077*	*2.2*	*0.0001*	*0.05*	*0.0062*	*0.0000068*	*0.00057*	*0.0058*	*0.0005*
								75th Percentile	*0.00011*	*0.00072*	*0.00041*	*0.19*	*14*	*0.0032*	*1.2*	*0.0077*	*0.0014*	*13*	*0.0006*	*0.034*	*0.00018*	*0.003*	*0.001*	*4.7*	*0.00005*	*0.02*	*0.0068*	*0.000007*	*0.00096*	*0.01*	*0.002*

Appendix E.5
Shake Flask Extraction Results
Waste Rock, Ore, Tailing, Soil and Lake Sediment
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

								Portage Effluent Quality Criteria[a]		6-9				1000					20		1.5	0.0004		1	0.3					0.002
								Vault Effluent Quality Criteria[b]		6-9				500					50		1	0.0004		1	0.1					0.002
Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample Type			Distance to Ore	Final pH	Alkalinity	Conductivity	Fluoride	Chloride	Sulphate	Bromide	Nitrite (as N)	Nitrate (as N)	Chromium	Phosphorus (total reactive)	Mercury	Silver	Aluminum	Arsenic	Barium	Boron	Beryllium	Bismuth	Calcium	Cadmium
		From	To								mg/L as CaCO3	uS/cm	mg/L	mg/L	mg/L	mg/L	as N mg/L	as N mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMQ-ENV-112	IVR14-131	10	19	S3s	South Greywacke	Waste	Core		296	**9.6**	56	124	0.32	< 2	4.0	< 3	< 0.3	< 0.6	-	0.06	0.00001	0.000046	0.42	0.038	0.0053	0.065	0.000011	< 0.000007	2.5	< 0.000003
AMQ-ENV-115	IVR14-144	70	79	S3s	South Greywacke	Waste	Core		101	**9.5**	47	110	0.21	< 2	3.0	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	0.00001	0.86	0.058	0.0037	0.055	0.00001	0.000025	4.2	< 0.000003
AMQ-ENV-116	IVR14-144	186	195	S3s	South Greywacke	Waste	Core		47	**10**	60	143	0.28	< 2	2.2	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	0.000013	0.19	0.018	0.0028	0.05	< 0.000007	< 0.000007	1.9	< 0.000003
AMQ-ENV-117	IVR14-151	15	24	S3s	South Greywacke	Waste	Core		111	**9.7**	58	134	0.26	< 2	3.3	< 3	< 0.3	< 0.6	-	0.04	< 0.00001	0.000005	0.51	0.045	0.0037	0.05	< 0.000007	< 0.000007	3.4	< 0.000003
AMQ-ENV-120	IVR14-149	50	59	S3s	South Greywacke	Waste	Core		74	**9.9**	63	147	0.36	< 2	< 2	< 3	< 0.3	< 0.6	-	0.07	< 0.00001	0.000002	0.34	0.043	0.0062	0.066	0.000009	0.00002	2.3	< 0.000003
AMQ-ENV15-023	AMQ15-161	28	38	S3s	South Greywacke	Waste	Core		56	**10.0**	37	91	0.14	1.0	1.0	< 3	< 0.3	< 0.6	0.6	< 0.03	0.00002	< 0.000002	0.31	0.012	0.0075	0.0072	< 0.000007	< 0.000007	3.3	< 0.000003
AMQ-ENV15-022	AMQ15-161	60	70	S3s	South Greywacke	Waste	Core		36	**10**	54	107	0.2	1.0	< 1	< 3	< 0.3	< 0.6	0.7	< 0.03	< 0.00001	< 0.000002	0.11	0.01	0.046	0.0078	< 0.000007	< 0.000007	3.7	< 0.000003
AMQ-ENV15-032	AMQ15-180	25	35	S3s	South Greywacke	Waste	Core		33	**9.9**	56	98	0.15	2.0	< 1	< 3	< 0.3	< 0.6	0.6	0.03	< 0.00001	< 0.000002	0.26	0.022	0.0092	0.0086	< 0.000007	< 0.000007	3.4	< 0.000003
AMQ-ENV15-003	AMQ15-187	32	42	S3s	South Greywacke	Waste	Core		56	**10.0**	36	85	0.17	1.0	< 1	< 3	< 0.3	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.14	0.019	0.012	0.0077	< 0.000007	< 0.000007	4.2	< 0.000003
AMQ-ENV15-001	AMQ15-187	95	105	S3s	South Greywacke	Waste	Core		18	**9.7**	34	99	0.16	4.0	2.0	< 3	< 0.3	< 0.6	0.4	< 0.03	< 0.00001	0.000003	0.27	0.07	0.029	0.026	< 0.000007	< 0.000007	4.5	< 0.000003
AMQ-ENV15-047	AMQ15-188	29	39	S3s	South Greywacke	Waste	Core		12	**9.8**	45	107	0.11	< 1	< 1	< 3	< 0.3	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.042	0.033	0.029	0.011	< 0.000007	< 0.000007	2.9	< 0.000003
AMQ-ENV15-013	AMQ15-241	76	86	S3s	South Greywacke	Waste	Core		13	**10**	76	171	0.24	1.0	< 1	< 3	< 0.3	< 0.6	1.2	< 0.03	< 0.00001	< 0.000002	0.11	0.035	0.016	0.15	< 0.000007	< 0.000007	1.4	< 0.000003
AMQ-ENV-101	IVR14-087	20	30	S3s	South Greywacke	Waste	Core		117	**9.4**	35	108	0.18	5.0	6.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.62	0.0043	0.014	0.009	< 0.000007	< 0.000007	5.2	< 0.000003
AMQ-ENV-102	IVR14-087	50	60	S3s	South Greywacke	Waste	Core		88	**9.8**	87	107	0.13	2.0	1.0	< 3	< 0.3	< 0.6	0.2	0.04	< 0.00001	0.000002	0.64	0.025	0.0094	0.02	< 0.000007	< 0.000007	2.6	< 0.000003
AMQ-ENV-103	IVR14-087	75	85	S3s	South Greywacke	Waste	Core		59	**9.9**	44	100	0.23	< 1	< 1	< 3	< 0.3	< 0.6	0.4	0.04	< 0.00001	< 0.000002	0.11	0.012	0.016	0.018	< 0.000007	< 0.000007	3.8	0.000004
AMQ-ENV-093	IVR14-091	20	30	S3s	South Greywacke	Waste	Core		59	**9.4**	43	112	0.09	5.0	3.0	< 3	< 0.3	< 0.6	< 0.2	0.05	< 0.00001	< 0.000002	0.26	**0.45**	0.009	0.0097	< 0.000007	< 0.000007	8.3	< 0.000003
AMQ-ENV15-110	IVR14-099	15	25	S3s	South Greywacke	Waste	Core		58	**9.6**	60	106	0.11	2.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.62	0.023	0.0073	0.026	< 0.000007	< 0.000007	4.5	< 0.000003
AMQ-ENV15-049	IVR14-141	13	22	S3s	South Greywacke	Waste	Core		82	**10.0**	46	101	0.16	1.0	< 1	< 3	< 0.3	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.077	0.0045	0.012	0.022	< 0.000007	< 0.000007	4.4	< 0.000003
AMQ-ENV-50	IVR14-103	125	132	S3s	South Greywacke	Waste	Reject		55	**9.6**	60	140	0.32	< 2	3.6	< 3	< 0.3	< 0.6	0.7	< 0.03	< 0.00001	< 0.000002	0.26	0.035	0.0033	0.053	< 0.000007	< 0.000007	2.5	< 0.000003
AMQ-ENV-60	IVR14-101	119	128	S3s	South Greywacke	Waste	Reject		81	**9.7**	50	121	0.41	< 2	3.5	< 3	< 0.3	< 0.6	0.9	< 0.03	< 0.00001	0.000006	0.11	0.07	0.0026	0.07	< 0.000007	0.000018	3.4	< 0.000003
AMQ-ENV-66	IVR14-110	92	100	S3s	South Greywacke	Waste	Reject		247	**9.7**	54	198	0.35	21	8.3	< 3	< 0.3	< 0.6	0.8	0.04	< 0.00001	0.000002	0.16	0.094	0.0047	0.093	< 0.000007	< 0.000007	2.8	< 0.000003
AMQ-ENV-67	IVR14-110	197	207	S3s	South Greywacke	Waste	Reject		49	**9.9**	66	152	0.33	< 2	< 2	< 3	< 0.3	< 0.6	4.4	< 0.03	< 0.00001	0.000003	0.14	0.011	0.0044	0.11	< 0.000007	0.000007	1.8	< 0.000003
AMQ-ENV-71	IVR14-046	114	126	S3s	South Greywacke	Waste	Reject		124	**9.5**	45	247	0.31	31	27	< 3	< 0.3	< 0.6	0.6	< 0.03	< 0.00001	< 0.000002	0.13	**0.15**	0.0048	0.057	< 0.000007	< 0.000007	5.4	< 0.000003
								Minimum		*9.4*	*34*	*85*	*0.09*	*< 1*	*< 1*	*< 3*	*< 0.3*	*< 0.6*	*< 0.2*	*< 0.03*	*< 0.00001*	*< 0.000002*	*0.042*	*0.0043*	*0.0026*	*0.0072*	*< 0.000007*	*< 0.000007*	*1.4*	*< 0.000003*
								Maximum		*10*	*87*	*247*	*0.41*	*31*	*27*	*< 3*	*< 0.3*	*< 0.6*	*4.4*	*0.07*	*0.00002*	*0.000046*	*0.86*	*0.45*	*0.046*	*0.15*	*0.000011*	*0.000025*	*8.3*	*0.000004*
South Greywacke - S3S								**Median**		*9.8*	*54*	*110*	*0.21*	*2.0*	*2.0*	*nc*	*nc*	*nc*	*0.5*	*0.03*	*0.00001*	*0.000002*	*0.26*	*0.033*	*0.0075*	*0.026*	*0.000007*	*0.000007*	*3.4*	*0.000003*
								Average		*9.7*	*53*	*126*	*0.23*	*4.1*	*3.5*	*nc*	*nc*	*nc*	*0.74*	*0.036*	*0.00001*	*0.0000051*	*0.29*	*0.055*	*0.011*	*0.043*	*0.0000074*	*0.0000088*	*3.6*	*0.000003*
								Std. Deviation		*nc*	*13*	*38*	*0.093*	*7.2*	*5.4*	*nc*	*nc*	*nc*	*0.89*	*0.011*	*0.0000021*	*0.0000093*	*0.22*	*0.091*	*0.011*	*0.037*	*0.0000011*	*0.0000049*	*1.5*	*0.00000021*
								75th Percentile		*nc*	*60*	*142*	*0.32*	*2.0*	*3.4*	*nc*	*nc*	*nc*	*0.7*	*0.04*	*0.00001*	*0.000003*	*0.38*	*0.052*	*0.013*	*0.061*	*0.000007*	*0.000007*	*4.3*	*0.000003*
AMQ-ENV15-019	AMQ15-167	47	57	S10	Chert	Waste	Core		0	8.5	63	270	0.21	34	24	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000021	0.027	0.02	0.025	0.06	< 0.000007	< 0.000007	15	< 0.000003
AMQ-ENV-133	AMQ15-433-01	20	30	S10	Chert	Waste	Core		-	8.3	75	295	0.23	42	22	< 3	< 0.3	< 0.6	0.3	< 0.03	< 0.00001	0.000013	0.012	0.056	0.021	0.94	0.00071	0.091	17	**0.0032**
AMQ-ENV-141	AMQ15-481-02	225	235	S10	Chert	Waste	Core		-	**9.8**	66	155	0.26	8.0	< 1	< 3	< 0.3	< 0.6	0.3	< 0.03	< 0.00001	0.00076	0.33	**0.18**	0.0024	0.12	0.00004	0.00044	1.8	0.00029
AMQ-ENV-046	AMQ15-188	65	75	S10	Chert	Waste	Core		22	8.6	60	218	0.17	30	9.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	0.05	0.0016	0.019	0.049	< 0.000007	< 0.000007	14	< 0.000003
AMQ-ENV15-037	AMQ15-193	15	25	S10	Chert	Waste	Core		9	**5.2**	9.0	192	0.1	6.0	58	< 3	< 0.3	< 0.6	< 0.2	0.05	< 0.00001	< 0.000002	0.017	**0.12**	0.021	0.031	0.000098	< 0.000007	7.7	0.000008
AMQ-ENV-007	AMQ15-232	50	60	S10	Chert	Waste	Core		2	**9.1**	51	210	0.14	20	11	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000018	0.039	**0.14**	0.024	0.019	< 0.000007	< 0.000007	7.4	< 0.000003
AMQ-ENV15-092	IVR14-079	64	72	S10	Chert	Waste	Core		6	8.9	54	181	0.08	24	2.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	0.02	**0.11**	0.011	0.017	< 0.000007	< 0.000007	9.3	< 0.000003
AMQ-ENV15-088	IVR14-089	35	45	S10	Chert	Waste	Core		13	8.5	52	190	0.12	30	1.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.11	0.022	0.014	0.024	< 0.000007	< 0.000007	14	< 0.000003
AMQ-ENV15-095	IVR14-091	80	90	S10	Chert	Waste	Core		1	9.0	45	139	0.17	10	6.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000004	0.51	0.056	0.0071	0.02	< 0.000007	< 0.000007	8.7	< 0.000003
AMQ-ENV15-096	IVR14-091	130	140	S10	Chert	Waste	Core		27	**9.5**	53	127	0.45	5.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.00022	**1.3**	0.04	0.0072	0.021	0.000008	0.000038	3.0	< 0.000003
AMQ-ENV15-085	IVR14-125A	370	380	S10	Chert	Waste	Core		11	8.9	40	125	0.12	16	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000008	0.38	**0.13**	0.0087	0.016	< 0.000007	0.000024	9.1	< 0.000003
AMQ-ENV15-058	IVR14-147	35	45	S10	Chert	Waste	Core		12	8.2	58	246	0.19	26	30	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000024	0.052	0.012	0.016	0.028	< 0.000007	0.000018	20	0.000003
AMQ-ENV15-056	IVR14-148	37	47	S10	Chert	Waste	Core		10	**9.2**	40	114	0.19	4.0	6.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	**1.0**	0.06	0.011	0.027	0.000008	0.000017	5.9	< 0.000003
AMQ-ENV15-115	IVR14-155	335	345	S10	Chert	Waste	Core		9	**9.9**	56	143	0.59	9.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.19	0.06	0.0013	0.044	< 0.000007	0.000011	2.0	< 0.000003
								Minimum		*5.2*	*9.0*	*114*	*0.08*	*4.0*	*< 1*	*< 3*	*< 0.3*	*< 0.6*	*< 0.2*	*< 0.03*	*< 0.00001*	*< 0.000002*	*0.012*	*0.0016*	*0.0013*	*0.016*	*< 0.000007*	*< 0.000007*	*1.8*	*< 0.000003*
								Maximum		*9.9*	*75*	*295*	*0.59*	*42*	*58*	*< 3*	*< 0.3*	*< 0.6*	*0.3*	*0.05*	*< 0.00001*	*0.00076*	*1.3*	*0.18*	*0.025*	*0.94*	*0.00071*	*0.091*	*20*	*0.0032*
Chert - S10								**Median**		*8.9*	*54*	*186*	*0.18*	*18*	*6.0*	*nc*	*nc*	*nc*	*0.2*	*0.03*	*nc*	*0.000009*	*0.08*	*0.058*	*0.013*	*0.028*	*0.000007*	*0.000009*	*8.9*	*0.000003*
								Average		*6.3*	*52*	*186*	*0.22*	*19*	*12*	*nc*	*nc*	*nc*	*0.21*	*0.031*	*nc*	*0.000079*	*0.29*	*0.072*	*0.013*	*0.1*	*0.000067*	*0.0066*	*9.6*	*0.00025*
								Std. Deviation		*nc*	*16*	*57*	*0.14*	*12*	*16*	*nc*	*nc*	*nc*	*0.036*	*0.0053*	*nc*	*0.00021*	*0.41*	*0.054*	*0.0077*	*0.24*	*0.00019*	*0.024*	*5.6*	*0.00086*
								75th Percentile		*nc*	*60*	*216*	*0.23*	*29*	*19*	*nc*	*nc*	*nc*	*0.2*	*0.03*	*nc*	*0.00002*	*0.37*	*0.12*	*0.02*	*0.048*	*0.000008*	*0.000023*	*14*	*0.000003*

Appendix E.5
Shake Flask Extraction Results
Waste Rock, Ore, Tailing, Soil and Lake Sediment
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

										Portage Effluent Quality Criteria[a]			0.1									0.2	1	0.1									0.4
										Vault Effluent Quality Criteria[b]			**0.1**									**0.2**	**1.5**	**0.1**									**0.2**
Sample ID	**Borehole ID**	**Depth (m)**		**Lithology Code**	**Rock Name**	**Sample Type**			**Distance to Ore**	**Cobalt**	**Chromium**	**Copper**	**Iron**	**Potassium**	**Lithium**	**Magnesium**	**Manganese**	**Molybdenum**	**Sodium**	**Nickel**	**Phosphorus**	**Lead**	**Antimony**	**Selenium**	**Silicon**	**Tin**	**Strontium**	**Titanium**	**Thallium**	**Uranium**	**Vanadium**	**Zinc**
		From	**To**							**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
AMQ-ENV-112	IVR14-131	10	19	S3s	South Greywacke	Waste	Core		296	0.00012	0.003	0.0029	0.21	12	0.0019	0.46	0.0035	0.0061	16	0.0007	0.069	0.00024	0.002	0.001	5.4	0.042	0.0078	0.0082	0.000005	0.00078	0.017	< 0.001
AMQ-ENV-115	IVR14-144	70	79	S3s	South Greywacke	Waste	Core		101	0.00012	0.0011	0.00034	0.21	7.2	0.0011	0.46	0.0023	0.0019	14	0.0007	0.026	0.00058	0.004	< 0.001	3.9	0.00026	0.012	0.0078	< 0.000005	0.00058	0.0085	< 0.001
AMQ-ENV-116	IVR14-144	186	195	S3s	South Greywacke	Waste	Core		47	0.00003	0.0017	0.00023	0.048	16	0.00022	0.14	0.00074	0.00044	16	0.0002	0.018	0.00002	0.0025	< 0.001	8.4	0.00006	0.029	0.0025	< 0.000005	0.000015	0.025	< 0.001
AMQ-ENV-117	IVR14-151	15	24	S3s	South Greywacke	Waste	Core		111	0.000059	0.0014	0.00036	0.065	10	0.002	0.29	0.001	0.0024	17	0.0007	0.026	0.00009	0.0025	< 0.001	4.6	0.00009	0.0097	0.0038	0.000006	0.00085	0.012	< 0.001
AMQ-ENV-120	IVR14-149	50	59	S3s	South Greywacke	Waste	Core		74	0.00022	0.0063	0.00042	0.38	20	0.00079	0.48	0.0054	0.00075	14	0.0014	0.079	0.00012	0.005	< 0.001	9.7	0.00007	0.011	0.015	0.000006	0.000085	0.034	< 0.001
AMQ-ENV15-023	AMQ15-161	28	38	S3s	South Greywacke	Waste	Core		56	0.000091	0.0019	0.00027	0.12	17	0.00066	0.36	0.0017	0.00071	3.9	0.0004	0.051	0.00007	0.0019	0.00072	10	< 0.00001	0.02	0.0042	< 0.000005	0.00028	0.027	< 0.002
AMQ-ENV15-022	AMQ15-161	60	70	S3s	South Greywacke	Waste	Core		36	0.000065	0.0014	0.0004	0.05	22	0.00016	0.33	0.00078	0.00048	3.4	0.0004	0.023	0.00004	0.0046	0.00013	14	< 0.00001	0.057	0.0025	< 0.000005	0.000023	0.019	< 0.002
AMQ-ENV15-032	AMQ15-180	25	35	S3s	South Greywacke	Waste	Core		33	0.000076	0.0015	0.00027	0.075	18	0.00026	0.34	0.0013	0.00069	4.0	0.0004	0.03	0.00002	0.0037	0.00023	9.5	< 0.00001	0.025	0.0034	< 0.000005	0.00015	0.026	< 0.002
AMQ-ENV15-003	AMQ15-187	32	42	S3s	South Greywacke	Waste	Core		56	0.000044	0.00067	0.0003	0.026	15	0.000085	0.37	0.00046	0.00066	2.9	0.0002	0.013	0.00006	0.002	0.00016	10	< 0.00001	0.03	0.00082	< 0.000005	0.000038	0.02	< 0.002
AMQ-ENV15-001	AMQ15-187	95	105	S3s	South Greywacke	Waste	Core		18	0.000084	0.0013	0.00036	0.087	16	0.00081	0.62	0.0012	0.0019	3.9	0.0006	0.026	0.00003	0.0031	0.00062	6.5	< 0.00001	0.05	0.0028	< 0.000005	0.0001	0.016	< 0.002
AMQ-ENV15-047	AMQ15-188	29	39	S3s	South Greywacke	Waste	Core		12	0.000064	0.0013	0.0009	0.05	26	0.00054	0.75	0.00075	0.00048	0.97	0.0007	0.007	0.00008	0.0059	0.00022	8.5	< 0.00001	0.027	0.0023	0.000006	0.00001	0.013	< 0.002
AMQ-ENV15-013	AMQ15-241	76	86	S3s	South Greywacke	Waste	Core		13	0.000099	0.003	0.00059	0.092	23	0.0006	0.24	0.0013	0.00051	20	0.0008	0.016	0.00006	0.0037	0.00033	16	0.00001	0.022	0.0049	< 0.000005	0.00003	0.021	< 0.002
AMQ-ENV15-101	IVR14-087	20	30	S3s	South Greywacke	Waste	Core		117	0.000024	< 0.00003	0.00018	0.007	15	0.00016	0.51	0.001	0.0027	3.9	< 0.0001	< 0.003	0.00003	0.0014	< 0.00004	1.9	< 0.00001	0.048	0.00013	< 0.000005	0.000016	0.0032	< 0.002
AMQ-ENV15-102	IVR14-087	50	60	S3s	South Greywacke	Waste	Core		88	0.000085	0.00098	0.00018	0.13	8.2	0.00035	0.2	0.0017	0.0011	14	0.0003	0.037	0.00005	0.0023	0.00025	5.7	< 0.00001	0.02	0.0067	< 0.000005	0.000092	0.016	< 0.002
AMQ-ENV15-103	IVR14-087	75	85	S3s	South Greywacke	Waste	Core		59	0.00014	0.0022	0.0004	0.15	14	0.00024	0.43	0.0024	0.0013	7.8	0.001	0.019	0.00009	0.0017	0.00031	11	0.00001	0.021	0.0059	< 0.000005	0.000008	0.027	< 0.002
AMQ-ENV15-093	IVR14-091	20	30	S3s	South Greywacke	Waste	Core		59	0.00007	< 0.00003	0.0001	0.011	8.7	0.00062	2.5	0.00042	0.0039	3.8	0.0008	< 0.003	0.00002	0.0014	0.00014	3.8	< 0.00001	0.043	0.00014	< 0.000005	0.000073	0.0058	< 0.002
AMQ-ENV15-110	IVR14-099	15	25	S3s	South Greywacke	Waste	Core		58	0.000041	0.00009	0.00011	0.043	5.6	0.00076	0.36	0.00049	0.0011	9.2	0.0001	< 0.003	0.00003	0.0017	0.00009	3.7	< 0.00001	0.019	0.0015	< 0.000005	0.00044	0.0079	< 0.002
AMQ-ENV15-049	IVR14-141	13	22	S3s	South Greywacke	Waste	Core		82	0.000091	0.0011	0.00012	0.068	10	0.00018	0.42	0.0013	0.00062	8.3	0.0003	0.01	0.00002	0.0023	0.00017	11	< 0.00001	0.024	0.0019	< 0.000005	0.000024	0.018	< 0.002
AMQ-ENV-50	IVR14-103	125	132	S3s	South Greywacke	Waste	Reject		55	0.000009	0.00086	0.0005	0.02	23	0.00041	0.45	0.00026	0.0026	13	0.0002	0.012	0.00001	0.011	< 0.001	2.5	0.00004	0.025	0.00081	< 0.000005	0.000021	0.012	< 0.001
AMQ-ENV-60	IVR14-101	119	128	S3s	South Greywacke	Waste	Reject		81	0.000029	0.0013	0.00023	0.023	16	0.0008	0.44	0.00034	0.0035	13	0.0003	0.015	0.00007	0.0037	< 0.001	3.9	0.00003	0.01	0.00093	< 0.000005	0.000057	0.027	< 0.001
AMQ-ENV-66	IVR14-110	92	100	S3s	South Greywacke	Waste	Reject		247	0.00018	0.0051	0.00065	0.2	24	0.0011	1.1	0.0027	0.0014	24	0.0012	0.03	0.00017	0.0033	< 0.001	6.7	0.00011	0.012	0.0091	< 0.000005	0.000063	0.02	< 0.001
AMQ-ENV-67	IVR14-110	197	207	S3s	South Greywacke	Waste	Reject		49	0.000082	0.0072	0.0003	0.12	28	0.00038	0.39	0.0013	0.00067	14	0.0007	0.019	0.00009	0.0063	< 0.001	6.2	0.00006	0.016	0.006	< 0.000005	0.000025	0.023	< 0.001
AMQ-ENV-71	IVR14-046	114	126	S3s	South Greywacke	Waste	Reject		124	0.00004	0.00087	0.00084	0.028	24	0.0016	1.3	0.00045	0.002	29	0.0002	0.01	0.00024	0.0031	< 0.001	3.4	0.00012	0.03	0.0017	< 0.000005	0.00016	0.012	< 0.001
South Greywacke - S3S								**Minimum**		*0.000009*	*< 0.00003*	*0.0001*	*0.007*	*5.6*	*0.000085*	*0.14*	*0.00026*	*0.00044*	*0.97*	*< 0.0001*	*< 0.003*	*0.00001*	*0.0014*	*< 0.00004*	*1.9*	*< 0.00001*	*0.0078*	*0.00013*	*< 0.000005*	*0.000008*	*0.0032*	*< 0.001*
								Maximum		*0.00022*	*0.0072*	*0.0029*	*0.38*	*28*	*0.002*	*2.5*	*0.0054*	*0.0061*	*29*	*0.0014*	*0.079*	*0.00058*	*0.011*	*0.001*	*16*	*0.042*	*0.057*	*0.015*	*0.000006*	*0.00085*	*0.034*	*< 0.002*
								Median		*0.000076*	*0.0013*	*0.00034*	*0.068*	*16*	*0.0006*	*0.43*	*0.0012*	*0.0011*	*13*	*0.0004*	*0.019*	*0.00006*	*0.0031*	*0.00062*	*6.5*	*0.00001*	*0.022*	*0.0028*	*0.000005*	*0.000063*	*0.018*	*nc*
								Average		*0.000081*	*0.0019*	*0.00047*	*0.096*	*17*	*0.00068*	*0.56*	*0.0014*	*0.0016*	*11*	*0.00054*	*0.024*	*0.000097*	*0.0034*	*0.00058*	*7.2*	*0.0018*	*0.025*	*0.004*	*0.0000051*	*0.00017*	*0.018*	*nc*
								Std. Deviation		*0.00005*	*0.0019*	*0.00056*	*0.088*	*6.3*	*0.00054*	*0.49*	*0.0012*	*0.0014*	*7.4*	*0.00035*	*0.02*	*0.00012*	*0.0022*	*0.0004*	*3.7*	*0.0086*	*0.014*	*0.0035*	*0.00000034*	*0.00025*	*0.0078*	*nc*
								75th Percentile		*0.000095*	*0.002*	*0.00046*	*0.13*	*23*	*0.00081*	*0.5*	*0.0017*	*0.0022*	*15*	*0.0007*	*0.028*	*0.00009*	*0.0039*	*0.001*	*9.9*	*0.000065*	*0.029*	*0.0059*	*0.000005*	*0.00015*	*0.024*	*nc*
AMQ-ENV15-019	AMQ15-167	47	57	S10	Chert	Waste	Core		0	0.000059	0.00007	0.0016	0.068	30	0.0036	4.0	0.0056	0.0038	8.6	0.0012	< 0.003	0.00004	0.0058	0.00032	3.5	0.00026	0.032	0.00054	< 0.000005	0.00061	0.00017	< 0.002
AMQ-ENV15-133	AMQ15-433-01	20	30	S10	Chert	Waste	Core		-	0.0033	0.0039	0.0049	0.064	28	0.014	5.0	0.011	0.081	14	0.0056	0.026	0.0081	0.0042	0.15	4.0	0.00005	0.03	< 0.00005	0.011	0.02	0.0088	0.004
AMQ-ENV15-141	AMQ15-481-02	225	235	S10	Chert	Waste	Core		-	0.00028	0.0007	0.00052	0.31	4.8	0.0012	0.19	0.0053	0.002	31	0.0004	0.018	0.00035	0.017	0.00087	6.2	0.00006	0.0029	0.001	0.00035	0.00036	0.0036	< 0.002
AMQ-ENV15-046	AMQ15-188	65	75	S10	Chert	Waste	Core		22	0.000046	0.00004	0.00017	0.033	16	0.00097	3.1	0.0029	0.00089	15	0.0002	< 0.003	< 0.00001	0.0017	0.00014	2.2	< 0.00001	0.038	0.00039	< 0.000005	0.00014	0.00006	< 0.002
AMQ-ENV15-037	AMQ15-193	15	25	S10	Chert	Waste	Core		9	0.006	< 0.00003	0.00031	0.18	20	0.009	4.1	0.79	0.00004	6.2	0.018	< 0.003	< 0.00001	0.001	0.0011	6.3	< 0.00001	0.05	0.00023	0.000014	0.00003	< 0.00001	< 0.002
AMQ-ENV15-007	AMQ15-232	50	60	S10	Chert	Waste	Core		2	0.000079	0.0001	0.00022	0.039	29	0.0017	1.7	0.0026	0.00089	10	0.0006	0.003	0.00002	0.0032	0.00037	3.5	0.00018	0.1	0.00079	< 0.000005	0.000076	0.0015	< 0.002
AMQ-ENV15-092	IVR14-079	64	72	S10	Chert	Waste	Core		6	0.00029	0.00014	0.00033	0.096	16	0.0012	3.2	0.007	0.0006	8.9	0.0065	< 0.003	0.00002	0.0066	0.00012	3.4	< 0.00001	0.026	0.00057	< 0.000005	0.000035	0.00032	< 0.002
AMQ-ENV15-088	IVR14-089	35	45	S10	Chert	Waste	Core		13	0.00005	0.00005	0.00033	0.039	17	0.0018	2.0	0.0045	0.0035	7.9	0.0002	< 0.003	0.00002	0.0021	0.00013	1.6	0.00002	0.032	0.00046	< 0.000005	0.000038	0.0001	< 0.002
AMQ-ENV15-095	IVR14-091	80	90	S10	Chert	Waste	Core		1	0.000066	0.00004	0.00018	0.042	11	0.0032	0.8	0.0036	0.0021	11	0.0002	0.005	0.00004	0.0024	0.00014	2.7	< 0.00001	0.02	0.0017	< 0.000005	0.00056	0.0025	< 0.002
AMQ-ENV15-096	IVR14-091	130	140	S10	Chert	Waste	Core		27	0.000057	0.00016	0.00017	0.27	14	0.00056	0.21	0.0032	0.0017	13	0.0001	0.003	0.00006	0.0044	0.00006	1.7	0.00002	0.0069	0.0049	< 0.000005	0.000093	0.0018	< 0.002
AMQ-ENV15-085	IVR14-125A	370	380	S10	Chert	Waste	Core		11	0.0001	< 0.00003	0.00036	0.049	8.1	0.0015	1.5	0.006	0.0016	7.6	0.0003	< 0.003	0.00014	0.0016	< 0.00004	1.7	0.00004	0.021	0.0008	< 0.000005	0.000029	0.00047	< 0.002
AMQ-ENV15-058	IVR14-147	35	45	S10	Chert	Waste	Core		12	0.000062	0.00006	0.00021	0.042	23	0.0073	2.6	0.011	0.0048	8.4	0.0004	< 0.003	< 0.00001	0.002	0.00031	2.8	0.00002	0.042	0.00042	< 0.000005	0.001	0.00018	< 0.002
AMQ-ENV15-056	IVR14-148	37	47	S10	Chert	Waste	Core		10	0.00016	0.00033	0.00025	0.18	9.4	0.0026	0.56	0.0034	0.001	11	0.0006	0.014	0.00046	0.0044	0.00018	3.1	0.00004	0.011	0.0075	< 0.000005	0.00073	0.0054	< 0.002
AMQ-ENV15-115	IVR14-155	335	345	S10	Chert	Waste	Core		9	0.000036	0.00004	0.00062	0.045	2.3	0.00022	0.14	0.0006	0.00077	26	< 0.0001	0.007	0.00002	0.004	0.00012	4.9	0.00031	0.0056	0.0002	< 0.000005	0.000035	0.0019	< 0.002
Chert - S10								**Minimum**		*0.000036*	*< 0.00003*	*0.00017*	*0.033*	*2.3*	*0.00022*	*0.14*	*0.0006*	*0.00004*	*6.2*	*< 0.0001*	*< 0.003*	*< 0.00001*	*0.001*	*< 0.00004*	*1.6*	*< 0.00001*	*0.0029*	*< 0.00005*	*< 0.000005*	*0.000029*	*< 0.00001*	*< 0.002*
								Maximum		*0.006*	*0.0039*	*0.0049*	*0.31*	*30*	*0.014*	*5.0*	*0.79*	*0.081*	*31*	*0.018*	*0.026*	*0.0081*	*0.017*	*0.15*	*6.3*	*0.00031*	*0.1*	*0.0075*	*0.011*	*0.02*	*0.0088*	*0.004*
								Median		*0.000073*	*0.000065*	*0.00032*	*0.057*	*16*	*0.0018*	*1.8*	*0.0049*	*0.0017*	*10*	*0.0004*	*0.003*	*0.00003*	*0.0036*	*0.00016*	*3.3*	*0.00003*	*0.028*	*0.00056*	*0.000005*	*0.00011*	*0.00098*	*0.002*
								Average		*0.00075*	*0.00041*	*0.00073*	*0.1*	*16*	*0.0035*	*2.1*	*0.061*	*0.0075*	*13*	*0.0025*	*0.0069*	*0.00066*	*0.0043*	*0.011*	*3.4*	*0.000074*	*0.03*	*0.0014*	*0.00082*	*0.0017*	*0.0019*	*0.0021*
								Std. Deviation		*0.0017*	*0.001*	*0.0013*	*0.092*	*8.9*	*0.004*	*1.6*	*0.21*	*0.021*	*7.2*	*0.005*	*0.0072*	*0.0021*	*0.004*	*0.04*	*1.5*	*0.00010*	*0.026*	*0.0021*	*0.003*	*0.0054*	*0.0025*	*0.00053*
								75th Percentile		*0.00025*	*0.00016*	*0.00048*	*0.16*	*22*	*0.0035*	*3.2*	*0.0068*	*0.0031*	*14*	*0.0011*	*0.0065*	*0.00012*	*0.0044*	*0.00036*	*3.9*	*0.000058*	*0.036*	*0.00096*	*0.000005*	*0.0006*	*0.0024*	*0.002*

Appendix E.5
Shake Flask Extraction Results
Waste Rock, Ore, Tailing, Soil and Lake Sediment
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

									Portage Effluent Quality Criteria[a]	6-9				1000				20		1.5	0.0004		1	0.3						0.002
									Vault Effluent Quality Criteria[b]	**6-9**				**500**				**50**		**1**	**0.0004**		**1**	**0.1**						**0.002**
Sample ID	**Borehole ID**	**Depth (m)**		**Lithology Code**	**Rock Name**	**Sample Type**			**Distance to Ore**	**Final pH**	**Alkalinity**	**Conductivity**	**Fluoride**	**Chloride**	**Sulphate**	**Bromide**	**Nitrite (as N)**	**Nitrate (as N)**	**Chromium**	**Phosphorus (total reactive)**	**Mercury**	**Silver**	**Aluminum**	**Arsenic**	**Barium**	**Boron**	**Beryllium**	**Bismuth**	**Calcium**	**Cadmium**
		From	**To**								**mg/L as CaCO3**	**uS/cm**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**as N mg/L**	**as N mg/L**	**µg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
AMQ-ENV15-035	AMQ15-211	36	46	S9E	Iron Formation	Waste	Core		0	**9.6**	24	78	< 0.06	8.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000059	0.24	**0.36**	0.002	0.0071	< 0.000007	0.000019	7.5	< 0.000003
AMQ-ENV15-099	IVR14-089	161	171	S9E	Iron Formation	Waste	Core		0	**9.2**	61	100	< 0.06	3.0	1.0	< 3	< 0.3	< 0.6	0.4	0.08	< 0.00001	0.000004	0.016	**0.9**	0.014	0.016	< 0.000007	< 0.000007	8.0	< 0.000003
AMQ-ENV-17	IVR14-123	168	177	S9E	Iron Formation	Waste	Core		23	**9.8**	34	77	0.08	< 2	< 2	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	< 0.000002	< 0.01	**0.18**	0.0054	0.032	< 0.000007	< 0.000007	4.0	< 0.000003
AMQ-ENV-42	IVR14-118	201	213	S9E	Iron Formation	Waste	Core		16	**9.7**	52	100	0.27	< 2	< 2	< 3	< 0.3	< 0.6	-	< 0.03	< 0.00001	0.000002	**1.8**	0.059	0.0058	0.059	0.000016	< 0.000007	2.9	0.000015
AMQ-ENV-43	IVR14-118	264	276	S9E	Iron Formation	Waste	Core		37	**9.1**	66	152	0.08	< 2	3.3	< 3	< 0.3	< 0.6	-	**1.1**	< 0.00001	< 0.000002	0.01	**4.0**	0.014	0.056	< 0.000007	< 0.000007	8.6	< 0.000003
AMQ-ENV-125	IVR14-152	175	184	S9E	Iron Formation	Waste	Core		12	**9.7**	75	196	0.31	< 2	4.6	< 3	< 0.3	< 0.6	-	**1.1**	< 0.00001	0.000006	0.04	**3.3**	0.0054	0.12	< 0.000007	< 0.000007	3.0	< 0.000003
AMQ-ENV15-027	AMQ15-164	45	55	S9E	Iron Formation	Waste	Core		3	**9.4**	28	94	0.1	9.0	< 1	< 3	< 0.3	< 0.6	0.2	0.25	< 0.00001	0.00001	0.33	**1.4**	0.0033	0.0066	< 0.000007	< 0.000007	7.1	< 0.000003
AMQ-ENV15-034	AMQ15-180	110	119	S9E	Iron Formation	Waste	Core		4	**9.4**	25	83	< 0.06	9.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.43	**0.45**	0.0019	0.0064	< 0.000007	< 0.000007	7.4	< 0.000003
AMQ-ENV15-045	AMQ15-188	115	125	S9E	Iron Formation	Waste	Core		4	**9.5**	33	85	< 0.06	2.0	< 1	< 3	< 0.3	< 0.6	0.4	0.24	< 0.00001	0.000003	0.14	**1.4**	0.0057	0.011	< 0.000007	< 0.000007	5.3	< 0.000003
AMQ-ENV15-038	AMQ15-193	43	53	S9E	Iron Formation	Waste	Core		11	**9.2**	39	115	< 0.06	6.0	1.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000004	0.17	**0.59**	0.006	0.007	< 0.000007	< 0.000007	6.6	< 0.000003
AMQ-ENV15-039	AMQ15-193	85	95	S9E	Iron Formation	Waste	Core		12	**9.9**	35	82	0.07	< 1	< 1	< 3	< 0.3	< 0.6	0.9	0.06	< 0.00001	0.000023	0.015	**0.47**	0.0087	0.015	< 0.000007	< 0.000007	4.9	< 0.000003
AMQ-ENV15-086	IVR14-016	130	140	S9E	Iron Formation	Waste	Core		6	**9.8**	44	129	< 0.06	5.0	2.0	< 3	< 0.3	< 0.6	4.0	**1.8**	< 0.00001	0.000002	0.04	**4.9**	0.01	0.016	< 0.000007	< 0.000007	4.9	< 0.000003
AMQ-ENV15-021	AMQ15-161	138	148	S9E	Iron Formation	Waste	Core		7	**9.8**	32	79	< 0.06	2.0	< 1	< 3	< 0.3	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.041	**0.3**	0.022	0.012	< 0.000007	< 0.000007	5.0	< 0.000003
AMQ-ENV15-040	AMQ15-178	40	50	S9E	Iron Formation	Waste	Core		35	**9.7**	31	69	< 0.06	1.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.021	0.016	0.023	0.0077	< 0.000007	< 0.000007	5.3	< 0.000003
AMQ-ENV15-041	AMQ15-178	90	100	S9E	Iron Formation	Waste	Core		36	**9.6**	27	61	< 0.06	< 1	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.026	0.0092	0.011	0.011	< 0.000007	< 0.000007	3.6	< 0.000003
AMQ-ENV15-010	AMQ15-232	116	124	S9E	Iron Formation	Waste	Core		5	**9.5**	38	112	< 0.06	12	2.0	< 3	< 0.3	< 0.6	0.3	0.2	< 0.00001	0.000022	0.26	**1.6**	0.0078	0.0081	< 0.000007	0.00002	6.3	< 0.000003
AMQ-ENV-47	IVR14-016	130	140	S9E	Iron Formation	Waste	Reject		6	**9.3**	53	168	0.1	< 2	12	< 3	< 0.3	< 0.6	13	**3.5**	< 0.00001	0.000002	0.041	**7.1**	0.0082	0.025	< 0.000007	< 0.000007	5.5	< 0.000003
AMQ-ENV-56	IVR14-055	95	105	S9E	Iron Formation	Waste	Reject		8	8.8	44	307	0.16	33	30	< 3	< 0.3	< 0.6	1.3	**3.3**	< 0.00001	0.000008	0.036	**7.4**	0.0058	0.054	< 0.000007	< 0.000007	14	< 0.000003
AMQ-ENV-57	IVR14-056	21	31	S9E	Iron Formation	Waste	Reject		9	8.6	26	370	0.08	3.3	110	< 3	< 0.3	< 0.6	0.3	**1.5**	< 0.00001	0.000021	0.09	**4.6**	0.011	0.018	< 0.000007	< 0.000007	30	< 0.000003
AMQ-ENV-59	IVR14-056	80	90	S9E	Iron Formation	Waste	Reject		34	**9.6**	65	145	0.23	< 2	2.1	< 3	< 0.3	< 0.6	1.0	0.12	< 0.00001	0.000003	0.015	**0.62**	0.0031	0.074	< 0.000007	< 0.000007	3.3	< 0.000003
AMQ-ENV-72	IVR14-097	99	111	S9E	Iron Formation	Waste	Reject		21	**9.4**	62	161	0.13	2.9	3.5	< 3	< 0.3	< 0.6	1.6	**1.1**	< 0.00001	0.000002	0.054	**3.4**	0.042	0.023	< 0.000007	< 0.000007	5.2	< 0.000003
AMQ-ENV-64	IVR14-092	216	227	S9E	Iron Formation	Waste	Reject		17	**9.8**	67	173	0.3	< 2	5.0	< 3	< 0.3	< 0.6	8.4	**1.7**	< 0.00001	0.000002	0.061	**4.5**	0.0066	0.12	< 0.000007	0.000009	3.0	< 0.000003
								Minimum		*8.6*	*24*	*61*	*< 0.06*	*< 1*	*< 1*	*< 3*	*< 0.3*	*< 0.6*	*< 0.2*	*< 0.03*	*< 0.00001*	*< 0.000002*	*< 0.01*	*0.0092*	*0.0019*	*0.0064*	*< 0.000007*	*< 0.000007*	*2.9*	*< 0.000003*
								Maximum		*9.9*	*75*	*370*	*0.31*	*33*	*110*	*< 3*	*< 0.3*	*< 0.6*	*13*	*3.5*	*< 0.00001*	*0.000059*	*1.8*	*7.4*	*0.042*	*0.12*	*0.000016*	*0.00002*	*30*	*0.000015*
Iron Formation - S9E								**Median**		*9.5*	*39*	*106*	*0.075*	*2.0*	*2.0*	*nc*	*nc*	*nc*	*0.4*	*0.16*	*nc*	*0.0000025*	*0.041*	*1.1*	*0.0072*	*0.016*	*0.000007*	*0.000007*	*5.3*	*0.000003*
								Average		*9.3*	*44*	*133*	*0.11*	*5.1*	*8.6*	*nc*	*nc*	*nc*	*1.8*	*0.74*	*nc*	*0.0000084*	*0.18*	*2.2*	*0.01*	*0.032*	*0.0000074*	*0.0000082*	*6.9*	*0.0000035*
								Std. Deviation		*nc*	*16*	*77*	*0.084*	*7.0*	*24*	*nc*	*nc*	*nc*	*3.2*	*1.1*	*nc*	*0.000013*	*0.38*	*2.3*	*0.009*	*0.034*	*0.0000019*	*0.0000037*	*5.8*	*0.0000026*
								75th Percentile		*nc*	*59*	*159*	*0.12*	*5.8*	*3.5*	*nc*	*nc*	*nc*	*1.2*	*1.1*	*nc*	*0.0000075*	*0.16*	*3.8*	*0.011*	*0.049*	*0.000007*	*0.000007*	*7.3*	*0.000003*
AMQ-ENV-114	IVR14-144	16	25	8b	Intermediate Intrusive	Waste	Core		381	**9.7**	51	120	0.27	< 2	3.1	< 3	< 0.3	< 0.6	-	0.09	< 0.00001	0.000003	**1.4**	0.029	0.0076	0.058	0.000017	< 0.000007	1.9	< 0.000003
AMQ-ENV15-002	AMQ15-187	18	25	8b	Intermediate Intrusive	Waste	Core		66	**9.3**	38	128	0.19	8.0	8.0	< 3	< 0.3	< 0.6	< 0.2	0.03	< 0.00001	< 0.000002	0.42	0.024	0.012	0.027	< 0.000007	< 0.000007	6.3	< 0.000003
AMQ-ENV15-100	IVR14-087	9	18	8b	Intermediate Intrusive	Waste	Core		128	**9.5**	45	112	0.25	3.0	1.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	**1.0**	0.012	0.0039	0.028	< 0.000007	< 0.000007	3.0	< 0.000003
AMQ-ENV15-077	IVR14-156	15	25	8b	Intermediate Intrusive	Waste	Core		95	**9.6**	43	98	0.18	2.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	**1.0**	0.021	0.0083	0.024	< 0.000007	< 0.000007	3.7	< 0.000003
AMQ-ENV-65	IVR14-110	70	80	8b	Intermediate Intrusive	Waste	Reject		274	**9.6**	52	172	0.33	10	14	< 3	< 0.3	< 0.6	0.6	< 0.03	< 0.00001	0.000002	0.57	0.049	0.0022	0.082	< 0.000007	< 0.000007	4.0	< 0.000003
								Minimum		*9.3*	*38*	*98*	*0.18*	*< 2*	*< 1*	*< 3*	*< 0.3*	*< 0.6*	*< 0.2*	*< 0.03*	*< 0.00001*	*< 0.000002*	*0.42*	*0.012*	*0.0022*	*0.024*	*< 0.000007*	*< 0.000007*	*1.9*	*< 0.000003*
								Maximum		*9.7*	*52*	*172*	*0.33*	*10*	*14*	*< 3*	*< 0.3*	*< 0.6*	*0.6*	*0.09*	*< 0.00001*	*0.000003*	*1.4*	*0.049*	*0.012*	*0.082*	*0.000017*	*< 0.000007*	*6.3*	*< 0.000003*
Intermediate Intrusive - 8b								**Median**		*9.6*	*45*	*120*	*0.25*	*3.0*	*3.1*	*nc*	*nc*	*nc*	*0.2*	*0.03*	*nc*	*0.000002*	*1.0*	*0.024*	*0.0076*	*0.028*	*0.000007*	*nc*	*3.7*	*nc*
								Average		*9.5*	*46*	*126*	*0.24*	*5.0*	*5.4*	*nc*	*nc*	*nc*	*0.3*	*0.042*	*nc*	*0.0000022*	*0.89*	*0.027*	*0.0069*	*0.044*	*0.000009*	*nc*	*3.8*	*nc*
								Std. Deviation		*nc*	*5.8*	*28*	*0.061*	*3.7*	*5.6*	*nc*	*nc*	*nc*	*0.22*	*0.027*	*nc*	*0.00000045*	*0.39*	*0.014*	*0.0039*	*0.025*	*0.0000045*	*nc*	*1.6*	*nc*
								75th Percentile		*nc*	*51*	*128*	*0.27*	*8.0*	*8.0*	*nc*	*nc*	*nc*	*0.3*	*0.03*	*nc*	*0.000002*	*1.0*	*0.029*	*0.0083*	*0.058*	*0.000007*	*nc*	*4.0*	*nc*

Appendix E.5
Shake Flask Extraction Results
Waste Rock, Ore, Tailing, Soil and Lake Sediment
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

									Portage Effluent Quality Criteria[a]				0.1										0.2	1	0.1									0.4
									Vault Effluent Quality Criteria[b]				**0.1**										**0.2**	**1.5**	**0.1**									**0.2**
Sample ID	**Borehole ID**	**Depth (m)**		**Lithology Code**	**Rock Name**	**Sample Type**			**Distance to Ore**	**Cobalt**	**Chromium**	**Copper**	**Iron**	**Potassium**	**Lithium**	**Magnesium**	**Manganese**	**Molybdenum**	**Sodium**	**Nickel**	**Phosphorus**	**Lead**	**Antimony**	**Selenium**	**Silicon**	**Tin**	**Strontium**	**Titanium**	**Thallium**	**Uranium**	**Vanadium**	**Zinc**
		From	**To**							**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
AMQ-ENV15-035	AMQ15-211	36	46	S9E	Iron Formation	Waste	Core		0	0.000054	0.00031	0.00041	0.051	7.2	0.00093	1.1	0.0026	0.00009	0.74	0.0009	< 0.003	0.00001	0.0058	0.00006	3.8	0.00002	0.016	0.00035	< 0.000005	0.000006	0.0035	< 0.002
AMQ-ENV15-099	IVR14-089	161	171	S9E	Iron Formation	Waste	Core		0	0.000057	0.00038	0.00018	0.01	4.7	0.000031	4.8	0.00022	0.00002	0.39	0.0019	< 0.003	< 0.00001	0.014	< 0.00004	3.9	< 0.00001	0.073	< 0.00005	0.000014	< 0.000002	0.0043	< 0.002
AMQ-ENV-17	IVR14-123	168	177	S9E	Iron Formation	Waste	Core		23	0.000016	0.00029	0.00027	< 0.002	13	0.000026	0.71	< 0.00001	0.00005	2.5	0.0002	< 0.009	< 0.00001	0.0035	< 0.001	7.4	0.00002	0.031	0.0017	0.000047	< 0.000002	0.0096	< 0.001
AMQ-ENV-42	IVR14-118	201	213	S9E	Iron Formation	Waste	Core		16	0.00024	0.00096	0.00039	0.22	7.2	0.0015	0.23	0.0045	0.00054	15	0.0008	0.021	0.00041	0.0041	< 0.001	5.8	0.00005	0.0093	0.014	0.000007	0.00088	0.011	< 0.001
AMQ-ENV-43	IVR14-118	264	276	S9E	Iron Formation	Waste	Core		37	0.00035	0.0012	0.0002	< 0.002	15	0.00041	5.4	0.0008	0.00015	4.6	0.0095	< 0.009	0.00004	0.026	< 0.001	5.2	0.00003	0.098	0.00015	0.000061	0.000008	0.0095	< 0.001
AMQ-ENV-125	IVR14-152	175	184	S9E	Iron Formation	Waste	Core		12	0.00012	0.0047	0.00022	0.061	29	0.00037	0.66	0.001	0.00029	15	0.0016	< 0.009	0.00002	0.037	< 0.001	12	0.00005	0.04	0.0019	0.000005	0.000012	0.029	< 0.001
AMQ-ENV15-027	AMQ15-164	45	55	S9E	Iron Formation	Waste	Core		3	0.000053	0.00036	0.00014	0.031	13	0.0011	0.79	0.0016	0.00015	0.91	0.0019	< 0.003	< 0.00001	0.02	0.00008	3.0	< 0.00001	0.021	0.00024	< 0.000005	0.000008	0.0055	< 0.002
AMQ-ENV15-034	AMQ15-180	110	119	S9E	Iron Formation	Waste	Core		4	0.000042	0.00009	0.00015	0.019	8.5	0.00022	0.8	0.00095	0.00025	1.2	0.0015	< 0.003	< 0.00001	0.0093	0.00007	2.2	< 0.00001	0.025	0.00011	< 0.000005	< 0.000002	0.0022	< 0.002
AMQ-ENV15-045	AMQ15-188	115	125	S9E	Iron Formation	Waste	Core		4	0.000059	0.00033	0.00012	0.008	9.9	0.00059	1.3	0.00041	0.00009	3.4	0.0013	< 0.003	< 0.00001	0.016	0.00006	4.2	< 0.00001	0.025	0.00005	< 0.000005	< 0.000002	0.0072	< 0.002
AMQ-ENV15-038	AMQ15-193	43	53	S9E	Iron Formation	Waste	Core		11	0.000073	0.00014	0.0025	0.02	18	0.002	2.3	0.002	0.00015	1.2	0.0021	< 0.003	0.00005	0.015	0.00012	3.0	0.00023	0.026	0.00009	< 0.000005	0.000002	0.0033	< 0.002
AMQ-ENV15-039	AMQ15-193	85	95	S9E	Iron Formation	Waste	Core		12	0.000046	0.00082	0.0001	< 0.007	12	0.00032	1.6	0.00008	0.00003	0.43	0.0018	< 0.003	< 0.00001	0.013	< 0.00004	7.2	< 0.00001	0.041	< 0.00005	< 0.000005	< 0.000002	0.0062	< 0.002
AMQ-ENV15-086	IVR14-016	130	140	S9E	Iron Formation	Waste	Core		6	0.00012	0.0046	0.00041	0.034	28	0.00011	0.72	0.0007	0.00008	1.4	0.0016	0.003	0.00002	0.027	0.00037	13	0.00008	0.046	0.00086	< 0.000005	< 0.000002	0.027	< 0.002
AMQ-ENV15-021	AMQ15-161	138	148	S9E	Iron Formation	Waste	Core		7	0.000034	0.00031	0.0026	0.008	12	0.00026	1.0	0.00014	0.0001	1.2	0.0006	< 0.003	0.00004	0.0096	0.00012	5.4	0.0006	0.12	< 0.00005	0.000011	< 0.000002	0.0054	0.002
AMQ-ENV15-040	AMQ15-178	40	50	S9E	Iron Formation	Waste	Core		35	0.00002	< 0.00003	0.0002	< 0.007	7.7	0.000088	1.8	0.00011	0.00006	0.39	0.0001	< 0.003	< 0.00001	0.0051	0.00015	3.3	< 0.00001	0.043	< 0.00005	0.000035	< 0.000002	0.0032	< 0.002
AMQ-ENV15-041	AMQ15-178	90	100	S9E	Iron Formation	Waste	Core		36	0.000024	< 0.00003	0.00011	< 0.007	8.2	0.000097	1.6	0.00004	0.00007	0.66	0.0002	< 0.003	< 0.00001	0.0032	0.00013	3.1	< 0.00001	0.051	< 0.00005	0.000021	< 0.000002	0.0019	< 0.002
AMQ-ENV15-010	AMQ15-232	116	124	S9E	Iron Formation	Waste	Core		5	0.000079	0.00055	0.00024	0.031	18	0.0031	0.83	0.0017	0.00021	1.3	0.002	< 0.003	0.00002	0.01	0.00013	3.4	0.00004	0.022	0.00031	< 0.000005	0.000009	0.0062	< 0.002
AMQ-ENV-47	IVR14-016	130	140	S9E	Iron Formation	Waste	Reject		6	0.000052	0.013	0.00012	0.008	40	0.0009	1.8	0.00043	0.00024	1.6	0.0021	0.011	< 0.00001	0.053	< 0.001	7.5	0.00002	0.053	0.00036	< 0.000005	0.000078	0.038	< 0.001
AMQ-ENV-56	IVR14-055	95	105	S9E	Iron Formation	Waste	Reject		8	0.0002	0.0017	0.00035	0.028	28	0.011	2.5	0.0019	0.00096	25	0.012	0.009	< 0.00001	0.11	< 0.001	5.4	0.00005	0.017	0.00052	< 0.000005	0.000075	0.014	< 0.001
AMQ-ENV-57	IVR14-056	21	31	S9E	Iron Formation	Waste	Reject		9	0.00051	0.00051	0.00026	0.014	44	0.013	6.7	0.012	0.00069	1.8	0.031	0.004	< 0.00001	0.054	< 0.001	4.2	0.00003	0.026	0.00035	< 0.000005	0.000044	0.0065	< 0.001
AMQ-ENV-59	IVR14-056	80	90	S9E	Iron Formation	Waste	Reject		34	0.000096	0.0016	0.00017	0.024	24	0.0005	1.2	0.00037	0.0017	12	0.0019	0.004	0.00004	0.013	< 0.001	5.6	0.00004	0.025	0.00063	0.000009	0.000015	0.014	< 0.001
AMQ-ENV-72	IVR14-097	99	111	S9E	Iron Formation	Waste	Reject		21	0.00003	0.0017	0.00028	< 0.007	36	0.0012	2.3	0.00045	0.00073	2.9	0.0011	0.005	< 0.00001	0.024	< 0.001	5.4	0.00002	0.082	0.00025	< 0.000005	0.000034	0.017	< 0.001
AMQ-ENV-64	IVR14-092	216	227	S9E	Iron Formation	Waste	Reject		17	0.00018	0.011	0.00022	0.072	30	0.00062	0.79	0.0018	0.00066	16	0.0021	0.014	0.00004	0.029	< 0.001	11	0.00005	0.042	0.0033	0.00036	0.00004	0.027	< 0.001
								Minimum		*0.000016*	*< 0.00003*	*0.0001*	*< 0.002*	*4.7*	*0.000026*	*0.23*	*< 0.00001*	*0.00002*	*0.39*	*0.0001*	*< 0.003*	*< 0.00001*	*0.0032*	*< 0.00004*	*2.2*	*< 0.00001*	*0.0093*	*< 0.00005*	*< 0.000005*	*< 0.000002*	*0.0019*	*< 0.001*
								Maximum		*0.00051*	*0.013*	*0.0026*	*0.22*	*44*	*0.013*	*6.7*	*0.012*	*0.0017*	*25*	*0.031*	*0.021*	*0.00041*	*0.11*	*0.001*	*13*	*0.0006*	*0.12*	*0.014*	*0.00036*	*0.00088*	*0.038*	*0.002*
Iron Formation - S9E								**Median**		*0.000058*	*0.00053*	*0.00022*	*0.017*	*14*	*0.00054*	*1.2*	*0.00075*	*0.00015*	*1.5*	*0.0017*	*0.003*	*0.00001*	*0.014*	*0.00026*	*5.3*	*0.000025*	*0.035*	*0.00028*	*0.000005*	*0.000007*	*0.0068*	*0.002*
								Average		*0.00011*	*0.002*	*0.00044*	*0.031*	*19*	*0.0018*	*1.8*	*0.0015*	*0.00033*	*5.0*	*0.0035*	*0.006*	*0.000037*	*0.023*	*0.00052*	*5.7*	*0.000064*	*0.042*	*0.0011*	*0.000029*	*0.000056*	*0.011*	*0.0015*
								Std. Deviation		*0.00012*	*0.0034*	*0.00068*	*0.047*	*12*	*0.0035*	*1.7*	*0.0025*	*0.00041*	*6.8*	*0.0067*	*0.0047*	*0.000084*	*0.024*	*0.00046*	*2.9*	*0.00013*	*0.028*	*0.0029*	*0.000075*	*0.00019*	*0.01*	*0.00051*
								75th Percentile		*0.00012*	*0.0016*	*0.00033*	*0.031*	*28*	*0.0012*	*2.2*	*0.0018*	*0.00048*	*4.3*	*0.0021*	*0.009*	*0.000035*	*0.027*	*0.001*	*6.9*	*0.00005*	*0.05*	*0.0006*	*0.000013*	*0.000029*	*0.014*	*0.002*
AMQ-ENV-114	IVR14-144	16	25	8b	Intermediate Intrusive	Waste	Core		381	0.00018	0.0015	0.00036	0.55	12	0.0028	0.31	0.007	0.0092	15	0.0007	0.1	0.0002	0.0022	< 0.001	4.3	0.00039	0.0055	0.032	0.000009	0.00066	0.014	0.001
AMQ-ENV15-002	AMQ15-187	18	25	8b	Intermediate Intrusive	Waste	Core		66	0.000057	0.00004	0.0002	0.036	11	0.0017	0.67	0.00038	0.0035	9.9	0.0001	0.039	0.0001	0.0022	0.0016	2.5	0.00003	0.024	0.0018	< 0.000005	0.00027	0.0065	< 0.002
AMQ-ENV15-100	IVR14-087	9	18	8b	Intermediate Intrusive	Waste	Core		128	0.000061	0.00019	0.00011	0.14	14	0.00072	0.32	0.001	0.0023	8.6	0.0001	0.049	0.00035	0.0015	0.00006	2.1	< 0.00001	0.009	0.0064	< 0.000005	0.00023	0.0072	< 0.002
AMQ-ENV15-077	IVR14-156	15	25	8b	Intermediate Intrusive	Waste	Core		95	0.00005	0.00006	0.00028	0.045	9.5	0.0008	0.21	0.00043	0.0035	9.7	< 0.0001	0.029	0.00003	0.0024	0.00019	2.9	0.00002	0.012	0.0026	< 0.000005	0.00052	0.012	< 0.002
AMQ-ENV-65	IVR14-110	70	80	8b	Intermediate Intrusive	Waste	Reject		274	0.00028	0.00065	0.00042	0.044	19	0.0012	0.58	0.002	0.0026	21	0.0004	0.012	0.00003	0.0038	< 0.001	2.0	0.00004	0.011	0.0021	< 0.000005	0.00021	0.007	< 0.001
								Minimum		*0.00005*	*0.00004*	*0.00011*	*0.036*	*9.5*	*0.00072*	*0.21*	*0.00038*	*0.0023*	*8.6*	*< 0.0001*	*0.012*	*0.00003*	*0.0015*	*< 0.00006*	*2.0*	*< 0.00001*	*0.0055*	*0.0018*	*< 0.000005*	*0.00021*	*0.0065*	*< 0.001*
								Maximum		*0.00028*	*0.0015*	*0.00042*	*0.55*	*19*	*0.0028*	*0.67*	*0.007*	*0.0092*	*21*	*0.0007*	*0.1*	*0.00035*	*0.0038*	*0.0016*	*4.3*	*0.00039*	*0.024*	*0.032*	*0.000009*	*0.00066*	*0.014*	*0.002*
Intermediate Intrusive - 8b								**Median**		*0.000061*	*0.00019*	*0.00028*	*0.045*	*12*	*0.0012*	*0.32*	*0.001*	*0.0035*	*9.9*	*0.0001*	*0.039*	*0.0001*	*0.0022*	*0.001*	*2.5*	*0.00003*	*0.011*	*0.0026*	*0.000005*	*0.00027*	*0.0072*	*0.002*
								Average		*0.00012*	*0.00049*	*0.00027*	*0.16*	*13*	*0.0015*	*0.42*	*0.0022*	*0.0042*	*13*	*0.00028*	*0.047*	*0.00014*	*0.0024*	*0.00077*	*2.7*	*0.000098*	*0.012*	*0.0089*	*0.0000058*	*0.00038*	*0.0093*	*0.0016*
								Std. Deviation		*0.0001*	*0.00063*	*0.00012*	*0.22*	*3.7*	*0.00087*	*0.2*	*0.0028*	*0.0028*	*5.0*	*0.00027*	*0.035*	*0.00014*	*0.00084*	*0.00064*	*0.91*	*0.00016*	*0.0068*	*0.013*	*0.0000018*	*0.0002*	*0.0033*	*0.00055*
								75th Percentile		*0.00018*	*0.00065*	*0.00036*	*0.14*	*14*	*0.0017*	*0.58*	*0.002*	*0.0035*	*15*	*0.0004*	*0.049*	*0.0002*	*0.0024*	*0.001*	*2.9*	*0.00004*	*0.012*	*0.0064*	*0.000005*	*0.00052*	*0.012*	*0.002*

Appendix E.5
Shake Flask Extraction Results
Waste Rock, Ore, Tailing, Soil and Lake Sediment
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

									Portage Effluent Quality Criteria[a]		6-9				1000					20		1.5	0.0004		1	0.3					0.002
									Vault Effluent Quality Criteria[b]		6-9				500					50		1	0.0004		1	0.1					0.002
Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample Type			Distance to Ore	Final pH	Alkalinity	Conductivity	Fluoride	Chloride	Sulphate	Bromide	Nitrite (as N)	Nitrate (as N)	Chromium	Phosphorus (total reactive)	Mercury	Silver	Aluminum	Arsenic	Barium	Boron	Beryllium	Bismuth	Calcium	Cadmium
		From	To								mg/L as CaCO3	uS/cm	mg/L	mg/L	mg/L	mg/L	as N mg/L	as N mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMQ-ENV-01	IVR14-130	11	20	1b	Mafic Volcanic (near UM contact)	Waste	Core		50	**9.3**	41	205	0.09	< 2	50	< 3	< 0.3	< 0.6	-	0.14	< 0.00001	< 0.000002	0.02	**0.85**	0.091	0.016	< 0.000007	< 0.000007	12	< 0.000003
AMQ-ENV-07	IVR14-116	16	25	1b	Mafic Volcanic	Waste	Core		47	**9.2**	37	204	0.84	< 2	44	< 3	< 0.3	< 0.6	-	0.04	< 0.00001	0.000007	0.05	0.044	0.21	0.01	< 0.000007	< 0.000007	17	< 0.000003
AMQ-ENV-08	IVR14-116	30	39	1b	Mafic Volcanic	Waste	Core		36	**9.7**	37	141	0.69	< 2	19	< 3	< 0.3	< 0.6	-	0.09	< 0.00001	0.000002	0.12	0.04	0.2	0.0085	0.00001	< 0.000007	7.8	0.000004
AMQ-ENV-118	IVR14-151	200	209	1b	Mafic Volcanic	Waste	Core		31	**10**	61	148	0.25	< 2	2.2	< 3	< 0.3	< 0.6	-	0.03	< 0.00001	< 0.000002	0.15	0.093	0.0048	0.057	< 0.000007	< 0.000007	1.9	< 0.000003
AMQ-ENV15-104	IVR14-087	100	110	1b	Mafic Volcanic	Waste	Core		31	**9.9**	41	101	0.11	1.0	1.0	< 3	< 0.3	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.062	0.0071	0.032	0.0097	< 0.000007	< 0.000007	3.3	0.000005
AMQ-ENV15-094	IVR14-091	41	51	1b	Mafic Volcanic	Waste	Core		42	**10.0**	39	93	0.2	1.0	1.0	< 3	< 0.3	< 0.6	0.5	< 0.03	< 0.00001	< 0.000002	0.094	0.027	0.02	0.0074	< 0.000007	< 0.000007	3.9	< 0.000003
AMQ-ENV15-024	IVR14-141	38	47	1b	Mafic Volcanic	Waste	Core		67	**9.9**	50	80	0.13	< 1	< 1	< 3	< 0.3	< 0.6	0.6	0.04	< 0.00001	< 0.000002	0.18	0.019	0.0061	0.0079	< 0.000007	< 0.000007	4.6	< 0.000003
AMQ-ENV-51	IVR14-103	218	228	1b	Mafic Volcanic (prev. logged GW)	Waste	Reject		36	**9.8**	51	124	0.27	< 2	2.6	< 3	< 0.3	< 0.6	2.6	0.56	< 0.00001	< 0.000002	0.097	**1.9**	0.003	0.096	< 0.000007	< 0.000007	2.5	< 0.000003
Mafic Volcanic - 1b								**Minimum**		*9.2*	*37*	*80*	*0.09*	*< 1*	*< 1*	*< 3*	*< 0.3*	*< 0.6*	*< 0.4*	*< 0.03*	*< 0.00001*	*< 0.000002*	*0.02*	*0.0071*	*0.003*	*0.0074*	*< 0.000007*	*< 0.000007*	*1.9*	*< 0.000003*
								Maximum		*10*	*61*	*205*	*0.84*	*2.0*	*50*	*< 3*	*< 0.3*	*< 0.6*	*2.6*	*0.56*	*< 0.00001*	*0.000007*	*0.18*	*1.9*	*0.21*	*0.096*	*0.00001*	*< 0.000007*	*17*	*0.000005*
								Median		*9.8*	*41*	*133*	*0.23*	*2.0*	*2.4*	*nc*	*nc*	*nc*	*0.55*	*0.04*	*nc*	*0.000002*	*0.096*	*0.042*	*0.026*	*0.0099*	*0.000007*	*nc*	*4.3*	*0.000003*
								Average		*9.6*	*45*	*137*	*0.32*	*1.6*	*15*	*nc*	*nc*	*nc*	*1.0*	*0.12*	*nc*	*0.0000026*	*0.097*	*0.37*	*0.07*	*0.027*	*0.0000074*	*nc*	*6.6*	*0.0000034*
								Std. Deviation		*nc*	*8.6*	*48*	*0.28*	*0.52*	*21*	*nc*	*nc*	*nc*	*0.88*	*0.18*	*nc*	*0.0000018*	*0.054*	*0.66*	*0.087*	*0.033*	*0.0000011*	*nc*	*5.2*	*0.00000074*
								75th Percentile		*nc*	*50*	*162*	*0.38*	*2.0*	*25*	*nc*	*nc*	*nc*	*1.1*	*0.1*	*nc*	*0.000002*	*0.13*	*0.28*	*0.12*	*0.027*	*0.000007*	*nc*	*8.9*	*0.0000033*
AMQ-ENV15-089	IVR14-079	78	88	S9E	Ultramafic	Ore	Core		0	8.9	40	210	0.09	38	6.0	< 3	< 0.3	< 0.6	< 0.2	0.63	< 0.00001	0.000021	0.16	**3.1**	0.01	0.011	< 0.000007	0.000022	11	< 0.000003
AMQ-ENV15-134	AMQ15-433-02	32	42	S10	ALTV41	Ore	Core		-	8.5	70	304	0.24	53	17	< 3	< 0.3	< 0.6	0.3	< 0.03	< 0.00001	0.00001	0.035	0.019	0.013	0.39	0.00019	0.023	11	0.0012
AMQ-ENV15-135	AMQ15-433-03	67	75	0a	ALTV42	Ore	Core		-	**9.6**	65	201	0.22	8.0	8.0	< 3	< 0.3	< 0.6	4.0	**2.2**	< 0.00001	0.000003	0.055	**7.6**	0.0091	0.24	0.00011	0.0066	4.7	0.00099
AMQ-ENV15-136	AMQ15-438-01	32	33	S10	QZ3	Ore	Core		-	**9.7**	70	174	0.28	3.0	3.0	< 3	< 0.3	< 0.6	0.7	0.04	< 0.00001	< 0.000002	0.12	**0.18**	0.013	0.2	0.000096	0.0025	2.7	0.00081
AMQ-ENV15-137	AMQ15-438-02	33	38	0a	QZ4	Ore	Core		-	**9.3**	70	177	0.22	5.0	4.0	< 3	< 0.3	< 0.6	0.6	0.11	< 0.00001	< 0.000002	0.004	**0.88**	0.039	0.2	0.00011	0.0042	7.8	0.00074
AMQ-ENV15-138	AMQ15-438-03	66	78	S10/UM	QZ2	Ore	Core		-	8.6	57	210	0.18	36	2.0	< 3	< 0.3	< 0.6	0.2	< 0.03	< 0.00001	0.000005	0.026	0.053	0.01	0.13	0.00014	0.0038	19	0.0013
AMQ-ENV15-139	AMQ15-438-04	88	98	S10	QZ2	Ore	Core		-	**9.2**	62	184	0.26	18	2.0	< 3	< 0.3	< 0.6	0.3	< 0.03	< 0.00001	0.000002	0.23	**0.22**	0.0065	0.12	0.00011	0.0027	4.2	0.001
AMQ-ENV15-140	AMQ15-481-01	190	200	S3C	QZ3	Ore	Core		-	**9.7**	59	134	0.26	1.0	2.0	< 3	< 0.3	< 0.6	0.4	0.06	< 0.00001	< 0.000002	0.97	**0.22**	0.0074	0.12	0.0001	0.0016	2.2	0.00087
AMQ-ENV15-142	AMQ15-481-03	254	259	S3C	QZ2	Ore	Core		-	**9.6**	50	112	0.33	2.0	1.0	< 3	< 0.3	< 0.6	0.3	< 0.03	< 0.00001	0.00029	0.8	0.02	0.0027	0.072	0.000031	0.00037	3.8	0.00025
AMQ-ENV15-143	AMQ15-481-04	262	272	S3C	QZ2	Ore	Core		-	**9.7**	56	129	0.65	1.0	2.0	< 3	< 0.3	< 0.6	0.4	< 0.03	< 0.00001	0.000041	0.97	0.021	0.0035	0.081	0.000029	0.0003	2.8	0.00019
AMQ-ENV15-144	AMQ15-481-05	390	400	S3C	ALTV41	Ore	Core		-	8.9	66	238	0.25	40	< 1	< 3	< 0.3	< 0.6	0.4	0.1	< 0.00001	0.0012	0.16	**0.9**	0.0086	0.11	0.000024	0.0003	8.1	0.00016
AMQ-ENV15-076	IVR14-156	145	155	0b	Ultramafic	Ore	Core		0	8.4	70	331	0.1	49	44	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.00011	0.044	**0.28**	0.091	0.023	< 0.000007	0.00001	21	< 0.000003
AMQ-ENV-52	IVR14-084	72	84	0b	Ultramafic	Ore	Reject		0	8.5	49	285	0.11	< 2	75	< 3	< 0.3	< 0.6	0.3	0.24	< 0.00001	0.000037	0.049	**1.4**	0.035	0.026	< 0.000007	< 0.000007	20	< 0.000003
Ore								**Minimum**		*8.4*	*40*	*112*	*0.09*	*< 1*	*< 1*	*< 3*	*< 0.3*	*< 0.6*	*< 0.2*	*< 0.03*	*< 0.00001*	*< 0.000002*	*0.004*	*0.019*	*0.0027*	*0.011*	*< 0.000007*	*< 0.000007*	*2.2*	*< 0.000003*
								Maximum		*9.7*	*70*	*331*	*0.65*	*53*	*75*	*< 3*	*< 0.3*	*< 0.6*	*4.0*	*2.2*	*< 0.00001*	*0.0012*	*0.97*	*7.6*	*0.091*	*0.39*	*0.00019*	*0.023*	*21*	*0.0013*
								Median		*9.2*	*62*	*201*	*0.24*	*8.0*	*3.0*	*nc*	*nc*	*nc*	*0.3*	*0.04*	*nc*	*0.00001*	*0.12*	*0.22*	*0.01*	*0.12*	*0.000096*	*0.0016*	*7.8*	*0.00074*
								Average		*8.9*	*60*	*207*	*0.25*	*20*	*13*	*nc*	*nc*	*nc*	*0.64*	*0.27*	*nc*	*0.00013*	*0.28*	*1.1*	*0.019*	*0.13*	*0.000074*	*0.0035*	*9.1*	*0.00057*
								Std. Deviation		*nc*	*9.6*	*68*	*0.14*	*20*	*22*	*nc*	*nc*	*nc*	*1.0*	*0.59*	*nc*	*0.00033*	*0.37*	*2.1*	*0.024*	*0.11*	*0.00006*	*0.0061*	*6.9*	*0.00048*
								75th Percentile		*nc*	*70*	*238*	*0.26*	*38*	*8.0*	*nc*	*nc*	*nc*	*0.4*	*0.11*	*nc*	*0.000041*	*0.23*	*0.9*	*0.013*	*0.2*	*0.00011*	*0.0038*	*11*	*0.00099*
RE-13872/RE-13874	-	-		-	Processed ore	Tailing	milling reject		0	*8.2*	*65*	*1620*	*0.06*	*< 2*	*720*	*< 3*	*< 0.3*	*< 0.6*	*< 0.2*	*< 0.03*	*< 0.00001*	*0.000012*	*0.0091*	*0.023*	*0.012*	*0.027*	*< 0.000007*	*< 0.000007*	*159*	*0.000014*
AMQ-ENV15-116	-	surface		-	Overburden	Waste	grab		-	**5.7**	22	56	0.09	1.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.00001	0.64	0.01	0.0058	0.048	0.000023	0.000009	0.37	0.000006
AMQ-ENV15-130	-	surface		-	Overburden	Waste	grab		-	**5.3**	20	60	0.2	2.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000021	0.72	0.0027	0.011	0.059	0.000075	0.000018	1.8	0.000013
AMQ-ENV15-131	-	surface		-	Overburden	Waste	grab		-	**5.9**	16	45	0.23	< 1	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	0.33	0.0054	0.0045	0.037	0.000023	0.000009	0.13	0.000003
AMQ-ENV15-132	-	surface		-	Overburden	Waste	grab		-	6.9	16	44	0.42	< 1	1.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000005	0.44	0.0019	0.0071	0.033	0.000043	0.000009	0.12	0.000004
AMQ-ENV15-117	-	surface		-	Overburden	Waste	grab		-	6.8	17	42	0.13	1.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000019	**1.1**	0.003	0.011	0.043	0.000041	0.000012	0.27	0.000006
AMQ-ENV15-118	-	surface		-	Overburden	Waste	grab		-	**5.2**	16	48	0.09	2.0	< 1	< 3	< 0.3	< 0.6	0.2	< 0.03	< 0.00001	0.000008	0.46	0.0025	0.007	0.033	0.000032	0.00001	1.0	0.000004
AMQ-ENV15-119	-	surface		-	Overburden	Waste	grab		-	**5.4**	15	36	0.09	1.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000014	0.91	0.0047	0.009	0.039	0.000039	0.000018	0.31	0.000003
AMQ-ENV15-125	-	surface		-	Overburden	Waste	grab		-	**5.8**	14	52	0.23	3.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000008	0.54	0.0016	0.011	0.035	0.000052	0.000038	1.2	0.000005
AMQ-ENV15-126	-	surface		-	Overburden	Waste	grab		-	6.9	12	37	0.43	2.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	0.00006	0.000009	0.35	0.0016	0.0036	0.033	0.000028	0.000011	< 0.01	0.000003
AMQ-ENV15-127	-	surface		-	Overburden	Waste	grab		-	6.7	15	44	0.41	2.0	1.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000005	0.46	0.0035	0.0087	0.033	0.00004	0.000016	0.53	0.000003
AMQ-ENV15-128	-	surface		-	Overburden	Waste	grab		-	6.1	15	45	0.15	1.0	< 1	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.00001	0.97	0.0018	0.012	0.042	0.000061	0.000026	0.27	0.000007
AMQ-ENV15-129	-	surface		-	Overburden	Waste	grab		-	**5.8**	13	47	0.2	4.0	1.0	< 3	< 0.3	< 0.6	< 0.2	< 0.03	< 0.00001	0.000004	0.52	0.0035	0.0052	0.049	0.000033	0.00001	0.25	0.000009
Overburden								**Minimum**		*5.2*	*12*	*36*	*0.09*	*< 1*	*< 1*	*< 3*	*< 0.3*	*< 0.6*	*< 0.2*	*< 0.03*	*< 0.00001*	*0.000004*	*0.33*	*0.0016*	*0.0036*	*0.033*	*0.000023*	*0.000009*	*< 0.01*	*0.000003*
								Maximum		*6.9*	*22*	*60*	*0.43*	*4.0*	*1.0*	*< 3*	*< 0.3*	*< 0.6*	*0.2*	*< 0.03*	*0.00006*	*0.000021*	*1.1*	*0.01*	*0.012*	*0.059*	*0.000075*	*0.000038*	*1.8*	*0.000013*
								Median		*5.8*	*16*	*45*	*0.2*	*1.5*	*1.0*	*nc*	*nc*	*nc*	*0.2*	*nc*	*0.00001*	*0.000009*	*0.53*	*0.0029*	*0.0079*	*0.038*	*0.00004*	*0.000012*	*0.29*	*0.0000045*
								Average		*5.7*	*16*	*46*	*0.22*	*1.8*	*1.0*	*nc*	*nc*	*nc*	*0.2*	*nc*	*0.000014*	*0.00001*	*0.62*	*0.0036*	*0.008*	*0.04*	*0.000041*	*0.000016*	*0.52*	*0.0000055*
								Std. Deviation		*nc*	*2.8*	*7.0*	*0.13*	*0.97*	*0*	*nc*	*nc*	*nc*	*2.9E-17*	*nc*	*0.000014*	*0.0000053*	*0.25*	*0.0025*	*0.0028*	*0.0084*	*0.000016*	*0.0000088*	*0.53*	*0.0000003*
								75th Percentile		*nc*	*16*	*49*	*0.28*	*2.0*	*1.0*	*nc*	*nc*	*nc*	*0.2*	*nc*	*0.00001*	*0.000011*	*0.76*	*0.0038*	*0.011*	*0.044*	*0.000045*	*0.000018*	*0.65*	*0.0000063*
WTN-1	-	0	0.1	-	Lake Sediment	-	grab		-	**5.0**	38	173	0.07	4.0	33	< 3	< 0.3	< 0.6	0.3	0.11	< 0.00001	0.0001	0.68	**0.37**	0.091	0.16	0.000041	0.000039	8.6	0.000048
WTN-2	-	0	0.1	-	Lake Sediment	-	grab		-	**5.0**	36	223	0.07	4.0	59	< 3	< 0.3	< 0.6	0.4	< 0.03	< 0.00001	0.00007	0.48	0.07	0.21	0.22	0.000023	0.000036	11	0.00029
WTN-3	-	0	0.1	-	Lake Sediment	-	grab		-	**5.3**	162	376	1.7	3.0	23	< 3	< 0.3	< 0.6	14	0.18	< 0.00001	0.000084	**1.0**	0.07	0.0088	1.9	0.000061	0.000064	1.2	0.000012
WTN-4	-	0	0.1	-	Lake Sediment	-	grab		-	**4.9**	38	214	0.12	5.0	52	< 3	< 0.3	< 0.6	0.6	< 0.03	< 0.00001	0.000025	0.39	**0.13**	0.16	0.38	0.000025	0.000014	11	0.0002
WTN-5	-	0	0.1	-	Lake Sediment	-	grab		-	**4.9**	44	200	0.08	3.0	45	< 3	< 0.3	< 0.6	0.4	0.06	0.00001	0.000026	0.58	**0.23**	0.13	0.19	0.000032	0.000018	11	0.00012
Lake Sediment								**Minimum**		*4.9*	*36*	*173*	*0.07*	*3.0*	*23*	*< 3*	*< 0.3*	*< 0.6*	*0.3*	*< 0.03*	*< 0.00001*	*0.000025*	*0.39*	*0.07*	*0.0088*	*0.16*	*0.000023*	*0.000014*	*1.2*	*0.000012*
								Maximum		*5.3*	*162*	*376*	*1.7*	*5.0*	*59*	*< 3*	*< 0.3*	*< 0.6*	*14*	*0.18*	*0.00001*	*0.0001*	*1.0*	*0.37*	*0.21*	*1.9*	*0.000061*	*0.000064*	*11*	*0.00029*
								Median		*5.0*	*38*	*214*	*0.08*	*4.0*	*45*	*nc*	*nc*	*nc*	*0.4*	*0.06*	*0.00001*	*0.00007*	*0.58*	*0.13*	*0.13*	*0.22*	*0.000032*	*0.000036*	*11*	*0.00012*
								Average		*5.0*	*64*	*237*	*0.4*	*3.8*	*42*	*nc*	*nc*	*nc*	*3.1*	*0.082*	*0.00001*	*0.000061*	*0.63*	*0.17*	*0.12*	*0.56*	*0.000036*	*0.000034*	*8.7*	*0.00013*
								Std. Deviation		*0.14*	*55*	*80*	*0.7*	*0.84*	*14*	*nc*	*nc*	*nc*	*6.1*	*0.064*	*0*	*0.000034*	*0.24*	*0.13*	*0.076*	*0.73*	*0.000015*	*0.00002*	*4.4*	*0.00011*
								75th Percentile		*5.0*	*44*	*223*	*0.12*	*4.0*	*52*	*nc*	*nc*	*nc*	*0.6*	*0.11*	*0.00001*	*0.000084*	*0.68*	*0.23*	*0.16*	*0.38*	*0.000041*	*0.000039*	*11*	*0.0002*

Notes:
a) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525,
b) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525,
nc - statistic could not be calculated

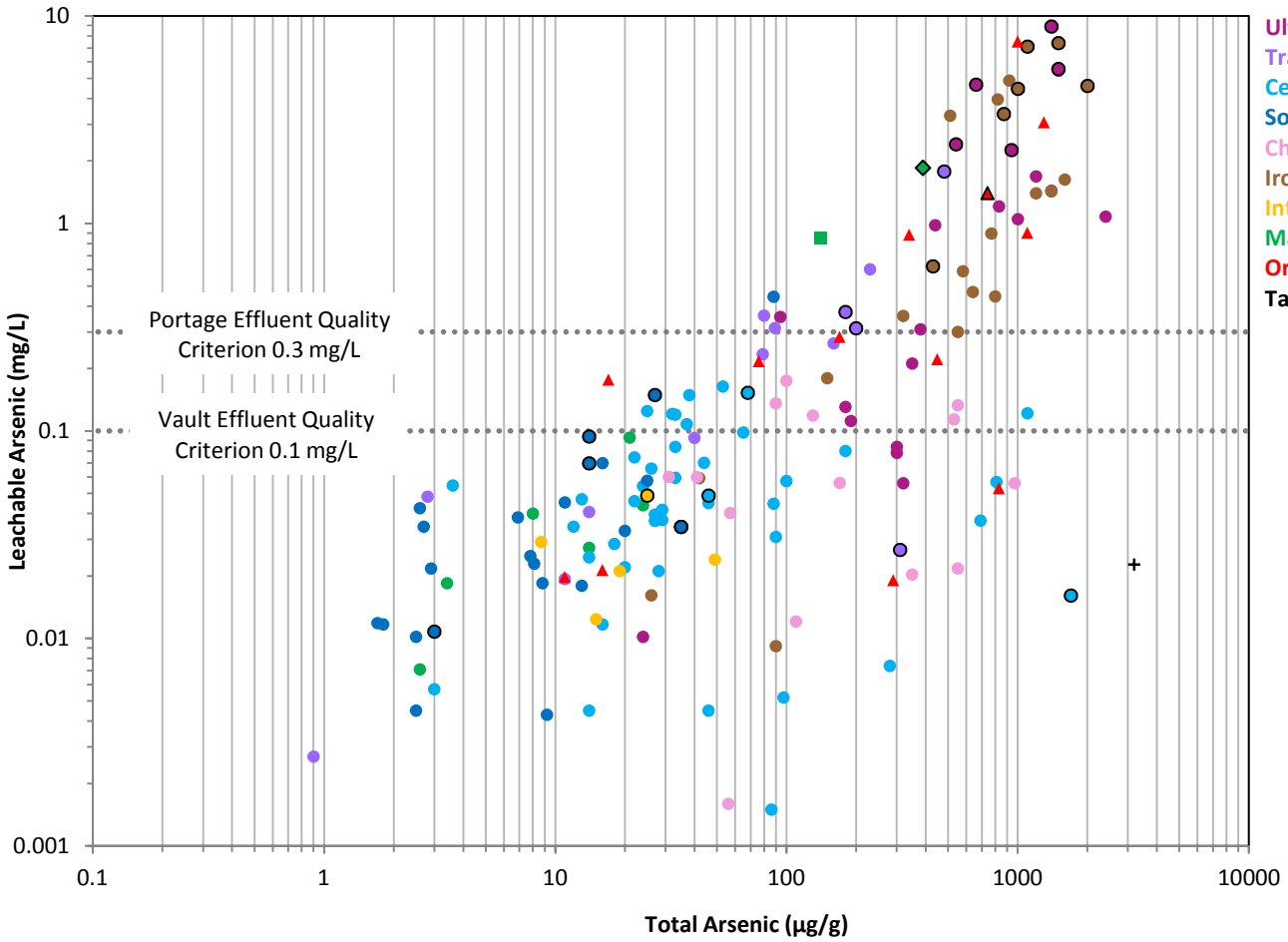
1.0 Results exceeds the Portage Effluent Water Quality Guideline.
1.0 Result exceeds the Vault Effluent Water Quality Guideline.

Appendix E.5
Shake Flask Extraction Results
Waste Rock, Ore, Tailing, Soil and Lake Sediment
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

									Cobalt	Chromium	Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Silicon	Tin	Strontium	Titanium	Thallium	Uranium	Vanadium	Zinc
						Portage Effluent Quality Criteria[a]					0.1								0.2	1	0.1										0.4
						Vault Effluent Quality Criteria[b]					**0.1**								**0.2**	**1.5**	**0.1**										**0.2**
Sample ID	**Borehole ID**	**Depth (m) From**	**To**	**Lithology Code**	**Rock Name**	**Sample Type**		**Distance to Ore**																						
									mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMQ-ENV-01	IVR14-130	11	20	1b	Mafic Volcanic (near UM contact)	Waste	Core	50	0.00013	0.00035	0.00014	< 0.002	30	0.0013	3.9	0.00088	0.0012	1.6	0.0016	< 0.009	< 0.00001	0.0033	< 0.001	4.5	0.00004	0.11	< 0.00005	0.000042	0.000064	0.0061	< 0.001
AMQ-ENV-07	IVR14-116	16	25	1b	Mafic Volcanic	Waste	Core	47	0.000027	0.00035	0.00082	0.01	24	0.018	3.2	0.002	0.0053	1.8	0.0005	0.059	< 0.00001	0.0026	0.015	5.4	0.00003	0.24	0.00075	0.000012	0.00098	0.037	< 0.001
AMQ-ENV-08	IVR14-116	30	39	1b	Mafic Volcanic	Waste	Core	36	0.00012	0.0021	0.0015	0.098	21	0.0086	1.3	0.0017	0.0032	3.0	0.0015	0.11	0.0005	0.0015	0.002	10	0.00006	0.2	0.0085	0.000007	0.000072	0.035	< 0.001
AMQ-ENV-118	IVR14-151	200	209	1b	Mafic Volcanic	Waste	Core	31	0.000012	0.0012	0.0003	0.015	21	0.00029	0.12	0.00027	0.00029	13	0.0001	0.011	< 0.00001	0.003	< 0.001	8.0	0.00008	0.047	0.0011	< 0.000005	0.00003	0.018	< 0.001
AMQ-ENV15-104	IVR14-087	100	110	1b	Mafic Volcanic	Waste	Core	31	0.000099	0.0011	0.00044	0.038	21	0.00011	0.46	0.00071	0.003	2.2	0.0025	0.015	0.0014	0.0049	0.00011	10.0	0.00007	0.042	0.0014	< 0.000005	0.000009	0.024	< 0.002
AMQ-ENV15-094	IVR14-091	41	51	1b	Mafic Volcanic	Waste	Core	42	0.000069	0.00096	0.00023	0.04	17	0.000069	0.38	0.0007	0.00061	2.7	0.0005	0.018	0.00005	0.0032	0.0002	11	< 0.00001	0.031	0.0012	< 0.000005	0.000008	0.02	< 0.002
AMQ-ENV15-024	IVR14-141	38	47	1b	Mafic Volcanic	Waste	Core	67	0.000076	0.0016	0.00025	0.073	11	0.00037	0.52	0.0012	0.001	3.7	0.0004	0.039	0.00007	0.0018	0.00018	11	< 0.00001	0.025	0.0022	< 0.000005	0.00011	0.022	< 0.002
AMQ-ENV-51	IVR14-103	218	228	1b	Mafic Volcanic (prev. logged GW)	Waste	Reject	36	0.00018	0.0049	0.00054	0.09	21	0.00028	0.45	0.0012	0.00083	11	0.0013	0.018	0.0001	0.014	< 0.001	5.8	0.00011	0.039	0.0047	< 0.000005	0.000027	0.023	< 0.001
							Minimum		*0.000012*	*0.00035*	*0.00014*	*< 0.002*	*11*	*0.000069*	*0.12*	*0.00027*	*0.00029*	*1.6*	*0.0001*	*< 0.009*	*< 0.00001*	*0.0015*	*< 0.00011*	*4.5*	*< 0.00001*	*0.025*	*< 0.00005*	*< 0.000005*	*0.000008*	*0.0061*	*< 0.001*
							Maximum		*0.00018*	*0.0049*	*0.0015*	*0.098*	*30*	*0.018*	*3.9*	*0.002*	*0.0053*	*13*	*0.0025*	*0.11*	*0.0014*	*0.014*	*0.015*	*11*	*0.00011*	*0.24*	*0.0085*	*0.000042*	*0.00098*	*0.037*	*< 0.002*
Mafic Volcanic - 1b							**Median**		*0.000088*	*0.0012*	*0.00037*	*0.039*	*21*	*0.00033*	*0.49*	*0.001*	*0.0011*	*2.8*	*0.0009*	*0.018*	*0.00006*	*0.0031*	*0.001*	*9.0*	*0.00005*	*0.044*	*0.0013*	*0.000005*	*0.000047*	*0.022*	*nc*
							Average		*0.000089*	*0.0016*	*0.00053*	*0.046*	*21*	*0.0036*	*1.3*	*0.0011*	*0.0019*	*4.9*	*0.0011*	*0.035*	*0.00027*	*0.0043*	*0.0026*	*8.3*	*0.000051*	*0.092*	*0.0025*	*0.000011*	*0.00016*	*0.023*	*nc*
							Std. Deviation		*0.000055*	*0.0015*	*0.00046*	*0.037*	*5.6*	*0.0065*	*1.4*	*0.00056*	*0.0017*	*4.5*	*0.00081*	*0.036*	*0.00049*	*0.0042*	*0.0051*	*2.7*	*0.000035*	*0.086*	*0.0028*	*0.000013*	*0.00033*	*0.0098*	*nc*
							75th Percentile		*0.00012*	*0.0017*	*0.00061*	*0.077*	*22*	*0.0031*	*1.8*	*0.0013*	*0.003*	*5.6*	*0.0015*	*0.044*	*0.0002*	*0.0037*	*0.0013*	*10*	*0.000073*	*0.13*	*0.0028*	*0.0000083*	*0.000082*	*0.026*	*nc*
AMQ-ENV15-089	IVR14-079	78	88	S9E	Ultramafic	Ore	Core	0	0.00015	0.00017	0.0001	0.025	34	0.0021	1.9	0.0026	0.00034	1.9	0.008	< 0.003	< 0.00001	0.023	0.00012	3.8	< 0.00001	0.034	0.00055	< 0.000005	0.000027	0.005	< 0.002
AMQ-ENV15-134	AMQ15-433-02	32	42	S10	ALTV41	Ore	Core	-	0.0012	0.0017	0.0021	0.15	44	0.0067	2.4	0.006	0.031	15	0.0019	0.004	0.0024	0.0049	0.016	3.6	0.00004	0.017	0.0007	0.0033	0.004	0.0021	< 0.002
AMQ-ENV15-135	AMQ15-433-03	67	75	0a	ALTV42	Ore	Core	-	0.0014	0.0087	0.0019	0.17	32	0.0028	1.2	0.0053	0.0065	13	0.006	0.011	0.0013	0.035	0.0067	15	0.00006	0.019	0.003	0.0023	0.0015	0.035	0.002
AMQ-ENV15-136	AMQ15-438-01	32	33	S10	QZ3	Ore	Core	-	0.0011	0.0034	0.0025	0.12	29	0.0051	0.61	0.002	0.0039	13	0.0024	0.03	0.0011	0.0048	0.0047	11	0.00004	0.013	0.0072	0.0016	0.0013	0.032	< 0.002
AMQ-ENV15-137	AMQ15-438-02	33	38	0a	QZ4	Ore	Core	-	0.00074	0.0015	0.0014	0.014	23	0.0041	2.3	0.00089	0.0031	13	0.0019	0.006	0.0012	0.0084	0.0042	6.0	0.00004	0.046	0.00037	0.0013	0.0012	0.011	< 0.002
AMQ-ENV15-138	AMQ15-438-03	66	78	S10/UM	QZ2	Ore	Core	-	0.0012	0.0015	0.0014	0.028	14	0.0033	2.1	0.0028	0.0094	12	0.0014	< 0.003	0.0014	0.0049	0.0044	3.1	0.00004	0.036	< 0.00005	0.0014	0.0015	0.0015	< 0.002
AMQ-ENV15-139	AMQ15-438-04	88	98	S10	QZ2	Ore	Core	-	0.001	0.0014	0.0012	0.28	21	0.0025	0.65	0.0052	0.0045	20	0.0012	0.011	0.0012	0.0047	0.0026	3.2	0.00004	0.0094	0.0019	0.0012	0.0012	0.002	< 0.002
AMQ-ENV15-140	AMQ15-481-01	190	200	S3C	QZ3	Ore	Core	-	0.00094	0.0018	0.0016	0.14	15	0.0036	0.23	0.003	0.002	16	0.001	0.013	0.0011	0.0048	0.0022	6.0	0.00005	0.0049	0.0065	0.001	0.0016	0.016	< 0.002
AMQ-ENV15-142	AMQ15-481-03	254	259	S3C	QZ2	Ore	Core	-	0.00023	0.00058	0.00059	0.01	9.6	0.0017	0.29	0.00051	0.00071	14	0.0003	0.005	0.00029	0.0042	0.00066	4.8	0.00003	0.016	0.00039	0.00029	0.00077	0.007	< 0.002
AMQ-ENV15-143	AMQ15-481-04	262	272	S3C	QZ2	Ore	Core	-	0.0002	0.00067	0.00063	0.057	10	0.0014	0.17	0.001	0.001	18	0.0004	0.009	0.00032	0.0074	0.00062	5.4	0.00009	0.008	0.0021	0.00024	0.00084	0.012	0.005
AMQ-ENV15-144	AMQ15-481-05	390	400	S3C	ALTV41	Ore	Core	-	0.0002	0.00081	0.00028	0.04	25	0.0027	0.9	0.0013	0.0039	23	0.0033	0.004	0.00023	0.023	0.00065	2.8	0.00005	0.04	0.00043	0.0002	0.00026	0.0018	< 0.002
AMQ-ENV15-076	IVR14-156	145	155	0b	Ultramafic	Ore	Core	0	0.00078	0.0002	0.00037	0.037	28	0.0087	14	0.026	0.0079	2.1	0.02	< 0.003	0.00001	0.0071	0.00052	3.5	< 0.00001	0.23	0.00076	0.000034	0.00011	0.00061	< 0.002
AMQ-ENV-52	IVR14-084	72	84	0b	Ultramafic	Ore	Reject	0	0.00081	0.00035	0.00022	< 0.007	38	0.0034	7.6	0.0054	0.0019	0.89	0.011	0.007	0.00004	0.0092	< 0.001	3.8	0.00003	0.16	0.00016	0.000027	0.00015	0.0023	< 0.001
							Minimum		*0.00015*	*0.00017*	*0.0001*	*< 0.007*	*9.6*	*0.0014*	*0.17*	*0.00051*	*0.00034*	*0.89*	*0.0003*	*< 0.003*	*< 0.00001*	*0.0042*	*< 0.00012*	*2.8*	*< 0.00001*	*0.0049*	*< 0.00005*	*< 0.000005*	*0.000027*	*0.00061*	*< 0.001*
							Maximum		*0.0014*	*0.0087*	*0.0025*	*0.28*	*44*	*0.0087*	*14*	*0.026*	*0.031*	*23*	*0.02*	*0.03*	*0.0024*	*0.035*	*0.016*	*15*	*0.00009*	*0.23*	*0.0072*	*0.0033*	*0.004*	*0.035*	*0.005*
Ore							**Median**		*0.00081*	*0.0014*	*0.0012*	*0.04*	*25*	*0.0033*	*1.2*	*0.0028*	*0.0039*	*13*	*0.0019*	*0.006*	*0.0011*	*0.0071*	*0.0022*	*3.8*	*0.00004*	*0.019*	*0.0007*	*0.001*	*0.0012*	*0.005*	*0.002*
							Average		*0.00076*	*0.0018*	*0.0011*	*0.083*	*25*	*0.0037*	*2.7*	*0.0047*	*0.0059*	*12*	*0.0045*	*0.0084*	*0.0008*	*0.011*	*0.0034*	*5.6*	*0.000041*	*0.049*	*0.0018*	*0.00099*	*0.0011*	*0.0098*	*0.0022*
							Std. Deviation		*0.00043*	*0.0023*	*0.0008*	*0.084*	*11*	*0.0021*	*3.9*	*0.0065*	*0.008*	*6.8*	*0.0056*	*0.0073*	*0.00071*	*0.0098*	*0.0043*	*3.6*	*0.000021*	*0.068*	*0.0024*	*0.001*	*0.001*	*0.011*	*0.0009*
							75th Percentile		*0.0011*	*0.0017*	*0.0016*	*0.14*	*32*	*0.0041*	*2.3*	*0.0053*	*0.0065*	*16*	*0.006*	*0.011*	*0.0012*	*0.0092*	*0.0044*	*6.0*	*0.00005*	*0.04*	*0.0021*	*0.0014*	*0.0015*	*0.012*	*0.002*
RE-13872/RE-13874	-	-		-	Processed ore	Tailing	milling reject	0	*0.034*	*0.00003*	*0.0022*	*1.3*	*15*	*0.0024*	*4.1*	*0.076*	*0.059*	*222*	*0.0047*	*0.004*	*0.00003*	*0.0015*	*< 0.001*	*1.4*	*0.0011*	*0.13*	*0.00008*	*< 0.000005*	*0.00021*	*0.00011*	< 0.001
AMQ-ENV15-116	-	surface		-	Overburden	Waste	grab	-	0.00045	0.0013	0.002	0.56	1.2	0.0021	0.13	0.0064	0.00016	10	0.001	0.037	0.00037	0.0005	0.00018	5.5	0.00012	0.0022	0.033	< 0.000005	0.00016	0.0011	< 0.002
AMQ-ENV15-130	-	surface		-	Overburden	Waste	grab	-	0.0011	0.0036	0.011	0.75	0.55	0.0019	0.82	0.019	0.00015	11	0.007	0.064	0.0008	0.0004	0.00041	6.4	0.00003	0.009	0.017	< 0.000005	0.0023	0.00088	< 0.002
AMQ-ENV15-131	-	surface		-	Overburden	Waste	grab	-	0.00031	0.0012	0.0034	0.39	0.29	0.0009	0.086	0.0054	0.00011	8.6	0.0011	0.018	0.00034	0.0004	< 0.00004	4.0	0.00005	0.00089	0.012	< 0.000005	0.00048	0.00062	< 0.002
AMQ-ENV15-132	-	surface		-	Overburden	Waste	grab	-	0.00039	0.0011	0.0016	0.51	0.24	0.00073	0.14	0.014	0.00044	8.2	0.0017	0.011	0.0005	0.0004	< 0.00004	4.4	< 0.00001	0.0011	0.013	< 0.000005	0.00048	0.00067	< 0.002
AMQ-ENV15-117	-	surface		-	Overburden	Waste	grab	-	0.0011	0.0022	0.0019	1.1	0.48	0.00061	0.3	0.021	0.00061	9.2	0.0027	0.055	0.00057	0.0005	0.00005	6.4	0.00004	0.0018	0.049	< 0.000005	0.00019	0.0023	0.003
AMQ-ENV15-118	-	surface		-	Overburden	Waste	grab	-	0.00097	0.0079	0.0082	0.67	0.55	0.0021	0.45	0.03	0.0001	8.5	0.0028	0.043	0.00055	0.0004	0.00017	4.0	0.00019	0.0041	0.029	< 0.000005	0.00055	0.0015	< 0.002
AMQ-ENV15-119	-	surface		-	Overburden	Waste	grab	-	0.00078	0.0037	0.0025	1.1	0.37	0.0017	0.21	0.017	0.00022	7.6	0.0019	0.054	0.00066	0.0005	< 0.00004	3.8	0.00004	0.0012	0.031	< 0.000005	0.00023	0.0015	0.002
AMQ-ENV15-125	-	surface		-	Overburden	Waste	grab	-	0.00092	0.0021	0.0048	0.79	0.57	0.0011	0.69	0.025	0.00009	8.6	0.0032	0.022	0.00084	0.0003	0.0003	4.3	0.00002	0.0055	0.019	< 0.000005	0.00088	0.0012	< 0.002
AMQ-ENV15-126	-	surface		-	Overburden	Waste	grab	-	0.00031	0.00078	0.0017	0.38	0.32	0.0005	0.098	0.0096	0.0014	7.3	0.0015	0.01	0.00039	0.0004	0.00024	3.9	0.00002	0.0008	0.0094	< 0.000005	0.00046	0.00079	< 0.002
AMQ-ENV15-127	-	surface		-	Overburden	Waste	grab	-	0.00054	0.0013	0.002	0.59	0.44	0.00062	0.23	0.015	0.00046	7.8	0.002	0.01	0.00077	0.0004	0.00012	3.8	< 0.00001	0.002	0.013	< 0.000005	0.00042	0.00081	< 0.002
AMQ-ENV15-128	-	surface		-	Overburden	Waste	grab	-	0.00082	0.0022	0.0022	1.0	0.53	0.001	0.25	0.024	0.00031	7.4	0.0021	0.035	0.00086	0.0004	0.00013	5.1	0.00005	0.002	0.034	< 0.000005	0.00048	0.0012	0.002
AMQ-ENV15-129	-	surface		-	Overburden	Waste	grab	-	0.00052	0.0013	0.0028	0.47	0.38	0.00077	0.14	0.014	0.00006	9.6	0.0015	0.02	0.00051	0.0003	0.00021	4.2	< 0.00001	0.0013	0.011	< 0.000005	0.00059	0.00056	< 0.002
							Minimum		*0.00031*	*0.00078*	*0.0016*	*0.38*	*0.24*	*0.0005*	*0.086*	*0.0054*	*0.00006*	*7.3*	*0.001*	*0.01*	*0.00034*	*0.0003*	*< 0.00004*	*3.8*	*< 0.00001*	*0.0008*	*0.0094*	*< 0.000005*	*0.00016*	*0.00056*	*< 0.002*
							Maximum		*0.0011*	*0.0079*	*0.011*	*1.1*	*1.2*	*0.0021*	*0.82*	*0.03*	*0.0014*	*11*	*0.007*	*0.064*	*0.00086*	*0.0005*	*0.00041*	*6.4*	*0.00019*	*0.009*	*0.049*	*< 0.000005*	*0.0023*	*0.0023*	*0.003*
Overburden							**Median**		*0.00066*	*0.0017*	*0.0023*	*0.63*	*0.46*	*0.00097*	*0.22*	*0.016*	*0.00019*	*8.5*	*0.002*	*0.029*	*0.00056*	*0.0004*	*0.00015*	*4.3*	*0.000035*	*0.0019*	*0.018*	*nc*	*0.00048*	*0.001*	*0.002*
							Average		*0.00068*	*0.0024*	*0.0037*	*0.69*	*0.49*	*0.0012*	*0.3*	*0.017*	*0.00034*	*8.7*	*0.0024*	*0.032*	*0.0006*	*0.00041*	*0.00016*	*4.7*	*0.000049*	*0.0027*	*0.022*	*nc*	*0.0006*	*0.0011*	*0.0021*
							Std. Deviation		*0.0003*	*0.002*	*0.003*	*0.26*	*0.24*	*0.0006*	*0.24*	*0.0075*	*0.00036*	*1.2*	*0.0016*	*0.019*	*0.00019*	*0.000067*	*0.00012*	*0.97*	*0.000054*	*0.0024*	*0.012*	*nc*	*0.00057*	*0.00051*	*0.00029*
							75th Percentile		*0.00093*	*0.0025*	*0.0038*	*0.84*	*0.55*	*0.0018*	*0.34*	*0.021*	*0.00045*	*9.3*	*0.0027*	*0.046*	*0.00078*	*0.00043*	*0.00022*	*5.2*	*0.00005*	*0.0027*	*0.032*	*nc*	*0.00056*	*0.0013*	*0.002*
WTN-1	-	0	0.1	-	Lake Sediment	-	grab	-	0.0028	0.0019	0.013	4.1	2.3	0.0046	1.7	2.2	0.00029	23	0.037	0.24	0.00046	0.0017	0.0012	39	0.00016	0.043	0.013	0.000017	0.00043	0.0008	0.004
WTN-2	-	0	0.1	-	Lake Sediment	-	grab	-	0.019	0.0013	0.013	0.62	2.4	0.0049	2.3	7.2	0.00042	25	**0.26**	0.13	0.016	0.0025	0.0011	39	0.00025	0.063	0.0083	0.000027	0.00027	0.0004	0.011
WTN-3	-	0	0.1	-	Lake Sediment	-	grab	-	0.00041	0.017	0.013	1.4	0.81	0.0023	0.5	0.011	0.00056	86	0.0041	0.28	0.00058	0.0015	0.0012	26	0.00024	0.0039	0.022	0.000008	0.002	0.0027	0.004
WTN-4	-	0	0.1	-	Lake Sediment	-	grab	-	0.021	0.0015	0.011	0.51	2.7	0.0061	2.3	2.7	0.00018	24	**0.22**	0.13	0.00022	0.0017	0.0011	39	0.00025	0.06	0.0071	0.000024	0.00032	0.0004	0.01
WTN-5	-	0	0.1	-	Lake Sediment	-	grab	-	0.0077	0.0018	0.012	1.5	2.4	0.0055	2.1	3.0	0.00034	26	0.089	0.19	0.00026	0.0022	0.0014	47	0.00034	0.053	0.011	0.000015	0.00038	0.0006	0.005
							Minimum		*0.00041*	*0.0013*	*0.011*	*0.51*	*0.81*	*0.0023*	*0.5*	*0.011*	*0.00018*	*23*	*0.0041*	*0.13*	*0.00022*	*0.0015*	*0.0011*	*26*	*0.00016*	*0.0039*	*0.0071*	*0.000008*	*0.00027*	*0.0004*	*0.004*
							Maximum		*0.021*	*0.017*	*0.013*	*4.1*	*2.7*	*0.0061*	*2.3*	*7.2*	*0.00056*	*86*	*0.26*	*0.28*	*0.016*	*0.0025*	*0.0014*	*47*	*0.00034*	*0.063*	*0.022*	*0.000027*	*0.002*	*0.0027*	*0.011*
Lake Sediment							**Median**		*0.0077*	*0.0018*	*0.013*	*1.4*	*2.4*	*0.0049*	*2.1*	*2.7*	*0.00034*	*25*	*0.089*	*0.19*	*0.00046*	*0.0017*	*0.0012*	*39*	*0.00025*	*0.053*	*0.011*	*0.000017*	*0.00038*	*0.0006*	*0.005*
							Average		*0.01*	*0.0047*	*0.012*	*1.6*	*2.1*	*0.0047*	*1.8*	*3.0*	*0.00036*	*37*	*0.12*	*0.19*	*0.0034*	*0.0019*	*0.0012*	*38*	*0.00025*	*0.044*	*0.012*	*0.000018*	*0.00069*	*0.00098*	*0.0068*
							Std. Deviation		*0.0095*	*0.0069*	*0.00097*	*1.4*	*0.76*	*0.0014*	*0.74*	*2.6*	*0.00014*	*28*	*0.11*	*0.064*	*0.0069*	*0.00041*	*0.00012*	*7.4*	*0.000064*	*0.024*	*0.0058*	*0.0000075*	*0.00075*	*0.00098*	*0.0034*
							75th Percentile		*0.019*	*0.0019*	*0.013*	*1.5*	*2.4*	*0.0055*	*2.3*	*3.0*	*0.00042*	*26*	*0.22*	*0.24*	*0.00058*	*0.0022*	*0.0012*	*39*	*0.00025*	*0.06*	*0.013*	*0.000024*	*0.00043*	*0.0008*	*0.01*

Notes:
a) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525,
b) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525,
nc - statistic could not be calculated

1.0	Results exceeds the Portage Effluent Water Quality Guideline.
1.0	Result exceeds the Vault Effluent Water Quality Guideline.



Notes:

Open Pit ▲ Ore

■ near UM contact ◆ prev. logged GW

Outlined symbols indicate reject samples.

Portage NWB Effluent Limit (0.3 mg/L)

Vault NWB Effluent Limit (0.1 mg/L)

Values < MDL are plotted as MDL value

Leachable Arsenic versus Total Arsenic

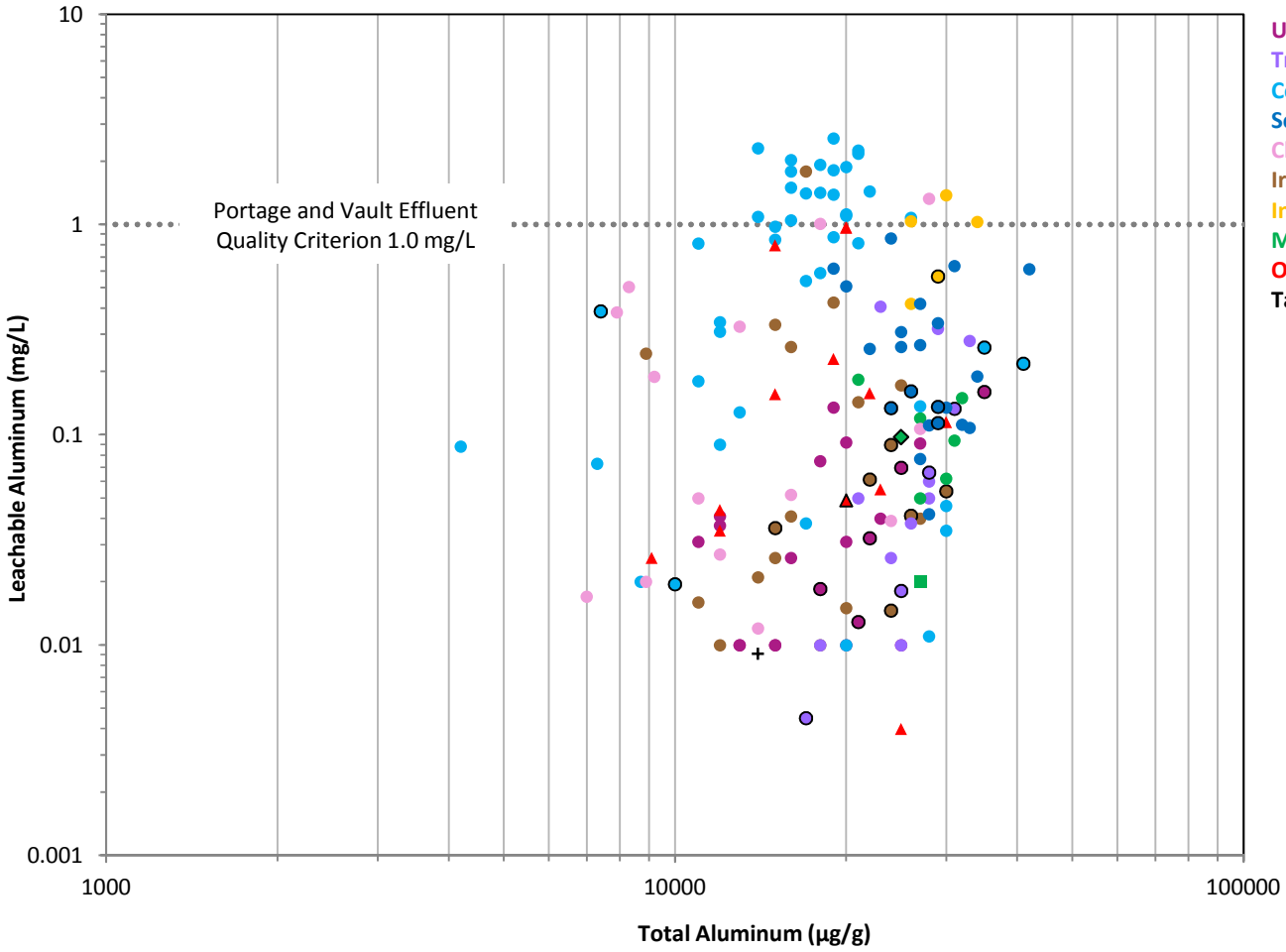
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-5.1



Notes:

Open Pit Ore

near UM contact prev. logged GW

Outlined symbols indicate reject samples.

Portage NWB Effluent Limit (1.0 mg/L)

Vault NWB Effluent Limit (1.0 mg/L)

Values < MDL are plotted as MDL value

Leachable Aluminum versus Total Aluminum

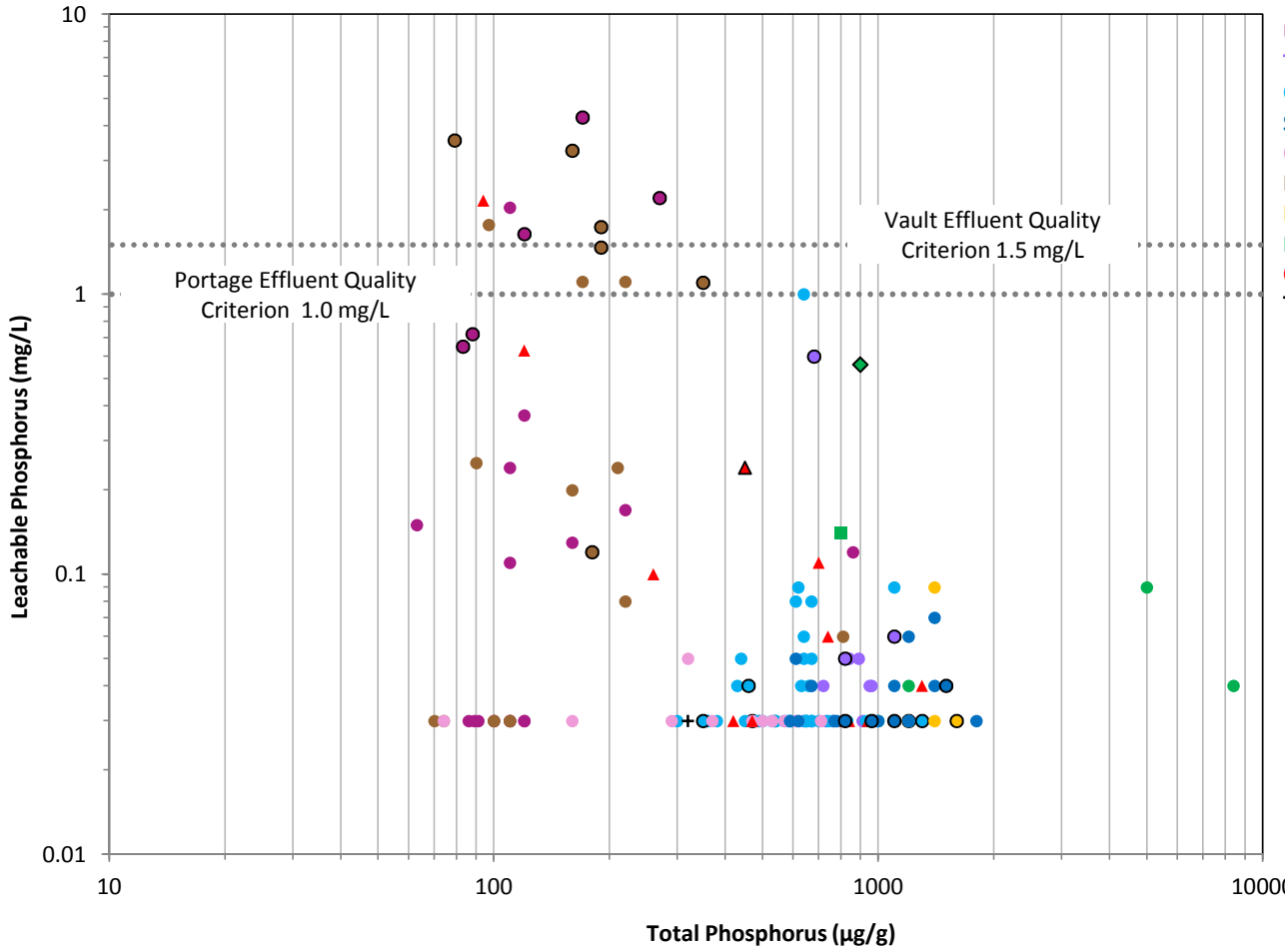
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-5.2



Notes:

Open Pit ▲ Ore

■ near UM contact ◆ prev. logged GW

Outlined symbols indicate reject samples.

Portage NWB Effluent Limit (1.0 mg/L)

Vault NWB Effluent Limit (1.5 mg/L)

Values < MDL are plotted as MDL value

Leachable Phosphorus versus Total Phosphorus

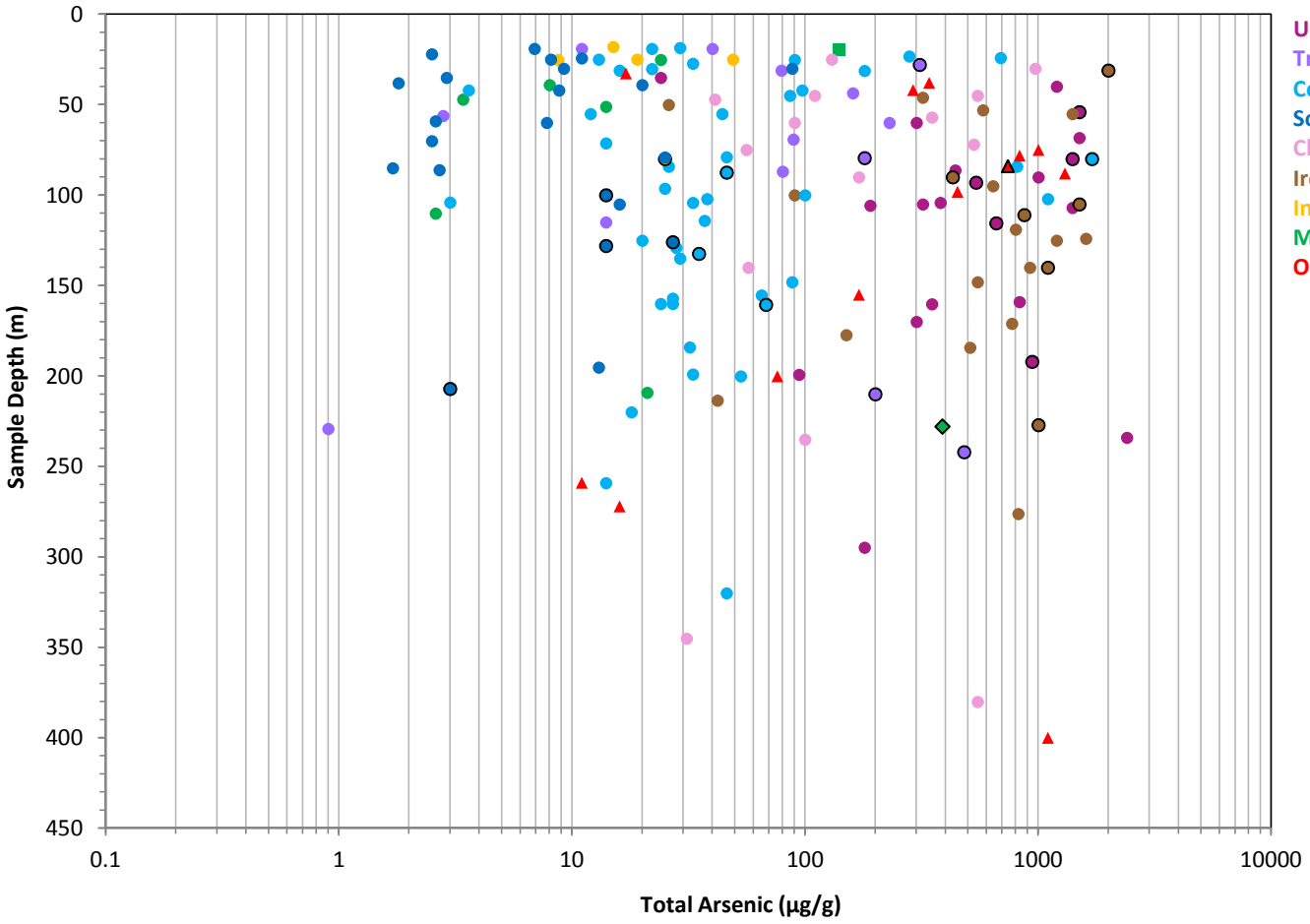
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-5.3



Notes:

Open Pit ▲ Ore

near UM contact ◆ prev. logged GW

Outlined symbols indicate reject samples.

Values < MDL are plotted as MDL value

Total Arsenic versus Sample Depth

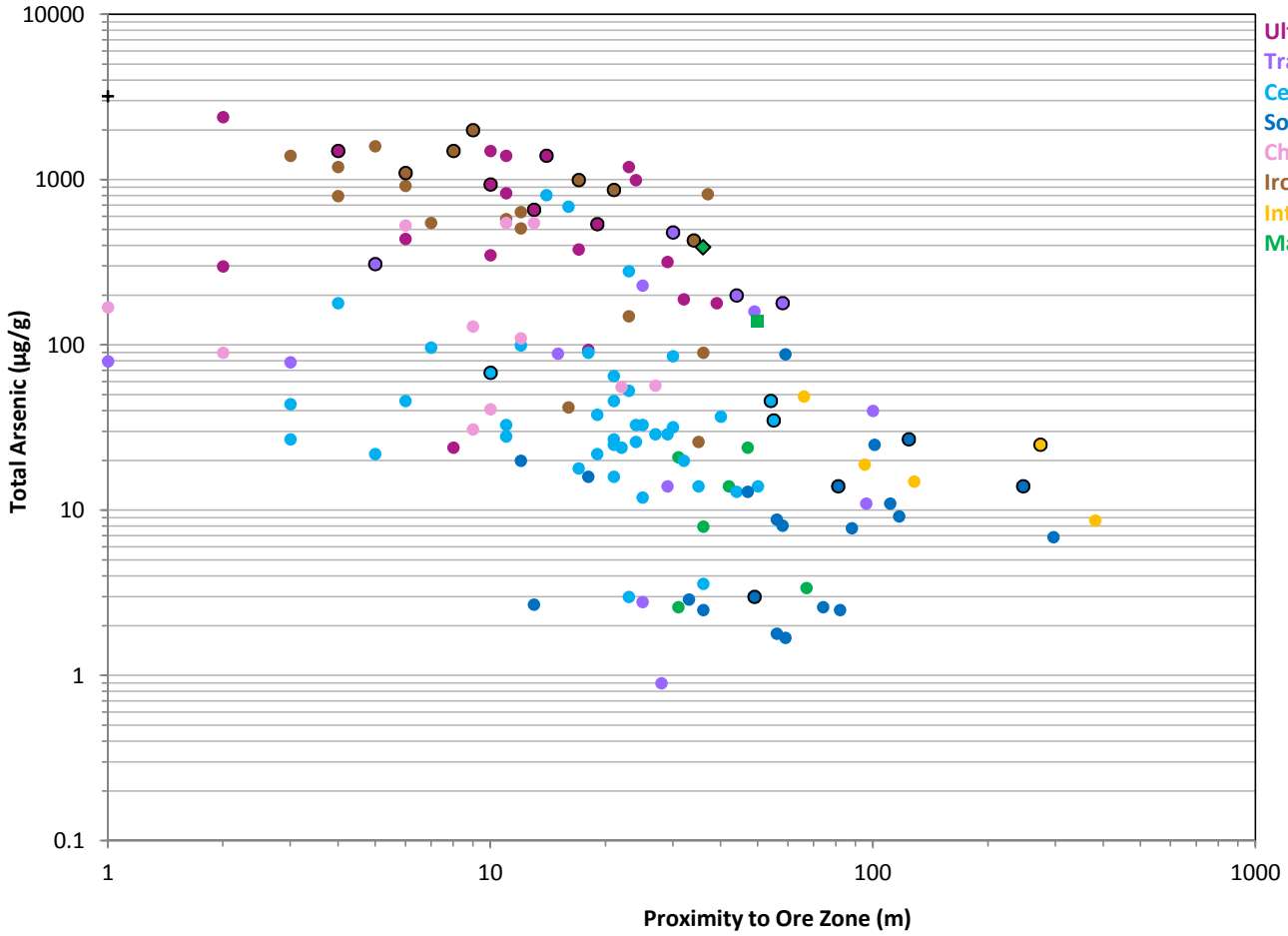
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-5.4



Notes:

Open Pit ▲ Ore

■ near UM contact ◆ prev. logged GW

Outlined symbols indicate reject samples.

Values < MDL are plotted as MDL value

Total Arsenic versus Proximity to Ore Zone

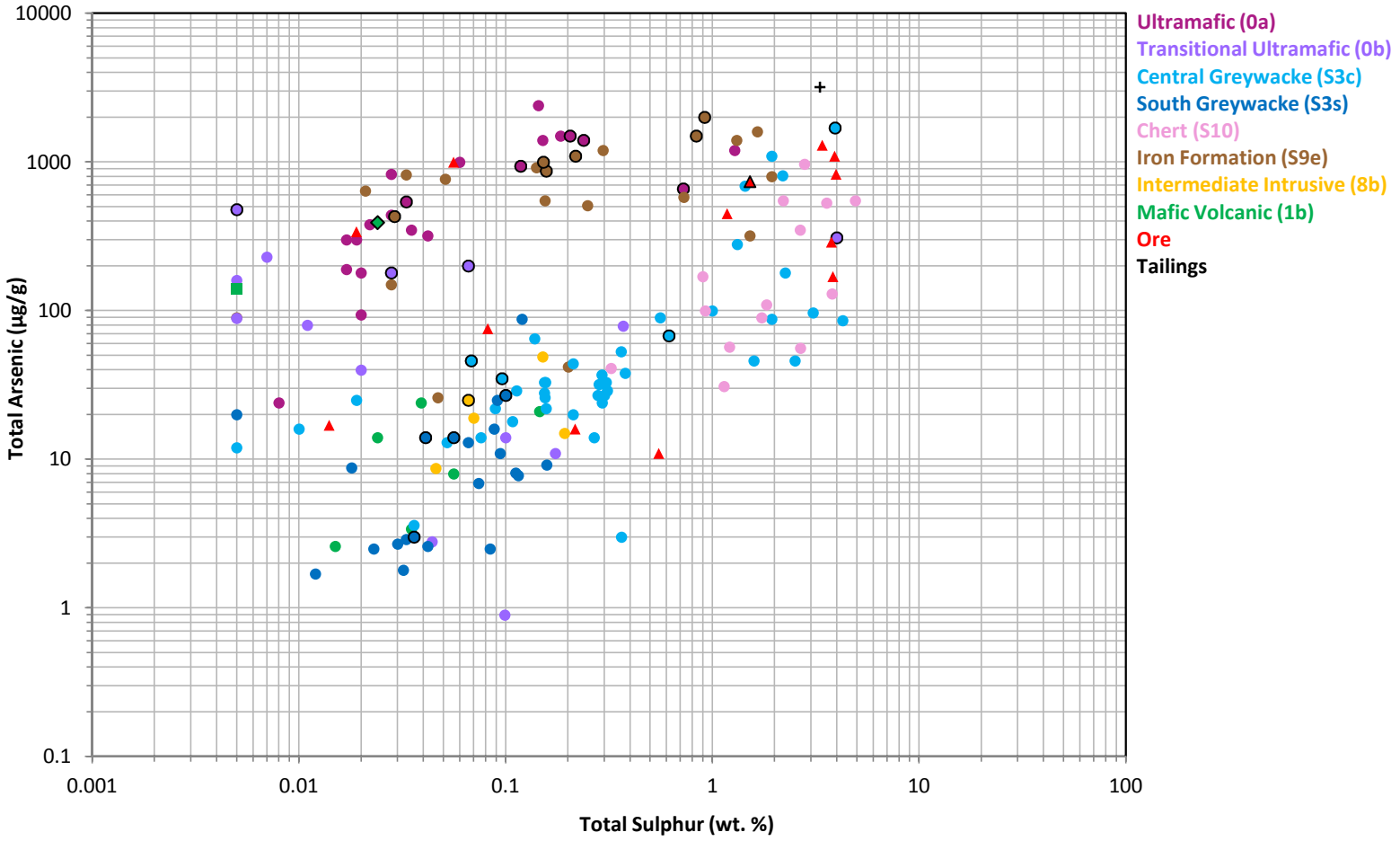
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing Whale Tail Pit

Agnico Eagle Mines Limited Meadowbank Division

Golder Associates

APPENDIX FIGURE E-5.5



Notes:

Open Pit ▲ Ore

near UM contact ◆ prev. logged GW

Outlined symbols indicate reject samples.

Portage NWB Effluent Limit (0.3 mg/L)

Vault NWB Effluent Limit (0.1 mg/L)

Values < MDL are plotted as MDL value

Total Arsenic versus Total Sulphur

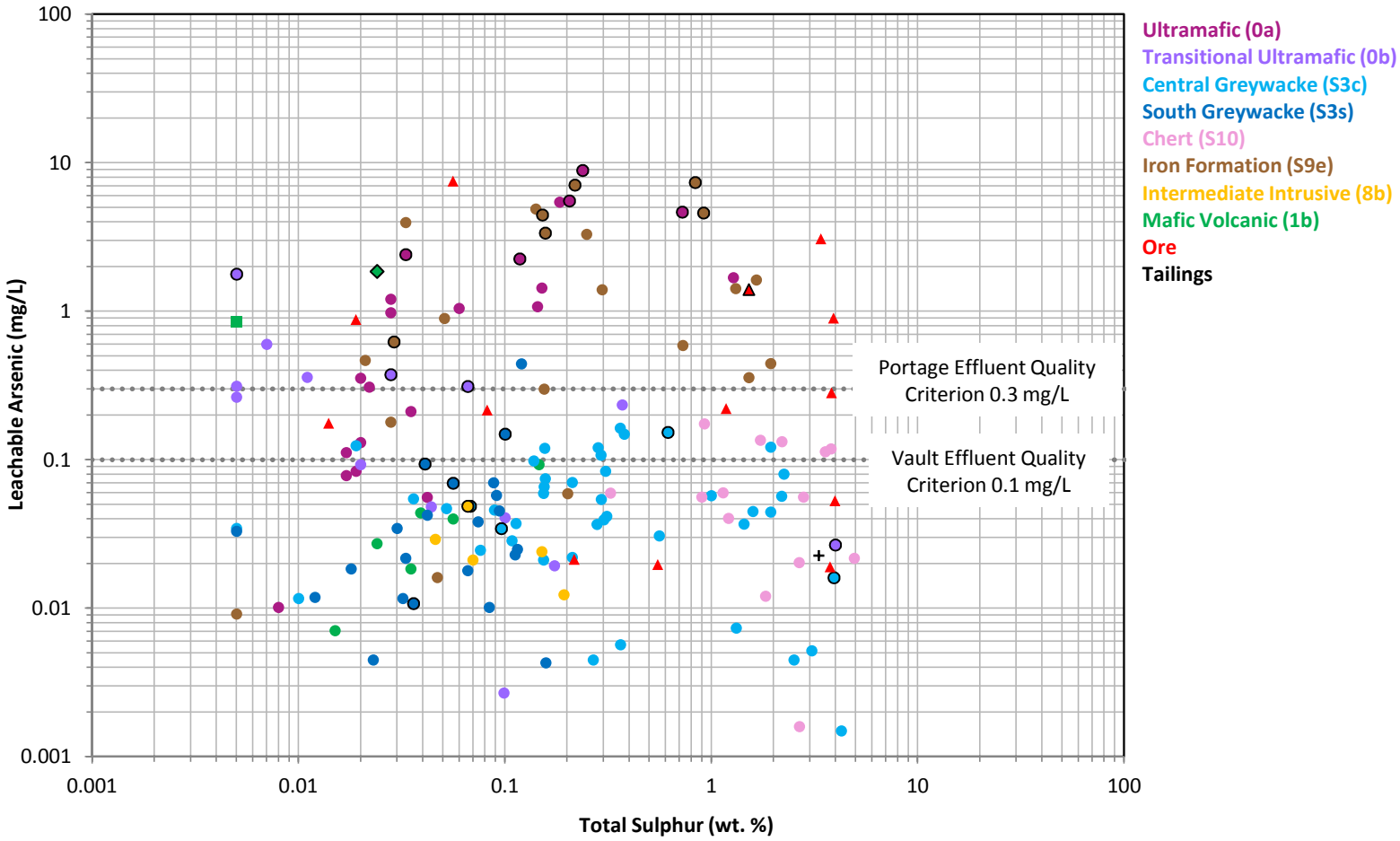
PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-5.6



Notes:
Open Pit
Ore
near UM contact
prev. logged GW
Outlined symbols indicate reject samples.

Values < MDL are plotted as MDL value

Leachable Arsenic versus Total Sulphur

PREPARED	CWT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

Static Testing
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE E-5.7

E.6 – Process Water Quality

Appendix E.6
Process Water Results
Waste Rock, Ore and Tailing
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Portage Effluent Criteria[a,c]		6-9						1000			20			16	0.5			
Vault Effluent Criteria[b,c]		**6-9**						**500**			**50**			**20**				
Sample ID		**pH**	**Alkalinity mg/L as CaCO3**	**Conductivity µS/cm**	**Carbonate mg/L as CaCO3**	**Bicarbonate mg/L as CaCO3**	**Fluoride mg/L**	**Chloride mg/L**	**Sulphate mg/L**	**Nitrite (as N) as N mg/L**	**Nitrate (as N) as N mg/L**	**Bromide mg/L**	**Phosphorus (total reactive) mg/L**	**Ammonia+ Ammonium as N mg/L**	**Cyanide (total) mg/L**	**Cyanide (WAD) mg/L**	**Cyanate mg/L**	**Thiocyanate mg/L**
RE-13872/RE-13874		8.1	135	14800	< 2	135	0.17	17	8000	< 0.3	6.1	< 3	0.27	**69**	2.0	0.06	240	290

Portage Effluent Criteria[a,c]		0.00040	1.0	1.5	0.30						0.0020			0.10				
Vault Effluent Criteria[b,c]		**0.00040**	**1.0**	**1.5**	**0.10**						**0.0020**			**0.10**				
	Chromium VI mg/L	**Mercury mg/L**	**Silver mg/L**	**Aluminum mg/L**	**Arsenic mg/L**	**Barium mg/L**	**Beryllium mg/L**	**Boron mg/L**	**Bismuth mg/L**	**Calcium mg/L**	**Cadmium mg/L**	**Cobalt mg/L**	**Chromium mg/L**	**Copper mg/L**	**Iron mg/L**	**Potassium mg/L**	**Lithium mg/L**	**Magnesium mg/L**
RE-13872/RE-13874	<0.0002	< 0.00001	0.00050	0.54	**0.33**	0.085	0.000036	0.059	0.000040	527	0.000049	0.52	0.012	0.024	2.7	221	0.019	24

Portage Effluent Criteria[a,c]				0.2	1	0.1										0.4
Vault Effluent Criteria[b,c]				**0.2**	**1.5**	**0.1**										**0.2**
	Manganese mg/L	**Molybdenum mg/L**	**Sodium mg/L**	**Nickel mg/L**	**Phosphorus mg/L**	**Lead mg/L**	**Antimony mg/L**	**Selenium mg/L**	**Silicon mg/L**	**Tin mg/L**	**Strontium mg/L**	**Titanium mg/L**	**Thallium mg/L**	**Uranium mg/L**	**Vanadium mg/L**	**Zinc mg/L**
RE-13872/RE-13874	0.19	0.13	3720	0.056	0.028	0.011	0.011	0.010	5.7	0.0036	0.41	0.023	0.000027	0.0033	0.0012	0.0040

Notes:
a) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.
b) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.
c) All limits are for total metals

1.0	Results exceeds the Portage Effluent Water Quality Limit
1.0	Result exceeds the Vault Effluent Water Quality Limit
1.0	Result exceeds both the Portage and Vault Effluent Water Quality Limits

APPENDIX F

Kinetic Test Results to Date

F.1 – HCTs and Large Columns

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Humidity Cell Test Cycle - AMQ-ENV-018 Greywacke (S3c)																											
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28
PHYSICAL TESTS																																
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Leachate Volume Recovered		mL			926	961	968	974	985	977	1007	1015	1012	982	1004	959	946	949	970	971	973	981	977	985	986	977	977	983	986	982	974	959	965
pH		-	**6.0 - 9.0**	6.0 - 9.0	7.8	7.3	7.4	7.2	7.6	7.5	7.5	7.2	7.3	7.4	7.4	7.2	7.2	7.1	7.0	6.9	7.1	7.0	6.9	7.0	7.2	7.1	7.1	7.3	7.1	7.1	7.1	7.1	6.9
Conductivity		µS/cm			44	27	22	20	21	19	18	17	17	14	14	16	16	15	16	15	14	17	14	15	13	13	13	14	15	13	16	14	12
ANIONS & NUTRIUENTS																																
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	<2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	2.0	2.0	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			12	8.0	8.0	8.0	7.0	7.0	7.0	5.0	7.0	5.0	5.0	6.0	5.0	4.0	5.0	5.0	5.0	5.0	4.0	4.0	5.0	4.0	4.0	5.0	4.0	4.0	5.0	4.0	3.0
Chloride	Cl	mg/L	**1000**	500	< 1	< 1	< 1	< 1	< 1	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---
Fluoride	Fe	mg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---
Phosphorus	P	mg/L	**1**	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	---	---	---	---	0.0060	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---
Sulphate	SO4	mg/L			5.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																																
Aluminum	Al	mg/L	**1**	1	0.071	0.075	0.080	0.10	0.091	0.083	---	---	---	---	0.070	---	---	---	---	0.057	---	---	---	---	0.056	---	---	---	---	0.044	---	---	---
Antimony	Sb	mg/L			0.00090	0.00070	0.00070	0.00060	0.00050	0.00040	---	---	---	---	0.00040	---	---	---	---	0.00040	---	---	---	---	0.00020	---	---	---	---	0.0002	---	---	---
Arsenic	As	mg/L	**0.3**	0.1	0.025	0.018	0.016	0.021	0.016	0.014	---	---	---	---	0.0096	---	---	---	---	0.0078	---	---	---	---	0.0083	---	---	---	---	0.0066	---	---	---
Barium	Ba	mg/L			0.0011	0.0011	0.00082	0.00071	0.00058	0.00054	---	---	---	---	0.00056	---	---	---	---	0.00055	---	---	---	---	0.00045	---	---	---	---	0.0006	---	---	---
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---
Bismuth	Bi	mg/L			< 0.000007	0.000016	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---
Boron	B	mg/L			0.0014	0.0018	0.0013	0.00080	0.0012	0.00030	---	---	---	---	0.0034	---	---	---	---	0.0012	---	---	---	---	0.0040	---	---	---	---	< 0.002	---	---	---
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	0.000036	0.0000080	0.000014	< 0.000003	< 0.000003	< 0.000003	---	---	---	---	0.0000040	---	---	---	---	< 0.000003	---	---	---	---	< 0.000003	---	---	---	---	< 0.000003	---	---	---
Calcium	Ca	mg/L			5.2	3.2	2.6	2.7	2.4	2.3	2.5	2.4	2.6	2.3	2.1	2.2	2.2	2.2	2.3	2.1	2.3	2.1	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.9	1.7
Chromium	Cr	mg/L			< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---	0.000050	---	---	---	---	< 0.00003	---	---	---	---	< 0.00003	---	---	---
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00069	0.00024	0.00020	0.00012	0.000085	0.000096	---	---	---	---	0.000086	---	---	---	---	0.00012	---	---	---	---	0.00019	---	---	---	---	0.000155	---	---	---
Copper	Cu	mg/L	**0.1**	0.1	0.00048	0.00049	0.00081	0.00029	0.00019	0.00031	---	---	---	---	0.00032	---	---	---	---	0.00021	---	---	---	---	0.00017	---	---	---	---	0.00045	---	---	---
Iron	Fe	mg/L			< 0.007	< 0.007	0.0090	< 0.007	< 0.007	< 0.007	---	---	---	---	0.0080	---	---	---	---	0.0090	---	---	---	---	< 0.007	---	---	---	---	0.011	---	---	---
Lead	Pb	mg/L	**0.1**	0.1	0.00087	0.00011	0.000070	0.000020	< 0.00001	0.000020	---	---	---	---	0.000030	---	---	---	---	0.000020	---	---	---	---	0.000010	---	---	---	---	0.00002	---	---	---
Lithium	Li	mg/L			0.00054	0.00046	0.00041	0.00037	0.00033	0.00031	---	---	---	---	0.00027	---	---	---	---	0.00028	---	---	---	---	0.00024	---	---	---	---	0.000173	---	---	---
Magnesium	Mg	mg/L			0.43	0.26	0.22	0.21	0.18	0.18	---	---	---	---	0.15	---	---	---	---	0.14	---	---	---	---	0.13	---	---	---	---	0.118	---	---	---
Manganese	Mn	mg/L			0.015	0.011	0.0094	0.0080	0.0078	0.0083	---	---	---	---	0.0090	---	---	---	---	0.011	---	---	---	---	0.013	---	---	---	---	0.0156	---	---	---
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---
Molybdenum	Mo	mg/L			0.00085	0.00065	0.00041	0.00036	0.00023	0.00034	---	---	---	---	0.00013	---	---	---	---	0.0036	---	---	---	---	0.000060	---	---	---	---	0.00008	---	---	---
Nickel	Ni	mg/L	**0.2**	0.2	0.0024	0.0013	0.00090	0.00060	0.00040	0.00050	---	---	---	---	0.00030	---	---	---	---	0.00040	---	---	---	---	0.00040	---	---	---	---	0.0004	---	---	---
Potassium	K	mg/L			2.9	1.8	1.3	1.3	1.0	0.99	---	---	---	---	0.74	---	---	---	---	0.63	---	---	---	---	0.56	---	---	---	---	0.479	---	---	---
Selenium	Se	mg/L			0.00013	0.000070	0.00010	0.000080	0.000070	0.000070	---	---	---	---	< 0.00004	---	---	---	---	0.000080	---	---	---	---	0.000060	---	---	---	---	< 0.00004	---	---	---
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			0.0000030	0.0000080	0.0000040	< 0.000002	0.0000030	0.000011	---	---	---	---	< 0.000002	---	---	---	---	0.0000020	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	---	---	---
Sodium	Na	mg/L			0.69	0.31	0.21	0.15	0.11	0.10	---	---	---	---	0.050	---	---	---	---	0.090	---	---	---	---	0.040	---	---	0.030	---	0.01	---	---	---
Strontium	Sr	mg/L			0.013	0.0089	0.0082	0.0073	0.0065	0.0062	---	---	---	---	0.0057	---	---	---	---	0.0055	---	---	---	---	0.0054	---	---	---	---	0.00484	---	---	---
Thallium	Th	mg/L			0.0000080	0.000022	0.0000060	0.0000050	0.0000050	0.0000080	---	---	---	---	0.0000090	---	---	---	---	< 0.000005	---	---	---	---	< 0.000005	---	---	---	---	0.00001	---	---	---
Tin	Sn	mg/L			0.0014	0.00030	0.000070	0.00011	0.000060	0.000030	---	---	---	---	0.000040	---	---	---	---	0.000060	---	---	---	---	0.000020	---	---	---	---	0.00002	---	---	---
Titanium	Ti	mg/L			0.00028	0.00029	0.00033	0.00013	0.00023	0.00014	---	---	---	---	0.00017	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---
Uranium	U	mg/L			0.00029	0.00041	0.00055	0.00062	0.00060	0.00052	---	---	---	---	0.00086	---	---	---	---	0.00045	---	---	---	---	0.00038	---	---	---	---	0.000547	---	---	---
Vanadium	V	mg/L			0.00057	0.00055	0.00051	0.00063	0.00047	0.00045	---	---	---	---	0.00034	---	---	---	---	0.00028	---	---	---	---	0.00022	---	---	---	---	0.00018	---	---	---
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Humidity Cell Test Cycle - AMQ-ENV-028 Greywacke (S3c) (Cell Terminated)																						
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24
PHYSICAL TESTS																											
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	900	900	900	900
Leachate Volume Recovered		mL			928	986	978	985	1002	996	1010	1007	1011	1008	1009	960	952	978	980	986	1003	997	998	1006	1003	887	890	881	898
pH		-	**6.0 - 9.0**	6.0 - 9.0	**4.6**	**4.4**	**4.5**	**4.4**	**4.3**	**4.4**	**4.5**	**4.2**	**4.5**	**5.3**	**4.3**	**4.2**	**4.2**	**4.3**	**4.4**	**4.4**	**4.5**	**4.5**	**4.6**	**4.5**	**4.4**	**4.3**	**4.2**	**4.1**	**4.1**
Conductivity		µS/cm			238	155	122	118	108	102	110	108	96	73	91	103	126	123	100	91	81	82	47	68	71	76	92	100	102
ANIONS & NUTRIUENTS																											
Acidity	as CaCO3	mg/L			29	17	16	18	16	17	18	19	15	9.0	19	21	30	29	23	18	19	19	13	15	14	16	19	22	21
Alkalinity	as CaCO4	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloride	Cl	mg/L	**1000**	500	1.0	< 1	< 1	< 1	< 1	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	< 1	< 1	< 1	< 1
Fluoride	Fe	mg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Phosphorus	P	mg/L	**1**	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	< 0.003	0.0030	< 0.003	< 0.003
Sulphate	SO4	mg/L			97	59	46	44	34	33	37	34	32	26	31	29	41	44	32	28	25	26	20	21	20	21	25	29	27
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																											
Aluminum	Al	mg/L	**1**	1	0.42	0.25	0.19	0.21	0.24	0.25	---	---	---	---	0.27	---	---	---	---	0.12	---	---	---	---	0.090	0.11	0.19	0.31	0.372
Antimony	Sb	mg/L			0.00030	0.00030	0.00050	0.00020	0.00020	< 0.0002	---	---	---	---	0.00020	---	---	---	---	< 0.0002	---	---	---	---	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Arsenic	As	mg/L	**0.3**	0.1	0.029	0.025	0.022	0.030	0.026	0.022	---	---	---	---	0.019	---	---	---	---	0.014	---	---	---	---	0.0085	0.0083	0.0096	0.0093	0.0082
Barium	Ba	mg/L			0.035	0.014	0.0076	0.0078	0.0053	0.0042	---	---	---	---	0.0042	---	---	---	---	0.0028	---	---	---	---	0.0034	0.0046	0.0038	0.0032	0.00279
Beryllium	Be	mg/L			0.0011	0.00080	0.00073	0.00090	0.00087	0.00091	---	---	---	---	0.00085	---	---	---	---	0.00054	---	---	---	---	0.00046	0.00054	0.00071	0.00085	0.00091
Bismuth	Bi	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Boron	B	mg/L			0.0029	0.0030	0.0028	0.0024	0.0023	0.0017	---	---	---	---	0.0034	---	---	---	---	0.0030	---	---	---	---	0.0050	0.0030	0.0030	< 0.002	< 0.002
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	0.0012	0.00086	0.00065	0.00077	0.00070	0.00068	---	---	---	---	0.00055	---	---	---	---	0.00044	---	---	---	---	0.00027	0.00027	0.00035	0.00038	0.000362
Calcium	Ca	mg/L			16	10	5.5	5.1	3.7	3.7	4.2	3.9	3.6	2.3	3.0	2.6	3.4	3.5	2.7	2.3	2.2	2.0	1.6	1.6	1.6	1.6	1.8	1.9	1.9
Chromium	Cr	mg/L			0.00013	0.000090	0.000070	0.000070	0.000080	0.000080	---	---	---	---	0.000070	---	---	---	---	0.000080	---	---	---	---	< 0.00003	< 0.00003	0.000070	0.000080	0.00009
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.16	0.11	0.10	0.097	0.081	0.067	---	---	---	---	0.057	---	---	---	---	0.036	---	---	---	---	0.022	0.023	0.029	0.030	0.0319
Copper	Cu	mg/L	**0.1**	0.1	**0.15**	0.090	0.083	0.082	0.079	0.076	---	---	---	---	0.064	---	---	---	---	0.039	---	---	---	---	0.029	0.044	0.056	0.061	0.0665
Iron	Fe	mg/L			10	5.9	4.9	5.9	5.8	5.7	---	---	---	---	6.4	---	---	---	---	7.3	---	---	---	---	5.0	5.2	5.4	5.5	4.82
Lead	Pb	mg/L	**0.1**	0.1	0.0040	0.0032	0.0016	0.0014	0.0013	0.0017	---	---	---	---	0.0015	---	---	---	---	0.00099	---	---	---	---	0.0010	0.0010	0.0012	0.0014	0.00118
Lithium	Li	mg/L			0.0094	0.0064	0.0060	0.0058	0.0053	0.0055	---	---	---	---	0.0049	---	---	---	---	0.0046	---	---	---	---	0.0038	0.0033	0.0043	0.0047	0.00464
Magnesium	Mg	mg/L			5.3	3.6	2.5	2.6	2.2	2.0	---	---	---	---	1.7	---	---	---	---	1.4	---	---	---	---	0.88	0.94	1.1	1.1	1.12
Manganese	Mn	mg/L			3.1	2.3	1.9	2.1	1.8	1.7	---	---	---	---	1.6	---	---	---	---	1.7	---	---	---	---	1.2	1.1	1.2	1.2	1.23
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	0.000010	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	Mo	mg/L			0.000040	0.00012	0.000030	0.00012	0.000050	0.000090	---	---	---	---	0.000030	---	---	---	---	0.0018	---	---	---	---	< 0.00001	0.00014	0.000030	0.000010	0.00001
Nickel	Ni	mg/L	**0.2**	0.2	**0.34**	**0.25**	**0.20**	**0.21**	0.18	0.16	---	---	---	---	0.13	---	---	---	---	0.088	---	---	---	---	0.045	0.048	0.058	0.062	0.0684
Potassium	K	mg/L			6.0	3.7	2.4	2.4	2.0	1.5	---	---	---	---	1.1	---	---	---	---	0.63	---	---	---	---	0.46	0.65	0.68	0.60	0.507
Selenium	Se	mg/L			0.0037	0.0025	0.0020	0.0026	0.0019	0.0016	---	---	---	---	0.0014	---	---	---	---	0.00088	---	---	---	---	0.00066	0.00066	0.00062	0.00066	0.00061
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			< 0.000002	< 0.000002	0.0000020	< 0.000002	< 0.000002	< 0.000002	---	---	---	---	0.0000030	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	< 0.000002	0.0000030	< 0.000002	< 0.000002
Sodium	Na	mg/L			0.34	0.25	0.20	0.21	0.18	0.16	---	---	---	---	0.13	---	---	---	---	0.088	---	---	---	---	0.040	0	0.040	0.020	0.02
Strontium	Sr	mg/L			0.056	0.039	0.023	0.021	0.017	0.014	---	---	---	---	0.012	---	---	---	---	0.0088	---	---	---	---	0.0074	0.0072	0.0077	0.0075	0.00734
Thallium	Th	mg/L			0.000076	0.000058	0.000044	0.000041	0.000034	0.000028	---	---	---	---	0.000035	---	---	---	---	0.000012	---	---	---	---	0.0000090	0.000024	0.000032	0.000031	0.000025
Tin	Sn	mg/L			0.00078	0.00030	0.00023	0.00012	0.000070	0.00033	---	---	---	---	0.000070	---	---	---	---	0.000040	---	---	---	---	0.000040	0.000060	0.000090	0.000070	0.00006
Titanium	Ti	mg/L			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	---	---	---	---	0.00013	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Uranium	U	mg/L			0.0020	0.0018	0.0017	0.0016	0.0018	0.0019	---	---	---	---	0.0026	---	---	---	---	0.0014	---	---	---	---	0.0011	0.0015	0.0022	0.0026	0.00283
Vanadium	V	mg/L			0.000020	0.000030	0.000010	< 0.00001	0.000020	0.000020	---	---	---	---	< 0.00001	---	---	---	---	0.000010	---	---	---	---	< 0.00001	< 0.00001	0.000020	0.000010	0.00001
Zinc	Zn	mg/L	**0.4**	0.2	0.11	0.11	0.083	0.099	0.088	0.084	---	---	---	---	0.078	---	---	---	---	0.065	---	---	---	---	0.042	0.044	0.053	0.057	0.058

Notes:
1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.
2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Humidity Cell Test Cycle - AMQ-ENV-040 Greywacke (S3c)																											
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28
PHYSICAL TESTS																																
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Leachate Volume Recovered		mL			936	980	986	987	1004	989	1014	1006	1014	1001	1007	977	961	964	978	976	978	984	979	979	981	995	1003	1010	1008	1005	1002	979	985
pH		-	**6.0 - 9.0**	6.0 - 9.0	7.3	6.8	6.7	7.1	7.0	7.0	6.9	6.8	7.1	6.9	6.5	6.7	6.6	6.6	6.5	6.2	6.4	6.3	6.2	6.4	6.2	6.4	6.4	6.4	6.6	6.5	6.3	6.3	6.2
Conductivity		µS/cm			85	68	42	34	31	28	27	29	24	19	18	23	24	25	27	29	26	28	22	26	29	28	26	27	33	22	22	26	24
ANIONS & NUTRIUENTS																																
Acidity	as CaCO3	mg/L			< 2	2.0	2.0	3.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	2.0	2.0	< 2	2.0	3.0	< 2	3.0	3.0	< 2	2.0	< 2	< 2	2.0	< 2	4	< 2	4	4.0
Alkalinity	as CaCO4	mg/L			6.0	4.0	3.0	3.0	3.0	4.0	3.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0	< 2	< 2	< 2	2.0	< 2	2.0	< 2	< 2	< 2	2.0	2.0	< 2	< 2	< 2
Chloride	Cl	mg/L	**1000**	500	2.0	2.0	1.0	< 1	< 1	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---
Fluoride	Fe	mg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---
Phosphorus	P	mg/L	**1**	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	---	---	---	---	0.0050	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---
Sulphate	SO4	mg/L			21	18	11	8.0	7.0	6.0	6.0	6.0	5.0	4.0	5.0	5.0	6.0	7.0	8.0	8.0	7.0	8.0	6.0	7.0	8.0	8.0	7.0	8.0	8.0	5.0	6.0	7.0	7.0
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																																
Aluminum	Al	mg/L	**1**	1	0.010	0.010	0.0090	0.012	0.010	0.0080	---	---	---	---	0.0080	---	---	---	---	0.0030	---	---	---	---	< 0.001	---	---	---	---	0.003	---	---	---
Antimony	Sb	mg/L			0.00060	0.00050	0.00050	0.00040	0.00040	0.00030	---	---	---	---	0.00030	---	---	---	---	0.00030	---	---	---	---	< 0.0002	---	---	---	---	< 0.0002	---	---	---
Arsenic	As	mg/L	**0.3**	0.1	0.0030	0.0030	0.0028	0.0039	0.0033	0.0032	---	---	---	---	0.0022	---	---	---	---	0.0031	---	---	---	---	0.0029	---	---	---	---	0.003	---	---	---
Barium	Ba	mg/L			0.0044	0.0038	0.0020	0.0016	0.0012	0.0011	---	---	---	---	0.00075	---	---	---	---	0.0010	---	---	---	---	0.00074	---	---	---	---	0.00066	---	---	---
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	0.0000090	---	---	---	---	0.000016	---	---	---	---	0.000017	---	---	---	---	0.000015	---	---	---
Bismuth	Bi	mg/L			< 0.000007	0.0000070	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	0.0000090	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---
Boron	B	mg/L			0.0068	0.0083	0.0079	0.0079	0.0063	0.0064	---	---	---	---	0.0030	---	---	---	---	0.0067	---	---	---	---	0.0090	---	---	---	---	0.005	---	---	---
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	0.0000060	< 0.000003	0.0000050	< 0.000003	< 0.000003	< 0.000003	---	---	---	---	< 0.000003	---	---	---	---	0.0000030	---	---	---	---	0.0000080	---	---	---	---	< 0.000003	---	---	---
Calcium	Ca	mg/L			2.8	2.9	1.5	1.1	0.86	0.82	0.89	1.1	0.97	0.65	0.79	0.96	1.1	1.3	1.4	1.4	1.3	1.2	1.1	1.3	1.3	1.3	1.1	1.1	1.8	1.01	0.96	1.30	1.13
Chromium	Cr	mg/L			< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---	0.000040	---	---	---	---	< 0.00003	---	---	---	---	< 0.00003	---	---	---
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00012	0.00012	0.000099	0.000072	0.000089	0.00013	---	---	---	---	0.00020	---	---	---	---	0.00075	---	---	---	---	0.00092	---	---	---	---	0.000686	---	---	---
Copper	Cu	mg/L	**0.1**	0.1	0.00059	0.00049	0.00031	0.00024	0.00024	0.00027	---	---	---	---	0.00017	---	---	---	---	0.00018	---	---	---	---	0.00016	---	---	---	---	0.00058	---	---	---
Iron	Fe	mg/L			0.013	0.011	0.0090	0.010	0.011	0.010	---	---	---	---	0.017	---	---	---	---	0.089	---	---	---	---	0.12	---	---	---	---	0.093	---	---	---
Lead	Pb	mg/L	**0.1**	0.1	0.00019	0.00011	0.000020	0.000030	< 0.00001	0.000020	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---
Lithium	Li	mg/L			0.00024	0.00027	0.00023	0.00018	0.00015	0.00018	---	---	---	---	0.00015	---	---	---	---	0.00025	---	---	---	---	0.00025	---	---	---	---	0.000193	---	---	---
Magnesium	Mg	mg/L			0.46	0.49	0.27	0.21	0.17	0.18	---	---	---	---	0.18	---	---	---	---	0.43	---	---	---	---	0.46	---	---	---	---	0.349	---	---	---
Manganese	Mn	mg/L			0.0095	0.010	0.0075	0.0066	0.0069	0.0090	---	---	---	---	0.013	---	---	---	---	0.054	---	---	---	---	0.081	---	---	---	---	0.0702	---	---	---
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---
Molybdenum	Mo	mg/L			0.00043	0.00015	0.000070	0.00012	0.000070	0.000060	---	---	---	---	0.000040	---	---	---	---	0.0011	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---
Nickel	Ni	mg/L	**0.2**	0.2	0.00080	0.00090	0.00060	0.00040	0.00040	0.00050	---	---	---	---	0.00050	---	---	---	---	0.0023	---	---	---	---	0.0026	---	---	---	---	0.0019	---	---	---
Potassium	K	mg/L			13	11	6.7	6.2	5.1	5.0	---	---	---	---	3.6	---	---	---	---	3.7	---	---	---	---	3.3	---	---	---	---	2.58	---	---	---
Selenium	Se	mg/L			0.00019	0.00012	0.00011	0.000080	0.000080	0.000070	---	---	---	---	0.000060	---	---	---	---	0.000090	---	---	---	---	0.000060	---	---	---	---	0.00004	---	---	---
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			0.0000070	0.000015	0.0000040	< 0.000002	0.0000050	0.0000050	---	---	---	---	0.0000020	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	---	---	---
Sodium	Na	mg/L			0.65	0.62	0.40	0.33	0.24	0.22	---	---	---	---	0.13	---	---	---	---	0.16	---	---	---	---	0.090	---	---	---	---	0.04	---	---	---
Strontium	Sr	mg/L			0.0056	0.0055	0.0026	0.0018	0.0014	0.0015	---	---	---	---	0.0010	---	---	---	---	0.0020	---	---	---	---	0.0021	---	---	---	---	0.00145	---	---	---
Thallium	Th	mg/L			0.0000090	0.000012	< 0.000005	0.0000070	< 0.000005	< 0.000005	---	---	---	---	0.0000050	---	---	---	---	< 0.000005	---	---	---	---	< 0.000005	---	---	---	---	0.000005	---	---	---
Tin	Sn	mg/L			0.0012	0.00036	0.000060	0.00010	0.00013	0.000030	---	---	---	---	0.000040	---	---	---	---	0.000030	---	---	---	---	0.000050	---	---	---	---	0.00001	---	---	---
Titanium	Ti	mg/L			0.00012	0.000090	< 0.00005	< 0.00005	< 0.00005	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---
Uranium	U	mg/L			0.000069	0.000054	0.000049	0.000092	0.000062	0.000053	---	---	---	---	0.000029	---	---	---	---	0.000059	---	---	---	---	0.000073	---	---	---	---	0.000038	---	---	---
Vanadium	V	mg/L			0.000050	0.000050	0.000050	0.000040	0.000060	0.000040	---	---	---	---	0.000020	---	---	---	---	0.000020	---	---	---	---	< 0.00001	---	---	---	---	0.00001	---	---	---
Zinc	Zn	mg/L	**0.4**	0.2	0.0040	0.0050	0.0030	0.0020	0.0020	< 0.002	---	---	---	---	< 0.002	---	---	---	---	0.0040	---	---	---	---	0.0040	---	---	---	---	< 0.002	---	---	---

Notes:
1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.
2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Humidity Cell Test Cycle - AMQ-ENV-037 Greywacke (S3c)																											
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28
PHYSICAL TESTS																																
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Leachate Volume Recovered		mL			938	966	972	986	989	999	996	996	1005	992	1005	964	951	970	986	988	1003	997	1000	1003	1004	989	996	1004	994	1008	1002	994	992
pH		-	**6.0 - 9.0**	6.0 - 9.0	7.3	7.3	7.4	7.6	7.4	7.4	7.4	7.2	7.5	7.4	7.3	7.2	7.2	7.1	7.1	7.0	7.2	7.1	6.9	7.0	7.2	7.2	7.0	7.3	7.1	7.0	7.1	7.1	7.0
Conductivity		µS/cm			30	20	19	18	20	18	16	14	15	14	13	12	12	13	13	14	12	13	12	14	11	13	12	18	11	11	12	12	10
ANIONS & NUTRIUENTS																																
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			10	7.0	7.0	8.0	8.0	8.0	7.0	6.0	7.0	6.0	6.0	6.0	5.0	5.0	6.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0	6.0	5.0	5.0	5.0	4.0	4.0
Chloride	Cl	mg/L	**1000**	500	< 1	< 1	< 1	< 1	< 1	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---
Fluoride	Fe	mg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---
Phosphorus	P	mg/L	**1**	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	---	---	---	---	0.0050	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---
Sulphate	SO4	mg/L			2.0	1.0	2.0	2.0	2.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0	2.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	1.0
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																																
Aluminum	Al	mg/L	**1**	1	0.061	0.061	0.053	0.076	0.064	0.061	---	---	---	---	0.063	---	---	---	---	0.049	---	---	---	---	0.050	---	---	---	---	0.037	---	---	---
Antimony	Sb	mg/L			0.0016	0.0012	0.0022	0.0021	0.0016	0.0013	---	---	---	---	0.00080	---	---	---	---	0.00070	---	---	---	---	0.00050	---	---	---	---	0.0004	---	---	---
Arsenic	As	mg/L	**0.3**	0.1	0.080	0.050	0.046	0.053	0.038	0.034	---	---	---	---	0.022	---	---	---	---	0.021	---	---	---	---	0.019	---	---	---	---	0.0152	---	---	---
Barium	Ba	mg/L			0.00069	0.00051	0.00037	0.00042	0.00037	0.00039	---	---	---	---	0.00033	---	---	---	---	0.00041	---	---	---	---	0.00023	---	---	---	---	0.00028	---	---	---
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---
Bismuth	Bi	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---
Boron	B	mg/L			0.0022	0.0019	0.0025	0.0020	0.0015	0.00090	---	---	---	---	< 0.0002	---	---	---	---	0.0014	---	---	---	---	0.0030	---	---	---	---	< 0.002	---	---	---
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	0.000016	0.0000040	0.0000030	< 0.000003	< 0.000003	< 0.000003	---	---	---	---	< 0.000003	---	---	---	---	< 0.000003	---	---	---	---	< 0.000003	---	---	---	---	< 0.000003	---	---	---
Calcium	Ca	mg/L			3.6	2.3	2.1	2.6	2.3	2.2	2.1	2.0	2.3	2.0	2.0	1.6	1.7	2.0	1.9	1.8	1.9	1.8	1.6	1.7	1.7	1.5	1.6	1.6	1.5	1.6	1.8	1.8	1.6
Chromium	Cr	mg/L			< 0.00003	< 0.00003	0.0024	< 0.00003	< 0.00003	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---	0.000040	---	---	---	---	< 0.00003	---	---	---	---	< 0.00003	---	---	---
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00017	0.000092	0.00014	0.000079	0.000066	0.000077	---	---	---	---	0.000065	---	---	---	---	0.000053	---	---	---	---	0.000087	---	---	---	---	0.00007	---	---	---
Copper	Cu	mg/L	**0.1**	0.1	0.00031	0.00029	0.00016	0.00018	0.00025	0.00014	---	---	---	---	0.00025	---	---	---	---	0.00026	---	---	---	---	0.00010	---	---	---	---	0.00051	---	---	---
Iron	Fe	mg/L			0.0080	0.0070	< 0.007	< 0.007	< 0.007	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---
Lead	Pb	mg/L	**0.1**	0.1	0.00017	0.000050	0.000040	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---
Lithium	Li	mg/L			0.00058	0.00041	0.00041	0.00038	0.00033	0.00030	---	---	---	---	0.00020	---	---	---	---	0.00021	---	---	---	---	0.00016	---	---	---	---	0.000115	---	---	---
Magnesium	Mg	mg/L			0.34	0.23	0.24	0.26	0.22	0.23	---	---	---	---	0.18	---	---	---	---	0.17	---	---	---	---	0.14	---	---	---	---	0.122	---	---	---
Manganese	Mn	mg/L			0.023	0.017	0.015	0.016	0.014	0.015	---	---	---	---	0.014	---	---	---	---	0.011	---	---	---	---	0.013	---	---	---	---	0.0152	---	---	---
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	0.000010	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---
Molybdenum	Mo	mg/L			0.0011	0.00060	0.00098	0.00053	0.00040	0.00031	---	---	---	---	0.00018	---	---	---	---	0.00092	---	---	---	---	0.00010	---	---	---	---	0.00012	---	---	---
Nickel	Ni	mg/L	**0.2**	0.2	0.0025	0.0012	0.00090	0.00040	0.00030	0.00020	---	---	---	---	0.00010	---	---	---	---	0.00010	---	---	---	---	< 0.0001	---	---	---	---	< 0.0001	---	---	---
Potassium	K	mg/L			2.3	1.4	1.1	1.2	0.89	0.83	---	---	---	---	0.61	---	---	---	---	0.49	---	---	---	---	0.40	---	---	---	---	0.319	---	---	---
Selenium	Se	mg/L			0.000080	< 0.00004	0.000040	< 0.00004	< 0.00004	< 0.00004	---	---	---	---	< 0.00004	---	---	---	---	< 0.00004	---	---	---	---	< 0.00004	---	---	---	---	< 0.00004	---	---	---
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			< 0.000002	0.0000020	< 0.000002	< 0.000002	< 0.000002	< 0.000002	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	---	---	---
Sodium	Na	mg/L			0.49	0.24	0.22	0.17	0.11	0.10	---	---	---	---	0.040	---	---	---	---	0.080	---	---	---	---	0.030	---	---	---	---	< 0.01	---	---	---
Strontium	Sr	mg/L			0.0082	0.0056	0.0060	0.0066	0.0057	0.0058	---	---	---	---	0.0051	---	---	---	---	0.0046	---	---	---	---	0.0046	---	---	---	---	0.00404	---	---	---
Thallium	Th	mg/L			< 0.000005	0.0000050	0.0000070	< 0.000005	< 0.000005	< 0.000005	---	---	---	---	< 0.000005	---	---	---	---	< 0.000005	---	---	---	---	< 0.000005	---	---	---	---	< 0.000005	---	---	---
Tin	Sn	mg/L			0.00087	0.00016	< 0.00001	< 0.00001	0.000080	< 0.00001	---	---	---	---	0.00032	---	---	---	---	0.000020	---	---	---	---	0.000020	---	---	---	---	0.00004	---	---	---
Titanium	Ti	mg/L			0.00025	0.00026	0.000070	0.000090	< 0.00005	< 0.00005	---	---	---	---	0.00010	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---
Uranium	U	mg/L			0.00038	0.00059	0.0017	0.0018	0.0019	0.0017	---	---	---	---	0.0012	---	---	---	---	0.00097	---	---	---	---	0.00068	---	---	---	---	0.000525	---	---	---
Vanadium	V	mg/L			0.00043	0.00039	0.00040	0.00046	0.00037	0.00034	---	---	---	---	0.00028	---	---	---	---	0.00022	---	---	---	---	0.00017	---	---	---	---	0.00012	---	---	---
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Humidity Cell Test Cycle - AMQ-ENV-114 Intermediate Intrusive (8b)																											
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28
PHYSICAL TESTS																																
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Leachate Volume Recovered		mL			921	959	955	967	981	988	983	992	999	987	991	972	954	954	988	987	987	995	988	999	995	974	969	978	991	998	1000	1000	999
pH		-	**6.0 - 9.0**	6.0 - 9.0	7.5	7.0	7.1	7.4	7.3	7.2	7.2	6.9	7.1	7.1	6.9	6.9	6.8	6.8	6.8	6.8	6.7	6.7	6.6	6.6	6.8	6.6	6.7	6.8	6.7	6.9	6.9	6.9	6.8
Conductivity		µS/cm			34	20	15	16	18	15	13	8.0	11	10	7.0	9.0	7.0	7.0	10	11	9.0	15	8.0	11	9.0	9.0	10	11	10	10.0	10.0	10	8
ANIONS & NUTRIUENTS																																
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	2.0	< 2	< 2	2.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			7.0	5.0	4.0	5.0	5.0	5.0	4.0	4.0	4.0	4.0	3.0	4.0	3.0	3.0	2.0	3.0	2.0	4.0	2.0	2.0	3.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
Chloride	Cl	mg/L	**1000**	500	< 1	< 1	< 1	< 1	< 1	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---
Fluoride	Fe	mg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---
Phosphorus	P	mg/L	**1**	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---
Sulphate	SO4	mg/L			4.0	3.0	2.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																																
Aluminum	Al	mg/L	**1**	1	0.062	0.064	0.062	0.072	0.057	0.050	---	---	---	---	0.048	---	---	---	---	0.031	---	---	---	---	0.026	---	---	---	---	0.022	---	---	---
Antimony	Sb	mg/L			0.00060	0.00050	0.00050	0.00060	0.00070	0.00060	---	---	---	---	0.00040	---	---	---	---	0.00030	---	---	---	---	< 0.0002	---	---	---	---	0.0002	---	---	---
Arsenic	As	mg/L	**0.3**	0.1	0.012	0.0083	0.0068	0.0089	0.0070	0.0062	---	---	---	---	0.0045	---	---	---	---	0.0027	---	---	---	---	0.0023	---	---	---	---	0.0024	---	---	---
Barium	Ba	mg/L			0.0047	0.0033	0.0022	0.0023	0.0024	0.0024	---	---	---	---	0.0018	---	---	---	---	0.0022	---	---	---	---	0.0017	---	---	---	---	0.00199	---	---	---
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---
Bismuth	Bi	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---
Boron	B	mg/L			0.0022	0.0019	0.0018	0.0019	0.0017	0.0012	---	---	---	---	< 0.0002	---	---	---	---	0.0011	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	0.0000040	< 0.000003	0.0000030	< 0.000003	< 0.000003	< 0.000003	---	---	---	---	< 0.000003	---	---	---	---	0.0000030	---	---	---	---	0.0000030	---	---	---	---	< 0.000003	---	---	---
Calcium	Ca	mg/L			3.4	1.8	1.3	1.6	1.5	1.4	1.3	1.2	1.3	1.1	1.1	0.97	0.95	1.0	1.1	0.95	1.0	0.94	0.82	0.95	0.86	0.79	0.93	1.0	1.0	1.02	1.2	1.1	1.03
Chromium	Cr	mg/L			< 0.00003	0.000030	< 0.00003	< 0.00003	< 0.00003	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---	< 0.00003	---	---	---
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00010	0.00013	0.00015	0.00010	0.00011	0.00012	---	---	---	---	0.00010	---	---	---	---	0.00034	---	---	---	---	0.00030	---	---	---	---	0.000206	---	---	---
Copper	Cu	mg/L	**0.1**	0.1	0.00043	0.00039	0.00036	0.00015	0.00013	0.00026	---	---	---	---	0.00018	---	---	---	---	0.00031	---	---	---	---	0.00013	---	---	---	---	0.00036	---	---	---
Iron	Fe	mg/L			0.0090	0.011	0.0090	< 0.007	< 0.007	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---
Lead	Pb	mg/L	**0.1**	0.1	0.000050	0.000050	0.000030	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	0.000010	---	---	---	---	< 0.00001	---	---	---	---	0.00002	---	---	---
Lithium	Li	mg/L			0.0012	0.0010	0.00092	0.00085	0.00079	0.00074	---	---	---	---	0.00052	---	---	---	---	0.00061	---	---	---	---	0.00057	---	---	---	---	0.000423	---	---	---
Magnesium	Mg	mg/L			0.33	0.20	0.15	0.19	0.17	0.16	---	---	---	---	0.11	---	---	---	---	0.11	---	---	---	---	0.097	---	---	---	---	0.111	---	---	---
Manganese	Mn	mg/L			0.0038	0.0026	0.0019	0.0024	0.0023	0.0025	---	---	---	---	0.0030	---	---	---	---	0.0039	---	---	---	---	0.0045	---	---	---	---	0.00671	---	---	---
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.000010	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---
Molybdenum	Mo	mg/L			0.0061	0.0032	0.0026	0.0020	0.0018	0.0013	---	---	---	---	0.00055	---	---	---	---	0.00085	---	---	---	---	0.00011	---	---	---	---	0.00017	---	---	---
Nickel	Ni	mg/L	**0.2**	0.2	0.0011	0.00050	0.00030	0.00040	0.00020	0.00020	---	---	---	---	0.00010	---	---	---	---	0.00040	---	---	---	---	0.00030	---	---	---	---	0.0002	---	---	---
Potassium	K	mg/L			2.8	1.8	1.3	1.5	1.2	1.1	---	---	---	---	0.88	---	---	---	---	0.79	---	---	---	---	0.68	---	---	---	---	0.643	---	---	---
Selenium	Se	mg/L			0.00024	0.00011	0.000090	0.000090	0.000080	< 0.00004	---	---	---	---	< 0.00004	---	---	---	---	0.000070	---	---	---	---	< 0.00004	---	---	---	---	0.00004	---	---	---
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			0.0000020	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	---	---	---
Sodium	Na	mg/L			0.55	0.25	0.17	0.16	0.11	0.090	---	---	---	---	0.040	---	---	---	---	0.060	---	---	---	---	0.020	---	---	---	---	< 0.01	---	---	---
Strontium	Sr	mg/L			0.0082	0.0044	0.0035	0.0041	0.0037	0.0036	---	---	---	---	0.0027	---	---	---	---	0.0022	---	---	---	---	0.0021	---	---	---	---	0.00223	---	---	---
Thallium	Th	mg/L			0.0000070	0.0000070	0.0000050	< 0.000005	< 0.000005	< 0.000005	---	---	---	---	0.0000050	---	---	---	---	< 0.000005	---	---	---	---	< 0.000005	---	---	---	---	< 0.000005	---	---	---
Tin	Sn	mg/L			0.00076	0.00027	0.000060	0.000060	0.000040	0.000030	---	---	---	---	0.000040	---	---	---	---	0.00011	---	---	---	---	0.000030	---	---	---	---	0.00002	---	---	---
Titanium	Ti	mg/L			0.00041	0.00062	0.00030	0.000060	0.000060	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	0.00013	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---
Uranium	U	mg/L			0.00019	0.00032	0.00042	0.00059	0.00093	0.00089	---	---	---	---	0.00075	---	---	---	---	0.00032	---	---	---	---	0.00027	---	---	---	---	0.000418	---	---	---
Vanadium	V	mg/L			0.0010	0.00089	0.00083	0.0010	0.00087	0.00076	---	---	---	---	0.00058	---	---	---	---	0.00038	---	---	---	---	0.00027	---	---	---	---	0.00027	---	---	---
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Humidity Cell Test Cycle - AMQ-ENV-043 Iron Formation (S9e)																											
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28
PHYSICAL TESTS																																
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Leachate Volume Recovered		mL			876	956	950	962	968	950	971	991	1003	985	991	954	930	924	966	970	967	981	980	971	1009	1008	1016	1004	1010	994	952	959	947
pH		-	**6.0 - 9.0**	6.0 - 9.0	8.2	8.0	7.8	8.2	7.7	7.7	7.6	7.5	7.5	7.6	7.5	7.6	7.3	7.5	7.6	7.3	7.3	7.5	7.2	7.3	7.6	7.6	7.4	7.5	7.4	7.4	7.4	7.4	7.0
Conductivity		µS/cm			49	61	45	38	37	32	31	30	32	28	26	26	23	21	24	25	22	26	22	24	31	28	24	25	23	22	19	21	21
ANIONS & NUTRIUENTS																																
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			14	15	12	13	11	10	10	11	14	10	10	10	8.0	8.0	10	10	8.0	10	11	9.0	13	12	9.0	10	9.0	8	7	8.0	6.0
Chloride	Cl	mg/L	**1000**	500	2.0	3.0	< 1	< 1	< 1	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---
Fluoride	Fe	mg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---
Phosphorus	P	mg/L	**1**	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	---	---	---	---	0.0030	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---
Sulphate	SO4	mg/L			3.0	7.0	6.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	2.0	1.0	2.0	2.0	2.0	1.0
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																																
Aluminum	Al	mg/L	**1**	1	0.018	0.011	0.010	0.011	0.0090	0.011	---	---	---	---	0.010	---	---	---	---	0.0080	---	---	---	---	0.0050	---	---	---	---	0.007	---	---	---
Antimony	Sb	mg/L			0.0062	0.018	0.011	0.012	0.011	0.0074	---	---	---	---	0.0070	---	---	---	---	0.0052	---	---	---	---	0.0063	---	---	---	---	0.0030	---	---	---
Arsenic	As	mg/L	**0.3**	0.1	**0.45**	**2.3**	**1.8**	**2.2**	**1.8**	**1.3**	---	---	---	---	**1.1**	---	---	---	---	**0.95**	---	---	---	---	**1.6**	---	---	---	---	**0.8**	---	---	---
Barium	Ba	mg/L			0.0013	0.0019	0.0017	0.0018	0.0018	0.0017	---	---	---	---	0.0018	---	---	---	---	0.0016	---	---	---	---	0.0024	---	---	---	---	0.0016	---	---	---
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---
Bismuth	Bi	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---
Boron	B	mg/L			0.032	0.047	0.029	0.021	0.015	0.0096	---	---	---	---	0.0027	---	---	---	---	0.0036	---	---	---	---	0.0020	---	---	---	---	< 0.002	---	---	---
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	0.0000080	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	---	---	---	---	< 0.000003	---	---	---	---	< 0.000003	---	---	---	---	< 0.000003	---	---	---	---	< 0.000003	---	---	---
Calcium	Ca	mg/L			3.0	3.4	2.7	3.1	2.9	2.6	2.6	2.8	3.3	2.4	2.7	2.5	2.3	2.3	2.4	2.4	2.4	2.3	2.2	2.2	3.4	2.9	2.3	2.5	2.4	2.3	2.1	2.3	1.9
Chromium	Cr	mg/L			0.00064	0.00034	0.00028	0.00026	0.00025	0.00032	---	---	---	---	0.00020	---	---	---	---	0.00023	---	---	---	---	0.00016	---	---	---	---	0.00020	---	---	---
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00083	0.0014	0.00069	0.00038	0.00031	0.00030	---	---	---	---	0.00030	---	---	---	---	0.00023	---	---	---	---	0.00035	---	---	---	---	0.00030	---	---	---
Copper	Cu	mg/L	**0.1**	0.1	0.00042	0.00027	0.00022	0.00028	0.000030	0.00026	---	---	---	---	0.000080	---	---	---	---	0.00021	---	---	---	---	0.000040	---	---	---	---	0.000400	---	---	---
Iron	Fe	mg/L			0.018	0.0090	0.011	0.0090	0.010	0.013	---	---	---	---	0.010	---	---	---	---	0.0090	---	---	---	---	< 0.007	---	---	---	---	0.010	---	---	---
Lead	Pb	mg/L	**0.1**	0.1	0.00010	0.000050	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---
Lithium	Li	mg/L			0.00034	0.00049	0.00049	0.00045	0.00047	0.00044	---	---	---	---	0.00045	---	---	---	---	0.00046	---	---	---	---	0.00068	---	---	---	---	0.00037	---	---	---
Magnesium	Mg	mg/L			0.70	1.1	0.96	1.0	0.95	0.87	---	---	---	---	0.88	---	---	---	---	0.73	---	---	---	---	1.1	---	---	---	---	0.63	---	---	---
Manganese	Mn	mg/L			0.0090	0.010	0.0074	0.0067	0.0064	0.0055	---	---	---	---	0.0062	---	---	---	---	0.0048	---	---	---	---	0.0074	---	---	---	---	0.0056	---	---	---
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---
Molybdenum	Mo	mg/L			0.00043	0.00049	0.00029	0.00038	0.00027	0.00017	---	---	---	---	0.000060	---	---	---	---	0.00051	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---
Nickel	Ni	mg/L	**0.2**	0.2	0.0082	0.013	0.0058	0.0035	0.0028	0.0024	---	---	---	---	0.0023	---	---	---	---	0.0016	---	---	---	---	0.0026	---	---	---	---	0.0023	---	---	---
Potassium	K	mg/L			2.5	3.0	2.3	2.4	2.2	2.2	---	---	---	---	2.2	---	---	---	---	1.9	---	---	---	---	2.3	---	---	---	---	1.4	---	---	---
Selenium	Se	mg/L			0.00017	0.00028	0.00021	0.00026	0.00026	0.00020	---	---	---	---	0.00013	---	---	---	---	0.00014	---	---	---	---	0.00016	---	---	---	---	0.00009	---	---	---
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			0.0000060	0.000019	0.0000030	0.0000060	< 0.000002	0.0000030	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	---	---	---	---	0.0000020	---	---	---	---	< 0.000002	---	---	---
Sodium	Na	mg/L			4.6	5.0	2.6	1.6	0.95	0.63	---	---	---	---	0.22	---	---	---	---	0.19	---	---	---	---	0.14	---	---	---	---	0.05	---	---	---
Strontium	Sr	mg/L			0.023	0.036	0.036	0.035	0.032	0.029	---	---	---	---	0.024	---	---	---	---	0.018	---	---	---	---	0.025	---	---	---	---	0.014	---	---	---
Thallium	Th	mg/L			0.0000090	0.000010	0.000010	0.0000070	0.0000050	< 0.000005	---	---	---	---	0.000011	---	---	---	---	< 0.000005	---	---	---	---	0.0000090	---	---	---	---	0.000010	---	---	---
Tin	Sn	mg/L			0.00047	0.00022	0.000040	0.00014	0.000050	0.000040	---	---	---	---	0.000060	---	---	---	---	0.00011	---	---	---	---	0.000060	---	---	---	---	0.000100	---	---	---
Titanium	Ti	mg/L			0.00020	0.000080	0.00010	0.000080	0.000060	0.00019	---	---	---	---	0.00019	---	---	---	---	0.000060	---	---	---	---	< 0.00005	---	---	---	---	0.00006	---	---	---
Uranium	U	mg/L			0.0000070	0.000019	0.000014	0.000039	0.000025	0.000029	---	---	---	---	0.000011	---	---	---	---	0.000010	---	---	---	---	0.0000060	---	---	---	---	0.000007	---	---	---
Vanadium	V	mg/L			0.0044	0.0059	0.0048	0.0047	0.0038	0.0033	---	---	---	---	0.0024	---	---	---	---	0.0022	---	---	---	---	0.0022	---	---	---	---	0.0014	---	---	---
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Humidity Cell Test Cycle - AMQ-ENV-032 Ultramafic (0a)																											
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28
PHYSICAL TESTS																																
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Leachate Volume Recovered		mL			900	965	1002	1011	982	968	995	1016	1005	1002	1007	964	930	917	967	978	970	984	966	966	935	994	1005	999	1001	1001	1003	1004	1000
pH		-	**6.0 - 9.0**	6.0 - 9.0	7.3	8.0	7.5	8.0	7.8	7.8	7.5	7.6	7.8	7.8	7.5	7.7	7.5	7.5	7.4	7.3	7.5	7.5	7.2	7.4	7.5	7.5	7.4	7.4	7.3	7.4	7.4	7.4	7.1
Conductivity		µS/cm			43	51	41	36	34	33	29	29	30	30	27	27	25	24	25	26	24	26	22	25	26	25	26	26	24	23	24	23	18
ANIONS & NUTRIUENTS																																
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			10	14	12	12	10	10	11	11	11	11	10	10	8.0	11	10	10	9.0	10	9.0	9.0	10	9.0	10	10	9.0	8	9	8.0	7
Chloride	Cl	mg/L	**1000**	500	2.0	2.0	2.0	1.0	< 1	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---
Fluoride	Fe	mg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---
Phosphorus	P	mg/L	**1**	1.5	0.0030	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	---	---	---	---	0.0080	---	---	---	---	< 0.003	---	---	---	---	0.0030	---	---	---	---	< 0.003	---	---	---
Sulphate	SO4	mg/L			2.0	3.0	3.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0	24	1.0	1.0	2.0	2.0	2.0	1.0
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																																
Aluminum	Al	mg/L	**1**	1	0.010	0.0070	0.0040	0.0040	0.0070	0.0090	---	---	---	---	0.0070	---	---	---	---	0.0050	---	---	---	---	0.0050	---	---	---	---	0.0020	---	---	---
Antimony	Sb	mg/L			0.0063	0.014	0.024	0.025	0.013	0.010	---	---	---	---	0.0091	---	---	---	---	0.0070	---	---	---	---	0.0051	---	---	---	---	0.0047	---	---	---
Arsenic	As	mg/L	**0.3**	0.1	**0.13**	**0.71**	**1.7**	**2.4**	**1.6**	**1.4**	---	---	---	---	**1.2**	---	---	---	---	**1.1**	---	---	---	---	**1.1**	---	---	---	---	**1.1**	---	---	---
Barium	Ba	mg/L			0.0045	0.0064	0.0045	0.0045	0.0041	0.0037	---	---	---	---	0.0034	---	---	---	---	0.0026	---	---	---	---	0.0026	---	---	---	---	0.0034	---	---	---
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---
Bismuth	Bi	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---
Boron	B	mg/L			0.0030	0.0040	0.0035	0.0040	0.0024	0.0016	---	---	---	---	< 0.0002	---	---	---	---	0.0013	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	---	---	---	---	< 0.000003	---	---	---	---	0.0000040	---	---	---	---	< 0.000003	---	---	---	---	< 0.000003	---	---	---
Calcium	Ca	mg/L			3.1	2.9	2.1	2.3	2.1	2.2	2.0	2.1	2.3	2.1	2.2	1.9	1.8	1.9	2.0	1.9	2.0	1.7	1.6	1.7	1.8	2.0	2.1	2.1	2.1	2.1	2.2	2.3	2.5
Chromium	Cr	mg/L			0.00026	0.00016	0.00027	0.00026	0.00025	0.00030	---	---	---	---	0.00015	---	---	---	---	0.00017	---	---	---	---	0.00018	---	---	---	---	< 0.00003	---	---	---
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00011	0.00024	0.00035	0.00029	0.00019	0.00019	---	---	---	---	0.00023	---	---	---	---	0.00017	---	---	---	---	0.00020	---	---	---	---	0.00032	---	---	---
Copper	Cu	mg/L	**0.1**	0.1	0.00045	0.00041	0.00061	0.00019	0.00018	0.0017	---	---	---	---	0.00023	---	---	---	---	0.00020	---	---	---	---	0.000050	---	---	---	---	0.00037	---	---	---
Iron	Fe	mg/L			< 0.007	< 0.007	< 0.007	< 0.007	0.0080	0.0090	---	---	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---	---	0.0070	---	---	---	---	< 0.007	---	---	---
Lead	Pb	mg/L	**0.1**	0.1	0.000040	0.000030	< 0.00001	< 0.00001	< 0.00001	0.00011	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---
Lithium	Li	mg/L			0.00013	0.00027	0.00037	0.00034	0.00030	0.00031	---	---	---	---	0.00033	---	---	---	---	0.00038	---	---	---	---	0.00040	---	---	---	---	0.00037	---	---	---
Magnesium	Mg	mg/L			1.1	1.2	0.98	0.97	0.77	0.74	---	---	---	---	0.70	---	---	---	---	0.54	---	---	---	---	0.52	---	---	---	---	0.59	---	---	---
Manganese	Mn	mg/L			0.0068	0.0065	0.0074	0.0061	0.0052	0.0045	---	---	---	---	0.0061	---	---	---	---	0.0038	---	---	---	---	0.0027	---	---	---	---	0.0037	---	---	---
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---
Molybdenum	Mo	mg/L			0.00028	0.00019	0.000060	0.00015	0.00010	0.000050	---	---	---	---	0.000030	---	---	---	---	0.00036	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---
Nickel	Ni	mg/L	**0.2**	0.2	0.0015	0.0020	0.0031	0.0026	0.0013	0.0012	---	---	---	---	0.0017	---	---	---	---	0.00090	---	---	---	---	0.00090	---	---	---	---	0.0020	---	---	---
Potassium	K	mg/L			5.3	6.5	5.8	5.5	4.2	4.8	---	---	---	---	4.2	---	---	---	---	3.8	---	---	---	---	4.0	---	---	---	---	2.2	---	---	---
Selenium	Se	mg/L			0.000090	0.00010	0.00013	0.00020	0.00018	0.00014	---	---	---	---	0.00017	---	---	---	---	0.00013	---	---	---	---	0.00014	---	---	---	---	0.00010	---	---	---
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			< 0.000002	0.0000060	0.0000080	0.0000020	< 0.000002	0.0000080	---	---	---	---	0.0000020	---	---	---	---	< 0.000002	---	---	---	---	0.0000020	---	---	---	---	< 0.0000002	---	---	---
Sodium	Na	mg/L			0.31	0.26	0.16	0.080	0.040	0.030	---	---	---	---	<0.01	---	---	---	---	0.050	---	---	---	---	<0.01	---	---	---	---	< 0.01	---	---	---
Strontium	Sr	mg/L			0.014	0.016	0.013	0.012	0.010	0.0100	---	---	---	---	0.0088	---	---	---	---	0.0062	---	---	---	---	0.0061	---	---	---	---	0.0067	---	---	---
Thallium	Th	mg/L			0.000011	0.000012	0.000015	0.000012	0.000012	< 0.000005	---	---	---	---	0.000020	---	---	---	---	0.0000050	---	---	---	---	0.000015	---	---	---	---	0.000016	---	---	---
Tin	Sn	mg/L			0.00054	0.00024	0.000060	0.000030	0.000050	0.00052	---	---	---	---	0.000020	---	---	---	---	0.000060	---	---	---	---	0.00010	---	---	---	---	0.000020	---	---	---
Titanium	Ti	mg/L			< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00014	0.00018	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	0.000060	---	---	---	---	0.00005	---	---	---
Uranium	U	mg/L			0.0000070	0.0000020	0.0000040	0.0000090	0.0000011	0.0000080	---	---	---	---	0.0000040	---	---	---	---	0.0000030	---	---	---	---	< 0.0000002	---	---	---	---	0.0000020	---	---	---
Vanadium	V	mg/L			0.0028	0.0051	0.0059	0.0063	0.0053	0.0048	---	---	---	---	0.0035	---	---	---	---	0.0034	---	---	---	---	0.0035	---	---	---	---	0.0023	---	---	---
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.0020	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Humidity Cell Test Cycle - AMQ-ENV15-133										Humidity Cell Test Cycle - AMQ-ENV15-144 Ore (SE9 and 0b)									
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9
PHYSICAL TESTS																								
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Leachate Volume Recovered		mL			902	1000	1000	993	998	988	983	998	995	991	904	924	934	933	1014	1011	936	969	970	948
pH		-	**6.0 - 9.0**	6.0 - 9.0	7.5	7.4	7.4	7.4	7.1	7.5	7.3	7.3	7.3	7.1	8.6	8.2	8.0	8.0	7.8	7.5	7.9	7.9	7.7	7.7
Conductivity		µS/cm			256	192	101	84	61	53	56	68	73	82	73	61	54	49	48	40	38	40	38	37
ANIONS & NUTRIUENTS																								
Acidity	as CaCO3	mg/L			2.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			12	10	11	10	8.0	10.0	7	7	6	6.0	24	17	17	15	16	14	12	11	11	10.0
Chloride	Cl	mg/L	**1000**	500	13	7.0	1.0	1.0	< 1	< 1	---	---	---	---	8.0	6.0	5.0	4.0	3.0	1.0	---	---	---	---
Fluoride	Fe	mg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	---	---	---	---	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	---	---	---	---
Phosphorus	P	mg/L	**1**	1.5	0.0040	0.010	0.012	0.010	0.0040	0.0090	---	---	---	---	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	---	---	---	---
Sulphate	SO4	mg/L			81	57	25	19	12	10	13	16	20	25	3.0	2.0	2.0	2.0	2.0	3.0	3	3	3	3
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																								
Aluminum	Al	mg/L	**1**	1	0.010	0.0080	0.011	0.011	0.0070	0.0120	---	---	---	---	0.079	0.073	0.075	0.092	0.042	0.058	---	---	---	---
Antimony	Sb	mg/L			0.00080	0.0012	0.0012	0.0011	0.00070	0.00070	---	---	---	---	0.0099	0.0065	0.0048	0.0040	0.0058	0.0047	---	---	---	---
Arsenic	As	mg/L	**0.3**	0.1	0.0091	0.015	0.021	0.022	0.015	0.017	---	---	---	---	**0.46**	**0.44**	0.26	0.21	0.15	0.14	---	---	---	---
Barium	Ba	mg/L			0.0077	0.0033	0.0014	0.00097	0.00090	0.00074	---	---	---	---	0.00087	0.00073	0.00081	0.00082	0.0012	0.0014	---	---	---	---
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---
Bismuth	Bi	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	0.0000080	< 0.000007	< 0.000007	0.0000080	0.0000070	< 0.000007	---	---	---	---
Boron	B	mg/L			0.039	0.062	0.055	0.046	0.021	0.030	---	---	---	---	0.047	0.037	0.030	0.024	0.020	0.021	---	---	---	---
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	0.000015	0.000027	0.000021	0.000018	0.0000040	0.0000040	---	---	---	---	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	---	---	---	---
Calcium	Ca	mg/L			14	6.9	3.0	2.6	2.2	2.4	2.7	3.8	4.7	5.5	3.0	2.3	2.4	2.4	2.8	3.4	3.1	3.9	3.6	3.5
Chromium	Cr	mg/L			< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	---	---	---	---	0.00034	0.000090	0.000070	0.000070	< 0.00003	< 0.00003	---	---	---	---
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00041	0.00038	0.00021	0.00010	0.00012	0.00010	---	---	---	---	0.00015	0.000022	0.000024	0.000018	0.000026	0.000034	---	---	---	---
Copper	Cu	mg/L	**0.1**	0.1	0.00027	0.00040	0.00034	0.00041	0.00028	0.00043	---	---	---	---	0.00024	0.00040	0.00047	0.00043	0.00013	0.00030	---	---	---	---
Iron	Fe	mg/L			0.018	0.0080	< 0.007	0.019	< 0.007	< 0.007	---	---	---	---	0.026	0.011	< 0.007	< 0.007	< 0.007	< 0.007	---	---	---	---
Lead	Pb	mg/L	**0.1**	0.1	< 0.00001	0.000030	< 0.00001	< 0.00001	< 0.00001	0.00001	---	---	---	---	0.000020	0.000010	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---
Lithium	Li	mg/L			0.0013	0.00082	0.00050	0.00042	0.00025	0.00035	---	---	---	---	0.00052	0.00056	0.00058	0.00067	0.00062	0.00085	---	---	---	---
Magnesium	Mg	mg/L			3.0	2.1	0.79	0.59	0.48	0.49	---	---	---	---	0.21	0.19	0.18	0.20	0.25	0.28	---	---	---	---
Manganese	Mn	mg/L			0.057	0.021	0.0089	0.0063	0.0077	0.0061	---	---	---	---	0.010	0.015	0.017	0.015	0.024	0.026	---	---	---	---
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---
Molybdenum	Mo	mg/L			0.044	0.087	0.078	0.051	0.031	0.026	---	---	---	---	0.0046	0.0090	0.0018	0.0010	0.0011	0.00079	---	---	---	---
Nickel	Ni	mg/L	**0.2**	0.2	0.0060	0.0057	0.0025	0.0015	0.0016	0.0011	---	---	---	---	0.0015	0.00070	0.00040	0.00020	0.00050	0.00050	---	---	---	---
Potassium	K	mg/L			37	30	17	13	9.6	9.7	---	---	---	---	3.9	2.6	2.5	2.6	2.5	2.6	---	---	---	---
Selenium	Se	mg/L			0.00043	0.00040	0.00020	0.00018	0.000080	0.000120	---	---	---	---	0.00018	0.00018	0.00024	0.00015	0.000060	0.000090	---	---	---	---
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			0.000011	0.0000030	< 0.000002	< 0.000002	< 0.000002	< 0.000002	---	---	---	---	0.000016	0.00013	0.00010	0.000054	0.000025	0.0000080	---	---	---	---
Sodium	Na	mg/L			4.7	4.7	2.4	1.6	1.0	1.0	---	---	---	---	9.4	7.3	5.7	4.9	4.5	3.7	---	---	---	---
Strontium	Sr	mg/L			0.032	0.014	0.0066	0.0050	0.0045	0.0041	---	---	---	---	0.026	0.019	0.019	0.019	0.024	0.023	---	---	---	---
Thallium	Th	mg/L			0.000011	0.0000060	0.0000090	< 0.000005	< 0.000005	< 0.000005	---	---	---	---	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	---	---	---	---
Tin	Sn	mg/L			0.00015	0.000090	0.00012	0.0025	0.00012	0.00020	---	---	---	---	0.00020	0.00013	0.00014	0.00017	0.00017	0.00015	---	---	---	---
Titanium	Ti	mg/L			0.00010	< 0.00005	< 0.00005	0.000070	< 0.00005	< 0.00005	---	---	---	---	0.00046	0.00014	0.000080	0.00015	< 0.00005	0.000050	---	---	---	---
Uranium	U	mg/L			0.00039	0.00068	0.00043	0.00038	0.00046	0.00033	---	---	---	---	0.000026	0.000085	0.000043	0.000038	0.000063	0.000085	---	---	---	---
Vanadium	V	mg/L			0.0083	0.012	0.016	0.015	0.010	0.011	---	---	---	---	0.0018	0.0016	0.0012	0.0011	0.00065	0.00060	---	---	---	---
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---

Notes:
1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.
2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Humidity Cell Test Cycle - Ore Composite																							
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25
PHYSICAL TESTS																												
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Leachate Volume Recovered		mL			902	940	963	1008	1012	986	997	946	938	939	961	936	957	963	967	965	957	948	962	957	1011	998	985	992	995	981
pH		-	**6.0 - 9.0**	6.0 - 9.0	7.2	7.4	7.3	7.5	7.1	7.5	7.2	7.2	6.8	6.9	6.7	6.9	7.1	6.5	6.8	7.0	7.1	7.0	6.9	6.9	6.8	6.8	6.8	6.9	7.0	6.7
Conductivity		µS/cm			187	147	93	94	77	77	69	80	86	79	88	89	103	97	90	101	83	88	94	106	103	80	90	93	90	87
ANIONS & NUTRIUENTS																													
Acidity	as CaCO3	mg/L			11	9.0	14	8.0	5.0	4.0	4.0	5.0	7.0	6.0	14	10	18	15	14	15	17	12	15	15	18	18	16	17	15	15
Alkalinity	as CaCO4	mg/L			12	10	9.0	11	9.0	8.0	8.0	8.0	7.0	6.0	6.0	7.0	5.0	6.0	5.0	6.0	5.0	4.0	5.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0
Chloride	Cl	mg/L	**1000**	500	11	9.0	8.0	8.0	6.0	5.0	---	---	---	---	8.0	---	---	---	---	8.0	---	---	---	---	9.0	---	---	---	---	7
Fluoride	Fe	mg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.28	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06
Phosphorus	P	mg/L	**1**	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003
Sulphate	SO4	mg/L			57	42	21	18	17	16	17	15	21	20	24	22	29	26	24	27	24	25	23	27	30	25	26	27	25	25
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																													
Aluminum	Al	mg/L	**1**	1	0.031	0.028	0.022	0.025	0.024	0.022	---	---	---	---	0.013	---	---	---	---	0.0090	---	---	---	---	0.014	---	---	---	---	0.011
Antimony	Sb	mg/L			0.0028	0.0029	0.0023	0.0025	0.0015	0.0018	---	---	---	---	0.0011	---	---	---	---	0.00060	---	---	---	---	0.00060	---	---	---	---	0.0006
Arsenic	As	mg/L	**0.3**	0.1	0.095	0.15	0.091	0.11	0.078	0.075	---	---	---	---	0.032	---	---	---	---	0.023	---	---	---	---	0.016	---	---	---	---	0.0221
Barium	Ba	mg/L			0.0093	0.0071	0.0047	0.0043	0.0044	0.0044	---	---	---	---	0.0085	---	---	---	---	0.0092	---	---	---	---	0.0099	---	---	---	---	0.00858
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.0000090	0.0000080	---	---	---	---	0.0000080	---	---	---	---	< 0.000007	---	---	---	---	0.000013	---	---	---	---	0.000013
Bismuth	Bi	mg/L			0.000023	0.000032	< 0.000007	0.000037	0.000020	< 0.000007	---	---	---	---	0.000026	---	---	---	---	0.000013	---	---	---	---	0.0000070	---	---	---	---	< 0.000007
Boron	B	mg/L			0.0071	0.0058	0.086	0.0047	0.0036	0.0058	---	---	---	---	< 0.0002	---	---	---	---	0.0097	---	---	---	---	< 0.002	---	---	---	---	< 0.002
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	< 0.000003	< 0.000003	0.000023	< 0.000003	0.0000050	< 0.000003	---	---	---	---	0.000010	---	---	---	---	< 0.000003	---	---	---	---	0.0000030	---	---	---	---	< 0.000003
Calcium	Ca	mg/L			16	16	8.9	8.7	7.1	6.8	7.6	7.9	9.6	9.0	11	9.5	12	9.2	9.1	11	9.1	9.6	9.9	11	11	11	10.5	11	9.9	8.8
Chromium	Cr	mg/L			< 0.00003	0.000060	0.00018	0.000030	< 0.00003	< 0.00003	---	---	---	---	0.000040	---	---	---	---	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---	< 0.00003
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00030	0.00026	0.00029	0.00018	0.00021	0.00019	---	---	---	---	0.00049	---	---	---	---	0.00071	---	---	---	---	0.0012	---	---	---	---	0.00131
Copper	Cu	mg/L	**0.1**	0.1	0.00033	0.00033	0.00048	0.00037	0.00039	0.00040	---	---	---	---	0.00040	---	---	---	---	0.000070	---	---	---	---	0.00066	---	---	---	---	0.00042
Iron	Fe	mg/L			< 0.007	< 0.007	0.010	< 0.007	0.024	0.025	---	---	---	---	< 0.007	---	---	---	---	0.061	---	---	---	---	0.21	---	---	---	---	0.38
Lead	Pb	mg/L	**0.1**	0.1	< 0.00001	0.00014	0.00058	< 0.00001	0.000030	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	0.000010	---	---	---	---	0.00001
Lithium	Li	mg/L			0.0024	0.0022	0.0015	0.0016	0.0014	0.0014	---	---	---	---	0.0018	---	---	---	---	0.0019	---	---	---	---	0.0017	---	---	---	---	0.00165
Magnesium	Mg	mg/L			4.8	3.0	2.1	2.1	1.9	1.7	---	---	---	---	1.6	---	---	---	---	1.6	---	---	---	---	1.8	---	---	---	---	1.52
Manganese	Mn	mg/L			0.096	0.073	0.063	0.069	0.070	0.067	---	---	---	---	0.11	---	---	---	---	0.12	---	---	---	---	0.16	---	---	---	---	0.14
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001
Molybdenum	Mo	mg/L			0.00056	0.00060	0.026	0.00033	0.00024	0.00014	---	---	---	---	0.00024	---	---	---	---	0.00062	---	---	---	---	0.00084	---	---	---	---	0.00002
Nickel	Ni	mg/L	**0.2**	0.2	0.014	0.0070	0.0040	0.0047	0.0043	0.0042	---	---	---	---	0.011	---	---	---	---	0.018	---	---	---	---	0.028	---	---	---	---	0.0507
Potassium	K	mg/L			12	7.9	5.7	6.1	4.7	4.6	---	---	---	---	4.4	---	---	---	---	4.5	---	---	---	---	4.4	---	---	---	---	3.12
Selenium	Se	mg/L			0.00028	0.00020	0.00018	0.00023	< 0.001	< 0.001	---	---	---	---	0.00020	---	---	---	---	0.00015	---	---	---	---	0.00013	---	---	---	---	0.0001
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			0.000097	0.000029	0.000017	0.000031	0.000029	0.000016	---	---	---	---	0.000038	---	---	---	---	0.000028	---	---	---	---	0.000031	---	---	---	---	0.000063
Sodium	Na	mg/L			1.0	0.62	0.39	0.39	0.30	0.25	---	---	---	---	0.090	---	---	---	---	0.090	---	---	---	---	0.060	---	---	---	---	0.04
Strontium	Sr	mg/L			0.073	0.060	0.033	0.030	0.028	0.026	---	---	---	---	0.028	---	---	---	---	0.024	---	---	---	---	0.025	---	---	---	---	0.0198
Thallium	Th	mg/L			0.000010	0.0000060	0.00086	0.000012	< 0.000005	< 0.000005	---	---	---	---	< 0.000005	---	---	---	---	< 0.000005	---	---	---	---	0.0000060	---	---	---	---	0.000007
Tin	Sn	mg/L			0.00017	0.00019	0.00012	0.000040	0.000050	< 0.00001	---	---	---	---	0.00018	---	---	---	---	0.000040	---	---	---	---	0.000090	---	---	---	---	0.00005
Titanium	Ti	mg/L			< 0.00005	< 0.00005	0.0034	< 0.00005	0.00010	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005
Uranium	U	mg/L			0.000034	0.000044	0.000031	0.000053	0.000058	0.00043	---	---	---	---	0.000029	---	---	---	---	0.000024	---	---	---	---	0.000033	---	---	---	---	0.000016
Vanadium	V	mg/L			0.00028	0.00050	0.00077	0.00034	0.00028	0.00028	---	---	---	---	0.00014	---	---	---	---	0.000050	---	---	---	---	0.000020	---	---	---	---	0.00003
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002

Notes:
1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.
2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Humidity Cell Test Cycle - RE-13872/RE-13874 Tailings																		
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19
PHYSICAL TESTS																							
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Leachate Volume Recovered		mL			830	1015	1003	1006	998	1005	1002	1004	969	950	971	882	996	1016	1020	1018	1013	1038	850	1000
pH		-	**6.0 - 9.0**	6.0 - 9.0	8.1	7.9	7.8	7.0	7.0	7.2	7.1	7.2	7.2	7.2	7.3	7.3	7.6	7.4	7.3	7.3	7.4	7.3	7.5	7.6
Conductivity		µS/cm			1410	1250	1350	1030	663	681	692	631	629	456	466	298	427	456	282	320	304	219	240	321
ANIONS & NUTRIUENTS																							
Acidity	as CaCO3	mg/L			< 2	44	112	232	201	296	331	301	256	186	121	25	10	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			40	25	22	11	10	8.0	7.0	7.0	7.0	7.0	11	9.0	16	10	10	9.0	10	11	10	13
Chloride	Cl	mg/L	**1000**	500	29	86	120	210	160	210	---	---	---	---	< 0.2	---	---	---	---	< 1	---	---	---	---
Fluoride	Fe	mg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---
Phosphorus	P	mg/L	**1**	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---
Sulphate	SO4	mg/L			620	570	550	370	190	130	150	150	170	140	140	100	170	200	100	130	120	85	96	130
Nitrate (as N)	as N	mg/L	**20**	50	0.42	0.24	0.20	0.10	< 0.06	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---
Nitrite (as N)	as N	mg/L			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	---	---	---	---	< 0.03	---	---	---	---	< 0.03	---	---	---	---
NH3+NH4		mg/L	**16**	20	4.1	2.4	1.8	0.70	0.30	0.20	---	---	---	---	0.20	---	---	---	---	0.20	---	---	---	---
Cyanate	OCN	mg/L			10	5.9	4.4	1.4	< 1	< 1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		**0.62**	0.12	0.10	0.060	0.030	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			27	17	16	8.6	3.5	2.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																							
Aluminum	Al	mg/L	**1**	1	0.024	0.014	0.015	0.0077	0.0067	0.0060	---	---	---	---	0.0050	---	---	---	---	0.0060	---	---	---	---
Antimony	Sb	mg/L			0.0016	0.0010	0.0011	0.00090	0.0010	0.00090	---	---	---	---	0.00070	---	---	---	---	0.00080	---	---	---	---
Arsenic	As	mg/L	**0.3**	0.1	0.043	0.037	0.037	0.028	0.030	0.026	---	---	---	---	0.031	---	---	---	---	0.048	---	---	---	---
Barium	Ba	mg/L			0.0068	0.0073	0.0088	0.0095	0.0082	0.0087	---	---	---	---	0.0071	---	---	---	---	0.0066	---	---	---	---
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---
Bismuth	Bi	mg/L			0.0000080	0.000016	0.00081	< 0.000007	< 0.000007	0.000012	---	---	---	---	0.0000080	---	---	---	---	< 0.000007	---	---	---	---
Boron	B	mg/L			0.0088	0.0082	0.013	0.0043	0.0040	0.0049	---	---	---	---	0.0071	---	---	---	---	0.0031	---	---	---	---
Bromide	Br	mg/L			< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	---	---	---	---	< 0.3	---	---	---	---	< 0.3	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	0.000014	0.0000030	0.000017	0.0000030	< 0.000003	0.000011	---	---	---	---	0.0000050	---	---	---	---	0.000011	---	---	---	---
Calcium	Ca	mg/L			64	82	100	95	74	85	---	---	---	---	66	---	---	---	---	46	---	---	---	---
Chromium	Cr	mg/L			0.000040	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---
Chromium VI	Cr(VI)	mg/L			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	---	---	---	---	< 0.2	---	---	---	---	< 0.2	---	---	---	---
Cobalt	Co	mg/L			0.014	0.0087	0.011	0.0044	0.0026	0.0025	---	---	---	---	0.0016	---	---	---	---	0.0011	---	---	---	---
Copper	Cu	mg/L	**0.1**	0.1	0.0051	0.018	0.065	**0.26**	0.095	**0.14**	---	---	---	---	0.018	---	---	---	---	0.00035	---	---	---	---
Iron	Fe	mg/L			0.21	0.052	0.017	< 0.007	0.013	0.0090	---	---	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---	---
Lead	Pb	mg/L	**0.1**	0.1	0.000040	< 0.00001	< 0.00001	0.000020	0.000030	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	0.000080	---	---	---	---
Lithium	Li	mg/L			0.0013	0.0018	0.0023	0.0019	0.0022	0.0016	---	---	---	---	0.0019	---	---	---	---	0.0023	---	---	---	---
Magnesium	Mg	mg/L			1.9	2.7	3.3	3.0	2.0	1.7	---	---	---	---	2.2	---	---	---	---	2.0	---	---	---	---
Manganese	Mn	mg/L			0.013	0.025	0.030	0.032	0.033	0.040	---	---	---	---	0.10	---	---	---	---	0.069	---	---	---	---
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---
Molybdenum	Mo	mg/L			0.032	0.017	0.014	0.0039	0.0019	0.0027	---	---	---	---	0.00081	---	---	---	---	0.00070	---	---	---	---
Nickel	Ni	mg/L	**0.2**	0.2	0.0062	0.0064	0.010	0.013	0.013	0.017	---	---	---	---	0.029	---	---	---	---	0.019	---	---	---	---
Potassium	K	mg/L			15	14	14	11	8.4	8.5	---	---	---	---	7.6	---	---	---	---	6.6	---	---	---	---
Selenium	Se	mg/L			< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	---	---	---	---	< 0.001	---	---	---	---	0.00028	---	---	---	---
Silicon	Si	mg/L			0.41	0.31	0.35	0.23	0.29	0.21	---	---	---	---	0.28	---	---	---	---	0.29	---	---	---	---
Silver	Au	mg/L			0.0000040	0.00023	0.0015	0.0016	0.00072	0.00072	---	---	---	---	0.00019	---	---	---	---	0.000018	---	---	---	---
Sodium	Na	mg/L			233	182	174	115	50	43	---	---	---	---	21	---	---	---	---	8.4	---	---	---	---
Strontium	Sr	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thallium	Th	mg/L			< 0.000005	< 0.000005	0.000012	< 0.000005	0.000013	< 0.000005	---	---	---	---	< 0.000005	---	---	---	---	0.000021	---	---	---	---
Tin	Sn	mg/L			0.0079	0.0023	0.0014	0.0015	0.0013	0.0012	---	---	---	---	0.00064	---	---	---	---	0.00064	---	---	---	---
Titanium	Ti	mg/L			< 0.00005	0.000080	< 0.00005	< 0.00005	< 0.00005	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---
Uranium	U	mg/L			0.000075	0.00012	0.00023	0.00012	0.000071	0.000039	---	---	---	---	0.000040	---	---	---	---	0.000019	---	---	---	---
Vanadium	V	mg/L			0.000090	0.000070	0.000040	0.000050	0.000040	0.000040	---	---	---	---	0.000010	---	---	---	---	0.000040	---	---	---	---
Zinc	Zn	mg/L	**0.4**	0.2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---

Notes:
1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.
2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Humidity Cell Test Cycle - RE-13872/RE-13874 Tailings																				
					Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	Week 40
PHYSICAL TESTS																									
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Leachate Volume Recovered		mL			992	944	996	899	930	951	920	983	853	1006	993	985	879	882	843	844	893	825	898	862	881
pH		-	**6.0 - 9.0**	6.0 - 9.0	7.4	7.6	7.1	7.3	8.2	7.6	7.7	7.6	7.2	7.3	7.7	7.7	7.9	7.5	7.2	7.3	7.3	7.6	7.2	7.3	7.2
Conductivity		µS/cm			232	184	204	172	216	207	218	227	222	335	209	179	200	201	192	198	230	208	240	210	274
ANIONS & NUTRIUENTS																									
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	<2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			8.0	12	8.0	9.0	14	9.0	9.0	8.0	9.0	10	9.0	9.0	11	13	11	10	10	11	9.0	10	10
Chloride	Cl	mg/L	**1000**	500	< 1	---	---	---	< 1	---	---	---	< 1	---	---	---	< 1	---	---	---	< 1	---	---	---	< 1
Fluoride	Fe	mg/L			< 0.06	---	---	---	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06
Phosphorus	P	mg/L	**1**	1.5	< 0.003	---	---	---	< 0.003	---	---	---	0.053	---	---	---	0.0070	---	---	---	< 0.003	---	---	---	< 0.003
Sulphate	SO4	mg/L			80	68	78	68	88	81	85	88	85	130	80	76	75	78	78	76	72	81	96	82	97
Nitrate (as N)	as N	mg/L	**20**	50	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06
Nitrite (as N)	as N	mg/L			< 0.03	---	---	---	< 0.03	---	---	---	< 0.03	---	---	---	< 0.03	---	---	---	< 0.03	---	---	---	< 0.03
NH3+NH4		mg/L	**16**	20	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	< 1	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	< 0.01	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	< 2	---	---	---	---	---	---	---	---
DISSOLVED METALS																									
Aluminum	Al	mg/L	**1**	1	0.0060	---	---	---	0.011	---	---	---	0.0080	---	---	---	0.014	---	---	---	0.010	---	---	---	0.0080
Antimony	Sb	mg/L			0.00060	---	---	---	0.00080	---	---	---	0.00040	---	---	---	0.00070	---	---	---	0.00050	---	---	---	0.00050
Arsenic	As	mg/L	**0.3**	0.1	0.044	---	---	---	0.087	---	---	---	0.036	---	---	---	0.064	---	---	---	0.050	---	---	---	0.075
Barium	Ba	mg/L			0.0042	---	---	---	0.0028	---	---	---	0.0029	---	---	---	0.0034	---	---	---	0.0040	---	---	---	0.0038
Beryllium	Be	mg/L			< 0.000007	---	---	---	< 0.000007	---	---	---	< 0.000007	---	---	---	0.000011	---	---	---	< 0.000007	---	---	---	< 0.000007
Bismuth	Bi	mg/L			< 0.000007	---	---	---	< 0.000007	---	---	---	0.000015	---	---	---	0.000016	---	---	---	< 0.000007	---	---	---	< 0.000007
Boron	B	mg/L			0.0021	---	---	---	0.0026	---	---	---	0.0017	---	---	---	0.0017	---	---	---	0.0029	---	---	---	0.0035
Bromide	Br	mg/L			< 0.3	---	---	---	< 0.3	---	---	---	< 0.3	---	---	---	< 0.3	---	---	---	< 0.3	---	---	---	< 0.3
Cadmium	Cd	mg/L	**0.002**	0.002	0.000013	---	---	---	< 0.000003	---	---	---	< 0.000003	---	---	---	0.000011	---	---	---	< 0.000003	---	---	---	< 0.000003
Calcium	Ca	mg/L			29	---	---	---	34	---	---	---	36	---	---	---	31	---	---	---	34	---	---	---	39
Chromium	Cr	mg/L			< 0.00003	---	---	---	< 0.00003	---	---	---	< 0.00003	---	---	---	0.000050	---	---	---	0.000070	---	---	---	< 0.00003
Chromium VI	Cr(VI)	mg/L			< 0.2	---	---	---	< 0.2	---	---	---	< 0.2	---	---	---	< 0.2	---	---	---	< 0.2	---	---	---	< 0.2
Cobalt	Co	mg/L			0.00067	---	---	---	0.00040	---	---	---	0.00039	---	---	---	0.00039	---	---	---	0.00046	---	---	---	0.00040
Copper	Cu	mg/L	**0.1**	0.1	0.00046	---	---	---	0.00062	---	---	---	0.00059	---	---	---	0.0015	---	---	---	0.00057	---	---	---	0.00028
Iron	Fe	mg/L			0.070	---	---	---	0.0070	---	---	---	0.0080	---	---	---	0.012	---	---	---	< 0.007	---	---	---	< 0.007
Lead	Pb	mg/L	**0.1**	0.1	0.000020	---	---	---	< 0.00001	---	---	---	0.000020	---	---	---	0.00012	---	---	---	< 0.00001	---	---	---	< 0.00001
Lithium	Li	mg/L			0.0015	---	---	---	0.0014	---	---	---	0.0012	---	---	---	0.0014	---	---	---	0.0015	---	---	---	0.0016
Magnesium	Mg	mg/L			1.6	---	---	---	0.93	---	---	---	0.89	---	---	---	0.90	---	---	---	1.1	---	---	---	0.96
Manganese	Mn	mg/L			0.052	---	---	---	0.026	---	---	---	0.039	---	---	---	0.024	---	---	---	0.035	---	---	---	0.029
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Molybdenum	Mo	mg/L			0.00069	---	---	---	0.00082	---	---	---	0.0012	---	---	---	0.0011	---	---	---	0.0012	---	---	---	0.0020
Nickel	Ni	mg/L	**0.2**	0.2	0.0099	---	---	---	0.0044	---	---	---	0.0044	---	---	---	0.0029	---	---	---	0.0033	---	---	---	0.0030
Potassium	K	mg/L			4.7	---	---	---	3.7	---	---	---	3.2	---	---	---	3.7	---	---	---	4.3	---	---	---	4.9
Selenium	Se	mg/L			0.00037	---	---	---	0.00025	---	---	---	0.00013	---	---	---	0.00026	---	---	---	0.00021	---	---	---	0.00024
Silicon	Si	mg/L			0.21	---	---	---	0.23	---	---	---	0.16	---	---	---	0.23	---	---	---	0.21	---	---	---	0.29
Silver	Au	mg/L			< 0.000002	---	---	---	< 0.000002	---	---	---	0.0000050	---	---	---	0.000012	---	---	---	< 0.000002	---	---	---	< 0.000002
Sodium	Na	mg/L			3.7	---	---	---	1.7	---	---	---	1.1	---	---	---	0.79	---	---	---	0.86	---	---	---	0.81
Strontium	Sr	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thallium	Th	mg/L			< 0.000005	---	---	---	< 0.000005	---	---	---	0.000034	---	---	---	0.000017	---	---	---	< 0.000005	---	---	---	0.000010
Tin	Sn	mg/L			0.00052	---	---	---	0.00095	---	---	---	0.00043	---	---	---	0.00069	---	---	---	0.00039	---	---	---	0.00040
Titanium	Ti	mg/L			< 0.00005	---	---	---	< 0.00005	---	---	---	< 0.00005	---	---	---	0.000080	---	---	---	0.000060	---	---	---	< 0.00005
Uranium	U	mg/L			0.000017	---	---	---	0.000029	---	---	---	0.000027	---	---	---	0.000025	---	---	---	0.000017	---	---	---	0.000030
Vanadium	V	mg/L			0.000070	---	---	---	0.000060	---	---	---	0.000040	---	---	---	0.000060	---	---	---	0.000040	---	---	---	0.000020
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	---	---	---	< 0.002	---	---	---	< 0.002	---	---	---	< 0.002	---	---	---	< 0.002	---	---	---	< 0.002

Notes:
1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.
2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Large Column - #1 Ultramafic (Oa)																						
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24
PHYSICAL TESTS																											
Leachate Volume Added		mL			4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	750	750	750	2000 / floode	4250
Leachate Volume Recovered		mL			2136	3680	3863	3950	3982	4016	4024	3782	3790	3742	4039	3930	3976	3930	3936	4062	3949	3973	3979	3956	776	728	737	11497	4303
pH		-	**6.0 - 9.0**	6.0 - 9.0	8.5	8.3	8.1	8.0	8.2	8.1	8.1	8.1	8.0	8.0	8.1	8.1	8.1	8.1	8.0	8.0	8.1	8.0	7.9	8.1	8.1	8.1	7.5	8.1	8.0
Conductivity		µS/cm			193	400	384	333	295	243	190	174	157	152	157	130	136	137	136	134	112	116	122	123	236	280	345	165	135
ANIONS & NUTRIUENTS																											
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			30	50	49	47	48	44	42	45	36	41	38	35	36	36	34	35	36	34	33	33	64	69	56	32	36
Chloride	Cl	mg/L	**1000**	500	15	33	12	5.0	2.0	2.0	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	< 1	< 1	< 1	< 1
Fluoride	Fe	mg/L			0.080	0.15	0.12	0.14	0.13	0.11	---	---	---	---	0.090	---	---	---	---	0.070	---	---	---	---	0.10	0.110	0.12	0.06	0.07
Phosphorus	P	mg/L	**1**	1.5	0.0090	0.0040	< 0.003	0.027	< 0.003	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	0.0030	0.008	< 0.003	< 0.003	< 0.003
Sulphate	SO4	mg/L			28	88	96	84	67	53	43	31	29	28	26	22	22	23	21	20	19	19	18	19	42	49	68	37	24
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																											
Aluminum	Al	mg/L	**1**	1	0.013	0.0060	0.0050	0.0070	0.0070	0.0090	---	---	---	---	0.012	---	---	---	---	0.010	---	---	---	---	0.0060	0.007	0.006	0.01	0.011
Antimony	Sb	mg/L			0.0075	0.14	0.14	0.13	0.14	0.13	---	---	---	---	0.088	---	---	---	---	0.064	---	---	---	---	0.10	0.127	0.14	0.0632	0.0571
Arsenic	As	mg/L	**0.3**	0.1	0.27	**11**	**15**	**16**	**16**	**13**	---	---	---	---	**9.0**	---	---	---	---	**6.6**	---	---	---	---	**13**	**15.1**	**18.1**	**7.4**	**7.11**
Barium	Ba	mg/L			0.023	0.049	0.047	0.034	0.037	0.030	---	---	---	---	0.026	---	---	---	---	0.023	---	---	---	---	0.056	0.070	0.0795	0.0292	0.0264
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	0.0000090	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	0.000013	< 0.000007
Bismuth	Bi	mg/L			0.00010	0.000016	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	0.0000090	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Boron	B	mg/L			0.040	0.16	0.13	0.11	0.093	0.055	---	---	---	---	0.032	---	---	---	---	0.018	---	---	---	---	0.026	0.028	0.032	0.019	0.017
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	0.000012	0.000014	< 0.000003	< 0.000003	0.0000040	< 0.000003	---	---	---	---	0.000021	---	---	---	---	< 0.000003	---	---	---	---	< 0.000003	< 0.000003	< 0.000003	0.000006	< 0.000003
Calcium	Ca	mg/L			10	22	24	20	19	14	14	12	11	12	11	9.5	10	10	9.6	9.5	9.4	9.3	8.7	9.3	20	25	27.8	14	12
Chromium	Cr	mg/L			0.0012	0.00045	0.00032	0.00029	0.00033	0.00026	---	---	---	---	0.00024	---	---	---	---	0.00014	---	---	---	---	0.00011	0.00012	0.00013	0.00025	0.00017
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.0013	0.0047	0.0026	0.0017	0.0013	0.0011	---	---	---	---	0.00053	---	---	---	---	0.00049	---	---	---	---	0.00074	0.00103	0.00115	0.000796	0.000629
Copper	Cu	mg/L	**0.1**	0.1	0.0054	0.0022	0.00097	0.00079	0.00079	0.00044	---	---	---	---	0.00015	---	---	---	---	0.00010	---	---	---	---	0.00038	0.00064	0.00028	0.00055	0.00018
Iron	Fe	mg/L			0.018	< 0.007	< 0.007	< 0.007	0.037	< 0.007	---	---	---	---	0.0090	---	---	---	---	0.0080	---	---	---	---	< 0.007	< 0.007	< 0.007	0.057	0.011
Lead	Pb	mg/L	**0.1**	0.1	0.00039	0.00028	0.00010	0.000030	< 0.00001	0.000010	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	0.00005	0.00004
Lithium	Li	mg/L			0.0013	0.0041	0.0040	0.0043	0.0044	0.0026	---	---	---	---	0.0029	---	---	---	---	0.0025	---	---	---	---	0.0048	0.0061	0.00627	0.0028	0.0027
Magnesium	Mg	mg/L			4.2	12	12	11	9.1	8.1	---	---	---	---	4.7	---	---	---	---	3.4	---	---	---	---	6.7	9.3	10.3	4.8	3.81
Manganese	Mn	mg/L			0.0088	0.013	0.015	0.016	0.013	0.010	---	---	---	---	0.0077	---	---	---	---	0.0073	---	---	---	---	0.016	0.0212	0.0215	0.00983	0.00964
Mercury	Hg	mg/L	**0.0004**	0.0004	0.000030	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	Mo	mg/L			0.0014	0.0036	0.0028	0.0019	0.0015	0.0033	---	---	---	---	0.0018	---	---	---	---	0.00065	---	---	---	---	0.00072	0.0010	0.00082	0.00047	0.00024
Nickel	Ni	mg/L	**0.2**	0.2	0.013	0.075	0.068	0.048	0.036	0.028	---	---	---	---	0.0086	---	---	---	---	0.0056	---	---	---	---	0.0089	0.0126	0.015	0.0095	0.0059
Potassium	K	mg/L			21	46	42	36	33	28	---	---	---	---	19	---	---	---	---	14	---	---	---	---	21	28	30.5	17.9	15.2
Selenium	Se	mg/L			0.00084	0.0030	0.0023	0.0012	0.0021	0.00081	---	---	---	---	0.00075	---	---	---	---	0.00051	---	---	---	---	0.00061	0.00074	0.0011	0.0007	0.00051
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			0.000022	0.000018	0.0000060	0.0000050	< 0.000002	< 0.000002	---	---	---	---	0.000013	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.000002
Sodium	Na	mg/L			5.7	13	9.5	7.1	5.0	3.5	---	---	---	---	1.1	---	---	---	---	0.83	0	0	0	---	0.59	0.8	0.88	0.79	0.5
Strontium	Sr	mg/L			0.12	0.33	0.33	0.26	0.26	0.18	---	---	---	---	0.12	---	---	---	---	0.094	---	---	---	---	0.18	0.22	0.256	0.118	0.107
Thallium	Th	mg/L			0.000023	0.000058	0.000082	0.000078	0.000034	0.000064	---	---	---	---	0.000042	---	---	---	---	0.000038	---	---	---	---	0.000055	0.000086	0.000079	0.000077	0.000039
Tin	Sn	mg/L			0.00010	< 0.00001	0.000060	0.000050	< 0.00001	0.000060	---	---	---	---	0.000090	---	---	---	---	0.000030	---	---	---	---	0.000060	0.000020	0.00001	< 0.00001	< 0.00001
Titanium	Ti	mg/L			0.00029	0.000070	0.000090	0.00010	0.00033	0.000080	---	---	---	---	0.00017	---	---	---	---	0.000070	---	---	---	---	< 0.00005	< 0.00005	< 0.00005	0.0001	0.00028
Uranium	U	mg/L			0.000012	0.00016	0.00017	0.00017	0.00017	0.00014	---	---	---	---	0.000098	---	---	---	---	0.000073	---	---	---	---	0.00022	0.000287	0.000197	0.000105	0.000076
Vanadium	V	mg/L			0.0047	0.021	0.022	0.020	0.022	0.021	---	---	---	---	0.019	---	---	---	---	0.014	---	---	---	---	0.016	0.020	0.0215	0.0161	0.0145
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	< 0.002	< 0.002	0.002	< 0.002

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Large Column - #2 Iron Formation (S9e)																						
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24
PHYSICAL TESTS																											
Leachate Volume Added		mL			4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	750	750	750	2000 / floode	4000
Leachate Volume Recovered		mL			2073	3978	4193	4212	4232	4249	4274	4157	4176	4118	4275	4161	4221	4168	4136	4333	4186	4222	4235	4206	787	731	724	11721	4496
pH		-	**6.0 - 9.0**	6.0 - 9.0	8.5	8.3	8.1	8.1	8.1	8.2	8.1	8.1	8.0	8.1	8.0	8.1	8.0	7.9	8.0	8.0	8.0	8.0	7.8	7.9	8.0	8.1	8.0	8.1	7.9
Conductivity		µS/cm			207	542	468	398	324	286	225	247	240	225	225	189	216	213	229	221	187	201	197	201	421	487	532	211	189
ANIONS & NUTRIUENTS																													
Acidity	as CaCO3	mg/L			< 2	28	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			38	69	63	60	56	54	49	46	43	43	41	38	38	37	38	37	35	37	34	35	61	68	64	33	40
Chloride	Cl	mg/L	**1000**	500	15	88	22	7.0	1.0	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	< 1	< 1	< 1	< 1
Fluoride	Fe	mg/L			0.10	0.15	0.13	0.13	0.12	0.11	---	---	---	---	0.080	---	---	---	---	0.070	---	---	---	---	0.11	0.12	0.14	0.06	0.08
Phosphorus	P	mg/L	**1**	1.5	0.011	< 0.003	< 0.003	0.049	< 0.003	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	0.003	< 0.003	< 0.003	< 0.003
Sulphate	SO4	mg/L			28	90	110	93	76	66	55	58	62	61	56	49	57	59	61	62	55	58	54	54	120	120	180	55	48
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																													
Aluminum	Al	mg/L	**1**	1	0.035	0.0080	0.0080	0.0090	0.0090	0.012	---	---	---	---	0.017	---	---	---	---	0.017	---	---	---	---	0.014	0.0130	0.0120	0.0190	0.0200
Antimony	Sb	mg/L			0.013	0.25	0.29	0.23	0.24	0.20	---	---	---	---	0.12	---	---	---	---	0.082	---	---	---	---	0.13	0.16	0.18	0.07	0.07
Arsenic	As	mg/L	**0.3**	0.1	0.24	**12**	**15**	**18**	**17**	**15**	---	---	---	---	**7.7**	---	---	---	---	**5.2**	---	---	---	---	**9.2**	**10**	**12**	**5**	**6**
Barium	Ba	mg/L			0.0072	0.023	0.023	0.016	0.016	0.013	---	---	---	---	0.012	---	---	---	---	0.014	---	---	---	---	0.035	0.046	0.053	0.015	0.014
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	0.0000090	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth	Bi	mg/L			0.000068	0.00011	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	0.000013	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Boron	B	mg/L			0.037	0.16	0.13	0.12	0.077	0.051	---	---	---	---	0.035	---	---	---	---	0.020	---	---	---	---	0.029	0.03	0.04	0.02	0.017
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	< 0.000003	< 0.000003	0.0000050	0.0000030	< 0.000003	< 0.000003	---	---	---	---	0.0000090	---	---	---	---	< 0.000003	---	---	---	---	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Calcium	Ca	mg/L			9.0	24	26	23	19	15	15	16	16	17	16	14	16	16	16	17	17	17	15	16	37	46	50	19	18
Chromium	Cr	mg/L			0.0014	0.00029	0.00017	0.00015	0.00015	0.00014	---	---	---	---	0.00015	---	---	---	---	0.000050	---	---	---	---	0.000080	< 0.00003	0.00003	0.00006	0.00010
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00025	0.0030	0.0029	0.0025	0.0018	0.0014	---	---	---	---	0.00067	---	---	---	---	0.00060	---	---	---	---	0.0010	0.0014	0.0017	0.0007	0.0005
Copper	Cu	mg/L	**0.1**	0.1	0.00021	0.00083	0.00045	0.00039	0.00039	0.000050	---	---	---	---	0.00017	---	---	---	---	< 0.00002	---	---	---	---	0.00031	0.00045	0.00026	0.00066	0.00007
Iron	Fe	mg/L			0.017	< 0.007	< 0.007	< 0.007	0.036	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	< 0.007	< 0.007	0.01	< 0.007
Lead	Pb	mg/L	**0.1**	0.1	0.000080	0.00011	0.000060	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	0.000020	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	0.000020	< 0.00001	0.000040
Lithium	Li	mg/L			0.0022	0.0055	0.0052	0.0049	0.0044	0.0026	---	---	---	---	0.0035	---	---	---	---	0.0034	---	---	---	---	0.0064	0.0077	0.0081	0.0034	0.0037
Magnesium	Mg	mg/L			3.3	13	12	12	8.9	8.6	---	---	---	---	6.3	---	---	---	---	5.1	---	---	---	---	11	13	15	5	4.4
Manganese	Mn	mg/L			0.0040	0.023	0.027	0.032	0.023	0.018	---	---	---	---	0.016	---	---	---	---	0.018	---	---	---	---	0.039	0.051	0.055	0.020	0.018
Mercury	Hg	mg/L	**0.0004**	0.0004	0.000010	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	Mo	mg/L			0.0015	0.0096	0.0077	0.0042	0.0028	0.0026	---	---	---	---	0.0018	---	---	---	---	0.00076	---	---	---	---	0.0016	0.0020	0.0022	0.0007	0.0005
Nickel	Ni	mg/L	**0.2**	0.2	0.0086	0.14	0.11	0.088	0.063	0.049	---	---	---	---	0.014	---	---	---	---	0.011	---	---	---	---	0.020	0.03	0.04	0.013	0.008
Potassium	K	mg/L			26	61	52	43	35	31	---	---	---	---	26	---	---	---	---	22	---	---	---	---	35	45	51	22	22
Selenium	Se	mg/L			0.00040	0.0016	0.0029	0.00092	0.00077	0.00081	---	---	---	---	0.00075	---	---	---	---	0.00038	---	---	---	---	0.00062	0.0007	0.0011	0.00034	0.00034
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			0.0000016	0.00057	0.000036	0.0000070	< 0.000002	< 0.000002	---	---	---	---	0.0000050	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.00000
Sodium	Na	mg/L			8.2	27	20	15	10	8.4	---	---	---	---	3.6	---	---	---	---	2.2	0	0	0	---	2.5	3	4	2	1
Strontium	Sr	mg/L			0.061	0.23	0.22	0.17	0.17	0.12	---	---	---	---	0.11	---	---	---	---	0.10	---	---	---	---	0.20	0.24	0.28	0.10	0.09
Thallium	Th	mg/L			0.0000090	0.0000090	0.000039	0.000037	< 0.000005	0.000012	---	---	---	---	< 0.000005	---	---	---	---	0.0000070	---	---	---	---	0.000013	0.0000220	0.000017	0.000017	< 0.000005
Tin	Sn	mg/L			0.00011	0.000050	0.000090	0.000060	< 0.00001	0.000030	---	---	---	---	0.00013	---	---	---	---	< 0.00001	---	---	---	---	0.000080	0.000080	0.000020	< 0.00001	< 0.00001
Titanium	Ti	mg/L			0.00021	0.000090	0.000070	< 0.00005	0.00034	0.000080	---	---	---	---	0.00011	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Uranium	U	mg/L			0.000019	0.00086	0.00086	0.00074	0.00061	0.00055	---	---	---	---	0.00036	---	---	---	---	0.00028	---	---	---	---	0.00068	0.00069	0.00061	0.00026	0.00030
Vanadium	V	mg/L			0.0027	0.016	0.016	0.015	0.015	0.014	---	---	---	---	0.012	---	---	---	---	0.0075	---	---	---	---	0.0075	0.009	0.010	0.008	0.007
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Large Column - #3 Greywake (S3C)																					
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24
PHYSICAL TESTS																											
Leachate Volume Added		mL			4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	750	750	750	0000 / floode	4500
Leachate Volume Recovered		mL			1678	4267	4460	4499	4508	4528	4568	4464	4493	4517	4595	4473	4525	4446	4458	4640	4479	4512	4512	4485	779	745	755	9820	4752
pH		-	**6.0 - 9.0**	6.0 - 9.0	7.8	8.1	7.9	7.9	8.1	8.1	8.0	8.0	7.7	7.9	7.9	7.7	7.7	7.7	7.8	7.8	7.8	7.8	7.7	7.7	8.0	8.0	7.9	7.8	7.8
Conductivity		µS/cm			562	1430	1040	763	603	494	449	674	832	869	869	702	741	704	729	722	623	658	651	668	1110	1490	1760	939	672
ANIONS & NUTRIUENTS																													
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			48	87	73	60	61	57	59	59	57	56	53	46	48	44	46	48	45	42	44	43	66	64	63	44	48
Chloride	Cl	mg/L	**1000**	500	18	34	7.0	2.0	< 1	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	< 1	< 1	< 1	< 1
Fluoride	Fe	mg/L			0.29	0.58	0.52	0.56	0.54	0.51	---	---	---	---	0.34	---	---	---	---	0.28	---	---	---	---	0.34	0.34	0.33	0.29	0.28
Phosphorus	P	mg/L	**1**	1.5	0.012	< 0.003	< 0.003	0.022	< 0.003	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Sulphate	SO4	mg/L			140	550	390	270	200	140	150	240	360	400	370	330	330	320	320	310	300	290	290	270	500	680	930	430	310
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																													
Aluminum	Al	mg/L	**1**	1	0.12	0.037	0.042	0.054	0.047	0.068	---	---	---	---	0.030	---	---	---	---	0.026	---	---	---	---	0.013	0.014	0.012	0.021	0.024
Antimony	Sb	mg/L			0.0019	0.016	0.0097	0.0075	0.0092	0.0072	---	---	---	---	0.0032	---	---	---	---	0.0019	---	---	---	---	0.0016	0.0018	0.0022	0.0014	0.0013
Arsenic	As	mg/L	**0.3**	0.1	0.029	0.032	0.025	0.026	0.029	0.026	---	---	---	---	0.042	---	---	---	---	0.0091	---	---	---	---	0.012	0.012	0.009	0.010	0.011
Barium	Ba	mg/L			0.017	0.047	0.030	0.016	0.016	0.013	---	---	---	---	0.028	---	---	---	---	0.017	---	---	---	---	0.027	0.043	0.055	0.023	0.014
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	0.000011	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth	Bi	mg/L			0.000037	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	0.000011	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Boron	B	mg/L			0.029	0.14	0.12	0.10	0.070	0.047	---	---	---	---	0.040	---	---	---	---	0.025	---	---	---	---	0.031	0.04	0.04	0.030	0.026
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	< 0.000003	0.000034	0.000025	0.000014	0.000011	0.0000080	---	---	---	---	0.000056	---	---	---	---	0.000031	---	---	---	---	0.000038	0.000056	0.000064	0.000044	0.0000350
Calcium	Ca	mg/L			27	70	61	45	38	31	40	68	107	129	120	98	114	98	105	103	107	112	101	109	202	324	401	194	128
Chromium	Cr	mg/L			0.000060	< 0.00003	< 0.00003	< 0.00003	0.000050	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00028	0.00099	0.00073	0.00047	0.00040	0.00030	---	---	---	---	0.0015	---	---	---	---	0.0011	---	---	---	---	0.0011	0.00164	0.00194	0.00121	0.00065
Copper	Cu	mg/L	**0.1**	0.1	0.0011	0.00075	0.00062	0.00055	0.00081	0.00051	---	---	---	---	0.00054	---	---	---	---	0.00033	---	---	---	---	0.00034	0.00074	0.00053	0.00057	0.00026
Iron	Fe	mg/L			0.033	0.0090	< 0.007	< 0.007	0.082	0.010	---	---	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Lead	Pb	mg/L	**0.1**	0.1	0.000040	0.00027	0.00014	0.000040	0.000040	0.000030	---	---	---	---	0.000040	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	0.00003	0.000020	0.000020	0.000020
Lithium	Li	mg/L			0.016	0.015	0.012	0.0098	0.0087	0.0050	---	---	---	---	0.0091	---	---	---	---	0.0057	---	---	---	---	0.0053	0.007	0.0070	0.0052	0.0041
Magnesium	Mg	mg/L			4.2	19	15	13	8.5	8.0	---	---	---	---	12	---	---	---	---	6.9	---	---	---	---	9.7	16	18	9.9	5.7
Manganese	Mn	mg/L			0.086	0.18	0.15	0.099	0.074	0.062	---	---	---	---	0.34	---	---	---	---	0.30	---	---	---	---	0.32	0.46	0.493	0.218	0.102
Mercury	Hg	mg/L	**0.0004**	0.0004	0.000020	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	Mo	mg/L			0.0034	0.021	0.020	0.016	0.013	0.010	---	---	---	---	0.0058	---	---	---	---	0.0045	---	---	---	---	0.0090	0.012	0.015	0.007	0.007
Nickel	Ni	mg/L	**0.2**	0.2	0.0051	0.012	0.0073	0.0043	0.0035	0.0018	---	---	---	---	0.0031	---	---	---	---	0.0019	---	---	---	---	0.0029	0.0044	0.0061	0.0028	0.0015
Potassium	K	mg/L			69	208	142	94	69	55	---	---	---	---	56	---	---	---	---	32	---	---	---	---	29	43	49	32	23
Selenium	Se	mg/L			0.0024	0.0098	0.0085	0.0042	0.0029	0.0022	---	---	---	---	0.0016	---	---	---	---	0.00076	---	---	---	---	0.00099	0.0014	0.0019	0.0008	0.0008
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			0.0000070	0.000018	0.0000060	0.0000060	< 0.000002	< 0.000002	---	---	---	---	0.000010	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	< 0.000002	0.0000020	< 0.000002	0.00000
Sodium	Na	mg/L			23	80	52	34	23	18	---	---	---	---	11	---	---	---	---	5.3	0	0	0	---	4.4	7	7	5	3
Strontium	Sr	mg/L			0.10	0.37	0.29	0.18	0.19	0.12	---	---	---	---	0.29	---	---	---	---	0.19	---	---	---	---	0.33	0.50	0.61	0.29	0.20
Thallium	Th	mg/L			0.000022	0.000019	0.000040	0.000039	< 0.000005	0.000010	---	---	---	---	0.0000080	---	---	---	---	0.0000090	---	---	---	---	0.000011	0.000026	0.000018	0.000014	< 0.000005
Tin	Sn	mg/L			0.010	0.0045	0.0032	0.0024	0.0026	0.0027	---	---	---	---	0.0030	---	---	---	---	0.0016	---	---	---	---	0.0032	0.0044	0.0045	0.0019	0.0014
Titanium	Ti	mg/L			0.00019	0.00014	0.00014	< 0.00005	0.00087	0.00012	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Uranium	U	mg/L			0.0027	0.033	0.028	0.021	0.016	0.013	---	---	---	---	0.016	---	---	---	---	0.0088	---	---	---	---	0.015	0.020	0.021	0.008	0.007
Vanadium	V	mg/L			0.00021	0.00049	0.00048	0.00047	0.00065	0.00056	---	---	---	---	0.00027	---	---	---	---	0.00015	---	---	---	---	0.00015	0.00013	0.00011	0.00011	0.00013
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	0.002	0.003	< 0.002	< 0.002

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Large Column - #4 Grewake (S3C and S3S)																						
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24
PHYSICAL TESTS																											
Leachate Volume Added		mL			6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	750	750	750	3500 / floode	6000
Leachate Volume Recovered		mL			2597	5555	5929	5999	6010	6019	6044	5753	5746	5742	6045	5902	5969	5856	5913	6177	5966	5987	6010	5968	785	748	742	13076	6412
pH		-	**6.0 - 9.0**	6.0 - 9.0	7.9	8.2	8.0	7.9	8.1	8.1	8.0	8.1	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.7	7.9	8.0	8.2	8.0	8.0	7.7
Conductivity		µS/cm			304	564	459	338	259	223	198	229	318	386	390	278	271	257	245	234	185	190	191	192	346	493	572	304	195
ANIONS & NUTRIUENTS																											
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			38	58	54	47	46	46	42	43	46	46	44	39	39	40	38	40	36	37	47	37	57	66	65	38	40
Chloride	Cl	mg/L	**1000**	500	14	20	7.0	3.0	1.0	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	< 1	< 1	< 1	< 1
Fluoride	Fe	mg/L			0.21	0.36	0.35	0.38	0.37	0.35	---	---	---	---	0.24	---	---	---	---	0.21	---	---	---	---	0.27	0.29	0.29	0.22	0.22
Phosphorus	P	mg/L	**1**	1.5	0.011	< 0.003	< 0.003	0.055	< 0.003	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Sulphate	SO4	mg/L			73	180	140	96	64	54	52	60	100	130	130	96	87	84	72	69	58	57	52	53	96	130	220	94	55
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																											
Aluminum	Al	mg/L	**1**	1	0.040	0.038	0.042	0.058	0.056	0.079	---	---	---	---	0.059	---	---	---	---	0.071	---	---	---	---	0.041	0.037	0.033	0.067	0.081
Antimony	Sb	mg/L			0.0025	0.0077	0.0060	0.0049	0.0051	0.0049	---	---	---	---	0.0043	---	---	---	---	0.0028	---	---	---	---	0.0032	0.0058	0.0043	0.0026	0.0026
Arsenic	As	mg/L	**0.3**	0.1	0.016	0.034	0.046	0.036	0.043	0.043	---	---	---	---	0.063	---	---	---	---	0.063	---	---	---	---	0.081	0.076	0.086	0.092	0.104
Barium	Ba	mg/L			0.031	0.059	0.046	0.027	0.028	0.024	---	---	---	---	0.053	---	---	---	---	0.027	---	---	---	---	0.049	0.115	0.100	0.039	0.026
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	0.0000080	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth	Bi	mg/L			< 0.000007	0.000013	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	0.000011	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Boron	B	mg/L			0.023	0.073	0.065	0.063	0.037	0.024	---	---	---	---	0.022	---	---	---	---	0.013	---	---	---	---	0.014	0.028	0.024	0.012	0.013
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	0.000011	0.000060	0.000065	0.000020	0.000013	0.000017	---	---	---	---	0.000015	---	---	---	---	0.0000060	---	---	---	---	0.000011	0.000012	0.000024	0.000010	< 0.000003
Calcium	Ca	mg/L			20	48	42	29	22	18	19	21	35	49	45	32	31	26	26	24	22	22	20	20	39	66	79	38	24
Chromium	Cr	mg/L			0.00039	0.000070	0.000070	0.000060	0.000090	< 0.00003	---	---	---	---	0.000040	---	---	---	---	0.000040	---	---	---	---	0.000040	0.000030	0.000040	0.000090	0.00009
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00024	0.00079	0.00076	0.00042	0.00032	0.00027	---	---	---	---	0.00061	---	---	---	---	0.00026	---	---	---	---	0.00026	0.00046	0.00041	0.00030	0.00018
Copper	Cu	mg/L	**0.1**	0.1	0.0014	0.0023	0.0016	0.00096	0.00099	0.00046	---	---	---	---	0.00067	---	---	---	---	0.00016	---	---	---	---	0.00049	0.0009	0.00174	0.00049	0.00025
Iron	Fe	mg/L			0.0070	< 0.007	< 0.007	< 0.007	0.040	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	< 0.007	< 0.007	0.007	< 0.007
Lead	Pb	mg/L	**0.1**	0.1	0.00038	0.0013	0.00066	0.00025	0.00017	0.00014	---	---	---	---	0.00011	---	---	---	---	0.000030	---	---	---	---	0.000040	0.00013	0.00009	0.00006	0.00012
Lithium	Li	mg/L			0.0038	0.012	0.0098	0.0085	0.0072	0.0039	---	---	---	---	0.0083	---	---	---	---	0.0051	---	---	---	---	0.0062	0.0119	0.0090	0.0058	0.0046
Magnesium	Mg	mg/L			5.5	16	13	9.8	6.2	5.8	---	---	---	---	9.3	---	---	---	---	3.9	---	---	---	---	6.0	10	12.6	5.9	3.4
Manganese	Mn	mg/L			0.0093	0.060	0.052	0.039	0.028	0.022	---	---	---	---	0.049	---	---	---	---	0.020	---	---	---	---	0.024	0.040	0.037	0.014	0.007
Mercury	Hg	mg/L	**0.0004**	0.0004	0.000030	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	Mo	mg/L			0.0055	0.020	0.020	0.014	0.010	0.0082	---	---	---	---	0.0048	---	---	---	---	0.0026	---	---	---	---	0.0048	0.008	0.010	0.004	0.0033
Nickel	Ni	mg/L	**0.2**	0.2	0.0027	0.0082	0.0057	0.0041	0.0025	0.0017	---	---	---	---	0.0017	---	---	---	---	0.00060	---	---	---	---	0.00070	0.0011	0.0014	0.0008	0.0005
Potassium	K	mg/L			30	47	37	27	23	20	---	---	---	---	26	---	---	---	---	16	---	---	---	---	20	30	35	20	16
Selenium	Se	mg/L			0.0016	0.0037	0.0036	0.0017	0.0013	0.0021	---	---	---	---	0.0010	---	---	---	---	0.00062	---	---	---	---	0.00088	0.0012	0.0023	0.0007	0.0006
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			< 0.000002	0.000041	0.0000030	< 0.000002	< 0.000002	< 0.000002	---	---	---	---	0.0000070	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002
Sodium	Na	mg/L			8.2	14	10.0	6.9	4.8	3.9	---	---	---	---	2.2	---	---	---	---	1.2	0	0	0	---	1.2	1.9	2.3	1.1	0.8
Strontium	Sr	mg/L			0.11	0.30	0.24	0.15	0.14	0.10	---	---	---	---	0.24	---	---	---	---	0.13	---	---	---	---	0.22	0.34	0.42	0.19	0.13
Thallium	Th	mg/L			0.000028	0.000065	0.000073	0.000063	0.000024	0.000032	---	---	---	---	0.000044	---	---	---	---	0.000024	---	---	---	---	0.000045	0.000113	0.000080	0.000049	0.000034
Tin	Sn	mg/L			0.00046	0.00036	0.00039	0.00026	0.000080	0.00020	---	---	---	---	0.00034	---	---	---	---	0.00015	---	---	---	---	0.00034	0.00098	0.00066	0.000130	0.00005
Titanium	Ti	mg/L			0.00030	0.000070	0.00012	0.00014	0.00040	0.000090	---	---	---	---	0.000080	---	---	---	---	0.00012	---	---	---	---	< 0.00005	< 0.00005	< 0.00005	0.00025	0.000290
Uranium	U	mg/L			0.00078	0.019	0.016	0.011	0.0059	0.0049	---	---	---	---	0.019	---	---	---	---	0.0065	---	---	---	---	0.015	0.043	0.037	0.0136	0.0057
Vanadium	V	mg/L			0.0018	0.0026	0.0028	0.0028	0.0032	0.0033	---	---	---	---	0.0028	---	---	---	---	0.0026	---	---	---	---	0.0026	0.0029	0.0030	0.0029	0.0032
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Large Column - #5 Ultramafic (Ob)																		
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20
PHYSICAL TESTS																								
Leachate Volume Added		mL			2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	750	750	750	1000 / flooded	2640
Leachate Volume Recovered		mL			754	2456	2681	2710	2580	2737	2557	2678	2600	2692	2664	2650	2694	2663	2628	2652	760	772	765	3999	2750
pH		-	**6.0 - 9.0**	6.0 - 9.0	8.4	8.1	8.1	8.1	7.9	8.1	8.1	7.9	8.0	8.1	8.0	7.9	8.1	8.0	8.0	8.1	8.0	8.2	8.1	8.1	8.1
Conductivity		µS/cm			320	714	612	527	417	315	274	222	211	206	193	194	182	149	155	162	232	262	281	144	147
ANIONS & NUTRIUENTS																								
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			40	75	69	61	55	52	49	44	44	47	42	47	48	43	43	42	58	64	61	36	42
Chloride	Cl	mg/L	**1000**	500	12	30	11	5.0	2.0	1.0	---	---	---	---	< 1	---	---	---	---	< 1	< 1	< 1	< 1	< 1	< 1
Fluoride	Fe	mg/L			0.15	0.23	0.22	0.30	0.20	0.18	---	---	---	---	0.13	---	---	---	---	0.10	0.13	0.13	0.14	0.07	0.09
Phosphorus	P	mg/L	**1**	1.5	0.0050	< 0.003	0.0050	0.0060	< 0.003	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	0.004	< 0.003	< 0.003	0.004	< 0.003
Sulphate	SO4	mg/L			85	210	230	160	120	96	76	62	52	50	41	39	36	33	30	30	48	48	63	26	25
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																								
Aluminum	Al	mg/L	**1**	1	0.024	0.016	0.020	0.023	0.029	0.036	---	---	---	---	0.039	---	---	---	---	0.042	0.025	0.028	0.028	0.048	0.047
Antimony	Sb	mg/L			0.0046	0.014	0.015	0.016	0.014	0.014	---	---	---	---	0.0079	---	---	---	---	0.0072	0.010	0.011	0.012	0.006	0.007
Arsenic	As	mg/L	**0.3**	0.1	0.069	**0.68**	**1.1**	**1.5**	**2.1**	**2.1**	---	---	---	---	**1.8**	---	---	---	---	**2.0**	**2.87**	**3.0**	**3.3**	**2.2**	**2.3**
Barium	Ba	mg/L			0.090	0.088	0.053	0.041	0.043	0.040	---	---	---	---	0.035	---	---	---	---	0.035	0.066	0.075	0.082	0.036	0.037
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth	Bi	mg/L			< 0.000007	0.000023	0.0000080	0.0000080	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Boron	B	mg/L			0.023	0.054	0.051	0.049	0.039	0.033	---	---	---	---	0.011	---	---	---	---	0.0090	0.014	0.012	0.013	0.008	0.010
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	< 0.000003	0.000011	0.000021	0.000010	0.0000030	0.0000080	---	---	---	---	< 0.000003	---	---	---	---	< 0.000003	0.000006	< 0.000003	0.000005	0.0000030	< 0.000003
Calcium	Ca	mg/L			22	50	54	41	33	26	21	17	16	15	13	12	13	12	12	12	18	22	23	12	12
Chromium	Cr	mg/L			0.00046	0.00015	0.00011	0.00012	0.00013	0.00015	---	---	---	---	0.00019	---	---	---	---	0.00012	0.00014	0.00015	0.00015	0.00030	0.00018
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00022	0.0019	0.0025	0.0018	0.0015	0.0012	---	---	---	---	0.00054	---	---	---	---	0.00042	0.0008	0.0009	0.0010	0.0005	0.0004
Copper	Cu	mg/L	**0.1**	0.1	0.00086	0.00083	0.00052	0.00050	0.00054	0.00050	---	---	---	---	0.00012	---	---	---	---	0.00027	0.00036	0.00046	0.00028	0.00025	0.00010
Iron	Fe	mg/L			0.070	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	< 0.007	< 0.007	< 0.007	0.014	0.0080
Lead	Pb	mg/L	**0.1**	0.1	0.00013	0.00035	0.00016	0.000060	0.000040	0.000070	---	---	---	---	< 0.00001	---	---	---	---	0.000010	0.00002	0.00001	0.000030	0.000040	0.000020
Lithium	Li	mg/L			0.0052	0.0100	0.015	0.014	0.011	0.010	---	---	---	---	0.0060	---	---	---	---	0.0050	0.0071	0.008	0.008	0.005	0.005
Magnesium	Mg	mg/L			7.9	25	22	17	13	11	---	---	---	---	4.8	---	---	---	---	4.1	6	8	9	4	4
Manganese	Mn	mg/L			0.011	0.051	0.067	0.049	0.037	0.032	---	---	---	---	0.016	---	---	---	---	0.013	0.020	0.025	0.026	0.012	0.012
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	Mo	mg/L			0.0070	0.024	0.018	0.017	0.013	0.0082	---	---	---	---	0.0028	---	---	---	---	0.0019	0.003	0.004	0.005	0.002	0.0017
Nickel	Ni	mg/L	**0.2**	0.2	0.0042	0.036	0.034	0.024	0.017	0.011	---	---	---	---	0.0031	---	---	---	---	0.0018	0.003	0.004	0.005	0.002	0.002
Potassium	K	mg/L			34	66	62	48	42	37	---	---	---	---	19	---	---	---	---	17	22	27	28	17	17
Selenium	Se	mg/L			0.0023	0.0047	0.0040	0.0028	0.0019	0.0025	---	---	---	---	0.00093	---	---	---	---	0.0011	0.0012	0.0020	0.0016	0.0009	0.0009
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			0.0000060	0.000095	< 0.000002	0.0000040	< 0.000002	< 0.000002	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002
Sodium	Na	mg/L			5.8	14	10	6.8	4.6	3.5	---	---	---	---	0.90	0	0	0	0	0.51	1	1	0.9	0.4	0.4
Strontium	Sr	mg/L			0.19	0.37	0.38	0.26	0.22	0.18	---	---	---	---	0.092	---	---	---	---	0.081	0.13	0.14	0.16	0.08	0.08
Thallium	Th	mg/L			0.000033	0.00010	0.00012	0.00010	0.000098	0.000087	---	---	---	---	0.000022	---	---	---	---	0.000041	0.00005	0.00007	0.00006	0.000042	0.000035
Tin	Sn	mg/L			0.0025	0.00051	0.00030	0.00030	0.00024	0.00033	---	---	---	---	0.000030	---	---	---	---	0.00038	0.00011	0.00008	0.00007	0.00002	< 0.00001
Titanium	Ti	mg/L			0.00046	0.000060	0.000060	0.00018	0.000090	0.00012	---	---	---	---	0.00025	---	---	---	---	0.00023	< 0.00005	0.000280	0.00012	0.000640	0.00025
Uranium	U	mg/L			0.00057	0.0100	0.013	0.0086	0.0059	0.0044	---	---	---	---	0.0024	---	---	---	---	0.0022	0.0046	0.006	0.0062	0.0022	0.0023
Vanadium	V	mg/L			0.0032	0.0067	0.0088	0.011	0.014	0.014	---	---	---	---	0.012	---	---	---	---	0.011	0.0115	0.0128	0.013	0.012	0.011
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---	< 0.002	---	---	---	---	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Large Column - #6 Chert (S10e)																		
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20
PHYSICAL TESTS																									
Leachate Volume Added		mL			2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	750	750	750	1000 / flooded	2880
Leachate Volume Recovered		mL			670	2639	2944	2967	2815	3009	2772	2892	2871	2928	2894	2864	2900	2902	2856	2890	769	738	767	3964	2990
pH		-	**6.0 - 9.0**	6.0 - 9.0	8.3	8.2	8.1	8.1	7.9	8.0	8.0	7.8	7.8	7.6	7.8	7.7	7.7	7.7	7.8	7.7	7.9	8.0	7.8	7.7	7.7
Conductivity		µS/cm			521	1430	1480	1400	1190	1010	1040	1010	1190	1370	1440	1480	1390	1130	1250	1250	1630	2350	2470	1260	1200
ANIONS & NUTRIUENTS																									
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			50	120	99	90	72	69	75	74	72	74	65	65	66	56	61	62	86	90	88	56	65
Chloride	Cl	mg/L	**1000**	500	29	42	18	9.0	4.0	2.0	---	---	---	---	< 1	---	---	---	---	< 1	1	< 1	< 1	< 1	< 1
Fluoride	Fe	mg/L			0.29	0.63	0.71	0.74	0.69	0.72	---	---	---	---	0.45	---	---	---	---	0.41	0.48	0.51	0.48	0.44	0.49
Phosphorus	P	mg/L	**1**	1.5	0.0040	< 0.003	0.0090	0.0030	< 0.003	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Sulphate	SO4	mg/L			140	460	700	610	490	430	420	440	500	680	720	690	620	640	610	570	1100	1200	1500	640	620
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																									
Aluminum	Al	mg/L	**1**	1	0.020	0.019	0.023	0.024	0.027	0.029	---	---	---	---	0.0080	---	---	---	---	0.0060	0.004	0.005	0.003	0.007	0.005
Antimony	Sb	mg/L			0.0072	0.021	0.015	0.012	0.0089	0.0076	---	---	---	---	0.0023	---	---	---	---	0.0016	0.002	0.002	0.0016	0.0015	0.0014
Arsenic	As	mg/L	**0.3**	0.1	0.034	0.11	0.094	0.11	0.12	0.11	---	---	---	---	0.015	---	---	---	---	0.010	0.010	0.01	0.01	0.02	0.009
Barium	Ba	mg/L			0.016	0.048	0.039	0.032	0.028	0.025	---	---	---	---	0.033	---	---	---	---	0.023	0.050	0.061	0.064	0.026	0.0265
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	0.0000080	< 0.000007	< 0.000007	---	---	---	---	0.0000090	---	---	---	---	< 0.000007	0.000007	0.0000090	0.000008	0.000007	< 0.000007
Bismuth	Bi	mg/L			0.000024	0.000010	0.0000090	0.000012	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Boron	B	mg/L			0.052	0.14	0.15	0.13	0.11	0.10	---	---	---	---	0.054	---	---	---	---	0.037	0.06	0.06	0.07	0.04	0.048
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	0.0000030	0.000020	0.000010	0.000011	0.000014	0.000028	---	---	---	---	0.00015	---	---	---	---	0.00014	0.000261	0.000327	0.000313	0.000118	0.000131
Calcium	Ca	mg/L			19	48	78	80	82	82	104	120	172	204	231	232	238	227	211	216	406	527	535	273	335
Chromium	Cr	mg/L			0.00013	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---	< 0.00003	< 0.00003	< 0.00003	< 0.00003	0.00003	< 0.00003
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00016	0.0012	0.0021	0.0023	0.0025	0.0023	---	---	---	---	0.0072	---	---	---	---	0.0053	0.0126	0.0156	0.0152	0.0060	0.00561
Copper	Cu	mg/L	**0.1**	0.1	0.00057	0.00031	0.00023	0.00036	0.00035	0.00034	---	---	---	---	0.00018	---	---	---	---	0.00042	0.00044	0.00078	0.00034	0.00027	0.00023
Iron	Fe	mg/L			0.048	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	< 0.007	0.021	0.008	0.0170	< 0.007
Lead	Pb	mg/L	**0.1**	0.1	0.00017	0.00017	0.000080	0.000030	0.000040	0.000060	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	0.000020	< 0.00001	0.00006
Lithium	Li	mg/L			0.0036	0.0054	0.0096	0.010	0.0095	0.0092	---	---	---	---	0.010	---	---	---	---	0.0074	0.0122	0.013	0.0136	0.0079	0.00809
Magnesium	Mg	mg/L			4.7	19	26	24	21	20	---	---	---	---	18	---	---	---	---	10	19	26	26	13	10.7
Manganese	Mn	mg/L			0.017	0.11	0.22	0.20	0.19	0.21	---	---	---	---	1.3	---	---	---	---	1.4	3.15	4.10	4.21	1.85	1.79
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	Mo	mg/L			0.0036	0.015	0.012	0.012	0.0096	0.0079	---	---	---	---	0.0020	---	---	---	---	0.0017	0.002	0.003	0.0029	0.0020	0.00194
Nickel	Ni	mg/L	**0.2**	0.2	0.0037	0.027	0.031	0.028	0.025	0.021	---	---	---	---	0.045	---	---	---	---	0.030	0.071	0.085	0.088	0.035	0.0292
Potassium	K	mg/L			58	133	147	127	105	97	---	---	---	---	63	---	---	---	---	48	77	100	105	59	55.4
Selenium	Se	mg/L			0.0016	0.0053	0.0050	0.0039	0.0025	0.0039	---	---	---	---	0.00088	---	---	---	---	0.0015	0.0009	0.0027	0.0018	0.0013	0.0026
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			0.000014	0.000039	0.0000030	0.0000030	0.0000020	< 0.000002	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	< 0.000002	0.0000020	0.0000020	< 0.000002	0.000007
Sodium	Na	mg/L			38	148	140	109	78	66	---	---	---	---	22	---	0	0	0	10	19	24	24	11	9.83
Strontium	Sr	mg/L			0.12	0.26	0.38	0.33	0.32	0.31	---	---	---	---	0.65	---	---	---	---	0.57	1.14	1.42	1.54	0.68	0.671
Thallium	Th	mg/L			< 0.000005	0.000015	0.000022	0.000022	0.000036	0.000034	---	---	---	---	< 0.000005	---	---	---	---	0.0000080	0.000017	0.000025	0.000019	0.000010	0.000009
Tin	Sn	mg/L			0.0050	0.00070	0.00037	0.00035	0.00026	0.00034	---	---	---	---	0.000040	---	---	---	---	0.000070	0.00006	0.00132	0.00005	< 0.00001	0.00005
Titanium	Ti	mg/L			0.00080	0.000060	< 0.00005	0.00013	< 0.00005	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Uranium	U	mg/L			0.0012	0.015	0.016	0.011	0.0080	0.0070	---	---	---	---	0.0067	---	---	---	---	0.0031	0.006	0.007	0.0059	0.0025	0.00254
Vanadium	V	mg/L			0.00034	0.00033	0.00030	0.00031	0.00035	0.00038	---	---	---	---	0.000090	---	---	---	---	0.000040	0.00005	0.00004	0.00004	0.00005	0.00003
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---	0.0050	---	---	---	---	0.0040	0.011	0.011	0.011	0.005	0.004

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

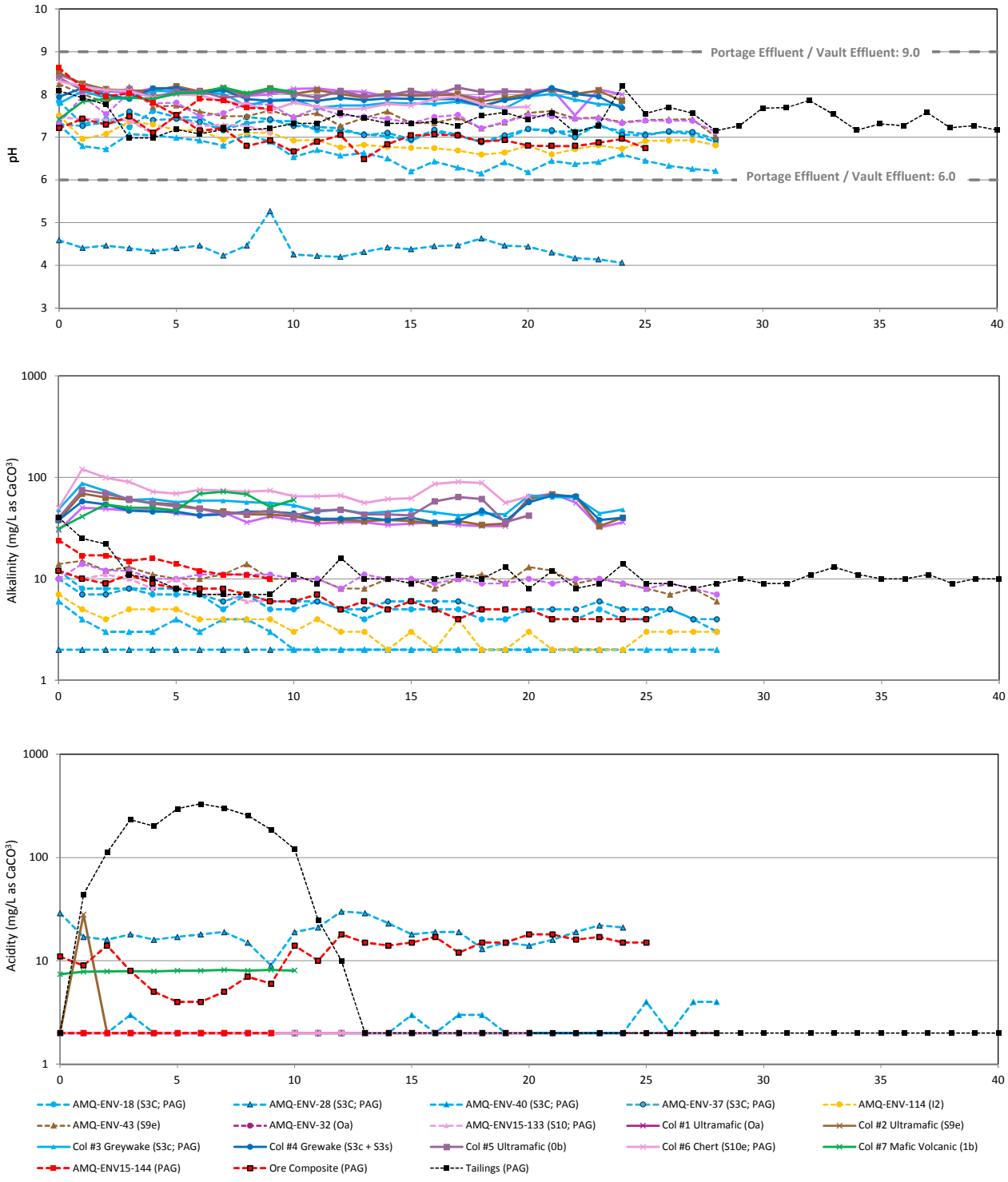
Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Large Column - #7 Mafic Volcanic (1b)										
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
PHYSICAL TESTS															
Leachate Volume Added		mL			2030	2030	2030	2030	2030	2030	750	750	750	Flooded / 400	2030
Leachate Volume Recovered		mL			269	1372	1989	2083	2082	2016	750	752	781	3865	2190
pH		-	**6.0 - 9.0**	6.0 - 9.0	7.4	7.8	7.9	7.9	7.9	8.0	8.0	8.2	8.0	8.2	8.1
Conductivity		µS/cm			289	526	821	570	468	366	486	449	440	238	236
ANIONS & NUTRIUENTS															
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	as CaCO4	mg/L			31	41	54	50	50	47	69	72	68	51	60
Chloride	Cl	mg/L	**1000**	500	3.0	9.0	9.0	6.0	***	2.0	2.0	1.0	1.0	< 1	< 1
Fluoride	Fe	mg/L			0.20	0.25	0.37	0.32	0.31	0.30	0.45	0.45	0.46	0.32	0.40
Phosphorus	P	mg/L	**1**	1.5	0.010	< 0.003	0.016	0.012	0.018	0.012	0.014	0.019	0.020	0.020	0.022
Sulphate	SO4	mg/L			92	180	300	260	160	100	150	110	130	55	58
Nitrate (as N)	as N	mg/L	**20**	50	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)	as N	mg/L			---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	**16**	20	---	---	---	---	---	---	---	---	---	---	---
Cyanate	OCN	mg/L			---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)	CN	mg/L	**0.5**		---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)	CN	mg/L			---	---	---	---	---	---	---	---	---	---	---
Thiocyanate	SCN	mg/L			---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS															
Aluminum	Al	mg/L	**1**	1	0.030	0.016	0.013	0.015	0.018	0.024	0.012	0.015	0.017	0.029	0.026
Antimony	Sb	mg/L			0.0014	0.0037	0.0051	0.0049	0.0051	0.0051	0.0072	0.0082	0.0083	0.0065	0.0069
Arsenic	As	mg/L	**0.3**	0.1	0.0058	**0.10**	**0.26**	**0.32**	**0.39**	**0.43**	**0.67**	**0.75**	**0.90**	**0.86**	**1.00**
Barium	Ba	mg/L			0.12	0.094	0.084	0.071	0.063	0.049	0.058	0.057	0.055	0.067	0.083
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth	Bi	mg/L			< 0.000007	< 0.000007	< 0.000007	0.0000090	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Boron	B	mg/L			0.012	0.022	0.038	0.045	0.029	0.025	0.034	0.032	0.034	0.023	0.027
Bromide	Br	mg/L			---	---	---	---	---	---	---	---	---	---	---
Cadmium	Cd	mg/L	**0.002**	0.002	0.000024	0.000034	0.000026	0.000015	< 0.000003	0.0000030	0.0000090	0.000015	0.000011	0.000004	< 0.000003
Calcium	Ca	mg/L			33	48	80	69	42	31	44	42	42	23	22
Chromium	Cr	mg/L			0.00010	0.00013	0.00014	0.00013	0.00017	0.00020	0.00030	0.00034	0.00041	0.00041	0.00045
Chromium VI	Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---
Cobalt	Co	mg/L			0.00040	0.0010	0.0023	0.0020	0.0014	0.00088	0.0013	0.0012	0.0012	0.0006	0.0005
Copper	Cu	mg/L	**0.1**	0.1	0.0011	0.0025	0.0030	0.0021	0.0013	0.0011	0.0014	0.0013	0.0013	0.0008	0.0011
Iron	Fe	mg/L			< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.008	0.011	0.010
Lead	Pb	mg/L	**0.1**	0.1	0.0010	0.0013	0.00083	0.00040	0.00018	0.00013	0.00017	0.0002	0.00017	0.00010	0.00010
Lithium	Li	mg/L			0.0062	0.012	0.019	0.020	0.015	0.012	0.017	0.017	0.017	0.011	0.011
Magnesium	Mg	mg/L			6.4	12	22	19	13	8.7	12	12	12	6	6
Manganese	Mn	mg/L			0.028	0.028	0.051	0.043	0.029	0.022	0.029	0.028	0.028	0.014	0.015
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	Mo	mg/L			0.0032	0.013	0.016	0.015	0.014	0.011	0.018	0.017	0.018	0.008	0.007
Nickel	Ni	mg/L	**0.2**	0.2	0.0029	0.010	0.020	0.019	0.012	0.0076	0.012	0.010	0.011	0.005	0.004
Potassium	K	mg/L			25	34	48	44	36	29	37	39	42	28	29
Selenium	Se	mg/L			0.0094	0.021	0.031	0.024	0.012	0.0077	0.0095	0.009	0.009	0.005	0.005
Silicon	Si	mg/L			---	---	---	---	---	---	---	---	---	---	---
Silver	Au	mg/L			< 0.000002	< 0.000002	0.000011	0.0000060	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.00000
Sodium	Na	mg/L			3.0	5.5	8.2	7.0	4.9	3.4	4.3	4.4	4.5	2.2	2.1
Strontium	Sr	mg/L			0.22	0.39	0.66	0.54	0.37	0.27	0.41	0.37	0.39	0.21	0.22
Thallium	Th	mg/L			0.000058	0.000055	0.000086	0.000072	0.000067	0.000050	0.000068	0.000075	0.000067	0.000042	0.000039
Tin	Sn	mg/L			0.0029	0.0015	0.00072	0.00052	0.00044	0.00029	0.00034	0.0003	0.00036	0.00019	0.00017
Titanium	Ti	mg/L			0.00013	0.00010	< 0.00005	< 0.00005	0.00036	0.00013	0.00012	0.00030	0.00027	0.0005	0.00036
Uranium	U	mg/L			0.00071	0.0066	0.013	0.010	0.0075	0.0055	0.010	0.0090	0.008	0.003	0.0037
Vanadium	V	mg/L			0.0030	0.0090	0.013	0.015	0.017	0.018	0.018	0.0220	0.023	0.024	0.026
Zinc	Zn	mg/L	**0.4**	0.2	0.0020	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Notes:

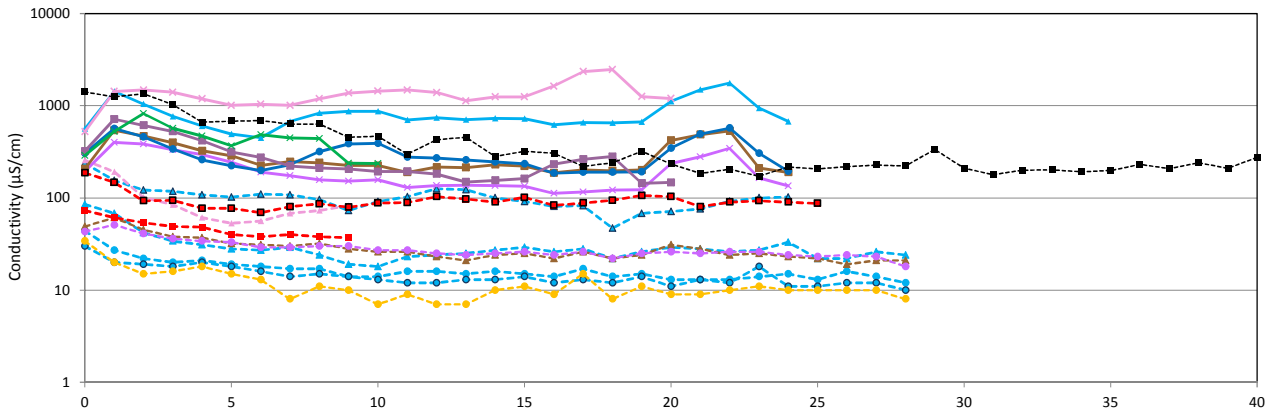
1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

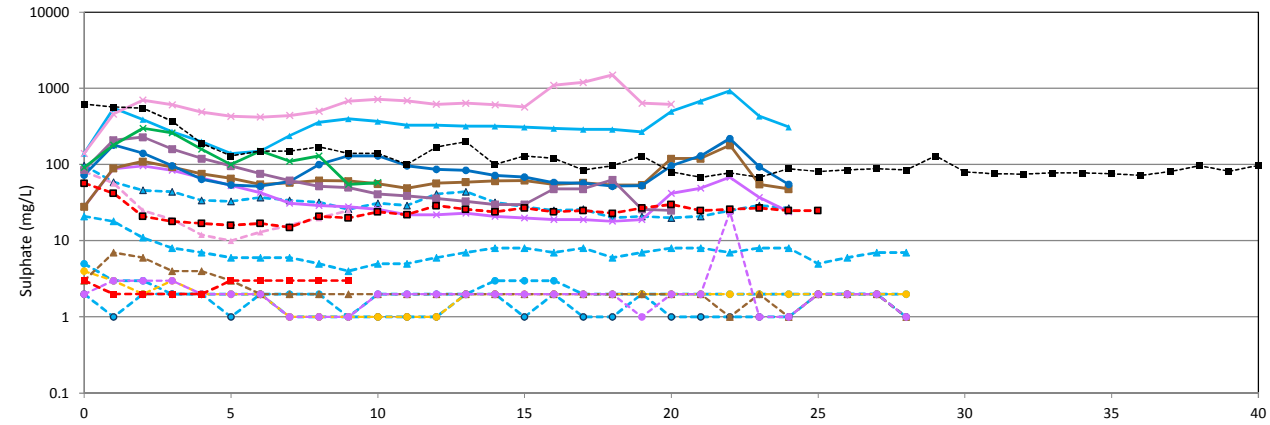
2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

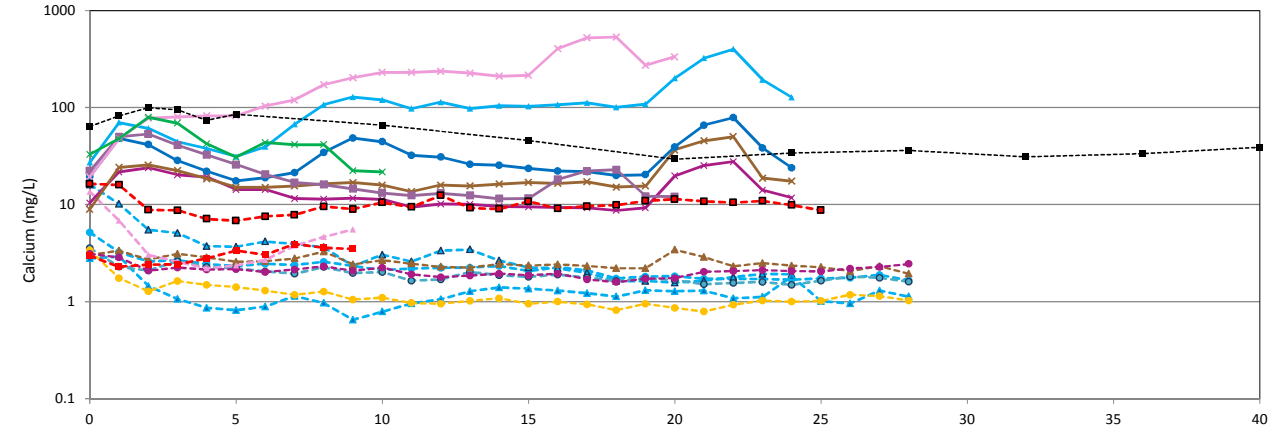
1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.



Notes:	Rock Type:		pH Alkalinity Acidity		Kinetic Tests for Waste Rock, Ore and Tailings Whale Tail Pit	
1 kg HCT	Ultramafic (0a)	Iron Formation (S9e)	DRAWN JMC	DATE May-16	Agnico Eagle Mines Limited Meadowbank Division	Golder Associates
40-60 kg Column Tests	Transitional Ultramafic (0b)	Intermediate Intrusive (8b)	CHECKED KS	JOB NO 1520817		
Portage NWB Effluent Limit (NWB, 2015)	Central Greywacke (S3c)	Mafic Volcanic (1b)	REVIEWED VJB	PHASE 4000	APPENDIX FIGURE	F-1.1
Vault NWB Effluent Limit (NWB, 2015)	South Greywacke (S3s)	Ore				
Values < MDL are plotted as MDL value	Chert (S10e)	Tailings				







Notes:

1 kg HCT

40-60 kg Column Tests

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Ultramafic (0a)

Transitional Ultramafic (0b)

Central Greywacke (S3c)

South Greywacke (S3s)

Chert (S10e)

Iron Formation (S9e)

Intermediate Intrusive (8b)

Mafic Volcanic (1b)

Ore

Tailings

Conductivity
Sulphate
Calcium

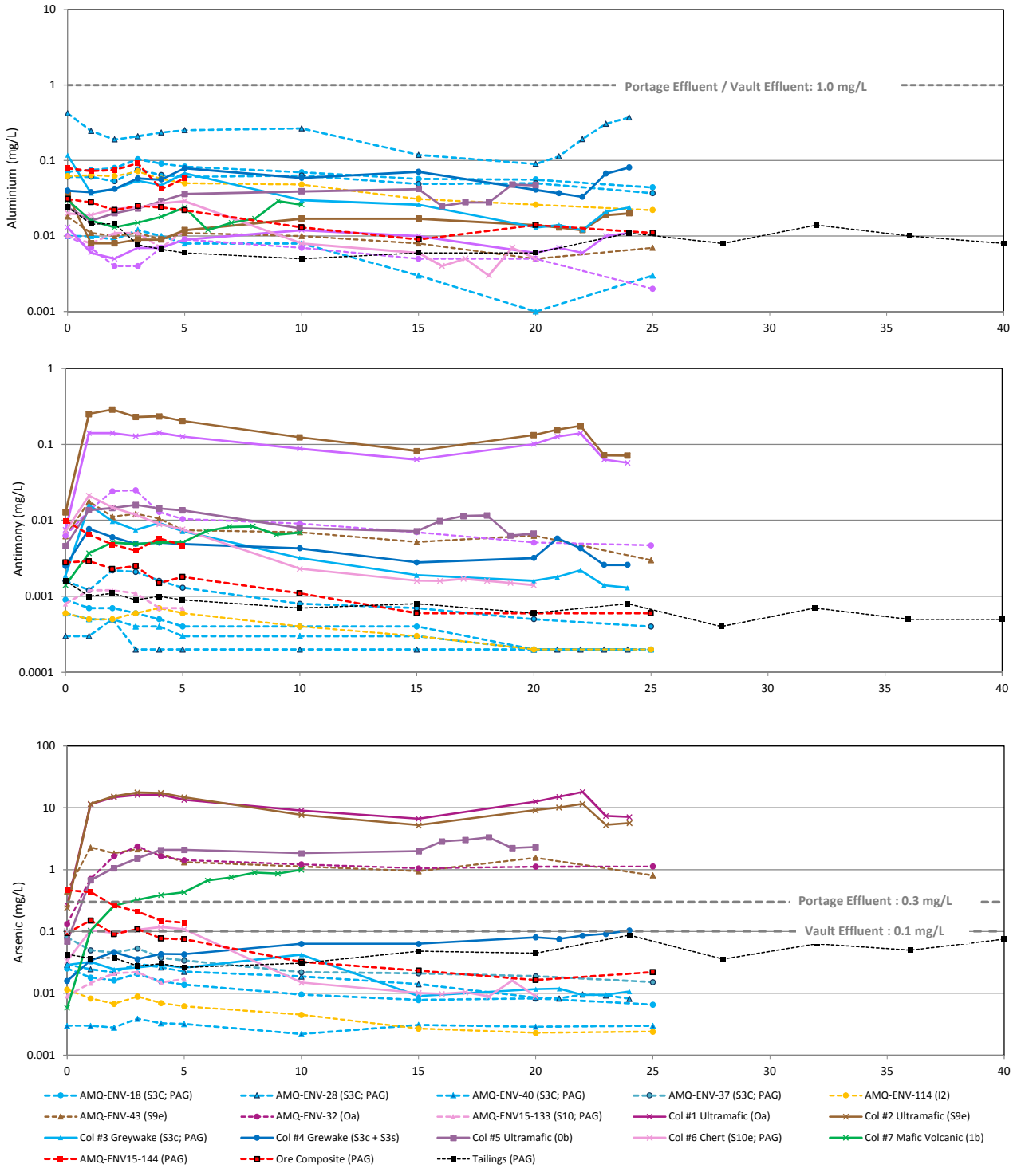
DRAWN	JMC	DATE	May-16
CHECKED	KS	JOB NO	1520817
REVIEWED	VJB	PHASE	4000

Kinetic Tests for Waste Rock, Ore and Tailings
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE F-1.2



Notes:

1 kg HCT

40-60 kg Column Tests

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Ultramafic (0a) — **Iron Formation (S9e)**

Transitional Ultramafic (0b) — **Intermediate Intrusive (8b)**

Central Greywacke (S3c) — **Mafic Volcanic (1b)**

South Greywacke (S3s) — **Ore**

Chert (S10e) — **Tailings**

Aluminum
Antimony
Arsenic

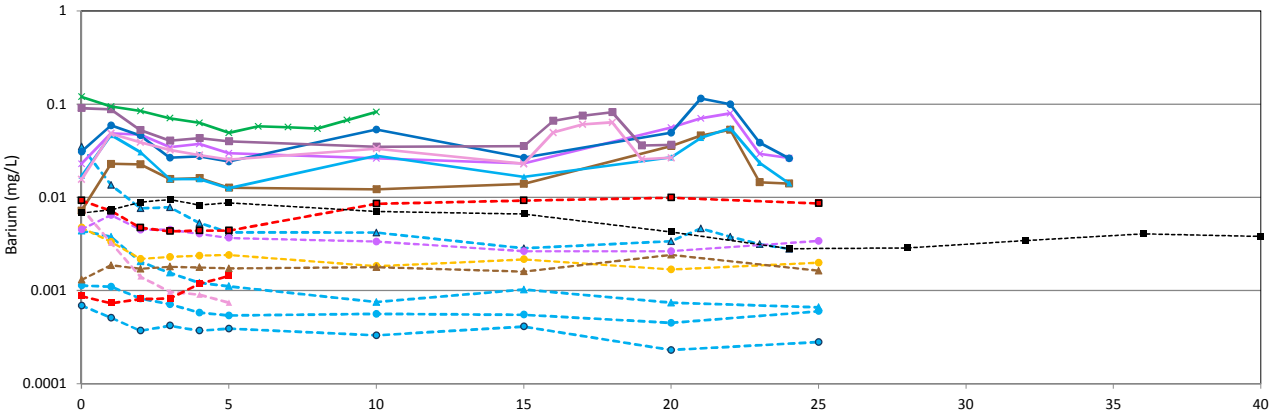
Kinetic Tests for Waste Rock, Ore and Tailings
Whale Tail Pit

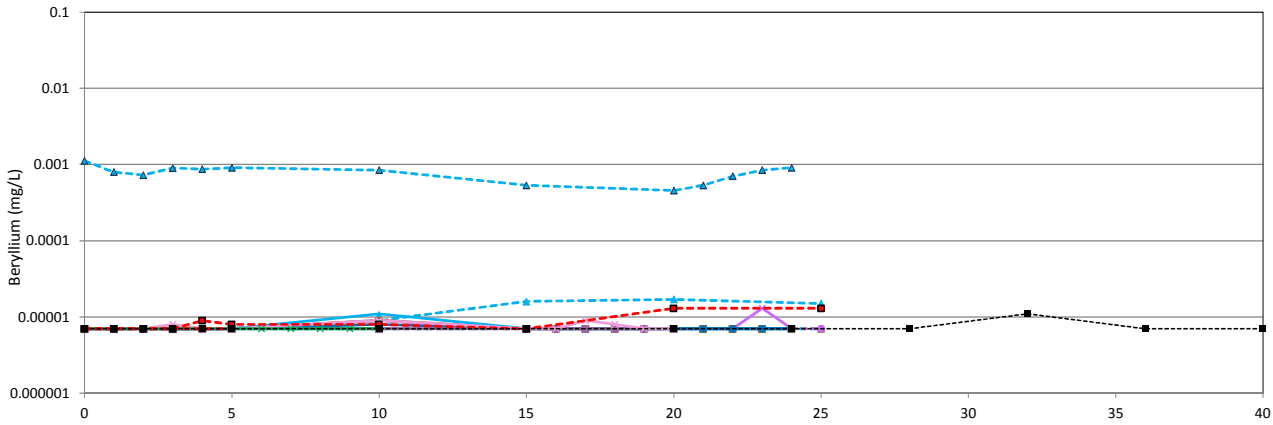
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CHECKED	KS	JOB NO	1520817
REVIEWED	VJB	PHASE	4000

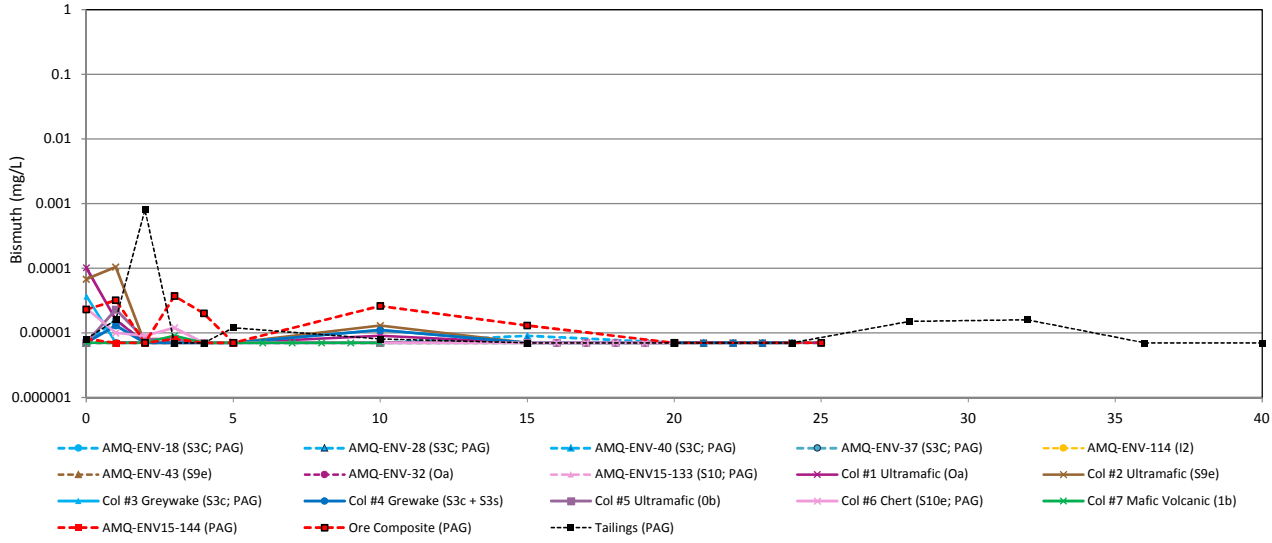
Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE F-1.3







Notes:

1 kg HCT

40-60 kg Column Tests

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Ultramafic (0a)
Transitional Ultramafic (0b)
Central Greywacke (S3c)
South Greywacke (S3s)
Chert (S10e)
Iron Formation (S9e)
Intermediate Intrusive (8b)
Mafic Volcanic (1b)
Ore
Tailings

Barium
Beryllium
Bismuth

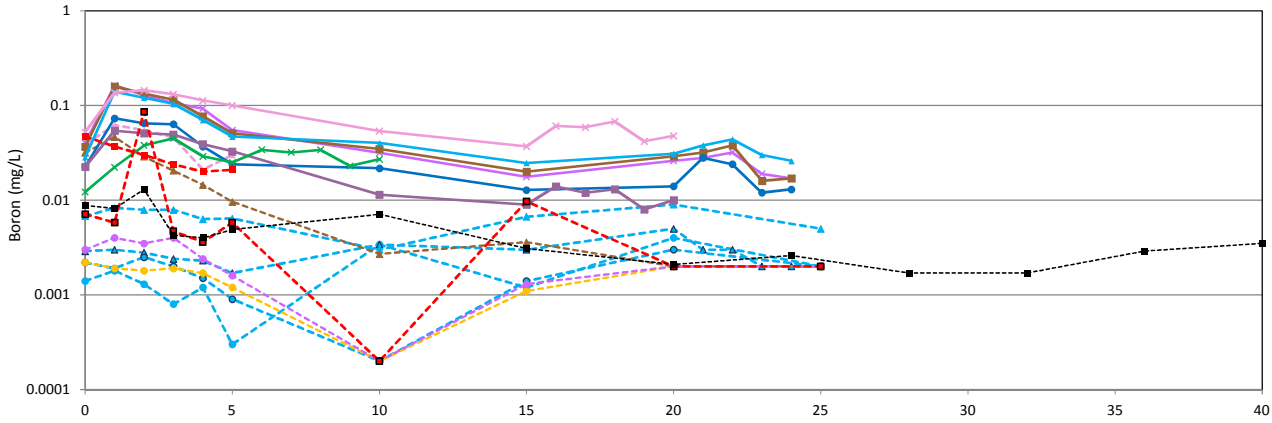
DRAWN	JMC	DATE	May-16
CHECKED	KS	JOB NO	1520817
REVIEWED	VJB	PHASE	4000

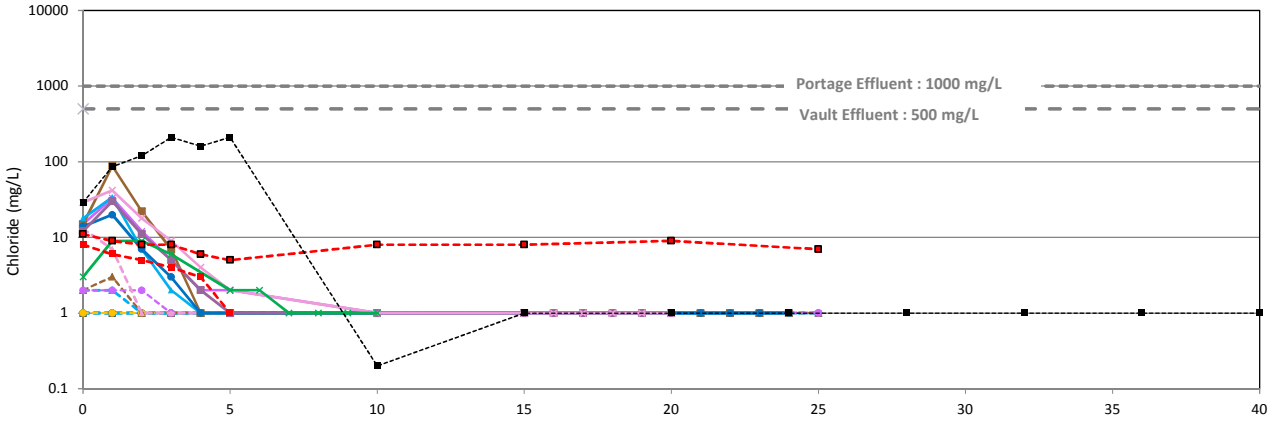
Kinetic Tests for Waste Rock, Ore and Tailings
Whale Tail Pit

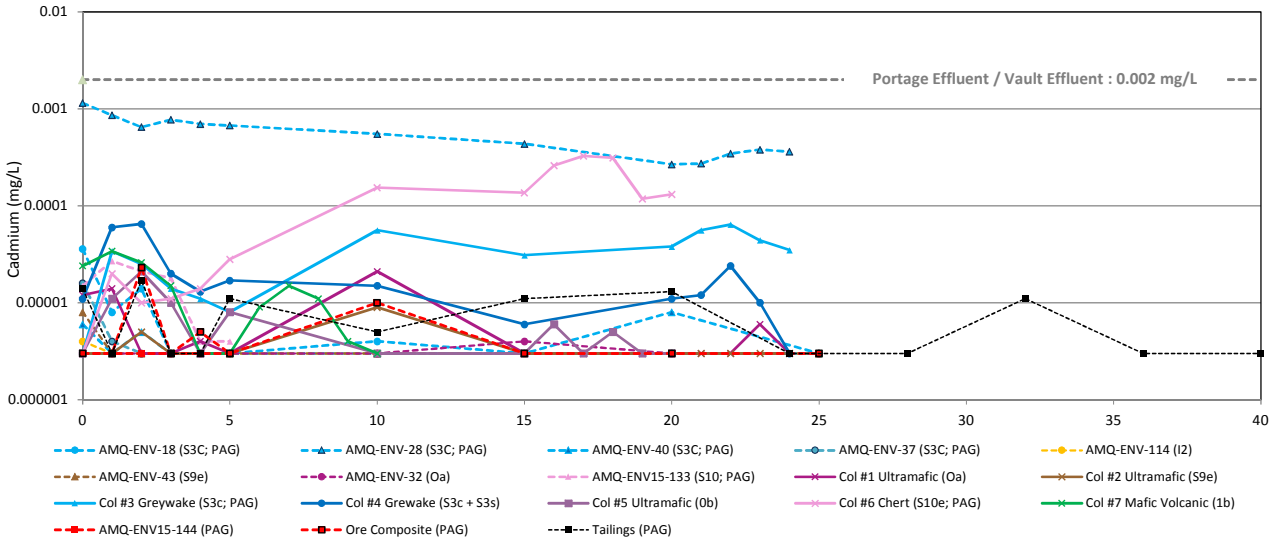
Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE F-1.4







Notes:

1 kg HCT

40-60 kg Column Tests

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Ultramafic (0a)	Iron Formation (S9e)
Transitional Ultramafic (0b)	Intermediate Intrusive (8b)
Central Greywacke (S3c)	Mafic Volcanic (1b)
South Greywacke (S3s)	Ore
Chert (S10e)	Tailings

Boron
Chloride
Cadmium

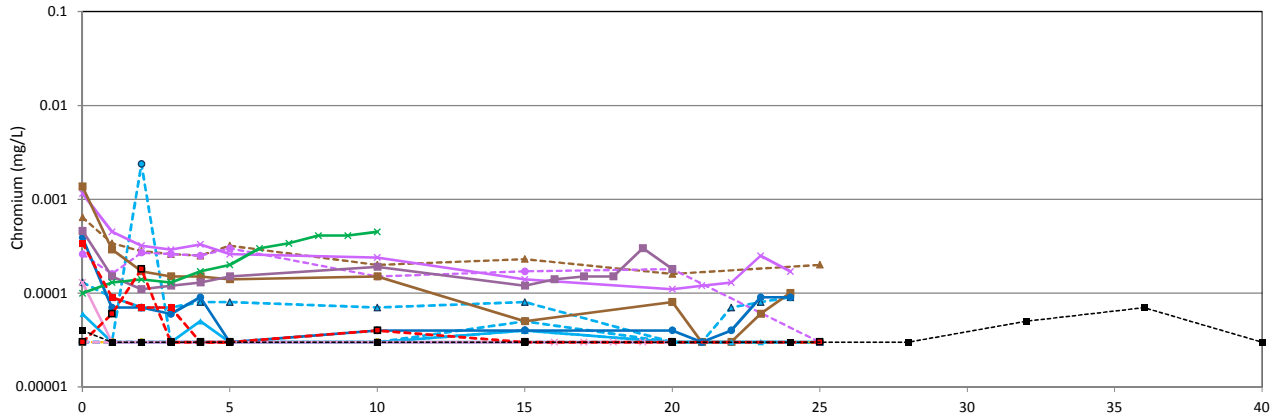
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CHECKED	KS	JOB NO	1520817
REVIEWED	VJB	PHASE	4000

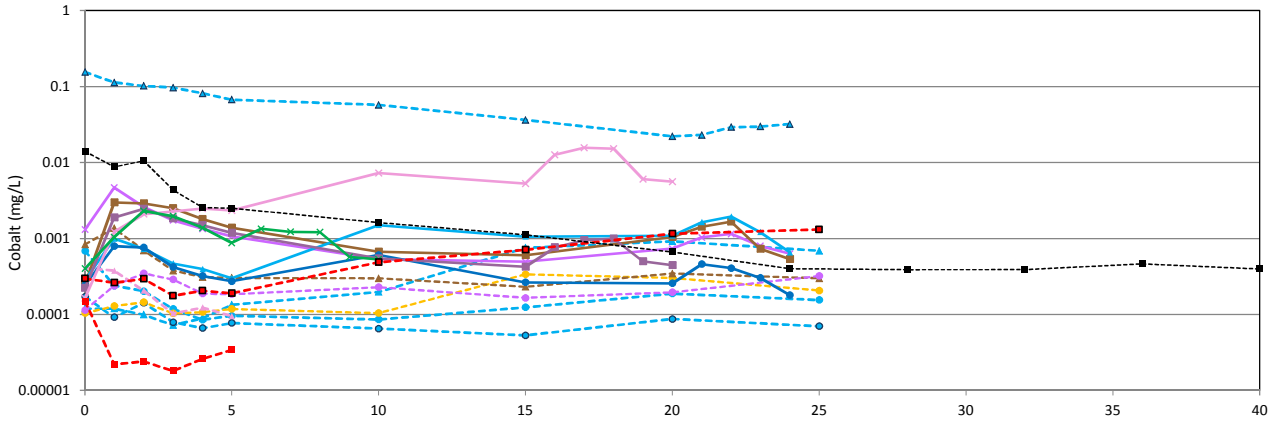
Kinetic Tests for Waste Rock, Ore and Tailings
Whale Tail Pit

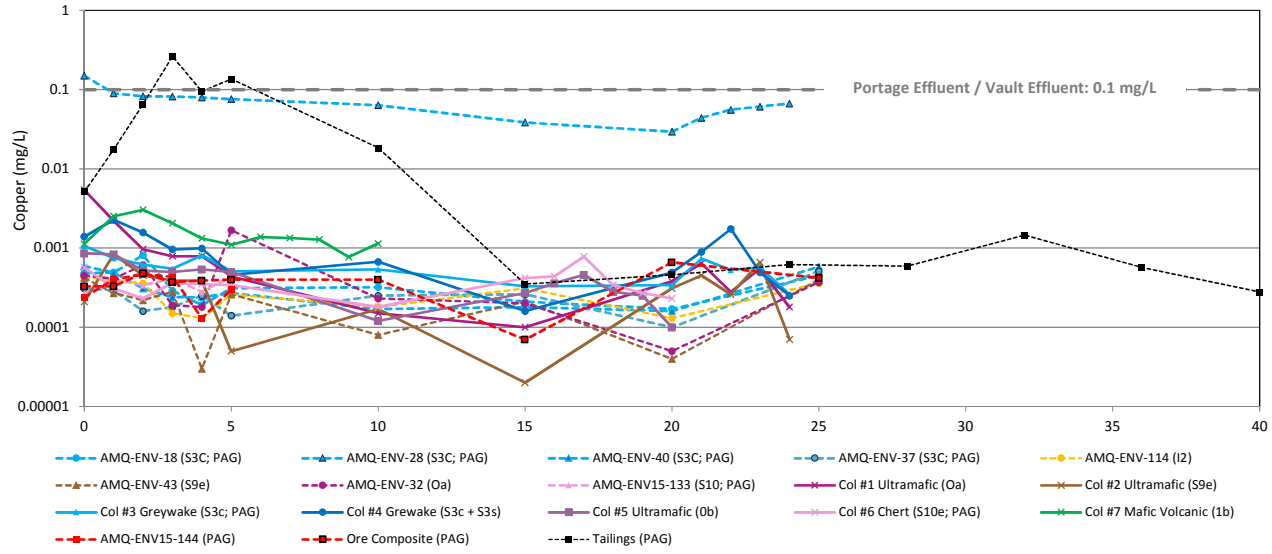
Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE F-1.5







Notes:

1 kg HCT

40-60 kg Column Tests

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

- Ultramafic (0a)
- Transitional Ultramafic (0b)
- Central Greywacke (S3c)
- South Greywacke (S3s)
- Chert (S10e)
- Iron Formation (S9e)
- Intermediate Intrusive (8b)
- Mafic Volcanic (1b)
- Ore
- Tailings

Chromium
Cobalt
Copper

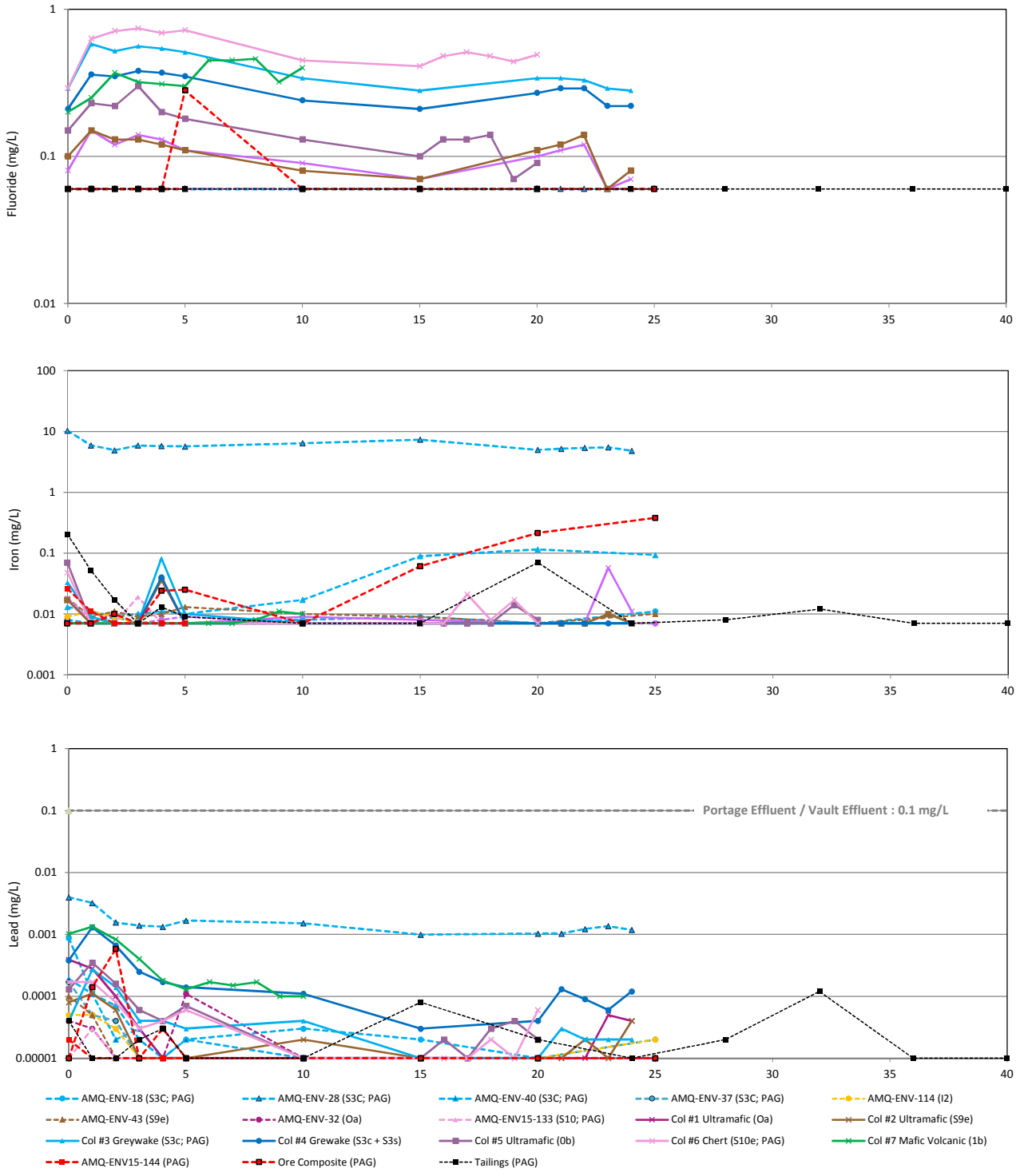
DRAWN	JMC	DATE	May-16
CHECKED	KS	JOB NO	1520817
REVIEWED	VJB	PHASE	4000

Kinetic Tests for Waste Rock, Ore and Tailings
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE F-1.6



Notes:

1 kg HCT

40-60 kg Column Tests

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Ultramafic (0a)

Transitional Ultramafic (0b)

Central Greywacke (S3c)

South Greywacke (S3s)

Chert (S10e)

Iron Formation (S9e)

Intermediate Intrusive (8b)

Mafic Volcanic (1b)

Ore

Tailings

Fluoride
Iron
Lead

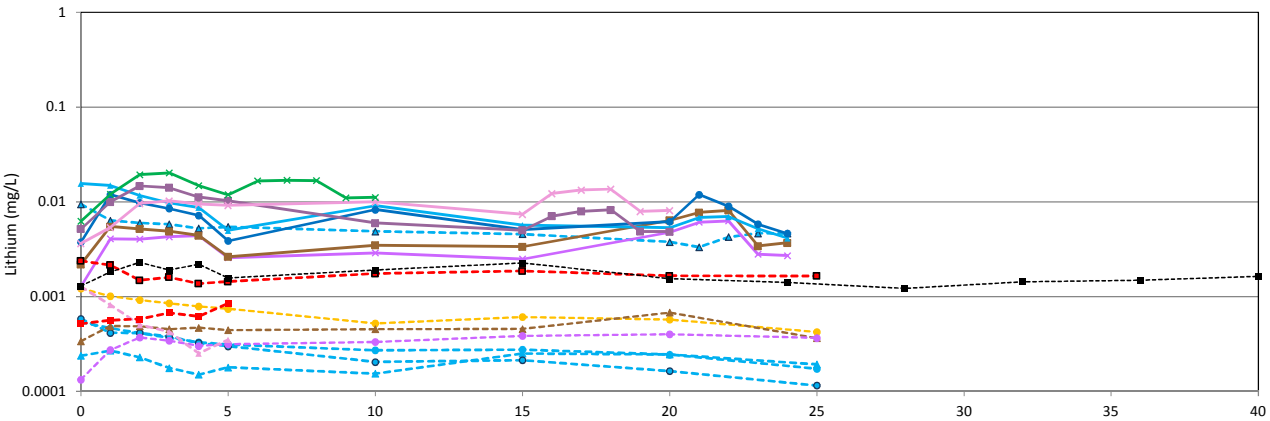
Kinetic Tests for Waste Rock, Ore and Tailings
Whale Tail Pit

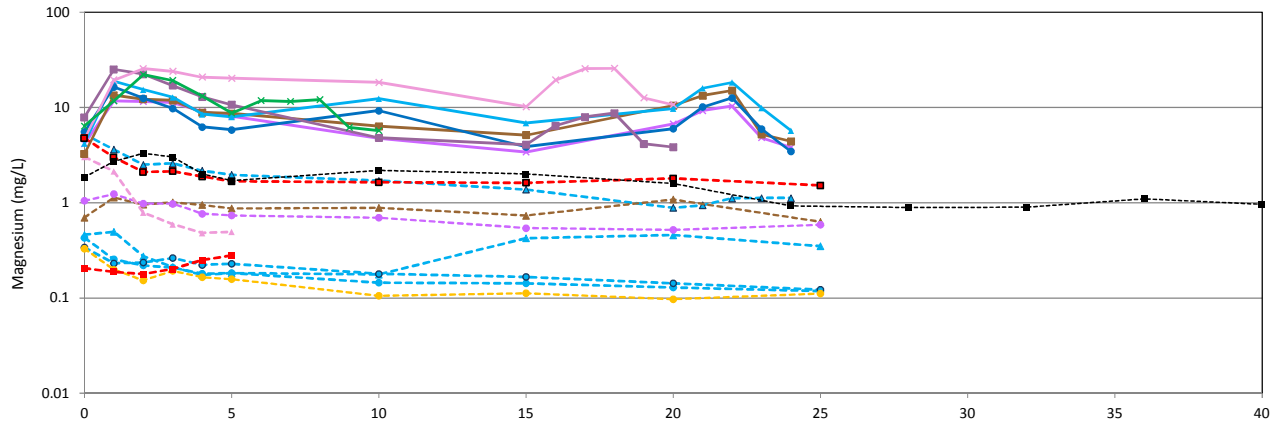
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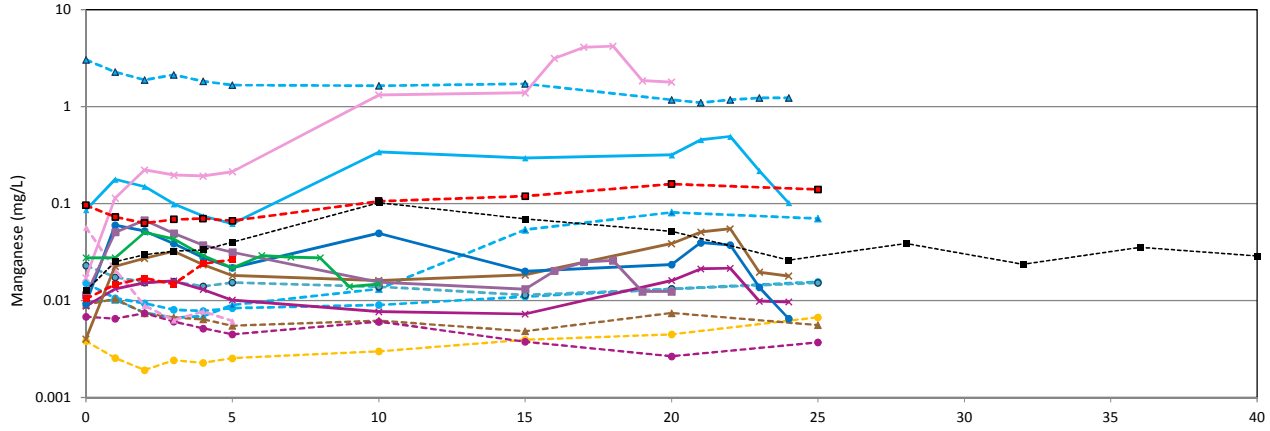
Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE F-1.7







Notes:

1 kg HCT

40-60 kg Column Tests

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Ultramafic (0a)
Transitional Ultramafic (0b)
Central Greywacke (S3c)
South Greywacke (S3s)
Chert (S10e)
Iron Formation (S9e)
Intermediate Intrusive (8b)
Mafic Volcanic (1b)
Ore
Tailings

Lithium
Magnesium
Manganese

Kinetic Tests for Waste Rock, Ore and Tailings
Whale Tail Pit

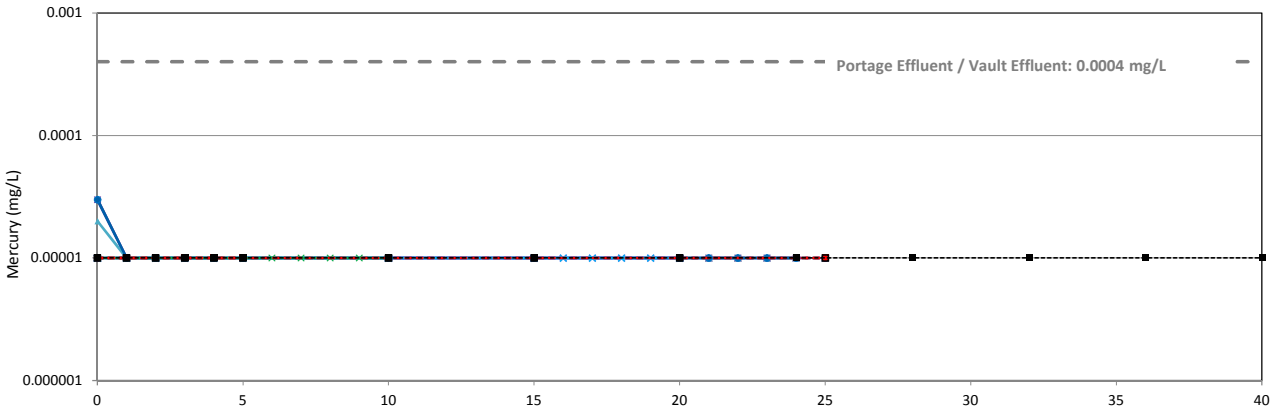
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REVIEWED	VJB	PHASE	4000

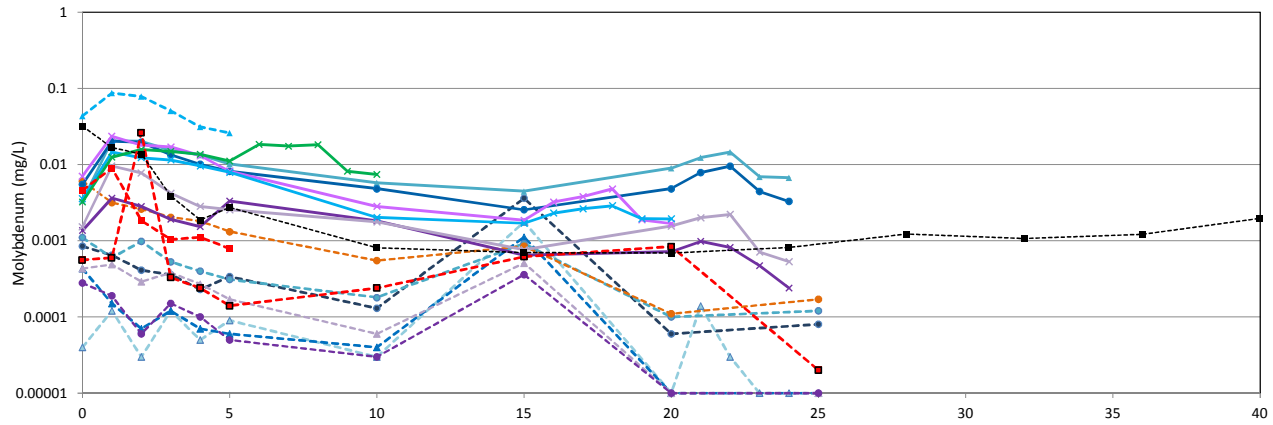
Agnico Eagle Mines Limited
Meadowbank Division

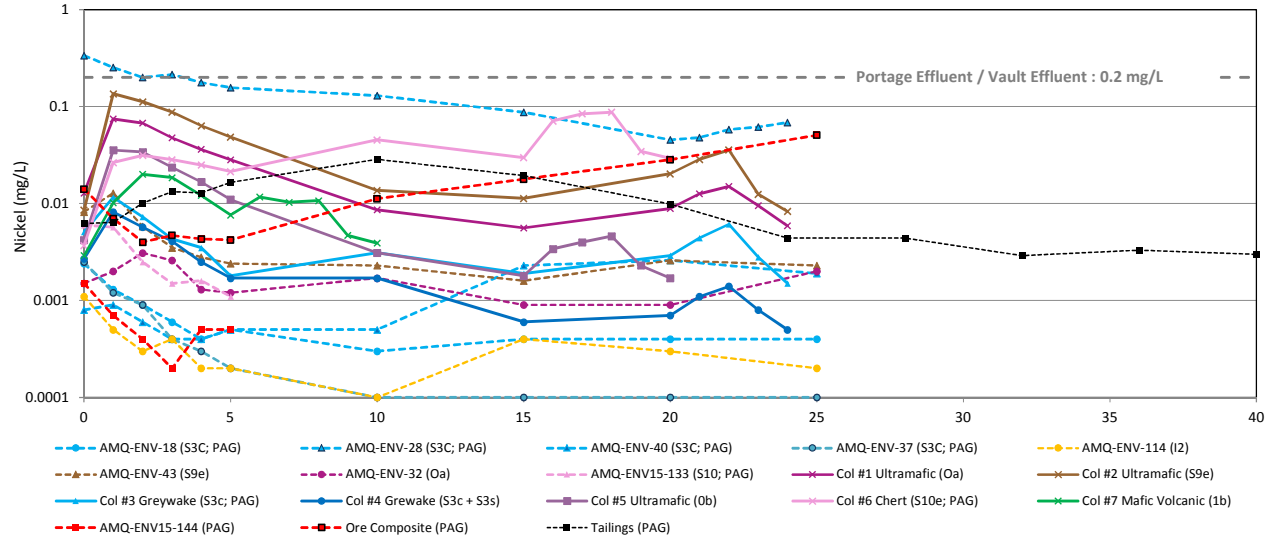
Golder Associates

APPENDIX FIGURE F-1.8

\\golder.gds\gal\Ottawa\Active\2015\3 Proj\1520817 Amaruq Geochemistry Baseline\report\Phase 3\Rev B\Appendix F - Kinetic Test Results\F1 HCT - LC\
Amaruq_Kinetic_Waste rock+tails_Figs-Tables.xlsx







Notes:

1 kg HCT

40-60 kg Column Tests

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

- Ultramafic (0a)
- Transitional Ultramafic (0b)
- Central Greywacke (S3c)
- South Greywacke (S3s)
- Chert (S10e)
- Iron Formation (S9e)
- Intermediate Intrusive (8b)
- Mafic Volcanic (1b)
- Ore
- Tailings

Mercury
Molybdenum
Nickel

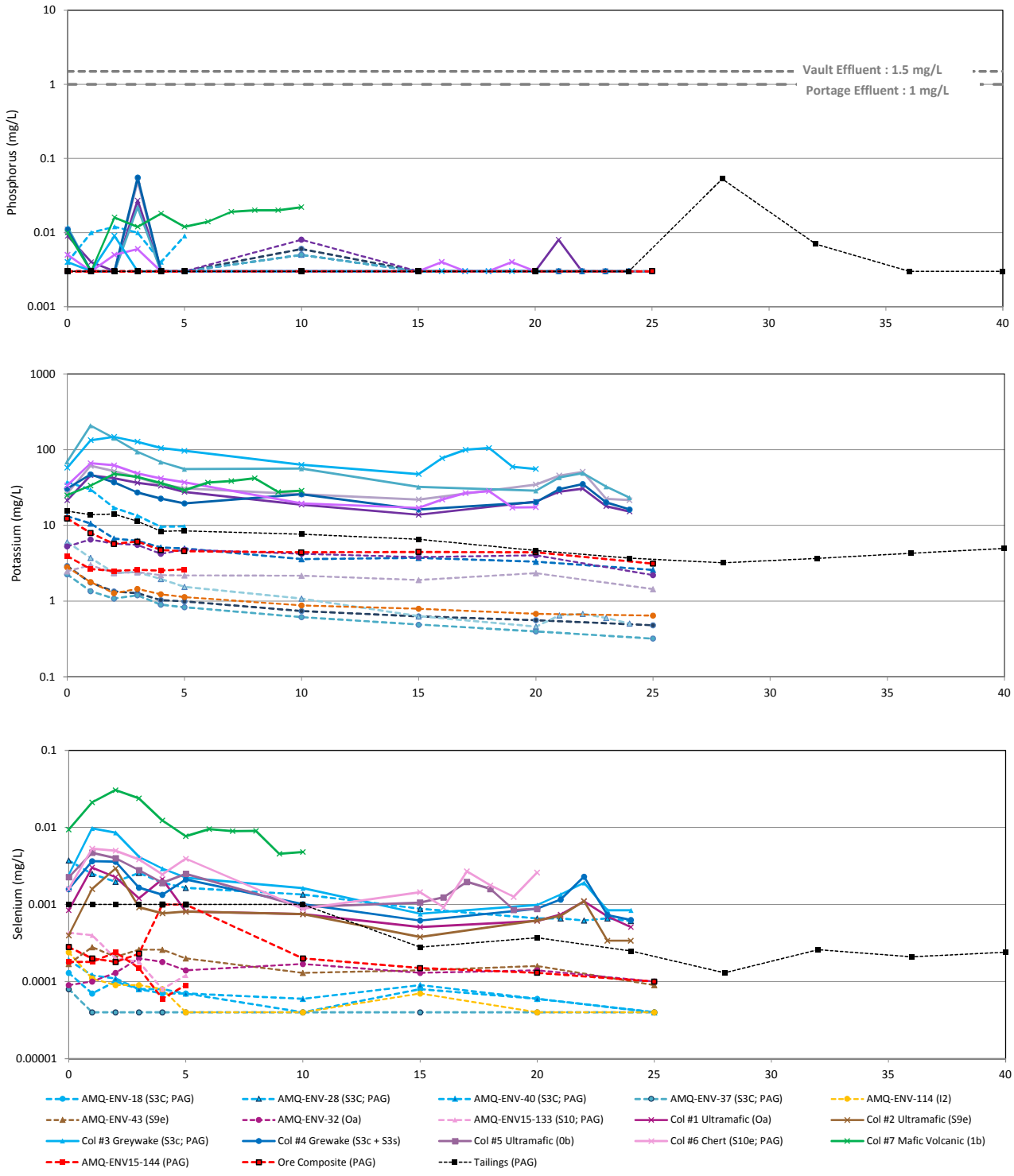
DRAWN	JMC	DATE	May-16
CHECKED	KS	JOB NO	1520817
REVIEWED	VJB	PHASE	4000

Kinetic Tests for Waste Rock, Ore and Tailings
Whale Tail Pit

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE F-1.9



Notes:

1 kg HCT

40-60 kg Column Tests

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

- Ultramafic (0a)
- Transitional Ultramafic (0b)
- Central Greywacke (S3c)
- South Greywacke (S3s)
- Chert (S10e)
- Iron Formation (S9e)
- Intermediate Intrusive (8b)
- Mafic Volcanic (1b)
- Ore
- Tailings

Phosphorus
Potassium
Selenium

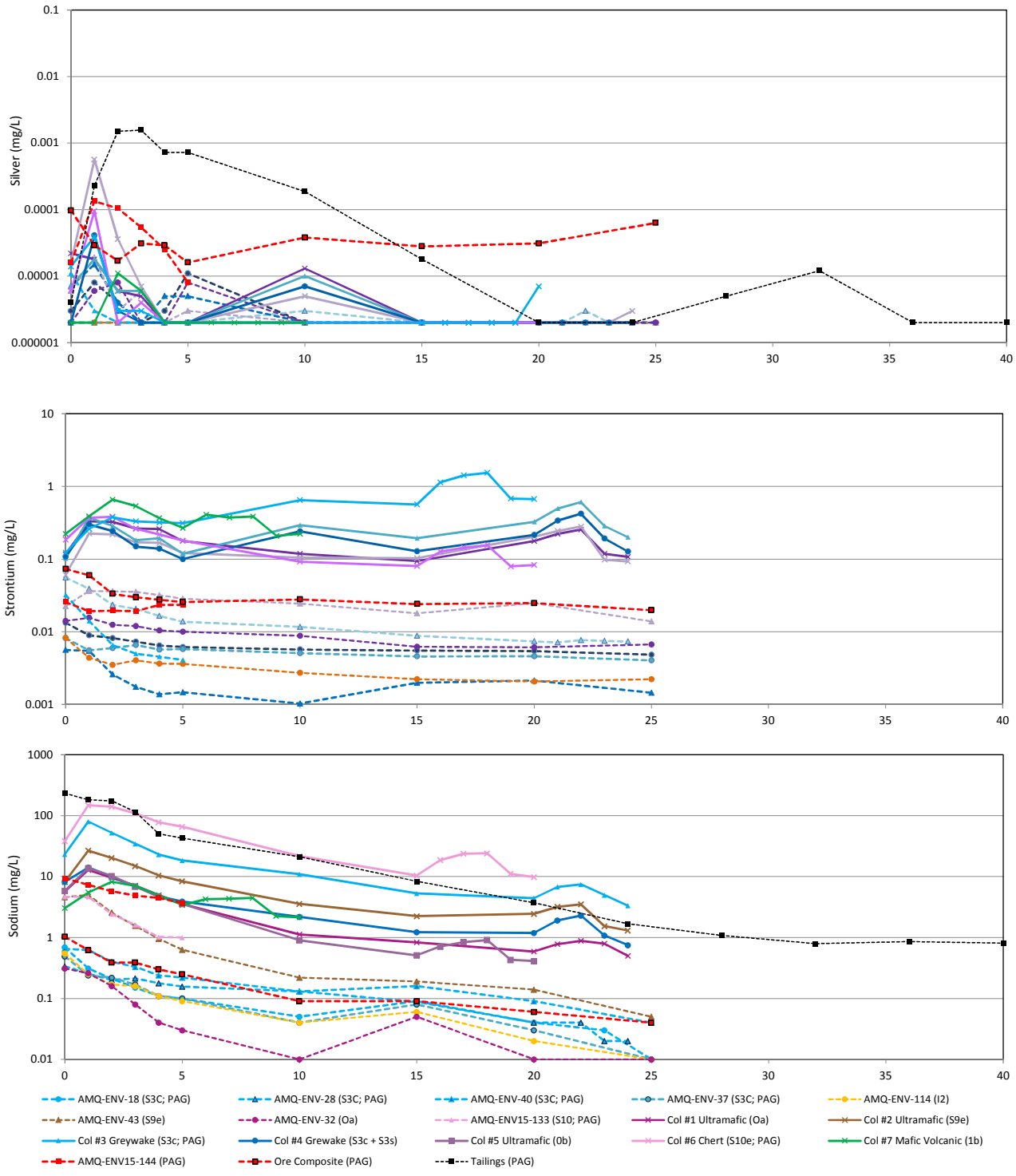
Kinetic Tests for Waste Rock, Ore and Tailings
Whale Tail Pit

DRAWN	JMC	DATE	May-16
CHECKED	KS	JOB NO	1520817
REVIEWED	VJB	PHASE	4000

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE F-1.10



Notes:

1 kg HCT

40-60 kg Column Tests

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Ultramafic (0a)
Transitional Ultramafic (0b)
Central Greywacke (S3c)
South Greywacke (S3s)
Chert (S10e)
Iron Formation (S9e)
Intermediate Intrusive (8b)
Mafic Volcanic (1b)
Ore
Tailings

Silver
Strontium
Sodium

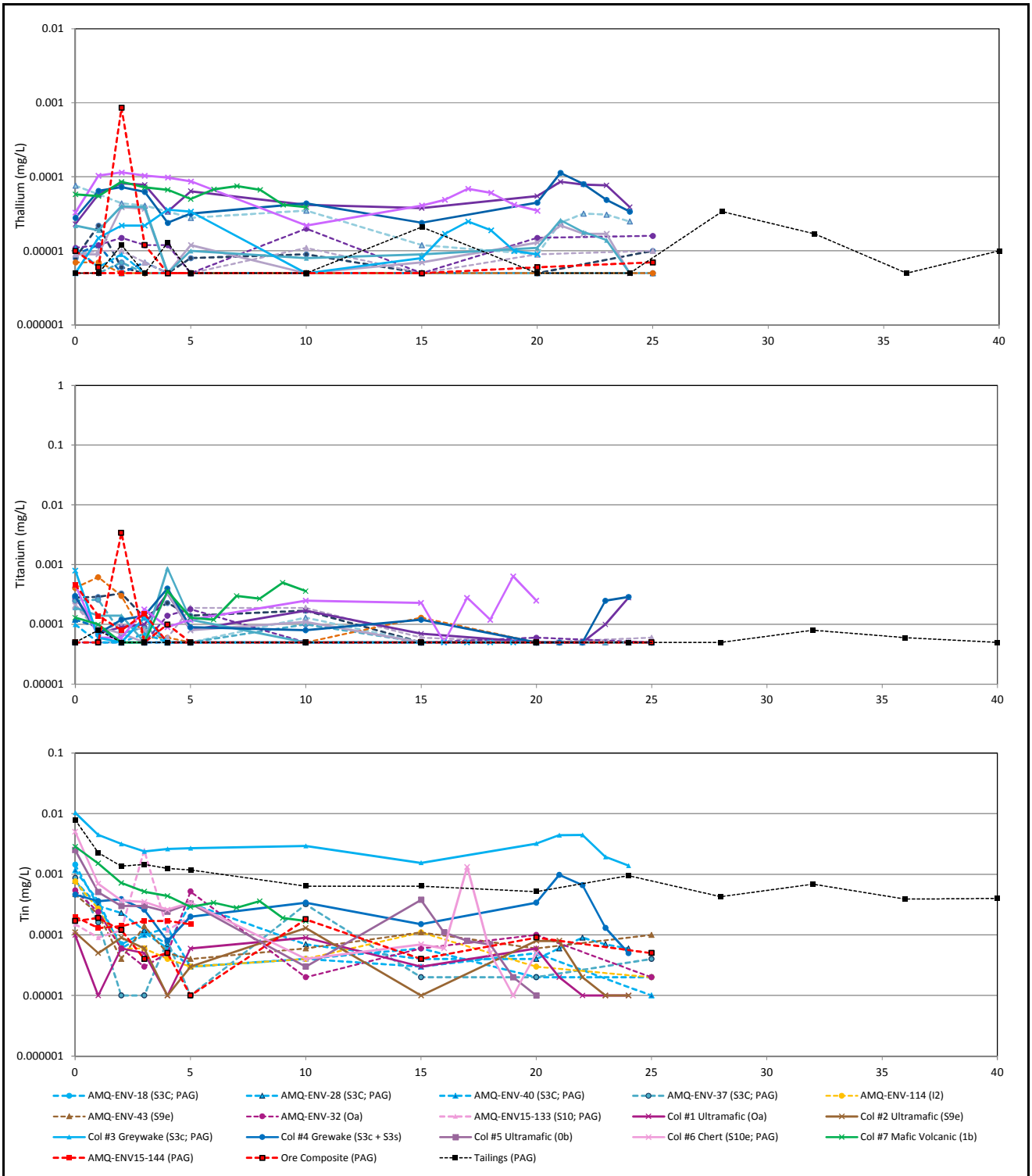
Kinetic Tests for Waste Rock, Ore and Tailings
Whale Tail Pit

DRAWN	JMC	DATE	May-16
CHECKED	KS	JOB NO	1520817
REVIEWED	VJB	PHASE	4000

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE F-1.11



Notes:

1 kg HCT

40-60 kg Column Tests

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Ultramafic (0a)
Transitional Ultramafic (0b)
Central Greywacke (S3c)
South Greywacke (S3s)
Chert (S10e)
Iron Formation (S9e)
Intermediate Intrusive (8b)
Mafic Volcanic (1b)
Ore
Tailings

Thallium
Titanium
Tin

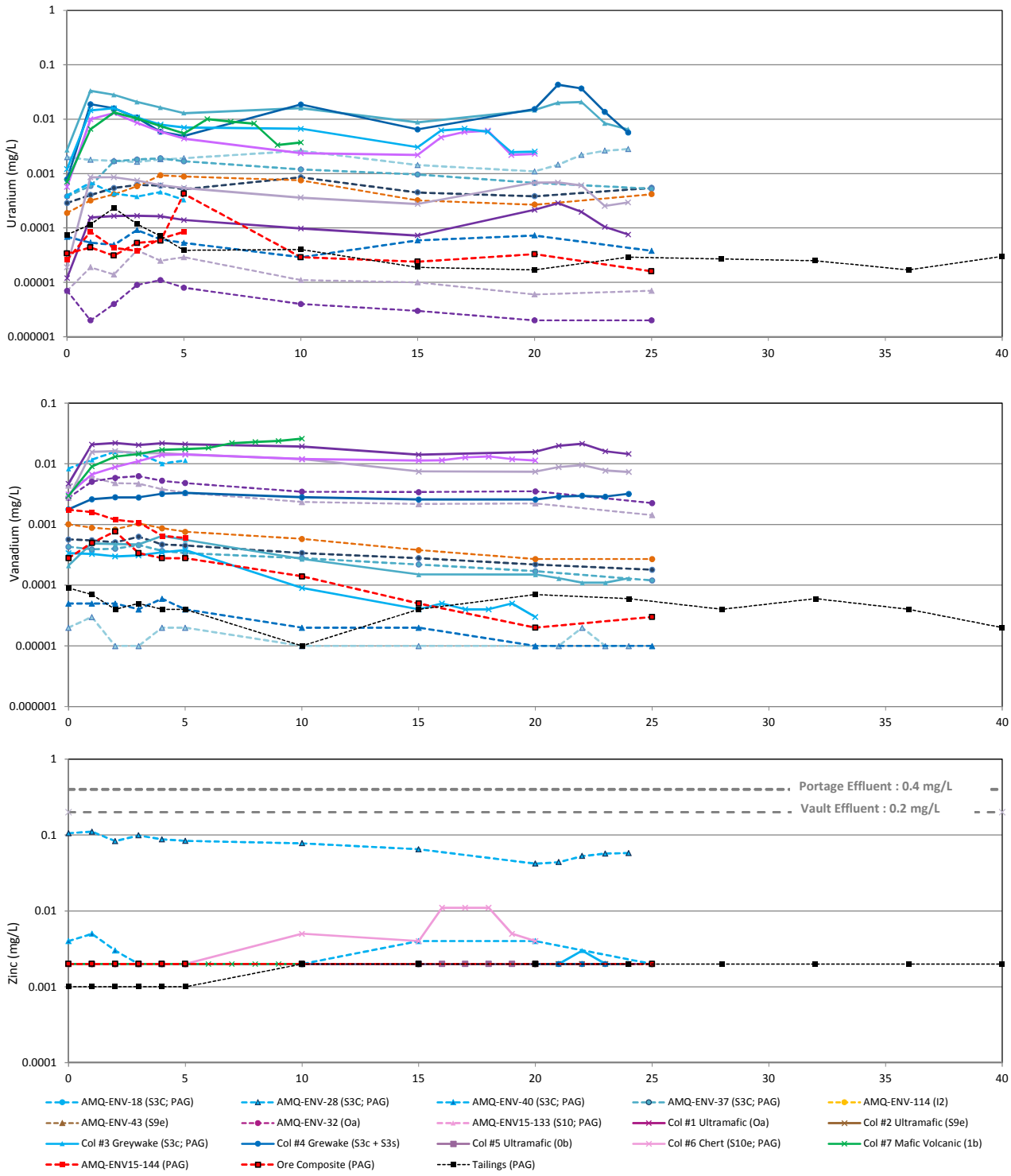
Kinetic Tests for Waste Rock, Ore and Tailings
Whale Tail Pit

DRAWN	JMC	DATE	May-16
CHECKED	KS	JOB NO	1520817
REVIEWED	VJB	PHASE	4000

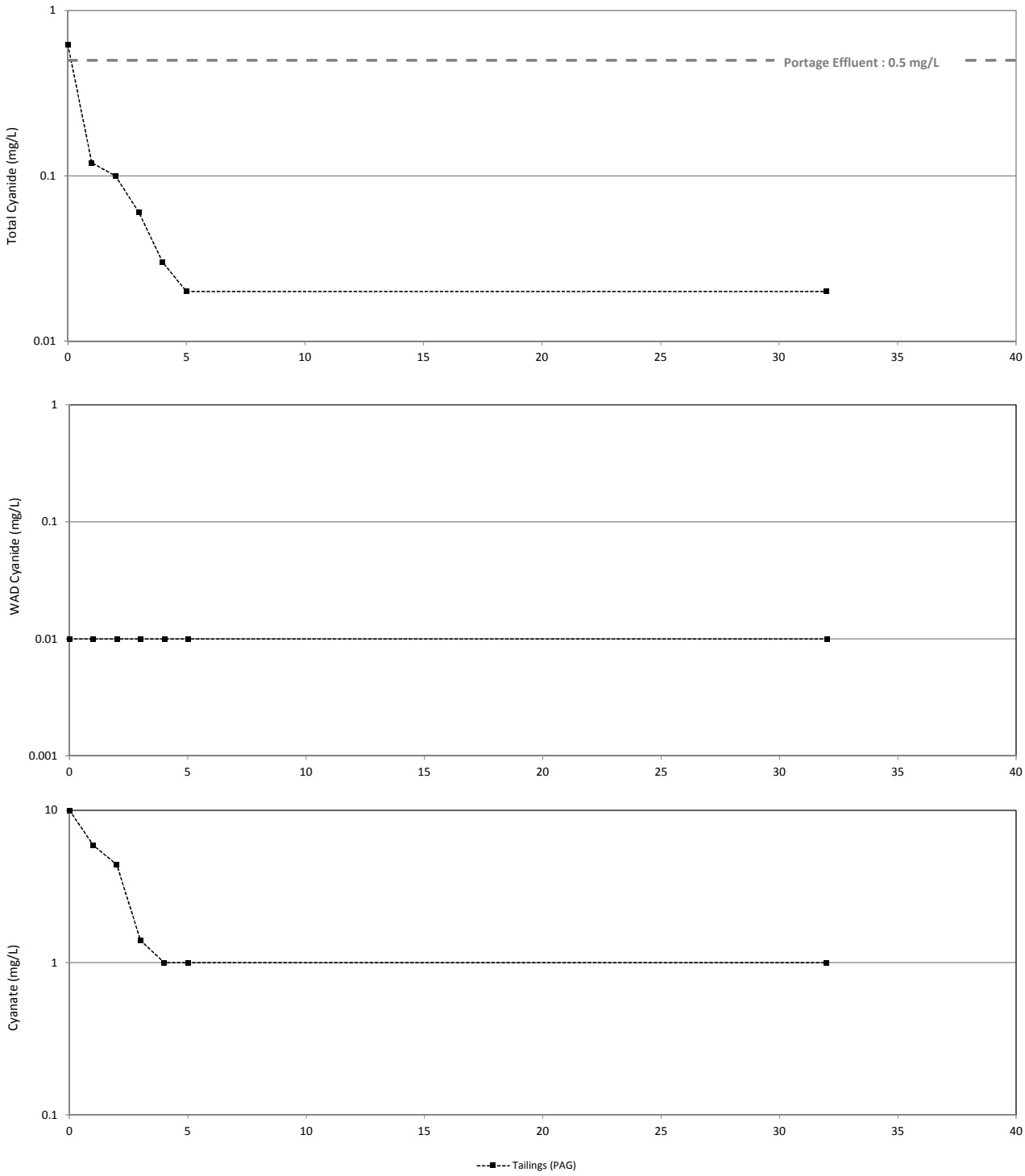
Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

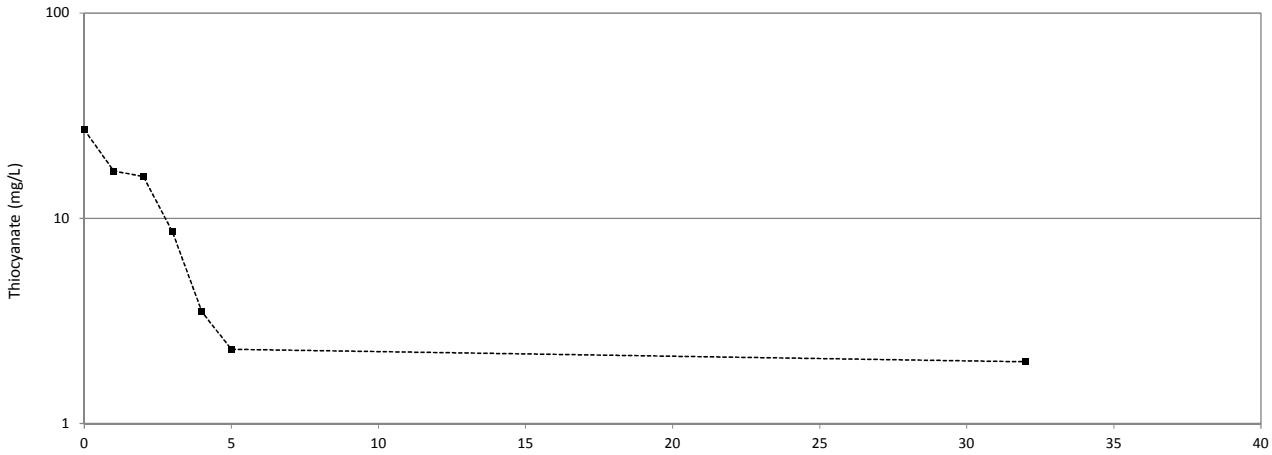
APPENDIX FIGURE F-1.12

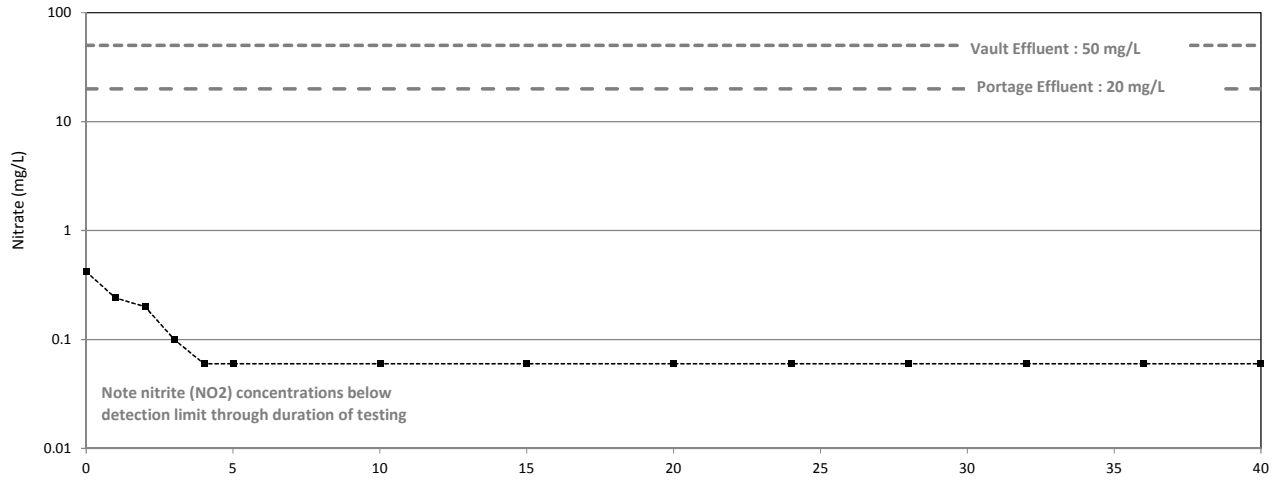


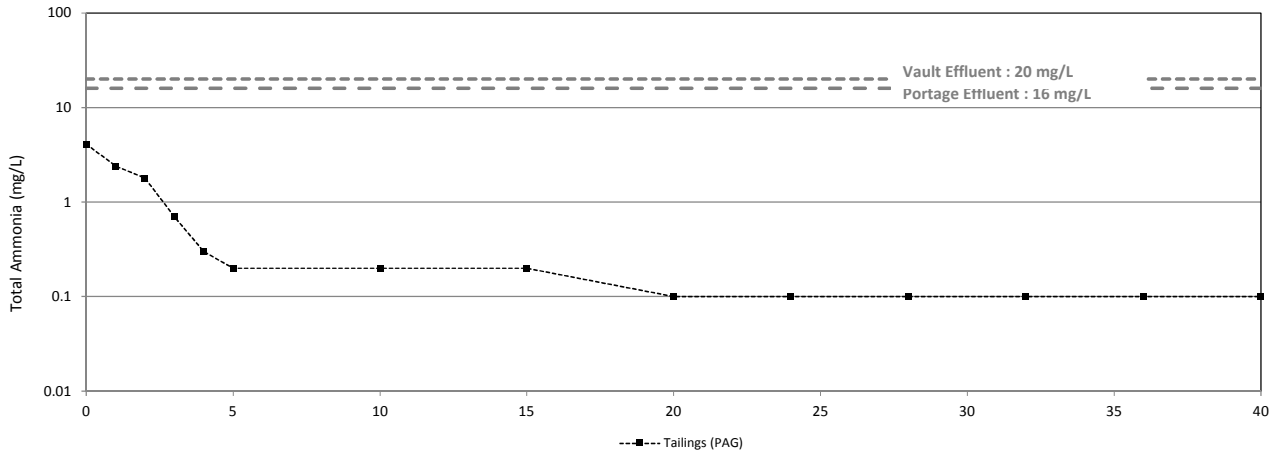
Notes:	Rock Type:		Uranium Vanadium Zinc		Kinetic Tests for Waste Rock, Ore and Tailings Whale Tail Pit	
1 kg HCT	Ultramafic (0a)	Iron Formation (S9e)	DRAWN JMC	DATE May-16	Agnico Eagle Mines Limited Meadowbank Division	Golder Associates
40-60 kg Column Tests	Transitional Ultramafic (0b)	Intermediate Intrusive (8b)	CHECKED KS	JOB NO 1520817		
Portage NWB Effluent Limit (NWB, 2015) (N	Central Greywacke (S3c)	Mafic Volcanic (1b)	REVIEWED VJB	PHASE 4000	APPENDIX FIGURE	F-1.13
Vault NWB Effluent Limit (NWB, 2015) (NW	South Greywacke (S3s)	Ore				
Values < MDL are plotted as MDL value	Chert (S10e)	Tailings				



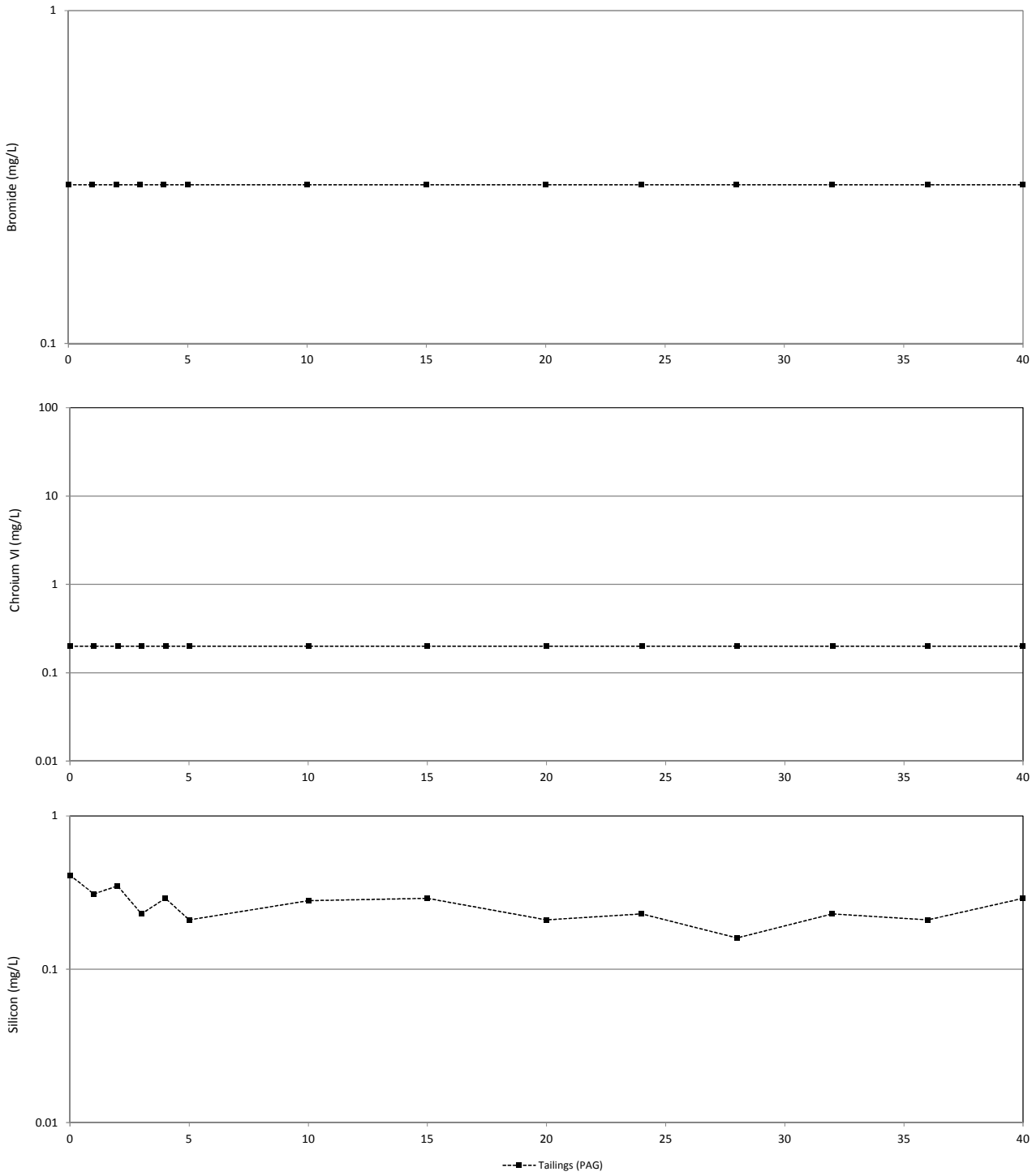
Notes:	Rock Type:		Total Cyanide WAD Cyanide Cyanate				Kinetic Tests for Tailings Whale Tail Pit	
..... 1 kg HCT	Ultramafic (0a)	Iron Formation (S9e)						
——— 40-60 kg Column Tests	Transitional Ultramafic (0b)	Intermediate Intrusive (8b)						
Portage NWB Effluent Limit (NWB, 2015) (N	Central Greywacke (S3c)	Mafic Volcanic (1b)	DRAWN	JMC	DATE	May-16	Agnico Eagle Mines Limited Meadowbank Division	Golder Associates
Vault NWB Effluent Limit (NWB, 2015) (NW	South Greywacke (S3s)	Ore	CHECKED	KS	JOB NO	1520817		
Values < MDL are plotted as MDL value	Chert (S10e)	Tailings	REVIEWED	VJB	PHASE	4000	APPENDIX FIGURE	F-1.14







Notes:	Rock Type:		Total Cyanide WAD Cyanide Zinc				Kinetic Tests for Tailings Whale Tail Pit	
..... 1 kg HCT	Ultramafic (0a)	Iron Formation (S9e)						
——— 40-60 kg Column Tests	Transitional Ultramafic (0b)	Intermediate Intrusive (8b)						
Portage NWB Effluent Limit (NWB, 2015) (N	Central Greywacke (S3c)	Mafic Volcanic (1b)	DRAWN	JMC	DATE	May-16	Agnico Eagle Mines Limited Meadowbank Division	Golder Associates
Vault NWB Effluent Limit (NWB, 2015) (NW	South Greywacke (S3s)	Ore	CHECKED	KS	JOB NO	1520817		
Values < MDL are plotted as MDL value	Chert (S10e)	Tailings	REVIEWED	VJB	PHASE	4000	APPENDIX FIGURE	F-1.15



Notes:	Rock Type:		Bromide Chromium VI Silicon				Kinetic Tests for Tailings Whale Tail Pit	
..... 1 kg HCT	Ultramafic (0a)	Iron Formation (S9e)						
——— 40-60 kg Column Tests	Transitional Ultramafic (0b)	Intermediate Intrusive (8b)						
Portage NWB Effluent Limit (NWB, 2015) (N	Central Greywacke (S3c)	Mafic Volcanic (1b)	DRAWN	JMC	DATE	May-16	Agnico Eagle Mines Limited Meadowbank Division	Golder Associates
Vault NWB Effluent Limit (NWB, 2015) (NW	South Greywacke (S3s)	Ore	CHECKED	KS	JOB NO	1520817		
Values < MDL are plotted as MDL value	Chert (S10e)	Tailings	REVIEWED	VJB	PHASE	4000	APPENDIX FIGURE	F-1.16

F.2 – Submerged Column

Appendix F-2
Submerged Column Results
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Submerged Column - UM - Port 1									
					Day 1	Day 3	Day 6	Day 10	Day 15	Day 20	Day 27	Day 35	Day 49	Day 70
PHYSICAL TESTS														
Leachate Volume Collected		mL			717	788	777	770	725	726	788	728	707	707
pH		-	**6.0 - 9.0**	6.0 - 9.0	8.1	8.5	8.0	8.0	8.0	7.9	8.0	7.9	8.2	8.2
Conductivity		µS/cm			177	157	159	150	135	142	146	143	156	156
ANIONS & NUTRIUENTS														
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	<2
Alkalinity	as CaCO4	mg/L			36	37	39	37	39	41	43	43	46	46
Chloride	Cl	mg/L	**1000**	500	11	9.0	7.0	5.0	4.0	3.0	3.0	3.0	2.0	2.0
Fluoride	Fe	mg/L			0.11	0.12	0.13	0.13	0.15	0.12	0.12	0.11	0.11	0.11
Phosphorus	P	mg/L	**1**	1.5	0.027	0.012	0.01	0.009	0.007	0.009	0.006	0.004	0.007	0.007
Sulphate	SO4	mg/L			22	20	23	21	20	15	18	17	16	16
DISSOLVED METALS														
Aluminum	Al	mg/L	**1**	1	0.025	0.032	0.029	0.032	0.035	0.036	0.036	0.033	0.038	0.038
Antimony	Sb	mg/L			0.045	0.054	0.051	0.052	0.038	0.02	0.012	0.0081	0.0078	0.0078
Arsenic	As	mg/L	**0.3**	0.1	**1.7**	**2.4**	**2.1**	**2.2**	**2.1**	**1.8**	**1.7**	**1.7**	**1.5**	**1.5**
Barium	Ba	mg/L			0.0024	0.007	0.01	0.013	0.014	0.015	0.016	0.018	0.018	0.018
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	<0.000007
Bismuth	Bi	mg/L			0.000016	< 0.000007	< 0.000007	< 0.000007	0.000008	< 0.000007	< 0.000007	< 0.000007	< 0.000007	<0.000007
Boron	B	mg/L			0.047	0.047	0.054	0.054	0.052	0.046	0.046	0.039	0.048	0.048
Cadmium	Cd	mg/L	**0.002**	0.002	0.000006	0.00001	< 0.000003	< 0.000003	0.000004	0.000004	0.000003	< 0.000003	0.000007	0.000007
Calcium	Ca	mg/L			6.5	8.1	8.3	8.9	8.4	8.3	9.0	9.7	10	10
Chromium	Cr	mg/L			0.0011	0.00048	0.00012	< 0.00003	0.00005	0.00007	0.00005	0.00006	0.00006	0.00006
Cobalt	Co	mg/L			0.00023	0.00031	0.00042	0.00047	0.00039	0.00042	0.00041	0.00042	0.00041	0.00041
Copper	Cu	mg/L	**0.1**	0.1	0.0013	0.00021	0.00034	0.00046	0.00027	< 0.00002	0.00042	0.00029	0.00009	0.00009
Iron	Fe	mg/L			< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	<0.007
Lead	Pb	mg/L	**0.1**	0.1	0.00011	0.00013	0.00012	0.0001	0.00004	0.00005	0.00003	0.00004	0.00002	0.00002
Lithium	Li	mg/L			0.16	0.019	0.011	0.0099	0.009	0.0075	0.0072	0.0056	0.0066	0.0066
Magnesium	Mg	mg/L			3.9	3.7	3.6	3.6	3.6	3.3	3.3	3.4	3.8	3.8
Manganese	Mn	mg/L			0.00068	0.0018	0.0019	0.0024	0.0036	0.0044	0.0054	0.0063	0.0076	0.0076
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	<0.00001
Molybdenum	Mo	mg/L			0.0097	0.0033	0.0027	0.0027	0.0043	0.0025	0.0029	0.0032	0.0031	0.0031
Nickel	Ni	mg/L	**0.2**	0.2	0.011	0.0071	0.0059	0.005	0.0038	0.0036	0.0036	0.0037	0.0035	0.0035
Potassium	K	mg/L			20	22	20	18	18	16	16	16	17	17
Selenium	Se	mg/L			0.00085	0.0016	0.00067	0.0009	0.00066	0.00045	0.00038	0.00028	0.00022	0.00022
Silicon	Si	mg/L			3.2	4.2	4.2	4.4	4.0	3.8	3.9	3.2	3.5	3.5
Silver	Au	mg/L			0.000011	0.000009	0.000002	0.000004	0.000003	< 0.000002	< 0.000002	< 0.000002	< 0.000002	<0.000002
Sodium	Na	mg/L			5.8	4.7	4.3	3.8	3.5	3.1	3.0	2.8	3.1	3.1
Thallium	Th	mg/L			< 0.000005	< 0.000005	0.000011	0.00001	0.000008	0.000009	< 0.000005	< 0.000005	< 0.000005	<0.000005
Tin	Sn	mg/L			0.00028	0.00005	0.00002	0.00007	0.00004	0.00001	0.00006	< 0.00001	0.00005	<0.00005
Titanium	Ti	mg/L			0.00018	0.00016	0.00025	< 0.00005	0.00008	0.00005	0.00008	0.00006	0.00005	0.00005
Uranium	U	mg/L			0.00031	0.00055	0.00064	0.00076	0.00094	0.00068	0.00067	0.00081	0.00071	0.00071
Vanadium	V	mg/L			0.16	0.033	0.022	0.02	0.014	0.011	0.0092	0.0086	0.0085	0.0085
Zinc	Zn	mg/L	**0.4**	0.2	0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	<0.002

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-2
Submerged Column Results
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Submerged Column - UM - Port 2									
					Day 1	Day 3	Day 6	Day 10	Day 15	Day 20	Day 27	Day 35	Day 49	Day 70
PHYSICAL TESTS														
Leachate Volume Collected		mL			764	769	775	766	790	779	751	754	777	777
pH		-	**6.0 - 9.0**	6.0 - 9.0	7.0	7.2	7.3	7.2	7.3	7.5	7.5	7.5	7.6	7.6
Conductivity		µS/cm			13	17	25	23	28	35	40	63	111	111
ANIONS & NUTRIUENTS														
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	<2
Alkalinity	as CaCO4	mg/L			4.0	12	8.0	7.0	11	15	14	16	22	22
Chloride	Cl	mg/L	**1000**	500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Fluoride	Fe	mg/L			< 0.06	< 0.06	< 0.06	< 0.06	0.06	< 0.06	< 0.06	< 0.06	< 0.06	<0.06
Phosphorus	P	mg/L	**1**	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	<0.003
Sulphate	SO4	mg/L			1.0	1.0	2.0	2.0	3.0	3.0	3.0	3.0	4.0	4
DISSOLVED METALS														
Aluminum	Al	mg/L	**1**	1	0.007	0.013	0.013	0.014	0.015	0.016	0.018	0.018	0.017	0.017
Antimony	Sb	mg/L			0.0007	0.0018	0.0016	0.0036	0.0041	0.0032	0.0056	0.0051	0.0059	0.0059
Arsenic	As	mg/L	**0.3**	0.1	0.023	0.07	0.16	0.19	0.28	**0.36**	**0.43**	**0.58**	**0.63**	**0.6**
Barium	Ba	mg/L			0.0021	0.0032	0.0041	0.0048	0.006	0.0073	0.0085	0.011	0.012	0.012
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	<0.000007
Bismuth	Bi	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	<0.000007
Boron	B	mg/L			0.0031	0.0068	0.0066	0.0084	0.011	0.0059	0.005	0.0003	0.0063	0.006
Cadmium	Cd	mg/L	**0.002**	0.002	< 0.000003	0.000003	< 0.000003	0.000004	< 0.000003	0.000004	< 0.000003	< 0.000003	< 0.000003	<0.000003
Calcium	Ca	mg/L			1.1	1.6	1.9	2.2	2.7	3.1	3.7	4.4	5.2	5
Chromium	Cr	mg/L			< 0.00003	0.00003	< 0.00003	< 0.00003	0.00005	0.00008	0.00008	0.00008	0.00009	0.00009
Cobalt	Co	mg/L			< 0.000004	0.000033	0.000035	0.000059	0.000062	0.000093	0.00013	0.00016	0.0002	0.0002
Copper	Cu	mg/L	**0.1**	0.1	< 0.00002	< 0.00002	0.00012	0.00028	0.00007	< 0.00002	0.00023	0.00011	0.00008	0.00008
Iron	Fe	mg/L			< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	<0.007
Lead	Pb	mg/L	**0.1**	0.1	< 0.00001	0.00005	0.00003	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00004	<0.00004
Lithium	Li	mg/L			0.00026	0.00021	0.00023	0.00028	0.00039	0.00043	0.00048	0.00061	0.0007	0.0007
Magnesium	Mg	mg/L			0.16	0.26	0.36	0.41	0.53	0.58	0.64	0.81	0.95	1.0
Manganese	Mn	mg/L			0.0049	0.0062	0.0055	0.011	0.0076	0.0086	0.0092	0.01	0.013	0.0128
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	<0.00001
Molybdenum	Mo	mg/L			0.00056	0.00041	0.00017	0.00044	0.0011	0.00022	0.00024	0.00033	0.00039	0.0004
Nickel	Ni	mg/L	**0.2**	0.2	0.0004	0.0005	0.0006	0.0008	0.0009	0.0011	0.0013	0.0019	0.0023	0.0023
Potassium	K	mg/L			0.92	1.6	2.3	2.3	2.9	3.2	3.8	4.3	5.4	5
Selenium	Se	mg/L			0.00006	0.00082	0.00014	0.00047	0.00013	0.00011	0.00006	0.00007	0.00006	0.00006
Silicon	Si	mg/L			0.09	0.17	0.33	0.33	0.42	0.5	0.62	0.52	0.47	0.5
Silver	Au	mg/L			< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	<0.000002
Sodium	Na	mg/L			0.15	0.25	0.33	0.31	0.33	0.32	0.37	0.44	0.47	0.5
Thallium	Th	mg/L			< 0.000005	< 0.000005	< 0.000005	0.000007	0.000008	0.000014	0.00001	0.000014	0.00001	0.00001
Tin	Sn	mg/L			< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00004	0.00005	0.00006	< 0.00001	0.00004	<0.00004
Titanium	Ti	mg/L			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	<0.00005
Uranium	U	mg/L			0.000005	0.00001	0.000012	0.000033	0.000098	0.000026	0.000032	0.000048	0.000071	0.00007
Vanadium	V	mg/L			0.00037	0.00064	0.0012	0.0013	0.0016	0.002	0.0022	0.0027	0.003	0.003
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	<0.002

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-2
Submerged Column Results
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

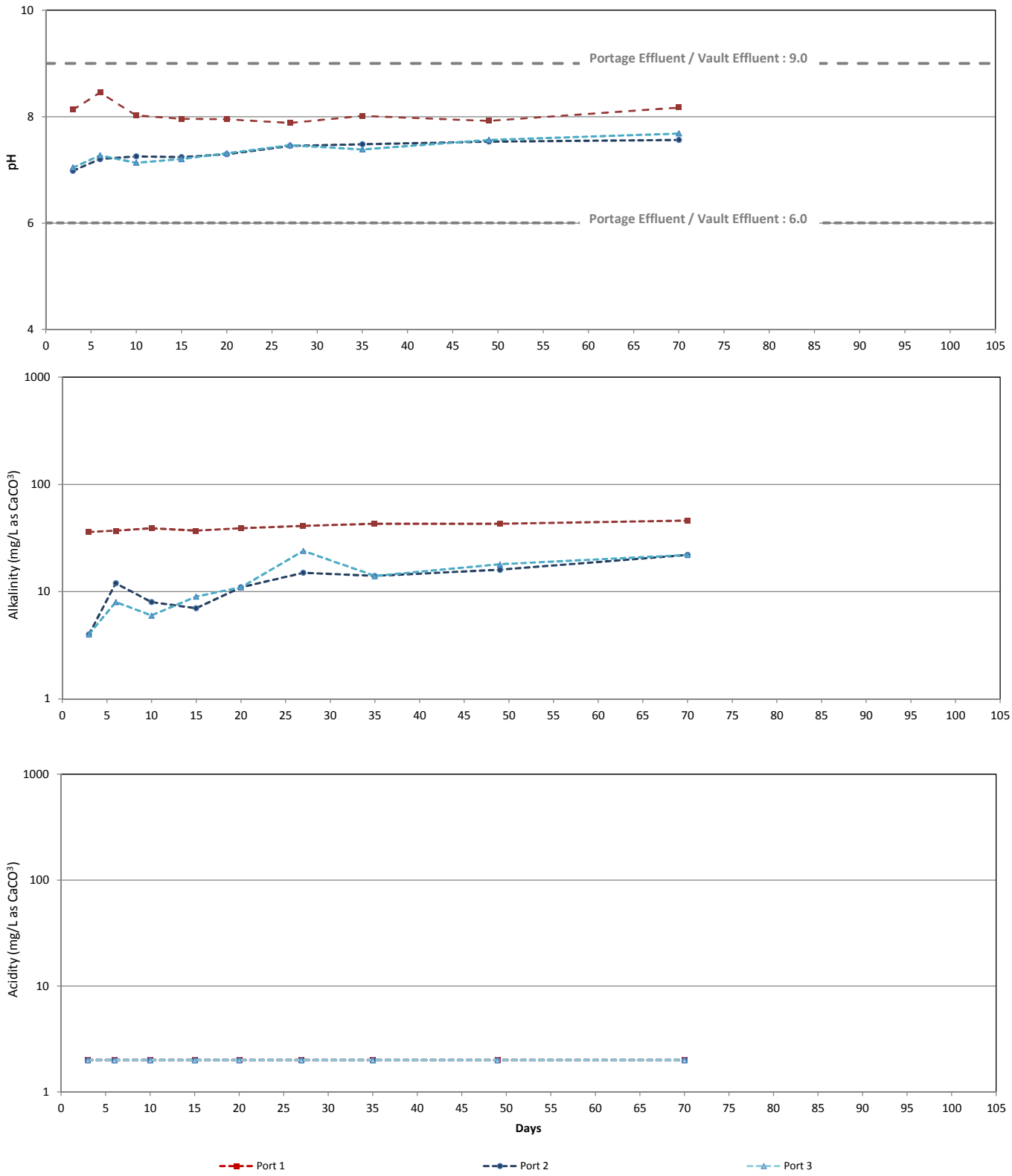
Parameter			Portage Effluent Criteria[1]	Vault Effluent Criteria[2]	Submerged Column - UM - Port 3									
					Day 1	Day 3	Day 6	Day 10	Day 15	Day 20	Day 27	Day 35	Day 49	Day 70
PHYSICAL TESTS														
Leachate Volume Collected		mL			785	712	724	779	749	782	730	765	784	784
pH		-	**6.0 - 9.0**	6.0 - 9.0	7.0	7.3	7.1	7.2	7.3	7.5	7.4	7.6	7.7	7.7
Conductivity		µS/cm			13	17	18	24	29	35	40	45	56	56
ANIONS & NUTRIUENTS														
Acidity	as CaCO3	mg/L			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	<2
Alkalinity	as CaCO4	mg/L			4.0	8.0	6.0	9.0	11	24	14	18	22	22
Chloride	Cl	mg/L	**1000**	500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Fluoride	Fe	mg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	<0.06
Phosphorus	P	mg/L	**1**	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	<0.003
Sulphate	SO4	mg/L			1.0	1.0	2.0	2.0	3.0	3.0	3.0	3.0	4.0	4
DISSOLVED METALS														
Aluminum	Al	mg/L	**1**	1	0.007	0.012	0.01	0.014	0.016	0.016	0.017	0.02	0.017	0.017
Antimony	Sb	mg/L			0.0005	0.0016	0.0002	0.0035	0.0038	0.0031	0.0057	0.0052	0.006	0.006
Arsenic	As	mg/L	**0.3**	0.1	0.019	0.065	0.082	0.18	0.28	**0.36**	**0.44**	**0.59**	**0.64**	**0.6**
Barium	Ba	mg/L			0.0021	0.0032	0.0031	0.0048	0.0061	0.0071	0.0085	0.011	0.012	0.012
Beryllium	Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	<0.000007
Bismuth	Bi	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	<0.000007
Boron	B	mg/L			0.0008	0.0032	0.0025	0.005	0.0074	0.0044	0.0048	< 0.0002	0.0049	0.005
Cadmium	Cd	mg/L	**0.002**	0.002	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	<0.000003
Calcium	Ca	mg/L			1.1	1.5	1.5	2.2	2.7	3.1	3.7	4.4	5.2	5
Chromium	Cr	mg/L			< 0.00003	< 0.00003	< 0.00003	< 0.00003	0.00005	0.00008	0.00009	0.00009	0.0001	0.00010
Cobalt	Co	mg/L			< 0.000004	0.000085	0.000036	0.000068	0.000064	0.00008	0.00012	0.00015	0.00019	0.00019
Copper	Cu	mg/L	**0.1**	0.1	< 0.00002	< 0.00002	0.00014	0.00037	0.00024	< 0.00002	0.0004	0.00012	0.00008	0.00008
Iron	Fe	mg/L			< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	<0.007
Lead	Pb	mg/L	**0.1**	0.1	< 0.00001	0.00004	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	<0.00001
Lithium	Li	mg/L			0.00014	0.00019	0.00016	0.00028	0.00037	0.0004	0.00051	0.00057	0.00068	0.0007
Magnesium	Mg	mg/L			0.16	0.26	0.27	0.41	0.53	0.57	0.64	0.82	0.96	1.0
Manganese	Mn	mg/L			0.0052	0.0067	0.0056	0.0071	0.0079	0.0088	0.0092	0.01	0.012	0.012
Mercury	Hg	mg/L	**0.0004**	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	<0.00001
Molybdenum	Mo	mg/L			< 0.00001	0.0002	< 0.00001	0.00028	0.00054	0.00019	0.00021	0.0003	0.00036	0.0004
Nickel	Ni	mg/L	**0.2**	0.2	0.0004	0.0006	0.0006	0.0008	0.0009	0.0011	0.0013	0.0019	0.0023	0.0023
Potassium	K	mg/L			0.93	1.6	1.7	2.3	3.0	3.1	3.6	4.4	5.3	5
Selenium	Se	mg/L			< 0.00004	0.00035	0.00006	0.00036	0.00007	0.00009	0.00005	0.00008	0.00006	0.00006
Silicon	Si	mg/L			0.08	0.17	0.19	0.33	0.42	0.5	0.58	0.52	0.45	0.5
Silver	Au	mg/L			< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	<0.000002
Sodium	Na	mg/L			0.15	0.24	0.27	0.3	0.33	0.32	0.37	0.45	0.48	0.5
Thallium	Th	mg/L			< 0.000005	< 0.000005	< 0.000005	0.000008	0.000007	0.000014	0.000011	0.000015	0.000011	0.000011
Tin	Sn	mg/L			< 0.00001	< 0.00001	< 0.00001	0.00003	0.00006	0.00002	0.0001	< 0.00001	0.00005	0.00005
Titanium	Ti	mg/L			0.00009	0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	<0.00005
Uranium	U	mg/L			0.000003	0.000003	0.000003	0.000015	0.000034	0.000022	0.000028	0.000045	0.000059	0.00006
Vanadium	V	mg/L			0.00034	0.0006	0.00073	0.0013	0.0016	0.002	0.0021	0.0027	0.0031	0.0031
Zinc	Zn	mg/L	**0.4**	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	<0.002

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.



Notes:

Portage NWB Effluent Limit (NWB, 2015) (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Port 1: 5 cm below Rock/Water Interface

Port 2: Rock/Water Interface

Port 3: 30 cm above Rock Water Interface

pH
Alkalinity
Acidity

DRAWN	CT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

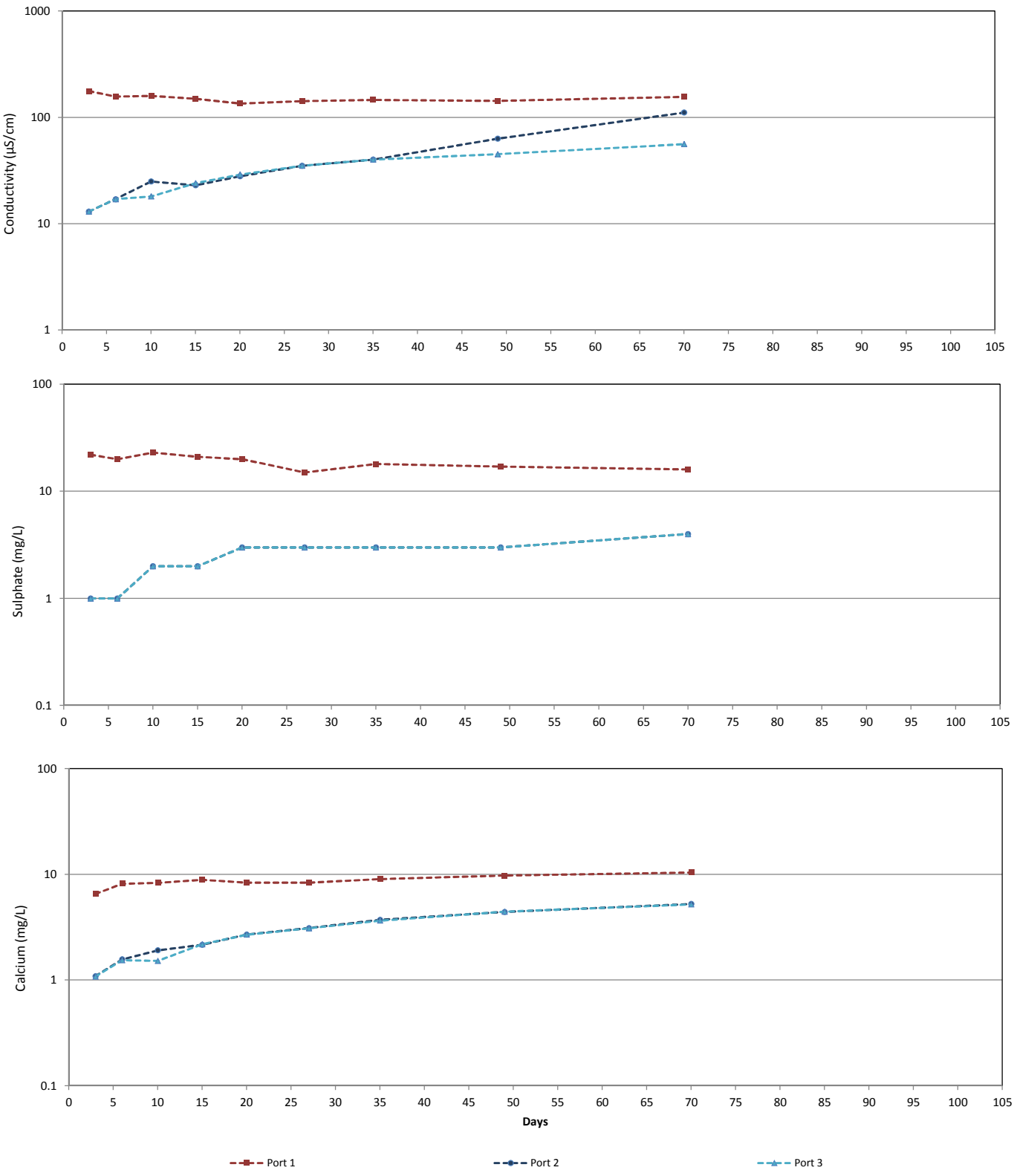
Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE F-2.1

\\golder.gds\gal\Ottawa\Active\2015\3 Proj\1520817 Amaruq Geochemistry Baseline\report\Phase 3\Rev B\Appendix F - Kinetic Test Results\F2 Submerged Col\ Whale Tail_SubCol_Fig_Tbl.xlsx



Notes:

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Port 1: 5 cm below Rock/Water Interface

Port 2: Rock/Water Interface

Port 3: 30 cm above Rock Water Interface

Conductivity
Sulphate
Calcium

DRAWN	CT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

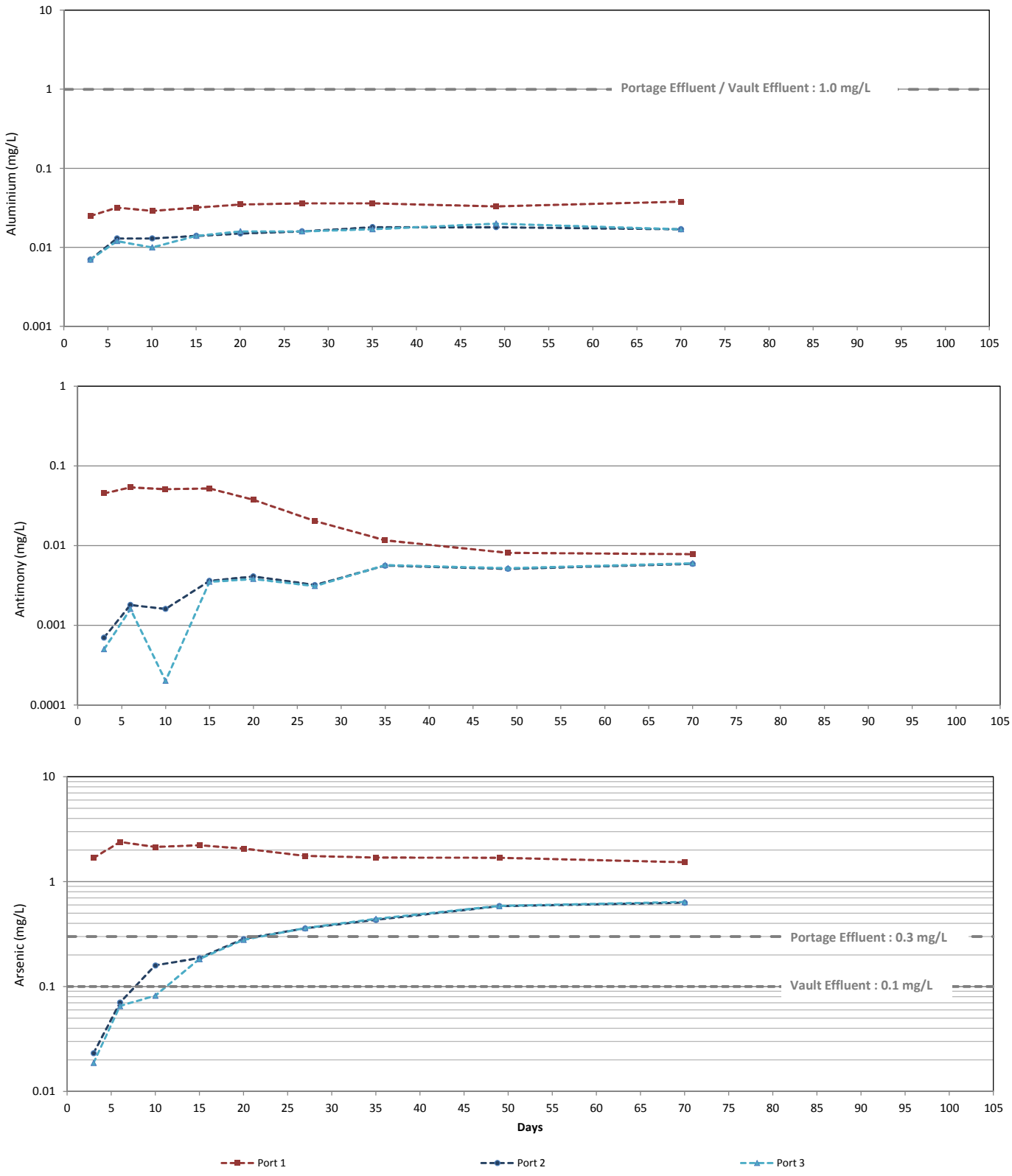
Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)

Agnico Eagle Mines Limited
Meadowbank Division

Golder Associates

APPENDIX FIGURE F-2.2

\\golder.gds\gal\Ottawa\Active\2015\3 Proj\1520817 Amaruq Geochemistry Baseline\report\Phase 3\Rev B\Appendix F - Kinetic Test Results\F2 Submerged Col\
Whale Tail_SubCol_Fig_Tbl.xlsx



Notes:

Portage NWB Effluent Limit (NWB, 2015) (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Port 1: 5 cm below Rock/Water Interface

Port 2: Rock/Water Interface

Port 3: 30 cm above Rock Water Interface

Aluminum
Antimony
Arsenic

DRAWN	CT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

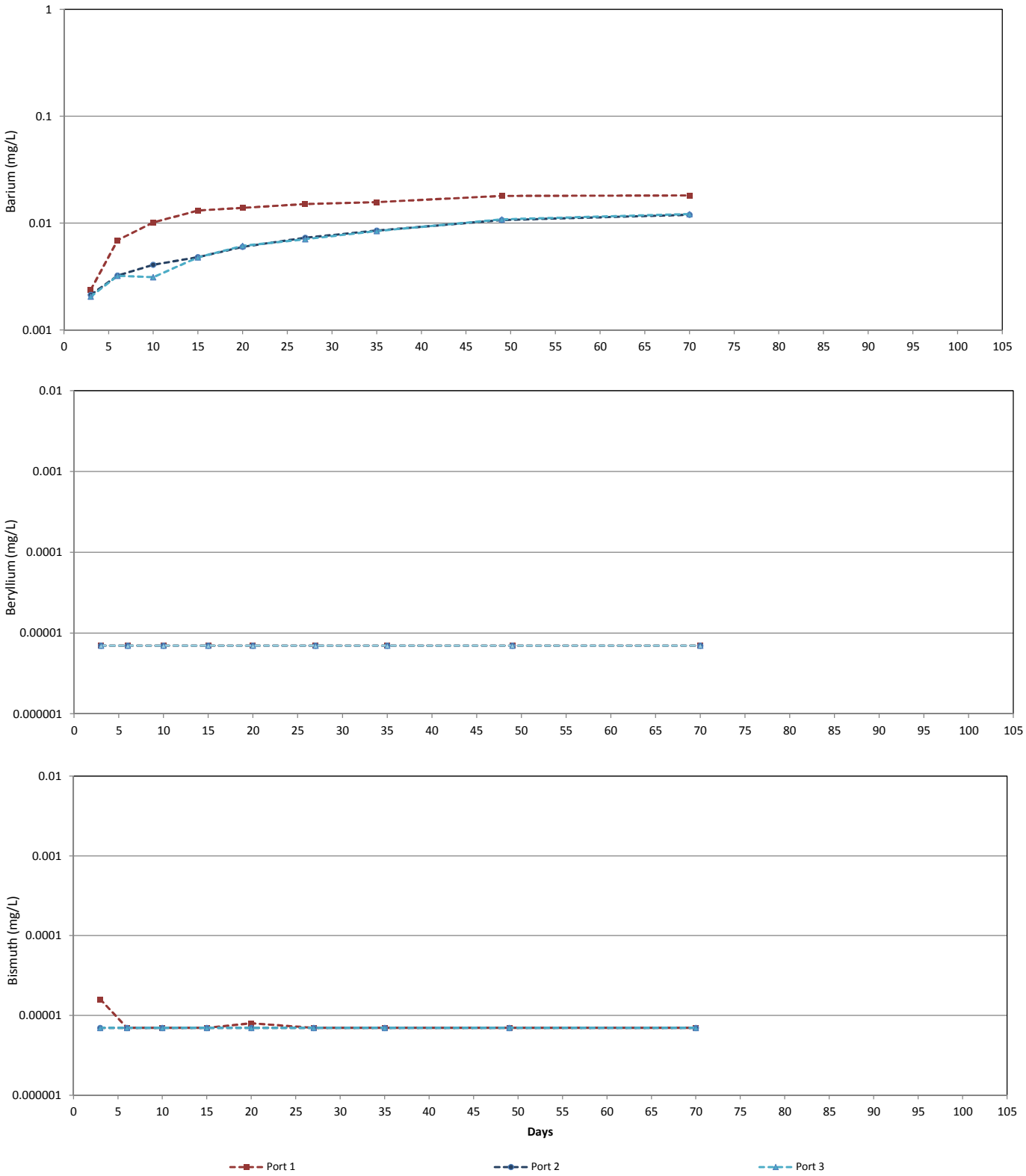
Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)

Agnico Eagle Mines Limited
Meadowbank Division

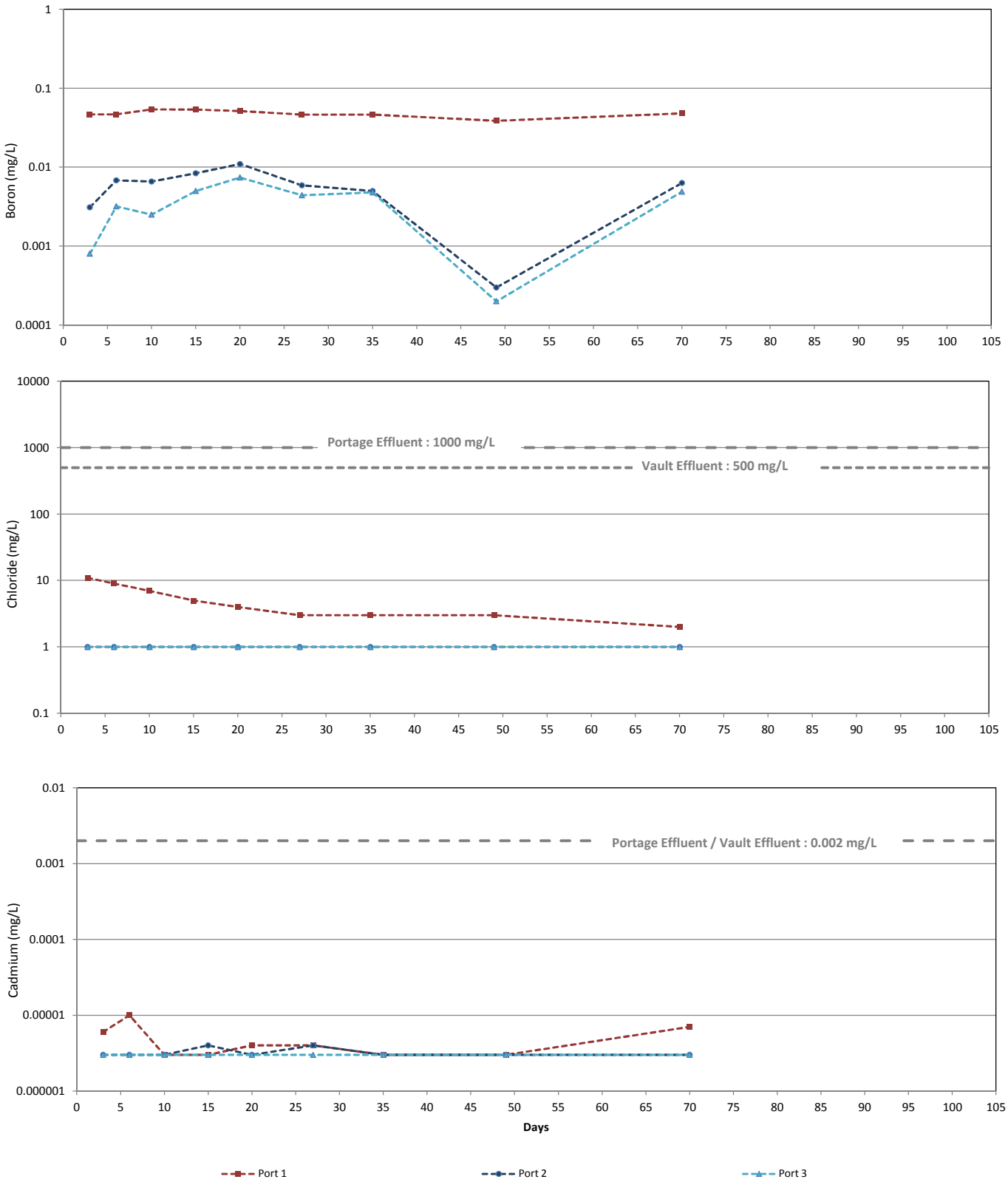
Golder Associates

APPENDIX FIGURE F-2.3

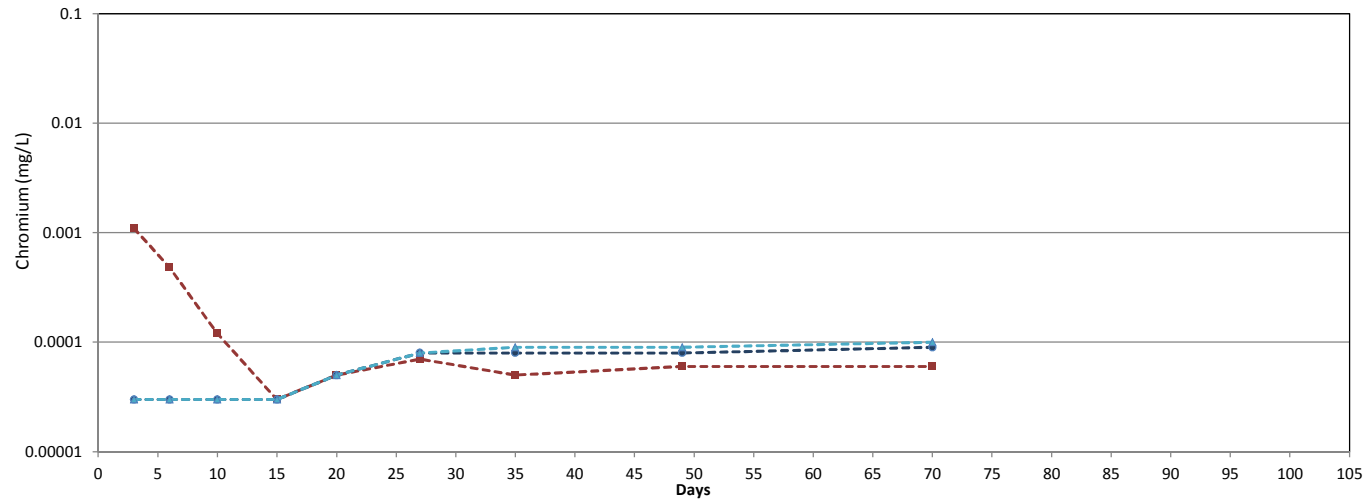
\\golder.gds\gal\Ottawa\Active\2015\3 Proj\1520817 Amaruq Geochemistry Baseline\report\Phase 3\Rev B\Appendix F - Kinetic Test Results\F2 Submerged Col\
Whale Tail_SubCol_Fig_Tbl.xlsx

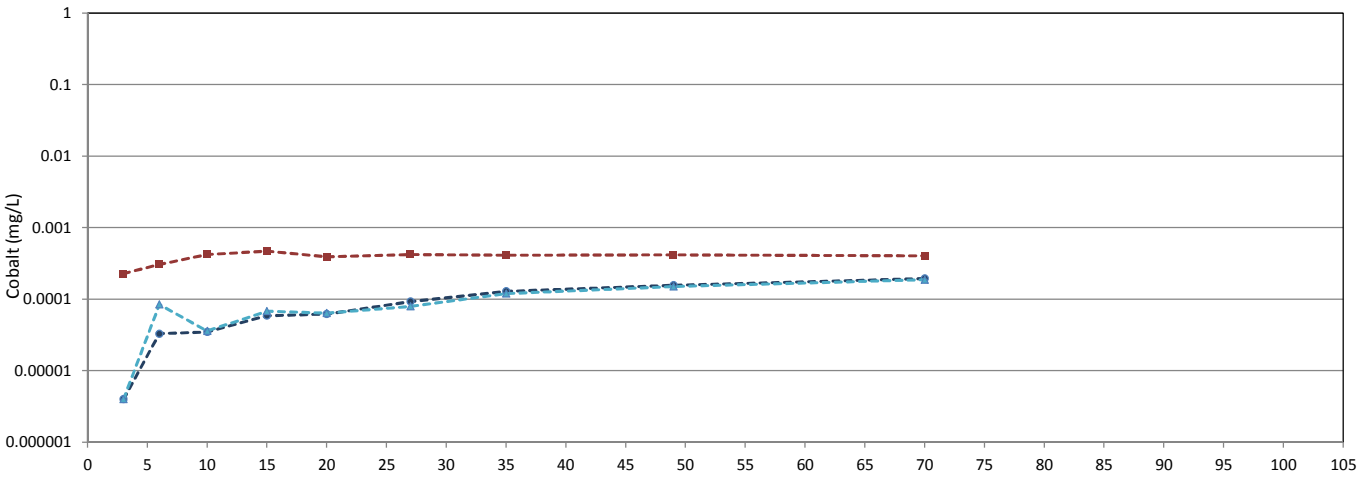


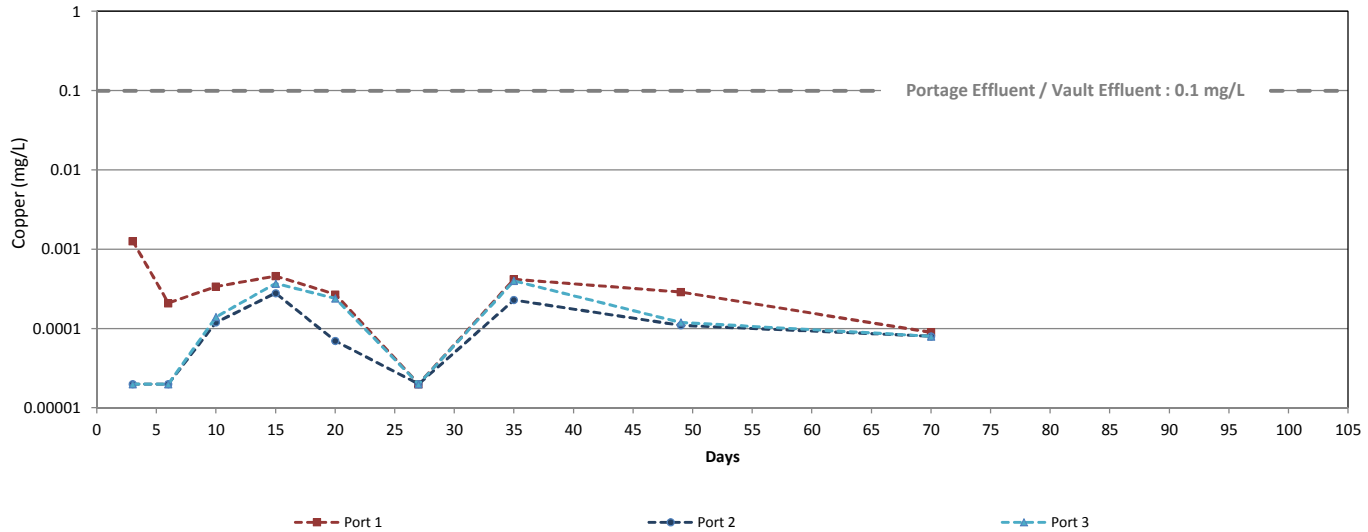
Notes: Portage NWB Effluent Limit (NWB, 2015) Vault NWB Effluent Limit (NWB, 2015) Values < MDL are plotted as MDL value	Rock Type: Port 1: 5 cm below Rock/Water Interface Port 2: Rock/Water Interface Port 3: 30 cm above Rock Water Interface	**Barium Beryllium Bismuth**		**Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)**	
		DRAWN CT	DATE May-16	**Agnico Eagle Mines Limited Meadowbank Division**	Golder Associates
		CHECKED JMC	JOB NO 1520817		
		REVIEWED VJB	PHASE/TASK 3000	**APPENDIX FIGURE**	F-2.4



Notes:	Rock Type:	Boron Chloride Cadmium				Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)	
Portage NWB Effluent Limit (NWB, 2015)	Port 1: 5 cm below Rock/Water Interface	DRAWN	CT	DATE	May-16	Agnico Eagle Mines Limited Meadowbank Division	Golder Associates
Vault NWB Effluent Limit (NWB, 2015)	Port 2: Rock/Water Interface	CHECKED	JMC	JOB NO	1520817		
Values < MDL are plotted as MDL value	Port 3: 30 cm above Rock Water Interface	REVIEWED	VJB	PHASE/TASK	3000	APPENDIX FIGURE	F-2.5







Notes:

Portage NWB Effluent Limit (NWB, 2015) (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Port 1: 5 cm below Rock/Water Interface

Port 2: Rock/Water Interface

Port 3: 30 cm above Rock Water Interface

Chromium
Cobalt
Copper

DRAWN	CT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

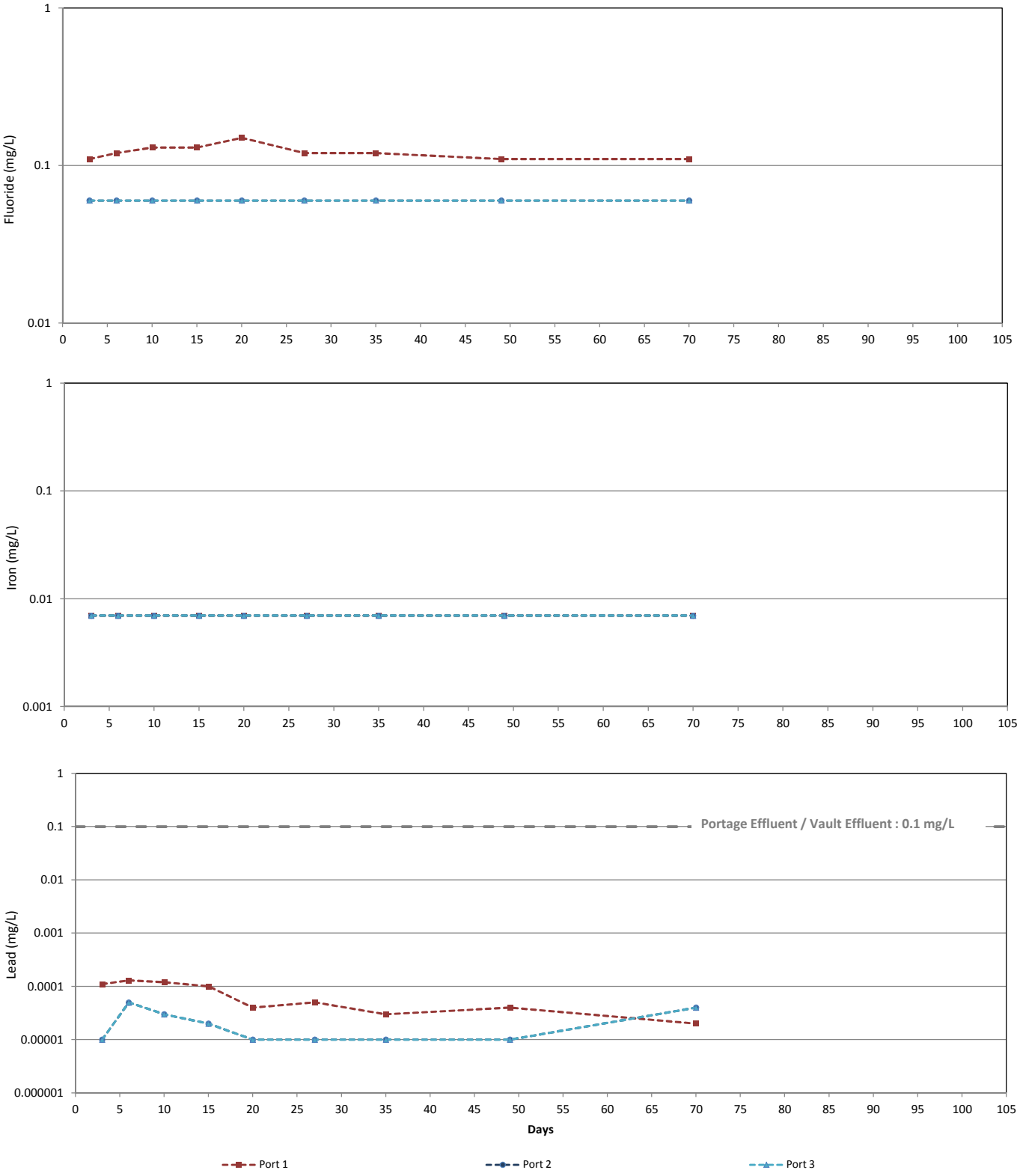
Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)

Agnico Eagle Mines Limited
Meadowbank Division

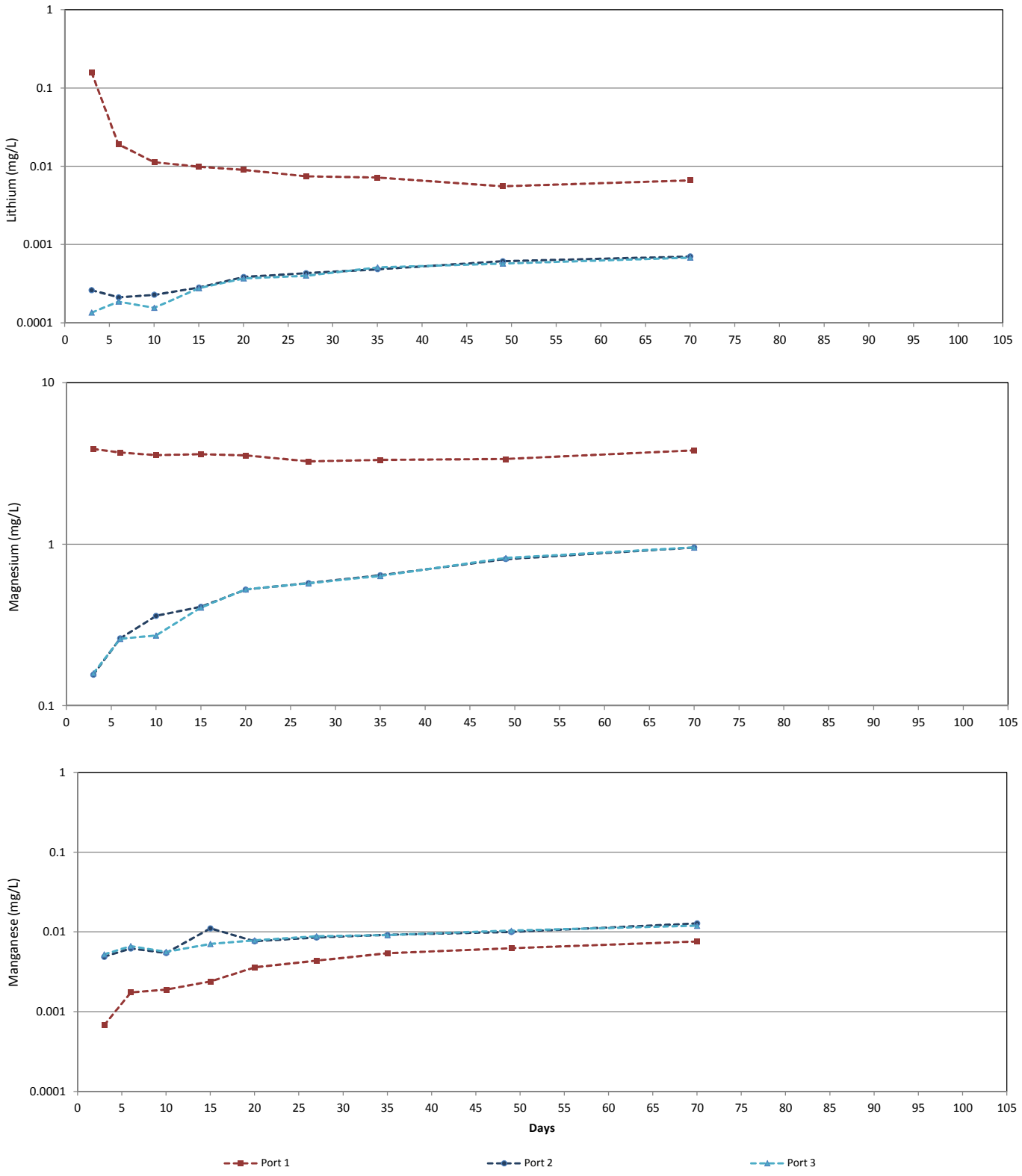
Golder Associates

APPENDIX FIGURE F-2.6

\\golder.gds\gal\Ottawa\Active\2015\3 Proj\1520817 Amaruq Geochemistry Baseline\report\Phase 3\Rev B\Appendix F - Kinetic Test Results\F2 Submerged Col\
Whale Tail_SubCol_Fig_Tbl.xlsx

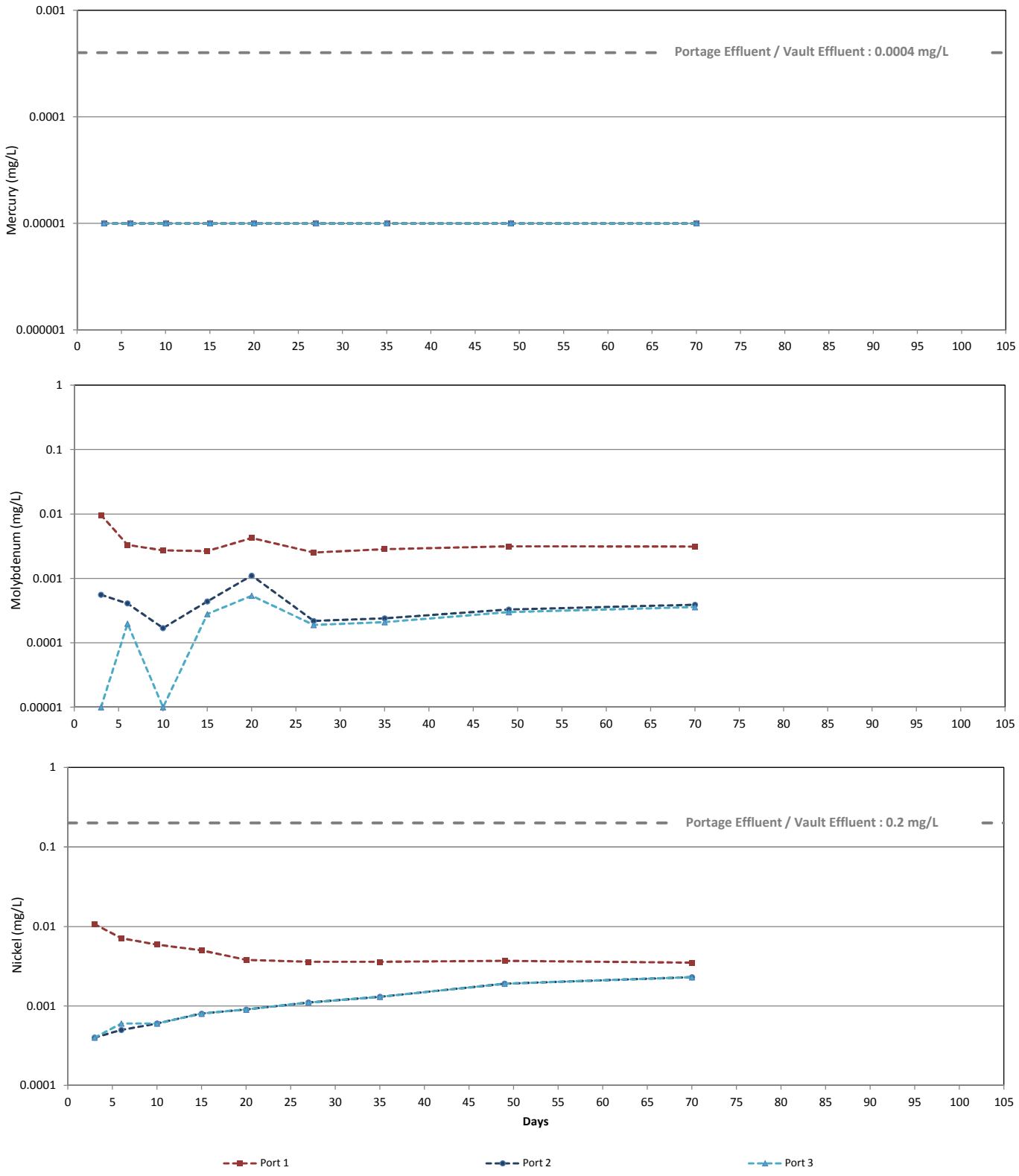


Notes: Portage NWB Effluent Limit (NWB, 2015) Vault NWB Effluent Limit (NWB, 2015) Values < MDL are plotted as MDL value	Rock Type: Port 1: 5 cm below Rock/Water Interface Port 2: Rock/Water Interface Port 3: 30 cm above Rock Water Interface	**Fluoride Iron Lead**			**Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)**
		DRAWN CT	DATE May-16	**Agnico Eagle Mines Limited Meadowbank Division**	Golder Associates
		CHECKED JMC	JOB NO 1520817		
		REVIEWED VJB	PHASE/TASK 3000	**APPENDIX FIGURE**	F-2.7



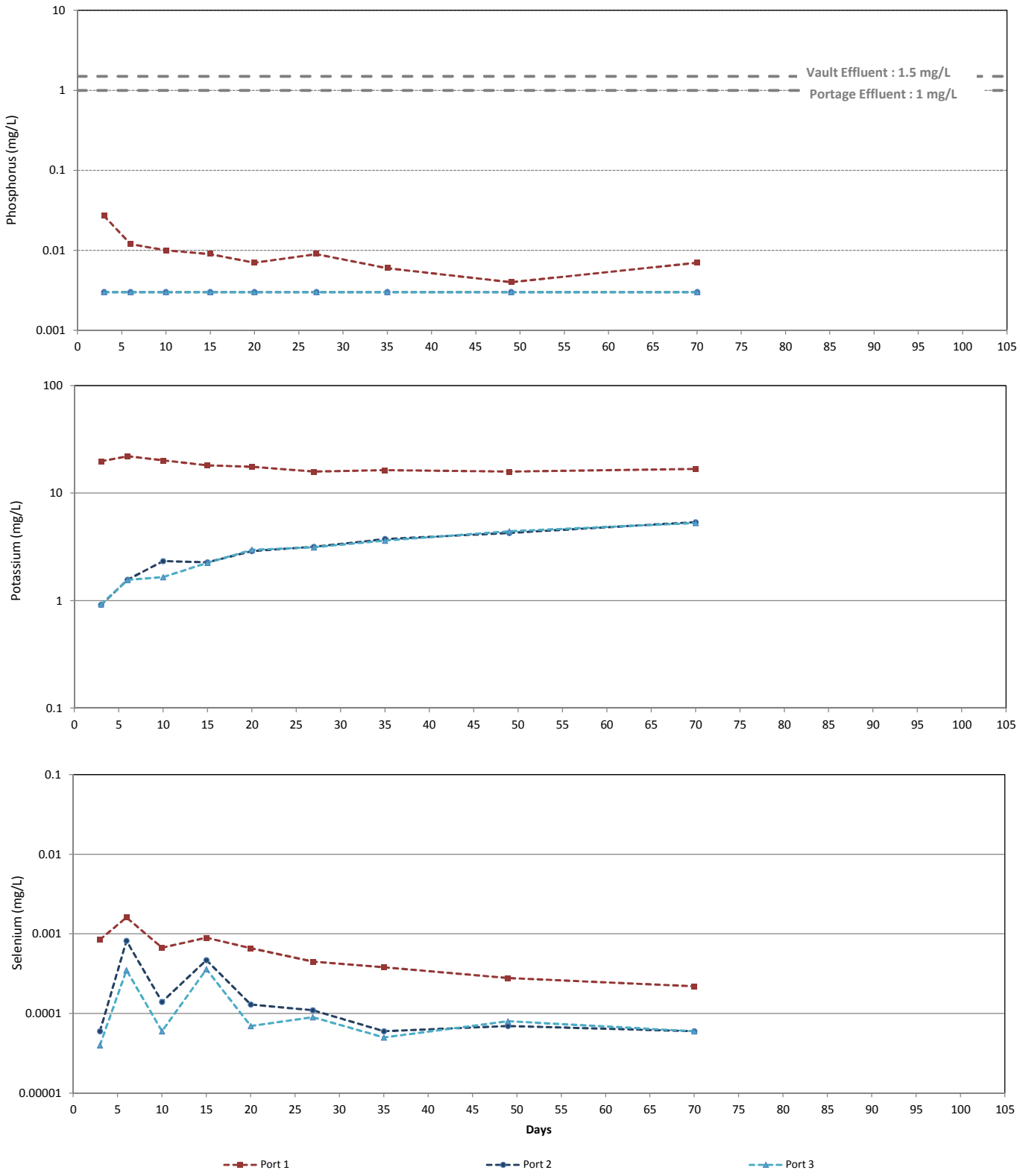
Notes: Portage NWB Effluent Limit (NWB, 2015) (NWB, 2015) Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015) Values < MDL are plotted as MDL value	Rock Type: Port 1: 5 cm below Rock/Water Interface Port 2: Rock/Water Interface Port 3: 30 cm above Rock Water Interface	**Lithium Magnesium Manganese**			**Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)**
		DRAWN CT	DATE May-16	**Agnico Eagle Mines Limited Meadowbank Division**	Golder Associates
		CHECKED JMC	JOB NO 1520817		
		REVIEWED VJB	PHASE/TASK 3000	**APPENDIX FIGURE**	F-2.8

\\golder.gds\gal\Ottawa\Active\2015\3 Proj\1520817 Amaruq Geochemistry Baseline\report\Phase 3\Rev B\Appendix F - Kinetic Test Results\F2 Submerged Col\
Whale Tail_SubCol_Fig_Tbl.xlsx



Notes: Portage NWB Effluent Limit (NWB, 2015) (NWB, 2015) Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015) Values < MDL are plotted as MDL value	Rock Type: Port 1: 5 cm below Rock/Water Interface Port 2: Rock/Water Interface Port 3: 30 cm above Rock Water Interface	**Mercury Molybdenum Nickel**			**Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)**
		DRAWN CT	DATE May-16	**Agnico Eagle Mines Limited Meadowbank Division**	Golder Associates
		CHECKED JMC	JOB NO 1520817		
		REVIEWED VJB	PHASE/TASK 3000	**APPENDIX FIGURE**	F-2.9

\\golder.gds\gal\Ottawa\Active\2015\3 Proj\1520817 Amaruq Geochemistry Baseline\report\Phase 3\Rev B\Appendix F - Kinetic Test Results\F2 Submerged Col\
Whale Tail_SubCol_Fig_Tbl.xlsx



Notes:

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Port 1: 5 cm below Rock/Water Interface

Port 2: Rock/Water Interface

Port 3: 30 cm above Rock Water Interface

Phosphorus
Potassium
Selenium

Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)

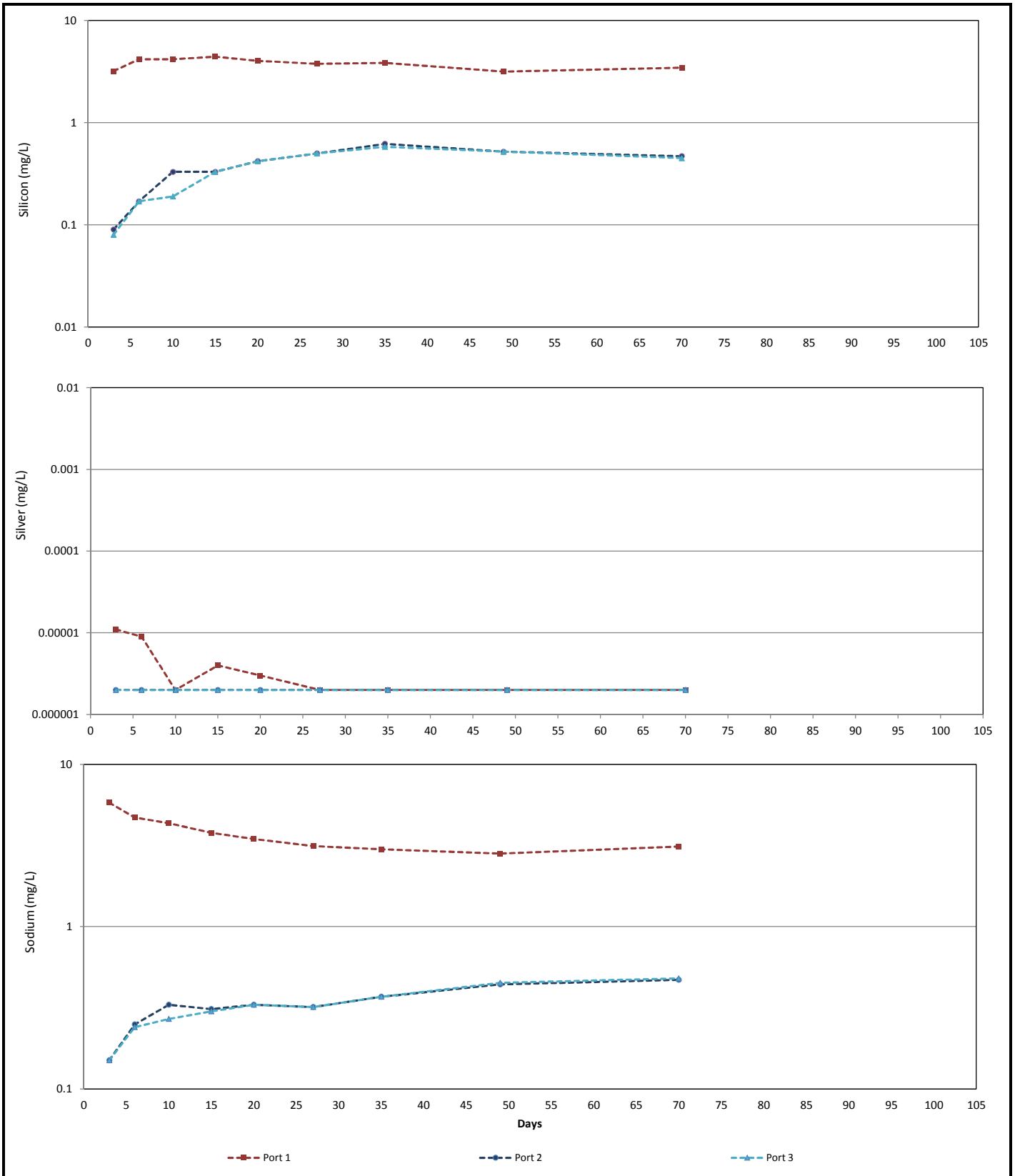
DRAWN	CT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

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Meadowbank Division

Golder Associates

APPENDIX FIGURE F-2.10

\\golder.gds\gal\Ottawa\Active\2015\3 Proj\1520817 Amaruq Geochemistry Baseline\report\Phase 3\Rev B\Appendix F - Kinetic Test Results\F2 Submerged Col\
Whale Tail_SubCol_Fig_Tbl.xlsx



Notes:

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Port 1: 5 cm below Rock/Water Interface

Port 2: Rock/Water Interface

Port 3: 30 cm above Rock Water Interface

Silicon
Silver
Sodium

DRAWN	CT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

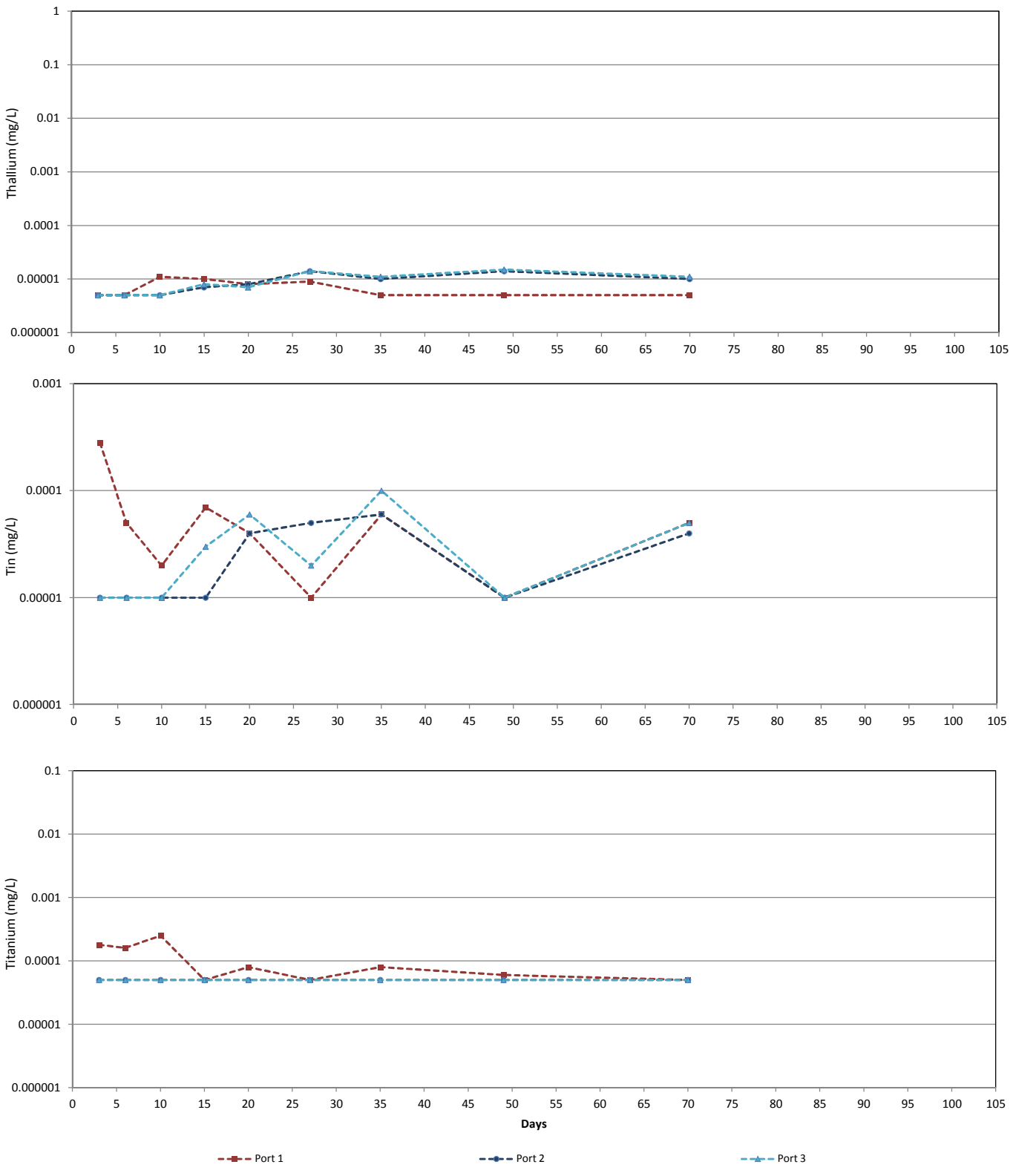
Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)

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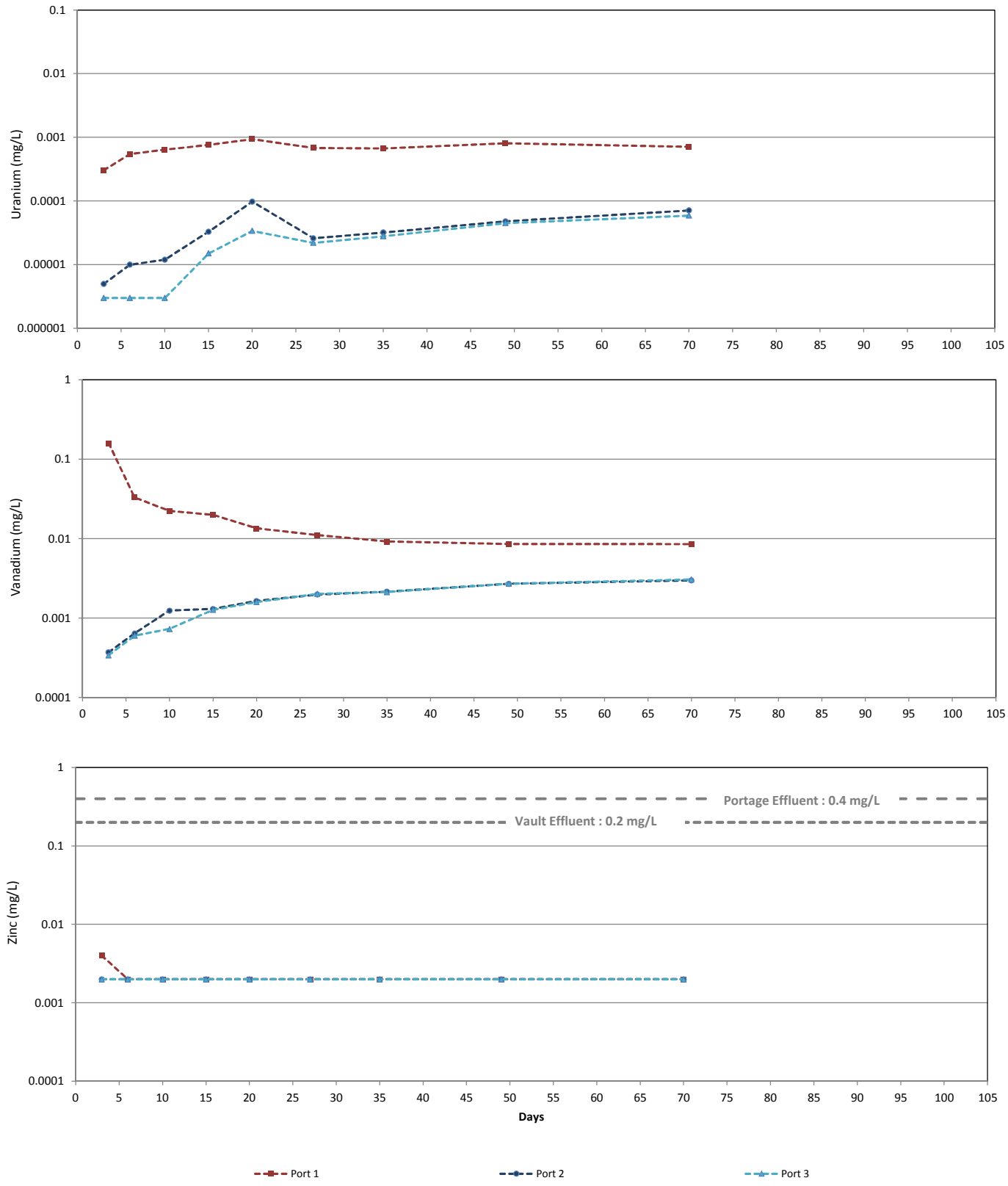
APPENDIX FIGURE F-2.11

\\golder.gds\gal\Ottawa\Active\2015\3 Proj\1520817 Amaruq Geochemistry Baseline\report\Phase 3\Rev B\Appendix F - Kinetic Test Results\F2 Submerged Col\
Whale Tail_SubCol_Fig_Tbl.xlsx



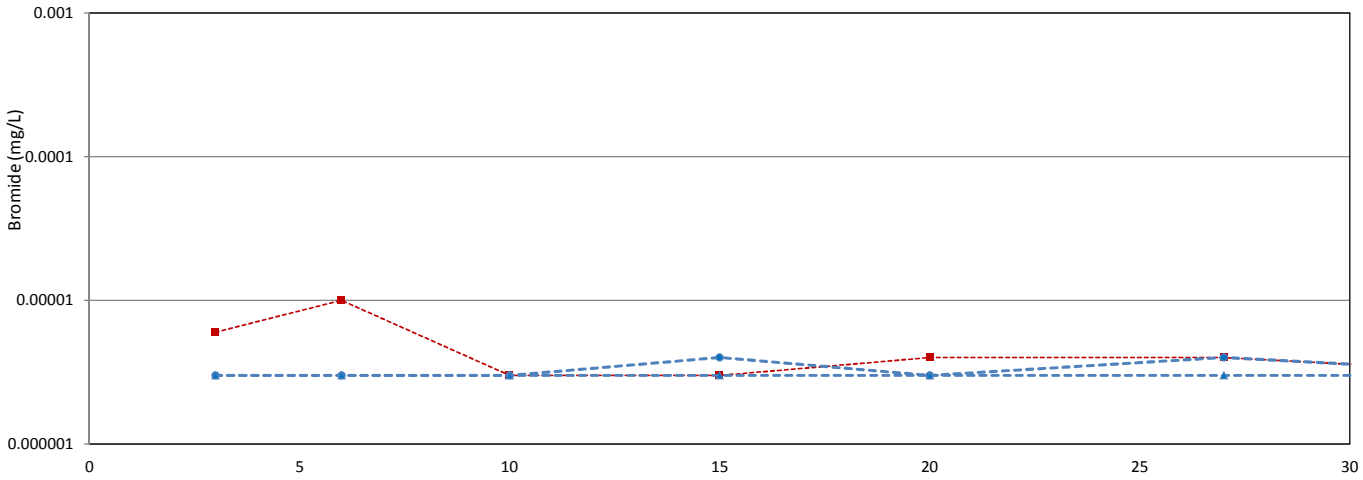
Notes:	Rock Type:	Thallium Tin Titanium			Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)	
Portage NWB Effluent Limit (NWB, 2015)	Port 1: 5 cm below Rock/Water Interface					
Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015)	Port 2: Rock/Water Interface	DRAWN CT	DATE May-16		Agnico Eagle Mines Limited Meadowbank Division	Golder Associates
Values < MDL are plotted as MDL value	Port 3: 30 cm above Rock Water Interface	CHECKED JMC	JOB NO 1520817			
		REVIEWED VJB	PHASE/TASK 3000		APPENDIX FIGURE	F-2.12

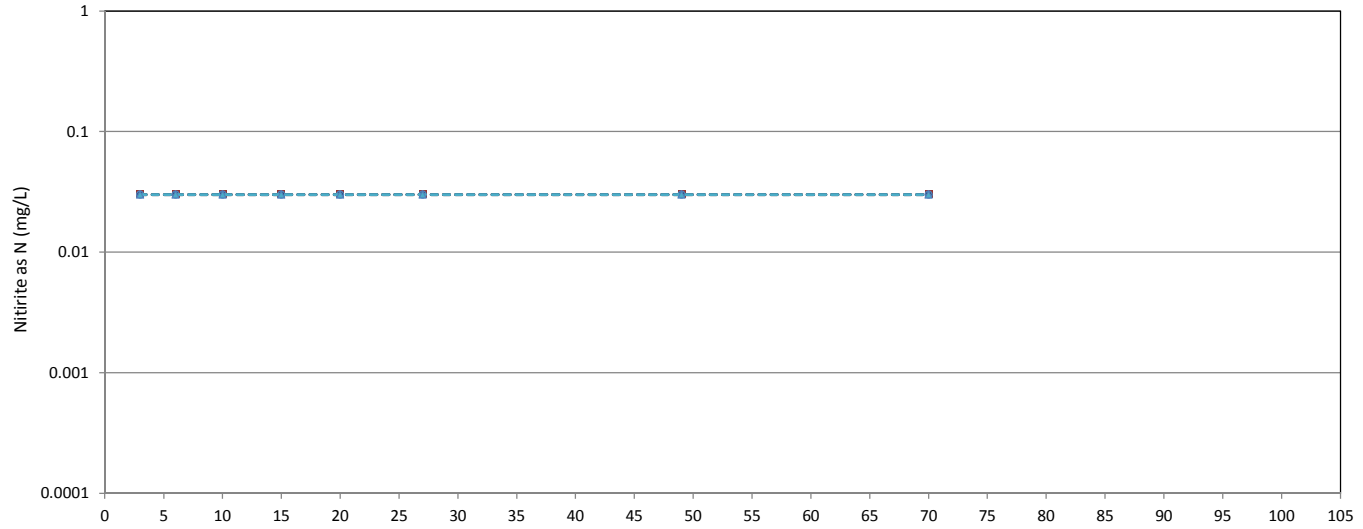
\\golder.gds\gal\Ottawa\Active\2015\3 Proj\1520817 Amaruq Geochemistry Baseline\report\Phase 3\Rev B\Appendix F - Kinetic Test Results\F2 Submerged Col\
Whale Tail_SubCol_Fig_Tbl.xlsx

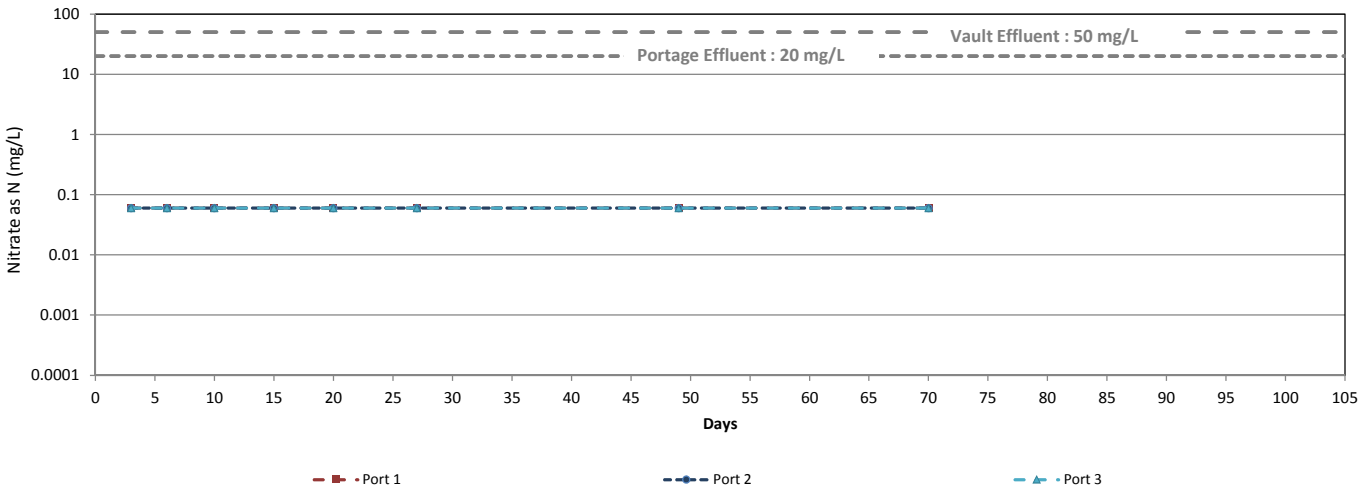


Notes:	Rock Type:	Uranium Vanadium Zinc			Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)
Portage NWB Effluent Limit (NWB, 2015) (NWB, 2015)	Port 1: 5 cm below Rock/Water Interface	DRAWN CT	DATE May-16	Agnico Eagle Mines Limited Meadowbank Division	Golder Associates
Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015)	Port 2: Rock/Water Interface	CHECKED JMC	JOB NO 1520817		
Values < MDL are plotted as MDL value	Port 3: 30 cm above Rock Water Interface	REVIEWED VJB	PHASE/TASK 3000	APPENDIX FIGURE	F-2.13

\\golder.gds\gal\Ottawa\Active\2015\3 Proj\1520817 Amaruq Geochemistry Baseline\report\Phase 3\Rev B\Appendix F - Kinetic Test Results\F2 Submerged Col\
Whale Tail_SubCol_Fig_Tbl.xlsx







Notes:

Portage NWB Effluent Limit (NWB, 2015)

Vault NWB Effluent Limit (NWB, 2015)

Values < MDL are plotted as MDL value

Rock Type:

Port 1: 5 cm below Rock/Water Interface

Port 2: Rock/Water Interface

Port 3: 30 cm above Rock Water Interface

Bromide
Nitrite (as N)
Nitrate (as N)

Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)

DRAWN	CT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

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Meadowbank Division

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APPENDIX FIGURE F-2.14

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APPENDIX G

Laboratory Certificates of Analysis – Static

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

09-February-2015

Agnico Eagle Mines Limited
Attn : Serge Ouellet

10200, route de Pressac
Rouyn-Noranda, Quebec
J0Y 1C0,

Phone: (819) 759-3700 x5820
Fax:(819) 759-3663

Date Rec. : 26 January 2015
LR Report: **CA12407-JAN15**
Reference: PO pending

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-01	6: AMQ-ENV-02	7: AMQ-ENV-03	8: AMQ-ENV-07	9: AMQ-ENV-08	10: AMQ-ENV-09	11: AMQ-ENV-10	12: AMQ-ENV-11	13: AMQ-ENV-12	14: AMQ-ENV-13
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Fluoride [µg/g]	05-Feb-15	16:27	130	138	211	2010	1330	175	110	199	200	199
Mercury [µg/g]	04-Feb-15	15:44	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aluminum [µg/g]	06-Feb-15	08:37	27000	18000	17000	27000	27000	28000	25000	16000	16000	18000
Silver [µg/g]	05-Feb-15	12:55	0.10	0.06	0.10	0.20	0.17	0.08	0.05	0.31	0.14	0.12
Arsenic [µg/g]	05-Feb-15	12:55	140	160	14	24	8.0	2.8	89	32	14	29
Boron [µg/g]	05-Feb-15	12:55	< 1	< 1	4	30	1	37	3	6	3	7
Barium [µg/g]	05-Feb-15	12:55	340	97	78	2500	1900	590	270	120	86	89
Beryllium [µg/g]	05-Feb-15	12:55	0.74	0.70	0.32	3.5	1.5	0.80	0.74	0.43	0.22	0.39
Bismuth [µg/g]	05-Feb-15	12:55	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	0.38	0.24	0.15
Calcium [µg/g]	05-Feb-15	15:57	42000	38000	3100	39000	20000	15000	32000	7500	6100	3500
Cadmium [µg/g]	05-Feb-15	12:55	0.12	0.10	0.06	0.13	0.10	0.06	0.07	0.22	0.09	0.10
Cobalt [µg/g]	05-Feb-15	12:55	37	42	11	26	25	29	37	11	11	13
Chromium [µg/g]	05-Feb-15	12:55	710	750	32	320	500	900	980	30	28	27
Copper [µg/g]	05-Feb-15	12:55	26	22	21	41	38	110	16	24	21	17
Iron [µg/g]	05-Feb-15	15:57	46000	30000	34000	47000	39000	40000	43000	28000	26000	37000
Potassium [µg/g]	05-Feb-15	15:57	18000	5000	5500	25000	24000	24000	15000	11000	5400	7800
Lithium [µg/g]	05-Feb-15	12:55	17	13	17	110	60	44	21	17	11	23
Magnesium [µg/g]	05-Feb-15	15:57	54000	37000	8900	42000	37000	45000	55000	8000	9100	10000
Manganese [µg/g]	05-Feb-15	12:56	870	760	510	860	480	550	820	430	450	550
Molybdenum [µg/g]	05-Feb-15	12:56	0.7	0.6	1.6	0.3	0.4	0.8	0.5	2.8	2.4	2.6

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LR Report : **CA12407-JAN15**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-01	6: AMQ-ENV-02	7: AMQ-ENV-03	8: AMQ-ENV-07	9: AMQ-ENV-08	10: AMQ-ENV-09	11: AMQ-ENV-10	12: AMQ-ENV-11	13: AMQ-ENV-12	14: AMQ-ENV-13
Sodium [µg/g]	05-Feb-15	15:57	100	37	520	230	340	180	83	580	630	410
Nickel [µg/g]	05-Feb-15	12:56	270	270	26	220	190	260	310	28	26	27
Phosphorus [µg/g]	05-Feb-15	15:57	800	730	760	8400	5000	950	720	640	650	700
Lead [µg/g]	05-Feb-15	12:56	16	4.5	5.0	7.8	22	2.0	3.2	29	12	10
Antimony [µg/g]	05-Feb-15	12:56	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	05-Feb-15	12:56	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silicon [µg/g]	05-Feb-15	15:57	9200	6900	9200	7700	12000	10000	10000	10000	8500	7600
Tin [µg/g]	05-Feb-15	12:56	0.7	< 0.5	< 0.5	1.2	0.6	0.7	0.6	< 0.5	< 0.5	< 0.5
Strontium [µg/g]	05-Feb-15	12:56	240	270	12	710	430	78	150	25	28	16
Titanium [µg/g]	05-Feb-15	12:56	1600	600	650	3500	2800	2200	1500	970	570	740
Thallium [µg/g]	05-Feb-15	12:56	0.68	0.27	0.43	0.87	0.64	0.69	0.59	0.66	0.40	0.40
Uranium [µg/g]	05-Feb-15	12:56	0.62	0.42	2.3	1.3	0.95	0.81	0.54	2.6	2.8	2.5
Vanadium [µg/g]	05-Feb-15	12:56	69	48	27	89	69	79	60	26	20	27
Zinc [µg/g]	05-Feb-15	12:56	44	26	55	63	56	44	37	60	60	56

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Date Rec. : 26 January 2015
LR Report: **CA12407-JAN15**
Reference: PO pending

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	15: AMQ-ENV-14	16: AMQ-ENV-16	17: AMQ-ENV-17	18: AMQ-ENV-18	19: AMQ-ENV-19	20: AMQ-ENV-20	21: AMQ-ENV-28	22: AMQ-ENV-29	23: AMQ-ENV-31	24: AMQ-ENV-32	25: AMQ-ENV-33
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Fluoride [µg/g]	198	18	23	196	200	227	164	116	130	11	13
Mercury [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aluminum [µg/g]	19000	13000	18000	18000	19000	21000	20000	8700	25000	15000	15000
Silver [µg/g]	0.15	0.12	0.10	0.14	0.16	0.11	0.18	0.36	0.13	0.08	0.28
Arsenic [µg/g]	22	380	150	33	26	33	90	97	1500	440	190
Boron [µg/g]	6	1	< 1	3	16	4	6	3	5	1	1
Barium [µg/g]	110	6.2	22	96	90	120	76	28	120	11	11
Beryllium [µg/g]	0.30	0.09	0.08	0.38	0.31	0.18	0.47	0.48	0.20	0.09	0.06
Bismuth [µg/g]	0.19	< 0.09	< 0.09	0.20	0.24	0.14	0.16	0.18	< 0.09	< 0.09	< 0.09
Calcium [µg/g]	3000	30000	9500	4700	5100	6200	2300	6300	7600	32000	29000
Cadmium [µg/g]	0.07	0.04	0.05	0.10	0.71	0.11	0.08	0.03	0.06	0.06	0.04
Cobalt [µg/g]	13	69	61	13	14	14	9.9	4.1	97	67	54
Chromium [µg/g]	31	680	950	34	33	38	25	7.1	1600	720	840
Copper [µg/g]	29	13	74	32	32	32	21	7.5	23	24	51
Iron [µg/g]	34000	21000	28000	33000	32000	33000	46000	65000	49000	25000	30000
Potassium [µg/g]	8000	640	2500	8800	6800	12000	7800	4900	12000	1300	1100
Lithium [µg/g]	22	4	8	16	25	18	19	6	28	8	6
Magnesium [µg/g]	9800	34000	32000	9300	11000	11000	10000	5000	32000	39000	37000
Manganese [µg/g]	480	610	450	480	470	570	760	1200	1200	750	620
Molybdenum [µg/g]	2.4	0.1	0.1	2.6	2.5	2.4	2.6	1.1	0.4	< 0.1	< 0.1

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LR Report : **CA12407-JAN15**

Analysis	15: AMQ-ENV-14	16: AMQ-ENV-16	17: AMQ-ENV-17	18: AMQ-ENV-18	19: AMQ-ENV-19	20: AMQ-ENV-20	21: AMQ-ENV-28	22: AMQ-ENV-29	23: AMQ-ENV-31	24: AMQ-ENV-32	25: AMQ-ENV-33
Sodium [µg/g]	600	33	110	540	710	820	560	170	140	28	38
Nickel [µg/g]	29	410	390	32	33	32	22	28	1400	410	320
Phosphorus [µg/g]	610	120	100	640	650	670	640	360	110	110	100
Lead [µg/g]	13	0.87	0.73	12	15	9.2	9.0	5.1	0.51	0.77	3.0
Antimony [µg/g]	< 0.8	3.1	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	1.3	15	1.3	1.0
Selenium [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silicon [µg/g]	10000	6400	7700	9900	12000	11000	9200	14000	10000	7300	9300
Tin [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Strontium [µg/g]	16	64	21	16	18	22	8.6	8.7	11	71	99
Titanium [µg/g]	860	87	280	930	710	1100	890	270	1200	140	130
Thallium [µg/g]	0.50	0.02	0.10	0.53	0.36	0.63	0.66	0.18	0.28	0.03	0.04
Uranium [µg/g]	2.3	0.022	0.014	2.3	2.3	2.0	2.8	0.38	0.036	0.003	0.004
Vanadium [µg/g]	32	39	56	27	27	38	29	9	71	49	54
Zinc [µg/g]	61	18	24	66	80	75	54	17	47	18	17

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09-February-2015

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Date Rec. : 26 January 2015
LR Report: **CA12407-JAN15**
Reference: PO pending

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	26: AMQ-ENV-34	27: AMQ-ENV-36	28: AMQ-ENV-37	29: AMQ-ENV-39	30: AMQ-ENV-40	31: AMQ-ENV-41	32: AMQ-ENV-42	33: AMQ-ENV-43	34: AMQ-ENV-44	35: AMQ-ENV-46	36: AMQ-ENV-109
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Fluoride [µg/g]	282	201	167	8	145	209	202	17	58	198	167
Mercury [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aluminum [µg/g]	11000	12000	16000	13000	12000	21000	17000	12000	20000	14000	16000
Silver [µg/g]	0.29	0.50	0.20	0.11	0.23	0.39	0.14	0.10	0.14	0.15	0.17
Arsenic [µg/g]	180	810	33	350	280	25	42	820	180	65	22
Boron [µg/g]	9	16	6	< 1	5	8	3	1	3	3	14
Barium [µg/g]	41	76	77	4.9	49	140	87	30	24	120	77
Beryllium [µg/g]	0.89	0.48	0.32	0.05	0.34	0.34	0.22	0.18	0.13	0.43	0.20
Bismuth [µg/g]	0.30	0.37	0.26	< 0.09	0.22	0.75	0.25	< 0.09	< 0.09	0.15	0.29
Calcium [µg/g]	7600	6900	8800	35000	4800	4900	7300	67000	25000	5600	3000
Cadmium [µg/g]	0.28	0.21	0.10	0.07	0.04	0.14	0.16	0.17	0.07	0.25	0.10
Cobalt [µg/g]	6.0	7.5	11	57	7.3	10	13	73	45	11	13
Chromium [µg/g]	17	13	22	650	15	27	27	690	960	35	25
Copper [µg/g]	15	30	15	34	20	22	33	6.9	24	20	32
Iron [µg/g]	66000	48000	28000	24000	57000	31000	31000	34000	36000	22000	26000
Potassium [µg/g]	9200	6000	5400	520	5700	14000	7500	3600	3900	7200	4200
Lithium [µg/g]	11	15	14	5	8	26	15	9	14	16	21
Magnesium [µg/g]	7300	5800	8800	40000	6000	11000	8300	53000	39000	7600	8900
Manganese [µg/g]	640	620	510	670	1100	500	430	1660	860	400	460
Molybdenum [µg/g]	2.5	1.2	2.3	0.1	1.3	2.6	2.1	0.3	0.1	2.4	2.5

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LR Report : **CA12407-JAN15**

Analysis	26: AMQ-ENV-34	27: AMQ-ENV-36	28: AMQ-ENV-37	29: AMQ-ENV-39	30: AMQ-ENV-40	31: AMQ-ENV-41	32: AMQ-ENV-42	33: AMQ-ENV-43	34: AMQ-ENV-44	35: AMQ-ENV-46	36: AMQ-ENV-109
Sodium [µg/g]	110	470	610	41	170	560	680	110	69	670	540
Nickel [µg/g]	20	18	24	340	20	25	25	650	400	26	30
Phosphorus [µg/g]	480	540	590	120	380	620	540	170	110	430	640
Lead [µg/g]	5.5	11	17	1.0	3.6	38	13	4.2	1.0	12	14
Antimony [µg/g]	0.8	0.9	< 0.8	0.9	0.8	< 0.8	< 0.8	1.1	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	< 0.7	0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silicon [µg/g]	7900	10000	10000	5800	11000	11000	8700	7800	7600	8200	7700
Tin [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Strontium [µg/g]	13	14	24	66	7.9	18	33	140	47	15	14
Titanium [µg/g]	450	390	530	68	360	1200	820	420	440	910	510
Thallium [µg/g]	0.39	0.34	0.33	< 0.02	0.24	0.77	0.53	0.14	0.14	0.41	0.29
Uranium [µg/g]	1.0	4.2	3.2	0.028	0.61	3.3	2.6	0.027	0.010	3.3	2.2
Vanadium [µg/g]	14	9	22	36	11	28	29	38	62	23	19
Zinc [µg/g]	51	62	53	15	36	57	63	24	28	70	65

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Date Rec. : 26 January 2015
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Reference: PO pending

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	37: AMQ-ENV-112	38: AMQ-ENV-113	39: AMQ-ENV-114	40: AMQ-ENV-115	41: AMQ-ENV-116	42: AMQ-ENV-117	43: AMQ-ENV-118	44: AMQ-ENV-119	45: AMQ-ENV-120	46: AMQ-ENV-121	47: AMQ-ENV-122	48: AMQ-ENV-125
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Fluoride [µg/g]	278	184	304	177	273	213	218	208	307	136	223	96
Mercury [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aluminum [µg/g]	27000	33000	30000	24000	34000	20000	32000	28000	29000	23000	29000	27000
Silver [µg/g]	0.16	0.09	0.06	0.16	0.05	0.13	0.08	0.11	0.09	0.09	0.11	0.05
Arsenic [µg/g]	6.9	0.9	8.7	25	13	11	21	40	2.6	94	11	510
Boron [µg/g]	4	2	5	3	< 1	5	1	1	1	1	3	1
Barium [µg/g]	200	490	280	89	520	160	610	540	390	310	460	160
Beryllium [µg/g]	0.59	0.64	0.52	0.29	0.39	0.38	0.74	0.40	0.57	0.45	0.35	0.40
Bismuth [µg/g]	0.30	< 0.09	< 0.09	0.17	< 0.09	0.17	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Calcium [µg/g]	7100	17000	6200	7500	17000	14000	21000	24000	12000	13000	12000	12000
Cadmium [µg/g]	0.08	0.08	0.06	0.16	0.06	0.09	0.06	0.07	0.05	0.03	0.09	0.06
Cobalt [µg/g]	19	24	15	16	29	14	31	32	24	40	23	60
Chromium [µg/g]	310	560	67	81	720	140	550	820	400	910	250	1000
Copper [µg/g]	42	40	19	30	30	30	39	40	51	20	66	36
Iron [µg/g]	40000	47000	55000	42000	55000	29000	51000	43000	45000	36000	54000	38000
Potassium [µg/g]	15000	20000	19000	5800	17000	11000	22000	15000	21000	19000	13000	12000
Lithium [µg/g]	35	26	47	23	23	26	25	19	24	31	21	27
Magnesium [µg/g]	28000	35000	17000	16000	41000	16000	40000	39000	28000	42000	25000	47000
Manganese [µg/g]	620	540	630	480	550	450	680	570	600	500	490	490
Molybdenum [µg/g]	1.0	0.6	1.5	1.2	0.3	1.1	0.5	0.3	0.6	0.7	0.9	0.3

OnLine LIMS

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LR Report : **CA12407-JAN15**

Analysis	37: AMQ-ENV-112	38: AMQ-ENV-113	39: AMQ-ENV-114	40: AMQ-ENV-115	41: AMQ-ENV-116	42: AMQ-ENV-117	43: AMQ-ENV-118	44: AMQ-ENV-119	45: AMQ-ENV-120	46: AMQ-ENV-121	47: AMQ-ENV-122	48: AMQ-ENV-125
Sodium [µg/g]	440	500	630	560	470	500	330	260	440	220	1000	84
Nickel [µg/g]	110	140	25	50	180	62	190	190	110	330	87	480
Phosphorus [µg/g]	1200	910	1400	590	970	670	970	960	1400	860	640	220
Lead [µg/g]	17	8.1	6.6	37	5.9	15	3.9	7.3	8.9	6.3	6.2	2.8
Antimony [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	1.3
Selenium [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silicon [µg/g]	9600	11000	9300	8100	13000	9000	11000	12000	10000	11000	12000	7800
Tin [µg/g]	0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Strontium [µg/g]	22	67	20	24	120	34	200	280	55	130	47	92
Titanium [µg/g]	1300	1800	2100	950	1800	1000	2300	1900	1800	1900	1700	990
Thallium [µg/g]	0.49	0.46	0.79	0.28	0.35	0.45	0.68	0.33	0.58	0.66	0.32	0.37
Uranium [µg/g]	2.4	1.5	2.5	2.7	0.36	2.3	1.0	0.70	0.79	0.88	1.1	0.14
Vanadium [µg/g]	50	74	62	42	100	38	78	81	73	64	89	79
Zinc [µg/g]	55	54	87	76	65	49	61	48	59	36	64	36

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19-February-2015

Agnico Eagle Mines Limited
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Phone: (819) 759-3700 x5820
Fax:(819) 759-3663

Date Rec. : 26 January 2015
LR Report: **CA12408-JAN15**
Reference: PO pending

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CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Paste pH	Fizz Rate ---	Sample weight g	HCl added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH
3: Analysis Approval Date	06-Feb-15	06-Feb-15	06-Feb-15	06-Feb-15	06-Feb-15	06-Feb-15	06-Feb-15	06-Feb-15
4: Analysis Approval Time	14:07	14:07	14:07	14:07	14:07	14:07	14:07	14:07
5: AMQ-ENV-01	9.73	3	2.05	86.20	0.10	0.10	18.72	1.87
6: AMQ-ENV-02	9.72	3	2.10	81.50	0.10	0.10	20.73	1.65
7: AMQ-ENV-03	9.26	1	2.04	20.00	0.10	0.10	7.93	2.37
8: AMQ-ENV-07	8.83	3	1.98	52.40	0.10	0.10	16.57	1.74
9: AMQ-ENV-08	9.81	2	1.96	31.40	0.10	0.10	8.01	2.25
10: AMQ-ENV-09	9.91	3	2.13	40.00	0.10	0.10	7.69	2.33
11: AMQ-ENV-10	9.55	1	1.99	53.70	0.10	0.10	2.51	2.62
12: AMQ-ENV-11	10.00	2	2.12	20.00	0.10	0.10	5.00	2.72
13: AMQ-ENV-12	9.78	1	1.99	20.00	0.10	0.10	5.13	2.50
14: AMQ-ENV-13	9.23	1	2.03	20.00	0.10	0.10	6.79	2.43
15: AMQ-ENV-14	9.63	1	1.99	20.00	0.10	0.10	8.77	2.25
16: AMQ-ENV-16	9.65	3	2.06	59.10	0.10	0.10	10.97	2.04
17: AMQ-ENV-17	9.64	2	2.08	34.00	0.10	0.10	10.79	1.99
18: AMQ-ENV-18	9.78	1	2.13	20.00	0.10	0.10	6.15	2.56
19: AMQ-ENV-19	9.72	1	2.01	20.00	0.10	0.10	3.10	2.84
20: AMQ-ENV-20	9.98	1	2.00	20.00	0.10	0.10	5.65	2.69
21: AMQ-ENV-28	8.30	1	2.08	20.00	0.10	0.10	7.76	2.35
22: AMQ-ENV-29	8.51	1	2.04	20.00	0.10	0.10	6.15	2.34
23: AMQ-ENV-31	9.40	3	1.98	47.30	0.10	0.10	22.60	1.84
24: AMQ-ENV-32	9.59	3	1.99	64.80	0.10	0.10	12.63	1.84

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ABA - Modified Sobek With Siderite Corrected NP

LR Report : **CA12408-JAN15**

Sample ID	Paste pH	Fizz Rate ---	Sample weight g	HCl added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH
25: AMQ-ENV-33	9.63	3	2.07	56.30	0.10	0.10	10.90	2.07
26: AMQ-ENV-34	9.43	1	1.99	26.20	0.10	0.10	7.87	2.17
27: AMQ-ENV-36	9.15	1	2.06	24.80	0.10	0.10	6.08	2.54
28: AMQ-ENV-37	9.53	2	2.09	28.20	0.10	0.10	10.74	2.17
29: AMQ-ENV-39	9.68	3	2.08	62.10	0.10	0.10	5.66	2.20
30: AMQ-ENV-40	9.29	1	1.98	20.00	0.10	0.10	8.07	2.30
31: AMQ-ENV-41	10.01	1	2.08	20.00	0.10	0.10	3.75	2.75
32: AMQ-ENV-42	9.87	1	2.19	20.00	0.10	0.10	3.94	2.75
33: AMQ-ENV-43	9.44	3	1.96	149.30	0.10	0.10	29.81	1.91
34: AMQ-ENV-44	9.68	3	1.96	56.70	0.10	0.10	13.83	1.95
35: AMQ-ENV-46	9.87	1	2.06	20.00	0.10	0.10	7.27	2.58
36: AMQ-ENV-109	9.53	2	2.04	20.00	0.10	0.10	9.00	2.33
37: AMQ-ENV-112	9.56	1	2.04	20.00	0.10	0.10	4.49	2.80
38: AMQ-ENV-113	9.96	1	1.91	35.00	0.10	0.10	8.34	2.49
39: AMQ-ENV-114	9.96	1	2.03	24.20	0.10	0.10	5.90	2.55
40: AMQ-ENV-115	9.57	1	2.00	24.40	0.10	0.10	7.07	2.40
41: AMQ-ENV-116	9.89	3	2.02	36.50	0.10	0.10	9.45	2.15
42: AMQ-ENV-117	9.87	3	1.98	32.20	0.10	0.10	8.33	2.30
43: AMQ-ENV-118	9.99	3	2.12	49.30	0.10	0.10	14.23	2.03
44: AMQ-ENV-119	9.86	3	2.03	56.10	0.10	0.10	19.16	1.80
45: AMQ-ENV-120	9.96	3	2.09	32.20	0.10	0.10	9.56	2.33
46: AMQ-ENV-121	10.06	3	1.99	44.00	0.10	0.10	12.35	2.18
47: AMQ-ENV-122	9.60	2	2.04	36.80	0.10	0.10	14.89	2.07
48: AMQ-ENV-125	9.84	1	1.96	25.00	0.10	0.10	4.12	2.57

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19-February-2015

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Date Rec. : 26 January 2015
LR Report: **CA12408-JAN15**
Reference: PO pending

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CERTIFICATE OF ANALYSIS
Final Report

Sample ID	NP t CaCO3/1000 t	AP t CaCO3/1000 t	Net NP t CaCO3/1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate %	C(g) %
3: Analysis Approval Date	06-Feb-15	---	---	---	04-Feb-15	---	04-Feb-15	05-Feb-15	05-Feb-15	---
4: Analysis Approval Time	14:07	---	---	---	14:36	---	14:36	15:46	15:46	Feb05/15
5: AMQ-ENV-01	149	0.31	149	481	< 0.005	< 0.01	< 0.01	1.90	9.47	< 0.01
6: AMQ-ENV-02	127	0.31	127	410	< 0.005	< 0.01	< 0.01	1.51	7.52	< 0.01
7: AMQ-ENV-03	21	6.88	14.1	3.05	0.268	0.05	0.22	0.056	0.265	< 0.01
8: AMQ-ENV-07	76	0.31	75.7	243	0.039	0.03	0.01	0.567	2.82	< 0.01
9: AMQ-ENV-08	51	0.62	50.4	81.6	0.056	0.04	0.02	0.205	1.00	< 0.01
10: AMQ-ENV-09	70	0.62	69.4	112	0.044	0.02	0.02	0.533	2.64	< 0.01
11: AMQ-ENV-10	126	0.31	126	406	< 0.005	< 0.01	< 0.01	1.64	8.19	< 0.01
12: AMQ-ENV-11	30	2.81	27.2	10.7	0.283	0.19	0.09	0.155	0.749	0.01
13: AMQ-ENV-12	32	0.31	31.7	103	0.076	0.08	< 0.01	0.114	0.525	0.01
14: AMQ-ENV-13	25	2.50	22.5	10.0	0.113	0.03	0.08	0.077	0.365	< 0.01
15: AMQ-ENV-14	19	3.12	15.9	6.08	0.157	0.06	0.10	0.044	0.165	0.02
16: AMQ-ENV-16	108	0.31	108	348	0.022	0.02	< 0.01	1.29	6.43	< 0.01
17: AMQ-ENV-17	45	0.31	44.7	145	0.028	0.03	< 0.01	0.262	1.28	< 0.01
18: AMQ-ENV-18	26	5.94	20.1	4.38	0.307	0.12	0.19	0.086	0.390	0.01
19: AMQ-ENV-19	39	2.50	36.5	15.6	0.155	0.08	0.08	0.079	0.365	< 0.01
20: AMQ-ENV-20	30	1.56	28.4	19.2	0.154	0.10	0.05	0.103	0.460	0.01
21: AMQ-ENV-28	21	15.3	5.69	1.37	0.559	0.07	0.49	0.045	0.170	0.01
22: AMQ-ENV-29	27	93.4	-66.44	0.29	3.07	0.08	2.99	0.701	1.15	0.48
23: AMQ-ENV-31	42	4.38	37.6	9.60	0.184	0.04	0.14	0.285	1.40	< 0.01
24: AMQ-ENV-32	120	0.31	120	387	0.028	0.03	< 0.01	1.53	7.61	< 0.01

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ABA - Modified Sobek With Siderite Corrected NP

LR Report : **CA12408-JAN15**

Sample ID	NP t CaCO3/1000 t	AP t CaCO3/1000 t	Net NP t CaCO3/1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate %	C(g) %
25: AMQ-ENV-33	100	0.31	99.7	323	0.017	0.02	< 0.01	1.11	5.53	< 0.01
26: AMQ-ENV-34	38	62.8	-24.81	0.60	2.25	0.24	2.01	1.32	1.58	0.96
27: AMQ-ENV-36	39	61.6	-22.56	0.63	2.19	0.22	1.97	0.293	1.30	0.03
28: AMQ-ENV-37	31	3.12	27.9	9.92	0.156	0.06	0.10	0.217	1.05	0.02
29: AMQ-ENV-39	131	0.31	131	423	0.035	0.04	< 0.01	1.78	8.88	< 0.01
30: AMQ-ENV-40	21	35.6	-14.62	0.59	1.32	0.18	1.14	0.292	0.934	0.12
31: AMQ-ENV-41	35	0.31	34.7	113	0.019	0.02	< 0.01	0.080	0.370	0.01
32: AMQ-ENV-42	33	2.19	30.8	15.1	0.201	0.13	0.07	0.144	0.679	0.02
33: AMQ-ENV-43	278	0.31	278	897	0.033	0.03	< 0.01	3.75	18.7	0.01
34: AMQ-ENV-44	97	0.31	96.7	313	0.020	0.02	< 0.01	1.03	5.12	< 0.01
35: AMQ-ENV-46	23	2.19	20.8	10.5	0.138	0.07	0.07	0.119	0.570	< 0.01
36: AMQ-ENV-109	17	1.56	15.4	10.9	0.089	0.04	0.05	0.055	0.235	< 0.01
37: AMQ-ENV-112	33	1.25	31.8	26.4	0.074	0.03	0.04	0.210	1.03	< 0.01
38: AMQ-ENV-113	60	1.88	58.1	32.0	0.099	0.04	0.06	0.415	2.07	< 0.01
39: AMQ-ENV-114	39	0.94	38.1	41.6	0.046	0.02	0.03	0.078	0.390	< 0.01
40: AMQ-ENV-115	36	1.88	34.1	19.2	0.091	0.03	0.06	0.156	0.774	< 0.01
41: AMQ-ENV-116	57	1.25	55.8	45.6	0.066	0.03	0.04	0.375	1.87	< 0.01
42: AMQ-ENV-117	51	2.50	48.5	20.4	0.094	0.01	0.08	0.361	1.79	0.03
43: AMQ-ENV-118	71	3.75	67.2	18.9	0.146	0.03	0.12	0.539	2.68	0.02
44: AMQ-ENV-119	74	0.31	73.7	237	0.020	0.01	0.01	0.664	3.29	< 0.01
45: AMQ-ENV-120	44	0.94	43.1	46.9	0.042	0.01	0.03	0.223	1.09	< 0.01
46: AMQ-ENV-121	69	0.31	68.7	223	0.020	0.02	< 0.01	0.432	2.15	< 0.01
47: AMQ-ENV-122	38	4.69	33.3	8.11	0.174	0.02	0.15	0.272	1.36	< 0.01
48: AMQ-ENV-125	49	4.38	44.6	11.2	0.249	0.11	0.14	0.307	1.52	< 0.01

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OnLine LIMS

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23-February-2015

Date Rec. : 26 January 2015
LR Report: **CA12409-JAN15**
Reference: OP431539-J

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Appro	4: Analysis Appro	5: AMQ-ENV-01	6: AMQ-ENV-02	7: AMQ-ENV-03	8: AMQ-ENV-07	9: AMQ-ENV-08	10: AMQ-ENV-09	11: AMQ-ENV-10	12: AMQ-ENV-11	13: AMQ-ENV-12	14: AMQ-ENV-13
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	13-Feb-15	09:05	200	200	200	200	200	200	200	200	200	200
Volume D.I. Water [mL]	13-Feb-15	09:05	800	800	800	800	800	800	800	800	800	800
Initial pH	13-Feb-15	09:05	9.73	9.78	7.92	8.75	9.76	9.78	9.59	9.33	9.48	8.71
Final pH	13-Feb-15	09:05	9.26	9.47	8.69	9.18	9.68	9.75	9.46	9.75	9.71	9.08
pH [no unit]	20-Feb-15	11:48	8.60	8.47	7.91	8.11	8.98	9.42	8.90	8.80	8.76	8.50
Alkalinity [mg/L as CaCO3]	19-Feb-15	12:57	41	35	36	37	37	46	63	35	34	36
Conductivity [uS/cm]	19-Feb-15	12:57	205	97	130	204	141	122	151	75	71	117
Fluoride [mg/L]	19-Feb-15	09:05	0.09	0.08	0.12	0.84	0.69	0.14	0.15	0.10	0.16	0.22
Chloride [mg/L]	19-Feb-15	14:40	< 2	< 2	< 2	< 2	< 2	2.5	3.4	< 2	< 2	3.0
Sulphate [mg/L]	19-Feb-15	14:40	50	6.7	8.7	44	19	4.4	3.3	< 2	2.1	8.9
Nitrite (as N) [mg/L]	19-Feb-15	09:23	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nitrate (as N) [mg/L]	19-Feb-15	09:23	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Bromide [mg/L]	19-Feb-15	09:23	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Phosphorus (total reactive) [mg/L]	17-Feb-15	08:56	0.14	< 0.03	< 0.03	0.04	0.09	0.04	0.04	0.06	< 0.03	< 0.03
Mercury [mg/L]	18-Feb-15	08:48	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	18-Feb-15	14:37	< 0.000002	< 0.000002	0.000006	0.000007	0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.000007
Aluminum [mg/L]	17-Feb-15	14:37	0.02	0.01	0.54	0.05	0.12	0.05	0.01	2.03	1.79	0.59
Arsenic [mg/L]	20-Feb-15	14:40	0.848	0.265	0.0045	0.0440	0.0401	0.0483	0.314	0.121	0.0247	0.0373
Barium [mg/L]	18-Feb-15	14:37	0.0905	0.0251	0.00369	0.210	0.198	0.0373	0.0653	0.00635	0.00417	0.0182
Boron [mg/L]	18-Feb-15	14:37	0.0164	0.0127	0.0132	0.0101	0.0085	0.0147	0.0230	0.0191	0.0191	0.0826
Beryllium [mg/L]	18-Feb-15	14:37	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000010	< 0.000007	< 0.000007	0.000015	0.000008	0.000009
Bismuth [mg/L]	18-Feb-15	14:37	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000008

OnLine LIMS

0000351475

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SFE-24hr 4:1 L/S Ratio

LR Report : **CA12409-JAN15**

Analysis	3: Analysis Appro	4: Analysis Appro	5: AMQ-ENV-01	6: AMQ-ENV-02	7: AMQ-ENV-03	8: AMQ-ENV-07	9: AMQ-ENV-08	10: AMQ-ENV-09	11: AMQ-ENV-10	12: AMQ-ENV-11	13: AMQ-ENV-12	14: AMQ-ENV-13
Calcium [mg/L]	17-Feb-15	14:37	12.2	5.74	11.9	16.5	7.78	4.06	7.73	2.85	3.82	3.09
Cadmium [mg/L]	18-Feb-15	14:37	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	18-Feb-15	14:37	0.000129	0.000067	0.000055	0.000027	0.000118	0.000030	0.000274	0.000108	0.000086	0.000060
Chromium [mg/L]	18-Feb-15	14:37	0.00035	0.00019	0.00007	0.00035	0.00207	0.00097	0.00022	0.00032	0.00025	0.00068
Copper [mg/L]	18-Feb-15	14:37	0.00014	0.00030	0.00016	0.00082	0.00153	0.00027	0.00025	0.00020	0.00020	0.00032
Iron [mg/L]	17-Feb-15	14:37	< 0.002	< 0.002	0.028	0.010	0.098	0.026	< 0.002	0.155	0.092	0.188
Potassium [mg/L]	17-Feb-15	14:37	30.4	15.4	10.7	23.7	21.3	24.2	26.1	12.9	8.61	13.0
Lithium [mg/L]	18-Feb-15	14:37	0.00127	0.000598	0.00429	0.0182	0.00856	0.00103	0.00281	0.00281	0.000526	0.00321
Magnesium [mg/L]	17-Feb-15	14:37	3.87	1.69	1.27	3.16	1.28	0.941	2.79	0.234	0.256	0.795
Manganese [mg/L]	18-Feb-15	14:37	0.00088	0.00024	0.0216	0.00197	0.00173	0.00301	0.00057	0.00317	0.00207	0.00232
Molybdenum [mg/L]	18-Feb-15	14:37	0.00123	0.00049	0.00140	0.00529	0.00323	0.00491	0.00717	0.00061	0.00046	0.00219
Sodium [mg/L]	17-Feb-15	14:37	1.56	0.85	4.31	1.79	3.02	2.54	1.55	4.03	4.88	9.65
Nickel [mg/L]	18-Feb-15	14:37	0.0016	0.0007	0.0004	0.0005	0.0015	0.0005	0.0055	0.0005	0.0004	0.0005
Phosphorus [mg/L]	17-Feb-15	14:37	< 0.009	< 0.009	0.035	0.059	0.113	0.044	< 0.009	0.062	0.039	0.024
Lead [mg/L]	18-Feb-15	14:37	< 0.00001	< 0.00001	0.00002	< 0.00001	0.00050	0.00002	0.00007	0.00018	0.00031	0.00009
Antimony [mg/L]	18-Feb-15	14:37	0.0033	0.0026	0.0011	0.0026	0.0015	0.0054	0.0055	0.0032	0.0031	0.0028
Selenium [mg/L]	18-Feb-15	14:37	< 0.001	< 0.001	< 0.001	0.015	0.002	< 0.001	< 0.001	< 0.001	< 0.001	0.001
Silicon [mg/L]	17-Feb-15	14:37	4.45	4.84	2.18	5.43	10.0	9.56	5.10	4.23	4.07	2.77
Tin [mg/L]	18-Feb-15	14:37	0.00004	0.00003	0.00004	0.00003	0.00006	0.00003	0.00002	0.00004	0.00004	0.00006
Strontium [mg/L]	17-Feb-15	14:37	0.109	0.140	0.0233	0.243	0.204	0.0280	0.0673	0.0063	0.0147	0.0089
Titanium [mg/L]	18-Feb-15	14:37	< 0.00005	0.00007	0.00184	0.00075	0.00847	0.00153	0.00009	0.0102	0.00602	0.00589
Thallium [mg/L]	18-Feb-15	14:37	0.000042	0.000067	0.000014	0.000012	0.000007	0.000009	0.000027	0.000007	0.000007	0.000006
Uranium [mg/L]	18-Feb-15	14:37	0.000064	0.000008	0.000375	0.000976	0.000072	0.000037	0.000028	0.00108	0.000963	0.000261
Vanadium [mg/L]	18-Feb-15	14:37	0.00614	0.00514	0.00069	0.0373	0.0351	0.0163	0.00798	0.0111	0.00967	0.00378
Zinc [mg/L]	18-Feb-15	14:37	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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23-February-2015

Date Rec. : 26 January 2015
LR Report: **CA12409-JAN15**
Reference: OP431539-J

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	15: AMQ-ENV-14	16: AMQ-ENV-16	17: AMQ-ENV-17	18: AMQ-ENV-18	19: AMQ-ENV-19	20: AMQ-ENV-20	21: AMQ-ENV-28	22: AMQ-ENV-29	23: AMQ-ENV-31	24: AMQ-ENV-32	25: AMQ-ENV-33	26: AMQ-ENV-34
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	200	200	200	200	200	200	200	200	200	200	200	200
Volume D.I. Water [mL]	800	800	800	800	800	800	800	800	800	800	800	800
Initial pH	8.15	9.87	9.87	9.43	9.36	9.27	5.21	8.94	9.45	9.81	9.86	9.32
Final pH	9.38	9.47	9.76	9.44	9.60	9.76	6.58	8.00	9.36	9.39	9.59	8.76
pH [no unit]	9.00	8.79	9.05	8.94	9.01	9.22	6.75	8.08	9.01	8.33	8.78	7.99
Alkalinity [mg/L as CaCO3]	24	34	34	41	39	41	3	64	43	44	45	52
Conductivity [uS/cm]	46	75	77	98	83	81	130	327	134	105	88	222
Fluoride [mg/L]	0.12	< 0.06	0.08	0.20	0.09	0.18	0.06	0.09	0.07	< 0.06	< 0.06	0.20
Chloride [mg/L]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	2.4	< 2	< 2
Sulphate [mg/L]	< 2	< 2	< 2	< 2	< 2	< 2	44	43	5.6	< 2	< 2	16
Nitrite (as N) [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nitrate (as N) [mg/L]	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Bromide [mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Phosphorus (total reactive) [mg/L]	0.08	< 0.03	< 0.03	100%	0.03	0.03	< 0.03	< 0.03	2.04	0.11	< 0.03	< 0.03
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	0.000005	< 0.000002	< 0.000002	0.000003	0.000002	< 0.000002	0.000010	0.000043	< 0.000002	< 0.000002	< 0.000002	0.000019
Aluminum [mg/L]	2.57	< 0.01	< 0.01	1.93	1.82	2.25	< 0.01	0.02	< 0.01	< 0.01	< 0.01	0.18
Arsenic [mg/L]	0.0747	0.310	0.180	0.0840	0.0661	0.0596	0.0309	0.0052	5.46	0.984	0.112	0.0803
Barium [mg/L]	0.0229	0.00625	0.00538	0.0330	0.0226	0.0181	0.00844	0.00707	0.0276	0.0196	0.0132	0.00248
Boron [mg/L]	0.136	0.0289	0.0321	0.0560	0.0609	0.0573	0.0156	0.0125	0.0162	0.0141	0.0228	0.0260
Beryllium [mg/L]	0.000030	< 0.000007	< 0.000007	0.000031	0.000017	0.000015	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	0.000019	< 0.000007	< 0.000007	0.000026	0.000023	0.000017	< 0.000007	0.000011	< 0.000007	< 0.000007	< 0.000007	< 0.000007

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SFE-24hr 4:1 L/S Ratio

LR Report : **CA12409-JAN15**

Analysis	15: AMQ-ENV-14	16: AMQ-ENV-16	17: AMQ-ENV-17	18: AMQ-ENV-18	19: AMQ-ENV-19	20: AMQ-ENV-20	21: AMQ-ENV-28	22: AMQ-ENV-29	23: AMQ-ENV-31	24: AMQ-ENV-32	25: AMQ-ENV-33	26: AMQ-ENV-34
Calcium [mg/L]	0.25	5.54	4.02	3.65	2.61	1.88	3.25	29.8	11.7	5.20	3.78	17.4
Cadmium [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000074	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000307	0.000089	0.000016	0.000191	0.000100	0.000214	0.00781	0.000047	0.000054	0.000051	0.000057	0.000030
Chromium [mg/L]	0.00133	0.00020	0.00029	0.00119	0.00102	0.00120	< 0.00003	< 0.00003	0.00211	0.00030	0.00018	0.00005
Copper [mg/L]	0.00048	0.00019	0.00027	0.00037	0.00031	0.00040	0.00027	0.00022	0.00044	0.00018	0.00021	0.00041
Iron [mg/L]	0.805	0.005	< 0.002	0.352	0.234	0.345	0.007	0.005	< 0.002	< 0.002	< 0.002	0.009
Potassium [mg/L]	2.55	9.14	13.0	10.8	9.09	8.15	15.1	30.7	13.3	19.8	18.1	27.0
Lithium [mg/L]	0.00223	0.000030	0.000026	0.00228	0.00273	0.00168	0.00835	0.00382	0.000085	0.000107	0.000058	0.00402
Magnesium [mg/L]	0.260	1.96	0.705	0.434	0.322	0.256	2.26	3.19	3.49	2.11	1.23	1.95
Manganese [mg/L]	0.0106	0.00110	< 0.00001	0.00659	0.00372	0.00650	1.22	0.0872	0.00034	0.00013	0.00022	0.0104
Molybdenum [mg/L]	0.00121	0.00012	0.00005	0.00088	0.00080	0.00032	0.00009	0.00541	0.00047	0.00011	0.00004	0.00117
Sodium [mg/L]	9.45	0.58	2.48	9.69	9.53	10.8	4.82	1.80	0.68	0.51	0.65	1.38
Nickel [mg/L]	0.0015	0.0010	0.0002	0.0008	0.0003	0.0007	0.0349	0.0014	0.0037	0.0008	0.0005	0.0003
Phosphorus [mg/L]	0.097	0.011	< 0.009	0.038	0.042	0.056	< 0.009	0.012	0.015	0.010	< 0.009	< 0.009
Lead [mg/L]	0.00061	0.00002	< 0.00001	0.00036	0.00020	0.00036	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Antimony [mg/L]	0.0023	0.0147	0.0035	0.0027	0.0030	0.0026	0.0007	0.0022	0.0834	0.0185	0.0087	0.0034
Selenium [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.004	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silicon [mg/L]	5.38	5.00	7.38	4.80	4.66	5.99	4.97	2.65	9.57	4.74	5.07	2.11
Tin [mg/L]	0.00006	0.00003	0.00002	0.00007	0.00005	0.00005	0.00002	0.00003	0.00004	0.00002	0.00002	0.00004
Strontium [mg/L]	0.0024	0.0336	0.0305	0.0098	0.0060	0.0060	0.0183	0.0481	0.0303	0.0375	0.0400	0.0199
Titanium [mg/L]	0.0222	0.00013	0.00169	0.0212	0.0132	0.0183	0.00016	0.00010	0.00010	< 0.00005	0.00008	0.00021
Thallium [mg/L]	0.000011	0.000061	0.000047	0.000012	0.000008	0.000006	0.000047	0.000010	0.000005	0.000083	0.000054	0.000007
Uranium [mg/L]	0.000174	0.000002	< 0.000002	0.00190	0.00104	0.000692	0.000019	0.000547	0.000012	0.000004	< 0.000002	0.000437
Vanadium [mg/L]	0.0100	0.00494	0.00958	0.00908	0.0107	0.0133	0.00007	0.00007	0.0196	0.00571	0.00845	0.00026
Zinc [mg/L]	0.002	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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23-February-2015

Date Rec. : 26 January 2015
LR Report: **CA12409-JAN15**
Reference: OP431539-J

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	27: AMQ-ENV-36	28: AMQ-ENV-37	29: AMQ-ENV-39	30: AMQ-ENV-40	31: AMQ-ENV-41	32: AMQ-ENV-42	33: AMQ-ENV-43	34: AMQ-ENV-44	35: AMQ-ENV-46	36: AMQ-ENV-109	37: AMQ-ENV-112
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	200	200	200	200	200	200	200	200	200	200	200
Volume D.I. Water [mL]	800	800	800	800	800	800	800	800	800	800	800
Initial pH	9.39	9.62	9.72	8.86	9.33	9.58	9.82	9.65	9.37	7.78	9.56
Final pH	8.35	9.48	9.43	8.48	9.75	9.73	9.11	9.77	9.66	9.35	9.55
pH [no unit]	7.83	9.19	7.86	7.91	9.56	9.36	8.25	8.75	9.52	9.33	9.26
Alkalinity [mg/L as CaCO3]	39	62	42	41	54	52	66	42	54	53	56
Conductivity [uS/cm]	137	108	85	154	107	100	152	88	110	114	124
Fluoride [mg/L]	0.09	0.24	< 0.06	0.10	0.23	0.27	0.08	0.06	< 0.06	0.29	0.32
Chloride [mg/L]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Sulphate [mg/L]	6.8	< 2	< 2	10	< 2	< 2	3.3	< 2	< 2	4.3	4.0
Nitrite (as N) [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nitrate (as N) [mg/L]	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Bromide [mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Phosphorus (total reactive) [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	0.09	< 0.03	1.11	< 0.03	0.04	0.05	0.06
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	0.00001
Silver [mg/L]	0.000006	0.000008	< 0.000002	0.000008	0.000002	0.000002	< 0.000002	< 0.000002	0.000004	0.000007	0.000046
Aluminum [mg/L]	0.31	1.05	< 0.01	0.09	2.18	1.79	0.01	0.01	2.31	1.50	0.42
Arsenic [mg/L]	0.0570	0.120	0.212	0.0074	0.125	0.0594	3.97	0.131	0.0987	0.0460	0.0384
Barium [mg/L]	0.00321	0.00452	0.0142	0.00518	0.00924	0.00581	0.0143	0.00428	0.0122	0.00551	0.00530
Boron [mg/L]	0.0160	0.0506	0.0234	0.0156	0.0718	0.0585	0.0555	0.101	0.0518	0.0653	0.0651
Beryllium [mg/L]	< 0.000007	0.000012	< 0.000007	< 0.000007	0.000021	0.000016	< 0.000007	< 0.000007	0.000030	0.000015	0.000011
Bismuth [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000008	0.000012	< 0.000007

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SFE-24hr 4:1 L/S Ratio

LR Report : **CA12409-JAN15**

Analysis	27: AMQ-ENV-36	28: AMQ-ENV-37	29: AMQ-ENV-39	30: AMQ-ENV-40	31: AMQ-ENV-41	32: AMQ-ENV-42	33: AMQ-ENV-43	34: AMQ-ENV-44	35: AMQ-ENV-46	36: AMQ-ENV-109	37: AMQ-ENV-112
Calcium [mg/L]	13.0	4.22	4.73	14.7	1.80	2.86	8.62	2.99	2.55	2.44	2.47
Cadmium [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000008	0.000015	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000020	0.000162	0.000235	0.000034	0.000214	0.000243	0.000349	0.000069	0.000172	0.000229	0.000117
Chromium [mg/L]	< 0.00003	0.00061	0.00013	< 0.00003	0.00098	0.00096	0.00117	0.00026	0.00097	0.00099	0.00301
Copper [mg/L]	0.00058	0.00043	0.00088	0.00023	0.00160	0.00039	0.00020	0.00028	0.00033	0.00058	0.00285
Iron [mg/L]	0.024	0.134	< 0.002	0.059	0.392	0.221	< 0.002	< 0.002	0.289	0.319	0.207
Potassium [mg/L]	11.9	10.7	13.6	14.6	14.0	7.24	15.2	13.9	8.95	8.92	12.1
Lithium [mg/L]	0.00378	0.00189	0.000053	0.00208	0.00553	0.00145	0.000413	0.000086	0.00156	0.00195	0.00186
Magnesium [mg/L]	1.42	0.428	2.00	2.11	0.263	0.225	5.37	0.511	0.305	0.400	0.461
Manganese [mg/L]	0.0118	0.00281	0.00020	0.0172	0.00724	0.00452	0.00080	0.00014	0.00524	0.00818	0.00353
Molybdenum [mg/L]	0.00153	0.00149	0.00008	0.00040	0.00077	0.00054	0.00015	0.00011	0.00117	0.00160	0.00605
Sodium [mg/L]	2.30	10.9	0.90	0.81	12.6	15.4	4.57	5.69	14.9	16.0	15.6
Nickel [mg/L]	0.0002	0.0009	0.0010	0.0004	0.0006	0.0008	0.0095	0.0004	0.0007	0.0009	0.0007
Phosphorus [mg/L]	0.011	0.023	< 0.009	< 0.009	0.050	0.021	< 0.009	< 0.009	0.032	0.053	0.069
Lead [mg/L]	0.00004	0.00014	0.00006	0.00004	0.00026	0.00041	0.00004	0.00001	0.00049	0.00049	0.00024
Antimony [mg/L]	0.0030	0.0048	0.0053	0.0021	0.0030	0.0041	0.0264	0.0071	0.0019	0.0028	0.0020
Selenium [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001
Silicon [mg/L]	2.86	3.69	4.27	3.38	5.72	5.82	5.24	5.34	5.38	3.77	5.38
Tin [mg/L]	0.00004	0.00006	0.00008	0.00003	0.00008	0.00005	0.00003	0.00006	0.00006	0.00004	0.0415
Strontium [mg/L]	0.0169	0.0088	0.0551	0.0172	0.0039	0.0093	0.0984	0.0489	0.0048	0.0057	0.0078
Titanium [mg/L]	0.00062	0.00740	< 0.00005	0.00045	0.0179	0.0138	0.00015	0.00013	0.0170	0.00973	0.00815
Thallium [mg/L]	< 0.000005	0.000006	0.000049	0.000007	0.000013	0.000007	0.000061	0.000053	0.000009	0.000009	0.000005
Uranium [mg/L]	0.00137	0.00163	0.000010	0.000130	0.00173	0.000881	0.000008	0.000002	0.000815	0.000759	0.000782
Vanadium [mg/L]	0.00045	0.00847	0.00309	0.00019	0.0133	0.0110	0.00951	0.00918	0.00922	0.00832	0.0165
Zinc [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

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23-February-2015

Date Rec. : 26 January 2015
LR Report: **CA12409-JAN15**
Reference: OP431539-J

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	38: AMQ-ENV-113	39: AMQ-ENV-114	40: AMQ-ENV-115	41: AMQ-ENV-116	42: AMQ-ENV-117	43: AMQ-ENV-118	44: AMQ-ENV-119	45: AMQ-ENV-120	46: AMQ-ENV-121	47: AMQ-ENV-122	48: AMQ-ENV-125
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	200	200	200	200	200	200	200	200	200	200	200
Volume D.I. Water [mL]	800	800	800	800	800	800	800	800	800	800	800
Initial pH	9.98	9.03	9.50	9.96	9.86	9.97	9.96	9.89	10.07	9.85	9.99
Final pH	9.97	9.67	9.48	10.03	9.66	10.14	10.00	9.90	9.94	9.39	9.74
pH [no unit]	9.68	9.65	9.40	10.1	8.15	9.76	9.98	10.1	9.98	8.85	9.87
Alkalinity [mg/L as CaCO3]	58	51	47	60	58	61	66	63	94	38	75
Conductivity [uS/cm]	128	120	110	143	134	148	155	147	216	131	196
Fluoride [mg/L]	0.21	0.27	0.21	0.28	0.26	0.25	0.31	0.36	0.33	0.16	0.31
Chloride [mg/L]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Sulphate [mg/L]	< 2	3.1	3.0	2.2	3.3	2.2	3.3	< 2	6.7	10	4.6
Nitrite (as N) [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nitrate (as N) [mg/L]	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Bromide [mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Phosphorus (total reactive) [mg/L]	< 0.03	0.09	< 0.03	< 0.03	0.04	0.03	0.04	0.07	0.12	< 0.03	1.11
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	0.000002	0.000003	0.000010	0.000013	0.000005	< 0.000002	< 0.000002	0.000002	< 0.000002	0.000007	0.000006
Aluminum [mg/L]	0.28	1.38	0.86	0.19	0.51	0.15	0.06	0.34	0.04	0.32	0.04
Arsenic [mg/L]	0.0027	0.0292	0.0577	0.0180	0.0454	0.0932	0.0929	0.0425	0.356	0.0194	3.31
Barium [mg/L]	0.00286	0.00763	0.00366	0.00284	0.00371	0.00476	0.00754	0.00621	0.00478	0.0237	0.00537
Boron [mg/L]	0.0627	0.0576	0.0545	0.0500	0.0498	0.0568	0.0593	0.0664	0.104	0.0152	0.117
Beryllium [mg/L]	< 0.000007	0.000017	0.000010	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000009	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.000007	< 0.000007	0.000025	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000020	< 0.000007	< 0.000007	< 0.000007

OnLine LIMS

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SFE-24hr 4:1 L/S Ratio

LR Report : **CA12409-JAN15**

Analysis	38: AMQ-ENV-113	39: AMQ-ENV-114	40: AMQ-ENV-115	41: AMQ-ENV-116	42: AMQ-ENV-117	43: AMQ-ENV-118	44: AMQ-ENV-119	45: AMQ-ENV-120	46: AMQ-ENV-121	47: AMQ-ENV-122	48: AMQ-ENV-125
Calcium [mg/L]	1.71	1.93	4.18	1.87	3.37	1.92	2.21	2.29	2.04	5.67	2.95
Cadmium [mg/L]	0.000008	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000056	0.000175	0.000116	0.000030	0.000059	0.000012	0.000077	0.000216	0.000089	0.000030	0.000120
Chromium [mg/L]	0.00145	0.00152	0.00114	0.00171	0.00141	0.00118	0.00352	0.00629	0.00441	0.00028	0.00472
Copper [mg/L]	0.00030	0.00036	0.00034	0.00023	0.00036	0.00030	0.00035	0.00042	0.00078	0.00017	0.00022
Iron [mg/L]	0.030	0.551	0.213	0.048	0.065	0.015	0.097	0.382	0.080	0.017	0.061
Potassium [mg/L]	16.9	12.3	7.17	16.1	10.4	20.9	24.1	20.3	28.1	19.5	29.4
Lithium [mg/L]	0.000313	0.00284	0.00107	0.000216	0.00198	0.000289	0.000303	0.000793	0.000609	0.000523	0.000367
Magnesium [mg/L]	0.124	0.311	0.462	0.142	0.289	0.116	0.300	0.477	0.381	0.842	0.658
Manganese [mg/L]	0.00054	0.00699	0.00234	0.00074	0.00102	0.00027	0.00140	0.00538	0.00134	0.00038	0.00103
Molybdenum [mg/L]	0.00059	0.00920	0.00192	0.00044	0.00238	0.00029	0.00038	0.00075	0.00052	0.00249	0.00029
Sodium [mg/L]	12.8	14.8	13.8	16.2	17.1	12.7	13.3	14.3	23.1	6.02	14.9
Nickel [mg/L]	0.0004	0.0007	0.0007	0.0002	0.0007	0.0001	0.0006	0.0014	0.0013	0.0004	0.0016
Phosphorus [mg/L]	0.018	0.104	0.026	0.018	0.026	0.011	0.021	0.079	0.027	0.037	< 0.009
Lead [mg/L]	0.00009	0.00020	0.00058	0.00002	0.00009	< 0.00001	0.00003	0.00012	0.00013	< 0.00001	0.00002
Antimony [mg/L]	0.0028	0.0022	0.0040	0.0025	0.0025	0.0030	0.0041	0.0050	0.0165	0.0024	0.0367
Selenium [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silicon [mg/L]	6.77	4.25	3.89	8.39	4.61	8.00	10.3	9.68	15.5	3.73	11.8
Tin [mg/L]	0.00171	0.00039	0.00026	0.00006	0.00009	0.00008	0.00006	0.00007	0.00010	0.00005	0.00005
Strontium [mg/L]	0.0173	0.0055	0.0119	0.0286	0.0097	0.0466	0.0177	0.0111	0.0247	0.0555	0.0398
Titanium [mg/L]	0.00188	0.0315	0.00783	0.00247	0.00377	0.00108	0.00594	0.0146	0.00395	0.00118	0.00189
Thallium [mg/L]	< 0.000005	0.000009	< 0.000005	< 0.000005	0.000006	< 0.000005	< 0.000005	0.000006	< 0.000005	0.000005	0.000005
Uranium [mg/L]	0.000089	0.000657	0.000577	0.000015	0.000845	0.000030	0.000014	0.000085	0.000021	0.000039	0.000012
Vanadium [mg/L]	0.0252	0.0135	0.00849	0.0252	0.0121	0.0179	0.0251	0.0337	0.0262	0.00915	0.0288
Zinc [mg/L]	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

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Sequential NAG Test-Phase 1

Project : PO#460193

16-December-2015

Date Rec. : 03 December 2015
LR Report: **CA15042-DEC15**
Reference: Project # 1520817

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
3: Analysis Approval Date	15-Dec-15	15-Dec-15	15-Dec-15	15-Dec-15	15-Dec-15	15-Dec-15	15-Dec-15	15-Dec-15
4: Analysis Approval Time	16:23	16:23	16:23	16:23	16:23	16:23	16:23	16:23
5: AMQ-ENV15-007	1.48	150	9.63	0.10	0.00	0.00	0.0	0.0
6: AMQ-ENV15-008	1.50	150	2.50	0.10	6.77	9.17	22	30
7: AMQ-ENV15-025	1.51	150	7.63	0.10	0.00	0.00	0.0	0.0
8: AMQ-ENV-109	1.48	150	6.70	0.10	0.00	0.21	0.0	0.7
9: AMQ-ENV15-042	1.50	150	8.07	0.10	0.00	0.00	0.0	0.0
10: AMQ-ENV15-098	1.57	150	4.34	0.10	0.50	1.00	1.6	3.1
11: AMQ-ENV15-064	1.56	150	4.38	0.10	0.08	0.44	0.3	1.4
12: AMQ-ENV15-106	1.56	150	5.24	0.10	0.00	0.19	0.0	0.6
13: AMQ-ENV15-108	1.45	150	5.79	0.10	0.00	0.22	0.0	0.7
14: AMQ-ENV15-065	1.56	150	4.82	0.10	0.00	0.22	0.0	0.7
15: AMQ-ENV15-066	1.51	150	4.31	0.10	0.07	0.24	0.2	0.8
16: AMQ-ENV15-073	1.53	150	4.24	0.10	0.10	0.39	0.3	1.2
17: AMQ-ENV15-074	1.54	150	6.26	0.10	0.00	0.25	0.0	0.8
18: AMQ-ENV15-097	1.49	150	7.58	0.10	0.00	0.00	0.0	0.0
19: AMQ-ENV15-107	1.58	150	6.93	0.10	0.00	0.13	0.0	0.4
20: AMQ-ENV15-095	1.49	150	7.15	0.10	0.00	0.00	0.0	0.0
21: AMQ-ENV15-096	1.50	150	5.61	0.10	0.00	0.23	0.0	0.8

OnLine LIMS

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Sequential NAG Test-Phase 1

Project : PO#460193

LR Report : **CA15042-DEC15**

Sample ID	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
22: AMQ-ENV15-056	1.52	150	6.05	0.10	0.00	0.08	0.0	0.3
23: AMQ-ENV15-115	1.53	150	4.80	0.10	0.00	0.29	0.0	0.9
24: AMQ-ENV15-035	1.54	150	2.83	0.10	3.71	4.82	12	15
25: AMQ-ENV15-027	1.51	150	6.92	0.10	0.00	0.44	0.0	1.4
26: AMQ-ENV15-034	1.57	150	2.87	0.10	3.24	4.31	10	14
27: AMQ-ENV15-010	1.50	150	6.84	0.10	0.00	0.10	0.0	0.3
28: AMQ-ENV-56	1.49	150	4.64	0.10	0.00	0.46	0.0	1.5
29: AMQ-ENV-57	1.51	150	3.65	0.10	0.53	1.27	1.7	4.1

NAG = (49 x Vol. of base x N of base)/sample weight
kg H2SO4/tonne

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

0000560060

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Sequential NAG Test-Phase 2

Project : PO#460193

17-December-2015

Date Rec. : 03 December 2015
LR Report: **CA15043-DEC15**
Reference: Project# 1520817

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
3: Analysis Approval Date	17-Dec-15	17-Dec-15	17-Dec-15	17-Dec-15	17-Dec-15	17-Dec-15	17-Dec-15	17-Dec-15
4: Analysis Approval Time	08:56	08:56	08:56	08:56	08:56	08:56	08:56	08:56
5: AMQ-ENV15-007	1.48	150	3.95	0.10	0.15	0.58	0.5	1.9
6: AMQ-ENV15-008	1.50	150	3.45	0.10	0.79	1.46	2.6	4.8
7: AMQ-ENV15-025	1.51	150	8.05	0.10	0.00	0.00	0.0	0.0
8: AMQ-ENV-109	1.48	150	6.94	0.10	0.00	0.22	0.0	0.7
9: AMQ-ENV15-042	1.50	150	7.51	0.10	0.00	0.00	0.0	0.0
10: AMQ-ENV15-098	1.57	150	5.47	0.10	0.00	0.69	0.0	2.2
11: AMQ-ENV15-064	1.56	150	5.72	0.10	0.00	0.33	0.0	1.0
12: AMQ-ENV15-106	1.56	150	6.10	0.10	0.00	0.34	0.0	1.1
13: AMQ-ENV15-108	1.45	150	6.52	0.10	0.00	0.30	0.0	1.0
14: AMQ-ENV15-065	1.56	150	5.94	0.10	0.00	0.14	0.0	0.4
15: AMQ-ENV15-066	1.51	150	6.16	0.10	0.00	0.13	0.0	0.4
16: AMQ-ENV15-073	1.53	150	5.75	0.10	0.00	0.18	0.0	0.6
17: AMQ-ENV15-074	1.54	150	6.74	0.10	0.00	0.20	0.0	0.6
18: AMQ-ENV15-097	1.49	150	6.69	0.10	0.00	0.18	0.0	0.6
19: AMQ-ENV15-107	1.58	150	7.20	0.10	0.00	0.00	0.0	0.0
20: AMQ-ENV15-095	1.49	150	3.85	0.10	0.38	0.76	1.2	2.5
21: AMQ-ENV15-096	1.50	150	3.95	0.10	0.24	0.58	0.8	1.9

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Sequential NAG Test-Phase 2

Project : PO#460193

LR Report : **CA15043-DEC15**

Sample ID	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
22: AMQ-ENV15-056	1.52	150	6.38	0.10	0.00	0.19	0.0	0.6
23: AMQ-ENV15-115	1.53	150	5.14	0.10	0.00	0.23	0.0	0.7
24: AMQ-ENV15-035	1.54	150	3.98	0.10	0.19	0.35	0.6	1.1
25: AMQ-ENV15-027	1.51	150	3.93	0.10	0.25	0.52	0.8	1.7
26: AMQ-ENV15-034	1.57	150	3.80	0.10	0.28	0.53	0.9	1.7
27: AMQ-ENV15-010	1.50	150	4.32	0.10	0.13	0.38	0.4	1.2
28: AMQ-ENV-56	1.49	150	5.90	0.10	0.00	0.14	0.0	0.5
29: AMQ-ENV-57	1.50	150	5.02	0.10	0.00	0.23	0.0	0.8

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

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Sequential NAG Test-Phase 3

Project : PO#460193

18-December-2015

Date Rec. : 03 December 2015
LR Report: **CA15044-DEC15**
Reference: project #1520817

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
3: Analysis Approval Date	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15
4: Analysis Approval Time	08:33	08:33	08:33	08:33	08:33	08:33	08:33	08:33
5: AMQ-ENV15-007	1.48	150	5.15	0.10	0.00	0.08	0.0	0.3
6: AMQ-ENV15-008	1.50	150	4.09	0.10	0.13	0.29	0.4	0.9
7: AMQ-ENV15-025	1.51	150	6.34	0.10	0.00	0.05	0.0	0.2
8: AMQ-ENV-109	1.48	150	6.35	0.10	0.00	0.28	0.0	0.9
9: AMQ-ENV15-042	1.50	150	7.06	0.10	0.00	0.00	0.0	0.0
10: AMQ-ENV15-098	1.57	150	6.05	0.10	0.00	0.24	0.0	0.7
11: AMQ-ENV15-064	1.56	150	5.88	0.10	0.00	0.33	0.0	1.0
12: AMQ-ENV15-106	1.56	150	6.23	0.10	0.00	0.15	0.0	0.5
13: AMQ-ENV15-108	1.45	150	6.50	0.10	0.00	0.09	0.0	0.3
14: AMQ-ENV15-065	1.56	150	6.12	0.10	0.00	0.21	0.0	0.7
15: AMQ-ENV15-066	1.51	150	6.30	0.10	0.00	0.14	0.0	0.5
16: AMQ-ENV15-073	1.53	150	5.99	0.10	0.00	0.24	0.0	0.8
17: AMQ-ENV15-074	1.54	150	6.51	0.10	0.00	0.06	0.0	0.2
18: AMQ-ENV15-097	1.49	150	6.76	0.10	0.00	0.05	0.0	0.2
19: AMQ-ENV15-107	1.58	150	6.95	0.10	0.00	0.04	0.0	0.1
20: AMQ-ENV15-095	1.49	150	4.89	0.10	0.00	0.12	0.0	0.4
21: AMQ-ENV15-096	1.50	150	4.86	0.10	0.00	0.13	0.0	0.4

OnLine LIMS

00005900607

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Sequential NAG Test-Phase 3

Project : PO#460193

LR Report : **CA15044-DEC15**

Sample ID	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
22: AMQ-ENV15-056	1.52	150	6.38	0.10	0.00	0.09	0.0	0.3
23: AMQ-ENV15-115	1.53	150	5.54	0.10	0.00	0.06	0.0	0.2
24: AMQ-ENV15-035	1.54	150	4.78	0.10	0.00	0.11	0.0	0.4
25: AMQ-ENV15-027	1.51	150	4.85	0.10	0.00	0.06	0.0	0.2
26: AMQ-ENV15-034	1.57	150	4.55	0.10	0.00	0.13	0.0	0.4
27: AMQ-ENV15-010	1.50	150	5.05	0.10	0.00	0.10	0.0	0.3
28: AMQ-ENV-56	1.49	150	6.39	0.10	0.00	0.08	0.0	0.3
29: AMQ-ENV-57	1.50	150	5.51	0.10	0.00	0.06	0.0	0.2

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

00005900967

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SGS Canada Inc.
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Agnico Eagle Mines Limited
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Phone: (819) 759-3700 x5820, Fax:(819) 759-3663

Sequential NAG Test-Phase 4

Project : PO#460193

18-December-2015

Date Rec. : 03 December 2015
LR Report: **CA15045-DEC15**
Reference: Project #1520817

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CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
3: Analysis Approval Date	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15
4: Analysis Approval Time	16:24	16:24	16:24	16:24	16:24	16:24	16:24	16:24
5: AMQ-ENV15-007	1.48	150	5.64	0.10	0.00	0.10	0.0	0.3
6: AMQ-ENV15-008	1.50	150	4.44	0.10	0.05	0.17	0.2	0.6
7: AMQ-ENV15-025	1.51	150	6.92	0.10	0.00	0.04	0.0	0.1
8: AMQ-ENV-109	1.48	150	6.05	0.10	0.00	0.37	0.0	1.2
9: AMQ-ENV15-042	1.50	150	6.56	0.10	0.00	0.11	0.0	0.4
10: AMQ-ENV15-098	1.57	150	5.83	0.10	0.00	0.47	0.0	1.5
11: AMQ-ENV15-064	1.56	150	5.93	0.10	0.00	0.28	0.0	0.9
12: AMQ-ENV15-106	1.56	150	6.03	0.10	0.00	0.21	0.0	0.7
13: AMQ-ENV15-108	1.45	150	6.30	0.10	0.00	0.13	0.0	0.4
14: AMQ-ENV15-065	1.56	150	6.01	0.10	0.00	0.29	0.0	0.9
15: AMQ-ENV15-066	1.51	150	6.02	0.10	0.00	0.33	0.0	1.1
16: AMQ-ENV15-073	1.53	150	5.71	0.10	0.00	0.60	0.0	1.9
17: AMQ-ENV15-074	1.54	150	6.41	0.10	0.00	0.13	0.0	0.4
18: AMQ-ENV15-097	1.49	150	6.55	0.10	0.00	0.08	0.0	0.3
19: AMQ-ENV15-107	1.58	150	6.75	0.10	0.00	0.07	0.0	0.2
20: AMQ-ENV15-095	1.49	150	5.27	0.10	0.00	0.10	0.0	0.3
21: AMQ-ENV15-096	1.50	150	5.35	0.10	0.00	0.10	0.0	0.3

OnLine LIMS

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Sequential NAG Test-Phase 4

Project : PO#460193

LR Report : **CA15045-DEC15**

Sample ID	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
22: AMQ-ENV15-056	1.52	150	5.98	0.10	0.00	0.36	0.0	1.2
23: AMQ-ENV15-115	1.53	150	5.88	0.10	0.00	0.10	0.0	0.3
24: AMQ-ENV15-035	1.54	150	5.21	0.10	0.00	0.09	0.0	0.3
25: AMQ-ENV15-027	1.51	150	5.31	0.10	0.00	0.11	0.0	0.4
26: AMQ-ENV15-034	1.57	150	5.05	0.10	0.00	0.13	0.0	0.4
27: AMQ-ENV15-010	1.50	150	5.60	0.10	0.00	0.08	0.0	0.3
28: AMQ-ENV-56	1.49	150	6.38	0.10	0.00	0.08	0.0	0.3
29: AMQ-ENV-57	1.50	150	5.95	0.10	0.00	0.07	0.0	0.2

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

00005900/0

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Sequential NAG Test with Analyses-Phase 1

Project : PO#460193

16-December-2015

Agnico Eagle Mines Limited
Attn : Serge Ouellet

10200, route de Pressac
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Phone: (819) 759-3700 x5820
Fax:(819) 759-3663

Date Rec. : 03 December 2015
LR Report: **CA15046-DEC15**
Reference: Project #1520817

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CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample weight g	Vol H2O2 mL	pH no unit	Sulphate mg/L
3: Analysis Approval Date	07-Dec-15	07-Dec-15	16-Dec-15	11-Dec-15
4: Analysis Approval Time	08:06	08:06	10:24	15:28
5: AMQ-ENV15-007	2.6	250	8.76	110
6: AMQ-ENV15-008	2.5	250	2.54	480
7: AMQ-ENV15-025	2.5	250	6.90	370
8: AMQ-ENV-109	2.6	250	6.18	35
9: AMQ-ENV15-042	2.5	250	7.70	38
10: AMQ-ENV15-098	2.5	250	4.31	99
11: AMQ-ENV15-064	2.6	250	4.41	87
12: AMQ-ENV15-106	2.6	250	4.98	110
13: AMQ-ENV15-108	2.6	250	5.46	99
14: AMQ-ENV15-065	2.5	250	4.92	97
15: AMQ-ENV15-066	2.5	250	5.26	88
16: AMQ-ENV15-073	2.5	250	5.57	66
17: AMQ-ENV15-074	2.6	250	6.59	96
18: AMQ-ENV15-097	2.6	250	7.02	90
19: AMQ-ENV15-107	2.5	250	6.87	69
20: AMQ-ENV15-095	2.5	250	5.65	200
21: AMQ-ENV15-096	2.5	250	4.18	280
22: AMQ-ENV15-056	2.5	250	5.61	98
23: AMQ-ENV15-115	2.5	250	4.66	270
24: AMQ-ENV15-035	2.5	250	2.80	330
25: AMQ-ENV15-027	2.5	250	6.44	250
26: AMQ-ENV15-034	2.6	250	2.88	420
27: AMQ-ENV15-010	2.6	250	3.46	380
28: AMQ-ENV-56	2.5	250	5.00	280
29: AMQ-ENV-57	2.5	250	3.59	260

OnLine LIMS

0000574445

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Sequential NAG Test with Analyses-Phase 1

Project : PO#460193

LR Report : **CA15046-DEC15**

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

0000574445

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Sequential NAG Test with Analyses-Phase 2

Project : PO#460193

16-December-2015

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Date Rec. : 03 December 2015
LR Report: **CA15047-DEC15**
Reference: Project #1520817

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CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample weight g	Vol H2O2 mL	pH no unit	Sulphate mg/L
3: Analysis Approval Date	10-Dec-15	10-Dec-15	11-Dec-15	11-Dec-15
4: Analysis Approval Time	08:47	08:47	15:43	16:41
5: AMQ-ENV15-007	2.46	250	4.27	350
6: AMQ-ENV15-008	2.55	250	3.35	59
7: AMQ-ENV15-025	2.54	250	8.91	44
8: AMQ-ENV-109	2.46	250	7.03	2
9: AMQ-ENV15-042	2.48	250	7.48	3
10: AMQ-ENV15-098	2.58	250	5.44	12
11: AMQ-ENV15-064	2.58	250	5.48	10
12: AMQ-ENV15-106	2.50	250	5.75	6
13: AMQ-ENV15-108	2.54	250	6.22	4
14: AMQ-ENV15-065	2.49	250	5.80	6
15: AMQ-ENV15-066	2.48	250	5.99	5
16: AMQ-ENV15-073	2.45	250	5.56	5
17: AMQ-ENV15-074	2.45	250	6.40	3
18: AMQ-ENV15-097	2.49	250	6.64	16
19: AMQ-ENV15-107	2.53	250	7.11	3
20: AMQ-ENV15-095	2.46	250	4.30	29
21: AMQ-ENV15-096	2.48	250	4.52	23
22: AMQ-ENV15-056	2.50	250	6.21	4
23: AMQ-ENV15-115	2.49	250	8.34	16
24: AMQ-ENV15-035	2.54	250	3.87	27
25: AMQ-ENV15-027	2.64	250	5.29	100
26: AMQ-ENV15-034	2.51	250	3.77	41
27: AMQ-ENV15-010	2.46	250	4.33	33
28: AMQ-ENV-56	2.63	250	5.88	15
29: AMQ-ENV-57	2.53	250	4.86	17
30-DUP: AMQ-ENV-57	2.49	250	4.83	19
31-BLK: ~H2O2 Blank	---	250	4.46	1

OnLine LIMS

0000574440

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Sequential NAG Test with Analyses-Phase 2

Project : PO#460193

LR Report : **CA15047-DEC15**

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

0000574440

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Sequential NAG Test with Analyses-Phase 3

Project : PO#460193

16-December-2015

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Date Rec. : 03 December 2015
LR Report: **CA15048-DEC15**
Reference: Project #1520817

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CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample weight g	Vol H2O2 mL	pH no unit	Sulphate mg/L
3: Analysis Approval Date	11-Dec-15	11-Dec-15	14-Dec-15	14-Dec-15
4: Analysis Approval Time	09:49	09:49	12:49	08:41
5: AMQ-ENV15-007	2.46	250	5.28	20
6: AMQ-ENV15-008	2.55	250	3.90	16
7: AMQ-ENV15-025	2.54	250	6.92	70
8: AMQ-ENV-109	2.46	250	7.85	1
9: AMQ-ENV15-042	2.48	250	7.15	1
10: AMQ-ENV15-098	2.58	250	5.83	1
11: AMQ-ENV15-064	2.58	250	5.85	1
12: AMQ-ENV15-106	2.50	250	6.08	1
13: AMQ-ENV15-108	2.54	250	6.27	1
14: AMQ-ENV15-065	2.49	250	6.05	1
15: AMQ-ENV15-066	2.48	250	6.13	1
16: AMQ-ENV15-073	2.45	250	5.78	1
17: AMQ-ENV15-074	2.45	250	6.42	1
18: AMQ-ENV15-097	2.49	250	6.79	2
19: AMQ-ENV15-107	2.53	250	7.28	1
20: AMQ-ENV15-095	2.46	250	5.00	5
21: AMQ-ENV15-096	2.48	250	6.40	7
22: AMQ-ENV15-056	2.50	250	6.20	1
23: AMQ-ENV15-115	2.49	250	5.48	6
24: AMQ-ENV15-035	2.54	250	5.91	7
25: AMQ-ENV15-027	2.64	250	4.65	12
26: AMQ-ENV15-034	2.51	250	4.50	11
27: AMQ-ENV15-010	2.46	250	4.80	8
28: AMQ-ENV-56	2.63	250	6.13	2
29: AMQ-ENV-57	2.53	250	5.46	5
30-DUP: AMQ-ENV-57	2.49	250	5.47	5
31-BLK: ~H2O2 Blank	---	250	4.60	1

OnLine LIMS

0000574450

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Sequential NAG Test with Analyses-Phase 3

Project : PO#460193

LR Report : **CA15048-DEC15**

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

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Sequential NAG Test with Analyses-Phase 4

Project : PO#460193

16-December-2015

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Date Rec. : 03 December 2015
LR Report: **CA15049-DEC15**
Reference: Project# 1520817

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CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample weight g	Vol H2O2 mL	pH no unit	Sulphate mg/L
3: Analysis Approval Date	15-Dec-15	15-Dec-15	16-Dec-15	15-Dec-15
4: Analysis Approval Time	11:04	11:04	10:25	15:26
5: AMQ-ENV15-007	2.46	250	5.93	6
6: AMQ-ENV15-008	2.55	250	4.24	7
7: AMQ-ENV15-025	2.54	250	6.50	34
8: AMQ-ENV-109	2.46	250	6.18	< 1
9: AMQ-ENV15-042	2.48	250	6.85	< 1
10: AMQ-ENV15-098	2.58	250	5.85	< 1
11: AMQ-ENV15-064	2.58	250	5.86	< 1
12: AMQ-ENV15-106	2.50	250	6.20	< 1
13: AMQ-ENV15-108	2.54	250	6.23	< 1
14: AMQ-ENV15-065	2.49	250	6.03	< 1
15: AMQ-ENV15-066	2.48	250	6.11	< 1
16: AMQ-ENV15-073	2.45	250	5.77	< 1
17: AMQ-ENV15-074	2.45	250	6.49	< 1
18: AMQ-ENV15-097	2.49	250	6.99	< 1
19: AMQ-ENV15-107	2.53	250	6.73	< 1
20: AMQ-ENV15-095	2.46	250	5.26	2
21: AMQ-ENV15-096	2.48	250	5.41	3
22: AMQ-ENV15-056	2.50	250	6.20	< 1
23: AMQ-ENV15-115	2.49	250	5.72	2
24: AMQ-ENV15-035	2.54	250	5.08	3
25: AMQ-ENV15-027	2.64	250	5.19	4
26: AMQ-ENV15-034	2.51	250	4.82	5
27: AMQ-ENV15-010	2.46	250	5.12	4
28: AMQ-ENV-56	2.63	250	6.45	< 1
29: AMQ-ENV-57	2.53	250	5.80	< 1
30-DUP: AMQ-ENV-57	2.49	250	5.85	< 1
31-BLK: ~H2O2 Blank	---	250	4.61	< 10

OnLine LIMS

0000574429

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

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P.O. Box 4300 - 185 Concession St.
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Sequential NAG Test with Analyses-Phase 4

Project : PO#460193

LR Report : **CA15049-DEC15**

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

0000574429

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13-October-2015

Agnico Eagle Mines Limited
Attn : Serge Ouellet

10200, route de Pressac
Rouyn-Noranda, Quebec
J0Y 1C0,

Phone: (819) 759-3700 x5820
Fax:(819) 759-3663

Date Rec. : 03 September 2015
LR Report: **CA15049-SEP15**
Reference: Project Number:1520817

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CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
3: Analysis Approval Date	09-Sep-15	09-Sep-15	09-Sep-15	09-Sep-15	09-Sep-15	09-Sep-15	09-Sep-15	09-Sep-15
4: Analysis Approval Time	16:17	16:17	16:17	16:17	16:17	16:17	16:17	16:17
5: AMQ-ENV-14	1.50	150	5.14	0.10	0.00	0.47	0.0	1.5
6: AMQ-ENV-13	1.50	150	6.77	0.10	0.00	0.06	0.0	0.2
7: AMQ-ENV-109	1.51	150	6.64	0.10	0.00	0.13	0.0	0.4
8: AMQ-ENV-40	1.58	150	2.71	0.10	3.84	5.14	12	16
9: AMQ-ENV-20	1.50	150	7.83	0.10	0.00	0.00	0.0	0.0
10: AMQ-ENV-46	1.50	150	8.02	0.10	0.00	0.00	0.0	0.0
11: AMQ-ENV-11	1.56	150	8.27	0.10	0.00	0.00	0.0	0.0
12: AMQ-ENV-18	1.55	150	5.22	0.10	0.00	0.37	0.0	1.2
13: AMQ-ENV-53	1.49	150	7.72	0.10	0.00	0.00	0.0	0.0
14: AMQ-ENV-19	1.55	150	7.43	0.10	0.00	0.00	0.0	0.0
15: AMQ-ENV-03	1.51	150	3.86	0.10	0.37	1.25	1.2	4.1
16: AMQ-ENV-42	1.49	150	8.27	0.10	0.00	0.00	0.0	0.0
17: AMQ-ENV-49	1.51	150	8.74	0.10	0.00	0.00	0.0	0.0
18: AMQ-ENV-17	1.50	150	10.23	0.10	0.00	0.00	0.0	0.0

NAG = (49 x Vol. of base x N of base)/sample weight
kg H2SO4/tonne

OnLine LIMS

0000526159

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Sequential NAG Test-Phase 1

LR Report : **CA15049-SEP15**



Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

000052615 9

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13-October-2015

Date Rec. : 03 September 2015
LR Report: **CA15050-SEP15**
Reference: Project Number:1520817

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CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
3: Analysis Approval Date	10-Sep-15	10-Sep-15	10-Sep-15	10-Sep-15	10-Sep-15	10-Sep-15	10-Sep-15	10-Sep-15
4: Analysis Approval Time	14:50	14:50	14:50	14:50	14:50	14:50	14:50	14:50
5: AMQ-ENV-14	1.50	150	6.03	0.10	0.00	0.20	0.0	0.0
6: AMQ-ENV-13	1.50	150	6.81	0.10	0.00	0.05	0.0	0.0
7: AMQ-ENV-109	1.51	150	6.82	0.10	0.00	0.05	0.0	0.0
8: AMQ-ENV-40	1.58	150	3.62	0.10	0.27	0.59	0.8	0.0
9: AMQ-ENV-20	1.50	150	7.17	0.10	0.00	0.00	0.0	0.0
10: AMQ-ENV-46	1.50	150	7.53	0.10	0.00	0.00	0.0	0.0
11: AMQ-ENV-11	1.56	150	6.74	0.10	0.00	0.05	0.0	0.0
12: AMQ-ENV-18	1.55	150	6.21	0.10	0.00	0.09	0.0	0.3
13: AMQ-ENV-53	1.49	150	7.09	0.10	0.00	0.00	0.0	0.0
14: AMQ-ENV-19	1.55	150	7.33	0.10	0.00	0.00	0.0	0.0
15: AMQ-ENV-03	1.51	150	5.38	0.10	0.00	0.27	0.0	0.9
16: AMQ-ENV-42	1.49	150	6.35	0.10	0.00	0.06	0.0	0.2
17: AMQ-ENV-49	1.51	150	11.26	0.10	0.00	0.00	0.0	0.0
18: AMQ-ENV-17	1.50	150	10.85	0.10	0.00	0.00	0.0	0.0

OnLine LIMS

000052615 3

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Sequential NAG Test-Phase 2

LR Report : **CA15050-SEP15**

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OnLine LIMS

000052615 3

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13-October-2015

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Date Rec. : 03 September 2015
LR Report: **CA15051-SEP15**
Reference: Project Number:1520817

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CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
3: Analysis Approval Date	11-Sep-15	11-Sep-15	11-Sep-15	11-Sep-15	11-Sep-15	11-Sep-15	11-Sep-15	11-Sep-15
4: Analysis Approval Time	13:21	13:21	13:21	13:21	13:21	13:21	13:21	13:21
5: AMQ-ENV-14	1.50	150	5.54	0.10	0.00	0.80	0.0	2.6
6: AMQ-ENV-13	1.50	150	5.84	0.10	0.00	0.69	0.0	2.3
7: AMQ-ENV-109	1.51	150	5.62	0.10	0.00	0.92	0.0	3.0
8: AMQ-ENV-40	1.58	150	5.22	0.10	0.00	0.09	0.0	0.3
9: AMQ-ENV-20	1.50	150	6.64	0.10	0.00	0.14	0.0	0.5
10: AMQ-ENV-46	1.50	150	6.91	0.10	0.00	0.09	0.0	0.3
11: AMQ-ENV-11	1.56	150	6.78	0.10	0.00	0.08	0.0	0.3
12: AMQ-ENV-18	1.55	150	5.73	0.10	0.00	0.40	0.0	1.3
13: AMQ-ENV-53	1.49	150	7.08	0.10	0.00	0.00	0.0	0.0
14: AMQ-ENV-19	1.55	150	6.76	0.10	0.00	0.08	0.0	0.3
15: AMQ-ENV-03	1.51	150	5.41	0.10	0.00	0.50	0.0	1.6
16: AMQ-ENV-42	1.49	150	6.11	0.10	0.00	0.20	0.0	0.7
17: AMQ-ENV-49	1.51	150	11.17	0.10	0.00	0.00	0.0	0.0
18: AMQ-ENV-17	1.50	150	8.62	0.10	0.00	0.00	0.0	0.0

OnLine LIMS

000052614

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Sequential NAG Test-Phase 3

LR Report : **CA15051-SEP15**

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

000052614 7

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13-October-2015

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Date Rec. : 03 September 2015
LR Report: **CA15052-SEP15**
Reference: Project Number:1520817

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CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
3: Analysis Approval Date		14-Sep-15	14-Sep-15	14-Sep-15	14-Sep-15	14-Sep-15	14-Sep-15	14-Sep-15	14-Sep-15
4: Analysis Approval Time		13:32	13:32	13:32	13:32	13:32	13:32	13:32	13:32
5: AMQ-ENV-14	Date:N/A	1.50	150	5.11	0.10	0.00	1.04	0.0	3.4
6: AMQ-ENV-13	Date:N/A	1.50	150	5.36	0.10	0.00	0.93	0.0	3.0
7: AMQ-ENV-109	Date:N/A	1.51	150	5.32	0.10	0.00	0.83	0.0	2.7
8: AMQ-ENV-40	Date:N/A	1.58	150	5.80	0.10	0.00	0.13	0.0	0.4
9: AMQ-ENV-20	Date:N/A	1.50	150	6.19	0.10	0.00	0.29	0.0	0.9
10: AMQ-ENV-46	Date:N/A	1.50	150	6.04	0.10	0.00	0.41	0.0	1.3
11: AMQ-ENV-11	Date:N/A	1.56	150	6.18	0.10	0.00	0.17	0.0	0.5
12: AMQ-ENV-18	Date:N/A	1.55	150	5.35	0.10	0.00	0.73	0.0	2.3
13: AMQ-ENV-53	Date:N/A	1.49	150	6.42	0.10	0.00	0.05	0.0	0.2
14: AMQ-ENV-19	Date:N/A	1.55	150	6.09	0.10	0.00	0.23	0.0	0.7
15: AMQ-ENV-03	Date:N/A	1.51	150	5.26	0.10	0.00	0.64	0.0	2.1
16: AMQ-ENV-42	Date:N/A	1.49	150	5.93	0.10	0.00	0.27	0.0	0.9
17: AMQ-ENV-49	Date:N/A	1.51	150	10.98	0.10	0.00	0.00	0.0	0.0
18: AMQ-ENV-17	Date:N/A	1.50	150	7.15	0.10	0.00	0.00	0.0	0.0

OnLine LIMS

000052614 3

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Sequential NAG Test-Phase 4

LR Report : **CA15052-SEP15**

Brian Graham B.Sc.
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Environmental Services, Analytical

OnLine LIMS

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13-October-2015

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Date Rec. : 03 September 2015
LR Report: **CA15053-SEP15**
Reference: Project Number:1520817

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	10-Sep-15	14:53	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5
Vol H2O2 [mL]	10-Sep-15	14:53	250	250	250	250	250	250	250	250	250
pH [no unit]	11-Sep-15	10:24	5.27	6.50	7.83	2.77	6.56	8.00	8.17	5.00	6.93
Conductivity [µS/cm]	11-Sep-15	10:24	155	122	191	1240	101	208	234	262	401
Alkalinity [mg/L as CaCO3]	11-Sep-15	10:24	< 2	5	41	< 2	6	52	39	< 2	7
Acidity [mg/L as CaCO3]	11-Sep-15	10:24	11	< 2	< 2	168	14	< 2	< 2	3	< 2
Chloride [mg/L]	11-Sep-15	15:52	2	1	2	< 1	1	2	< 1	1	< 1
Sulphate [mg/L]	11-Sep-15	09:18	59	41	34	290	48	46	66	98	170
Mercury [mg/L]	11-Sep-15	10:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Aluminum [mg/L]	15-Sep-15	08:28	0.313	0.016	0.007	7.89	0.560	0.476	0.948	0.109	0.175
Arsenic [mg/L]	11-Sep-15	16:24	0.0008	0.0048	0.0023	0.0148	0.0369	0.0646	0.0208	0.0004	0.0057
Silver [mg/L]	11-Sep-15	16:24	0.000308	0.000034	0.000020	0.000164	0.000008	0.000004	< 0.000002	0.000140	0.000007
Boron [mg/L]	11-Sep-15	16:24	0.0702	0.0282	0.196	0.0368	0.0163	0.0150	0.0174	0.0414	0.0187
Barium [mg/L]	11-Sep-15	16:24	0.0837	0.00802	0.00756	0.180	0.00436	0.00481	0.00418	0.0862	0.0107
Beryllium [mg/L]	11-Sep-15	16:24	0.000036	< 0.000007	< 0.000007	0.00142	< 0.000007	< 0.000007	< 0.000007	0.000016	< 0.000007
Bismuth [mg/L]	11-Sep-15	16:24	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	11-Sep-15	16:24	7.63	5.82	5.58	33.9	21.4	28.8	32.6	24.7	64.7
Cadmium [mg/L]	11-Sep-15	16:25	0.000298	0.000015	0.000025	0.000294	0.000011	0.000013	0.000016	0.000588	0.000007
Cobalt [mg/L]	11-Sep-15	16:25	0.0116	0.000279	0.000368	0.0558	0.000016	0.000017	0.000004	0.00587	0.000016

OnLine LIMS

0000526164

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LR Report : **CA15053-SEP15**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Chromium [mg/L]	11-Sep-15	16:25	0.00793	0.00963	0.0139	0.0024	0.0124	0.0116	0.00829	0.00622	0.0137
Copper [mg/L]	11-Sep-15	16:25	0.00347	0.00042	0.00025	0.166	0.00046	0.00038	0.00033	0.00108	0.00030
Iron [mg/L]	11-Sep-15	16:25	< 0.007	< 0.007	< 0.007	4.21	0.028	0.008	0.008	< 0.007	< 0.007
Potassium [mg/L]	11-Sep-15	16:25	14.2	12.8	9.44	30.9	20.4	14.9	19.0	19.8	16.3
Lithium [mg/L]	11-Sep-15	16:25	0.00557	0.00236	0.00754	0.0151	0.00720	0.00572	0.00700	0.00193	0.00596
Magnesium [mg/L]	11-Sep-15	16:25	4.73	4.30	3.33	7.90	0.263	0.653	0.032	5.13	2.93
Manganese [mg/L]	11-Sep-15	16:25	0.502	0.0327	0.0997	2.70	0.00139	0.00457	0.00049	0.893	0.00116
Molybdenum [mg/L]	11-Sep-15	16:26	0.0265	0.0267	0.0287	0.00052	0.0256	0.0243	0.0266	0.0286	0.0152
Sodium [mg/L]	11-Sep-15	16:26	2.55	1.37	1.92	1.21	2.17	2.01	1.30	2.00	2.68
Nickel [mg/L]	11-Sep-15	16:26	0.0895	0.0002	0.0002	0.147	< 0.0001	0.0001	< 0.0001	0.0759	0.0002
Lead [mg/L]	11-Sep-15	16:26	0.00016	0.00002	< 0.00001	0.0113	0.00005	0.00004	0.00004	0.00011	0.00002
Phosphorus [mg/L]	11-Sep-15	16:26	< 0.003	< 0.003	< 0.003	< 0.003	0.018	0.014	0.006	< 0.003	< 0.003
Sulfur [mg/L]	11-Sep-15	16:26	19.8	13.7	11.5	105	16.1	16.0	23.4	36.6	63.1
Antimony [mg/L]	11-Sep-15	16:26	0.0006	0.0010	0.0011	0.0005	0.0009	0.0008	0.0009	0.0004	0.0011
Selenium [mg/L]	11-Sep-15	16:26	0.00161	0.00128	0.00138	0.00313	0.00115	0.00092	0.00155	0.00162	0.00254
Tin [mg/L]	11-Sep-15	16:26	0.00023	0.00013	0.00019	0.00014	0.00018	0.00013	0.00017	0.00010	0.00005
Strontium [mg/L]	11-Sep-15	16:26	0.0298	0.0136	0.0181	0.0404	0.0207	0.0337	0.0331	0.0613	0.0840
Titanium [mg/L]	11-Sep-15	16:26	0.0104	0.00124	0.00101	0.00164	0.00657	0.00416	0.00401	0.00252	0.00015
Thallium [mg/L]	11-Sep-15	16:26	0.000193	0.000039	0.000069	0.000525	0.000076	0.000060	0.000042	0.000231	0.000070
Uranium [mg/L]	11-Sep-15	16:27	0.000240	0.000190	0.000208	0.00362	0.000314	0.000460	0.000326	0.000087	0.000074
Vanadium [mg/L]	11-Sep-15	16:27	0.0271	0.0175	0.0211	0.00013	0.0246	0.0159	0.0156	0.0190	0.00636
Zinc [mg/L]	11-Sep-15	16:27	0.014	< 0.002	< 0.002	0.163	< 0.002	< 0.002	< 0.002	0.007	< 0.002

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	2.5	2.5	2.5	2.6	2.5
Vol H2O2 [mL]	250	250	250	250	250
pH [no unit]	7.23	3.78	8.15	7.62	10.2
Conductivity [µS/cm]	164	260	214	374	138
Alkalinity [mg/L as CaCO3]	10	< 2	58	15	58
Acidity [mg/L as CaCO3]	< 2	40	< 2	< 2	< 2
Chloride [mg/L]	1	2	< 1	< 1	2
Sulphate [mg/L]	55	85	47	140	4

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LR Report : **CA15053-SEP15**

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Aluminum [mg/L]	0.099	3.96	0.566	0.594	0.156
Arsenic [mg/L]	0.0171	0.0006	0.0355	0.154	0.0232
Silver [mg/L]	0.000005	0.000257	0.000008	0.000007	0.000003
Boron [mg/L]	0.0650	0.0581	0.0129	0.0152	0.0693
Barium [mg/L]	0.00421	0.144	0.00382	0.00625	0.00569
Beryllium [mg/L]	< 0.000007	0.000604	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	16.2	9.62	31.7	50.1	17.7
Cadmium [mg/L]	0.000019	0.000352	0.000015	0.000004	< 0.000003
Cobalt [mg/L]	0.000062	0.0684	0.000014	0.000012	0.000012
Chromium [mg/L]	0.0179	0.00779	0.00947	0.253	0.230
Copper [mg/L]	0.00028	0.0460	0.00065	0.00036	0.00019
Iron [mg/L]	0.009	0.068	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	14.0	11.6	15.6	31.0	16.8
Lithium [mg/L]	0.00649	0.0110	0.00445	0.00149	< 0.000006
Magnesium [mg/L]	2.04	4.93	0.101	0.048	0.013
Manganese [mg/L]	0.00177	1.43	0.00148	0.00061	0.00020
Molybdenum [mg/L]	0.0265	0.0188	0.0221	0.00144	0.00086
Sodium [mg/L]	1.88	2.19	1.93	4.67	1.01
Nickel [mg/L]	0.0002	0.176	0.0001	0.0002	0.0001
Lead [mg/L]	0.00002	0.00135	0.00004	< 0.00001	< 0.00001
Phosphorus [mg/L]	< 0.003	< 0.003	0.010	< 0.003	< 0.003
Sulfur [mg/L]	19.2	31.3	16.6	52.1	2.3
Antimony [mg/L]	0.0011	0.0004	0.0010	0.0082	0.0008
Selenium [mg/L]	0.00159	0.00107	0.00114	0.00241	0.00022
Tin [mg/L]	0.00012	0.00032	0.00011	0.00007	0.00028
Strontium [mg/L]	0.0210	0.0323	0.0697	0.0898	0.0624
Titanium [mg/L]	0.00127	0.148	0.00417	0.00016	0.00013
Thallium [mg/L]	0.000047	0.000244	0.000086	0.000032	0.000014
Uranium [mg/L]	0.000229	0.000371	0.000297	0.000023	0.000044
Vanadium [mg/L]	0.0212	0.0230	0.0213	0.0221	0.0277
Zinc [mg/L]	< 0.002	0.142	< 0.002	< 0.002	< 0.002

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LR Report : **CA15053-SEP15**

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Project Specialist
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13-October-2015

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Date Rec. : 03 September 2015
LR Report: **CA15054-SEP15**
Reference: Project Number:1520817

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	10-Sep-15	12:09	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5
Vol H2O2 [mL]	10-Sep-15	12:09	250	250	250	250	250	250	250	250	250
pH [no unit]	14-Sep-15	14:21	5.86	6.85	6.65	3.79	7.14	7.20	6.74	5.58	6.43
Conductivity [µS/cm]	14-Sep-15	14:21	16	19	17	107	50	48	72	22	66
Alkalinity [mg/L as CaCO3]	14-Sep-15	14:21	2	7	5	< 2	8	20	5	< 2	3
Acidity [mg/L as CaCO3]	14-Sep-15	14:21	103	6	11	61	< 2	20	2	11	< 2
Chloride [mg/L]	14-Sep-15	08:25	8	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sulphate [mg/L]	14-Sep-15	08:25	2	1	1	22	10	7	21	5	21
Mercury [mg/L]	14-Sep-15	08:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Aluminum [mg/L]	15-Sep-15	09:40	0.065	0.050	0.023	0.366	0.041	0.036	0.018	0.007	0.017
Arsenic [mg/L]	15-Sep-15	09:40	0.0052	0.0071	0.0025	< 0.0002	0.0148	0.0279	0.0023	0.0005	0.0038
Silver [mg/L]	15-Sep-15	09:40	0.000029	0.000006	0.000007	0.000047	0.000004	0.000004	0.000010	0.000014	0.000005
Boron [mg/L]	15-Sep-15	09:40	0.0331	0.0149	0.0145	0.0144	0.0124	0.0126	0.0147	0.0263	0.0111
Barium [mg/L]	15-Sep-15	09:40	0.00192	0.00135	0.00091	0.0284	0.00176	0.00195	0.00351	0.00193	0.00218
Beryllium [mg/L]	15-Sep-15	09:40	< 0.000007	< 0.000007	< 0.000007	0.000058	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	15-Sep-15	09:40	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	15-Sep-15	09:40	0.91	0.69	0.98	3.60	3.85	4.73	6.88	1.48	7.15
Cadmium [mg/L]	15-Sep-15	09:40	0.000015	0.000012	< 0.000003	0.000018	< 0.000003	0.000003	0.000004	0.000010	0.000007
Cobalt [mg/L]	15-Sep-15	09:40	0.000162	0.000084	0.000046	0.0131	0.000034	0.000023	0.000075	0.000210	0.000040

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Sequential NAG Leachate Test-Phase 2

LR Report : **CA15054-SEP15**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Chromium [mg/L]	15-Sep-15	09:40	0.00865	0.00305	0.00472	0.00620	0.00588	0.00647	0.00343	0.0116	0.0172
Copper [mg/L]	15-Sep-15	09:40	0.00106	0.00057	0.00040	0.00114	0.00072	0.00054	0.00047	0.00046	0.00070
Iron [mg/L]	15-Sep-15	09:39	0.049	0.045	0.012	0.016	0.008	< 0.007	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	15-Sep-15	09:39	2.18	3.50	1.87	1.82	6.73	4.41	6.19	2.35	2.95
Lithium [mg/L]	15-Sep-15	09:39	0.000181	0.000252	0.000702	0.00199	0.000275	0.000177	0.000609	0.000041	0.000292
Magnesium [mg/L]	15-Sep-15	09:39	0.254	0.593	0.528	1.12	0.624	0.961	0.657	0.313	1.21
Manganese [mg/L]	15-Sep-15	09:39	0.0420	0.0172	0.0279	0.235	0.00244	0.00633	0.00760	0.0369	0.00295
Molybdenum [mg/L]	15-Sep-15	09:39	0.00201	0.00076	0.00072	0.00586	0.00073	0.00076	0.00113	0.00100	0.00261
Sodium [mg/L]	15-Sep-15	09:39	0.28	0.31	0.40	0.09	0.66	0.65	0.45	0.25	0.54
Nickel [mg/L]	15-Sep-15	09:39	0.0004	0.0002	< 0.0001	0.0092	0.0001	< 0.0001	0.0001	0.0003	< 0.0001
Lead [mg/L]	15-Sep-15	09:39	0.00016	0.00009	0.00003	0.00064	0.00004	0.00002	0.00004	0.00001	0.00001
Phosphorus [mg/L]	15-Sep-15	09:39	0.006	0.008	0.006	< 0.003	0.006	0.008	< 0.003	< 0.003	< 0.003
Sulfur [mg/L]	15-Sep-15	09:39	0.3	< 0.1	< 0.1	8.0	2.9	1.6	6.7	1.3	6.5
Antimony [mg/L]	15-Sep-15	09:39	0.0010	0.0008	0.0008	0.0006	0.0008	0.0006	0.0010	0.0005	0.0010
Selenium [mg/L]	15-Sep-15	09:39	0.00011	< 0.00004	< 0.00004	0.00040	0.00024	0.00013	0.00040	0.00009	0.00030
Tin [mg/L]	15-Sep-15	09:39	0.00087	0.00056	0.00030	0.00022	0.00017	0.00013	0.00014	0.00010	0.00008
Strontium [mg/L]	15-Sep-15	09:39	0.00126	0.00208	0.00314	0.00784	0.00580	0.00889	0.0128	0.00243	0.0137
Titanium [mg/L]	15-Sep-15	09:39	0.0613	0.00866	0.00456	0.00139	0.00186	0.00160	0.00083	0.00258	0.00019
Thallium [mg/L]	15-Sep-15	09:39	0.000033	0.000015	0.000015	0.000059	0.000031	0.000029	0.000055	0.000024	0.000023
Uranium [mg/L]	15-Sep-15	09:39	0.000804	0.000358	0.000226	0.000016	0.000177	0.000312	0.000094	0.000041	0.000034
Vanadium [mg/L]	15-Sep-15	09:39	0.00905	0.00466	0.00552	0.00952	0.0106	0.00668	0.00545	0.00885	0.00494
Zinc [mg/L]	15-Sep-15	09:39	< 0.002	< 0.002	< 0.002	0.009	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	2.5	2.5	2.5	2.6	2.5
Vol H2O2 [mL]	250	250	250	250	250
pH [no unit]	7.04	5.29	6.70	11.0	9.71
Conductivity [µS/cm]	27	28	61	308	92
Alkalinity [mg/L as CaCO3]	9	< 2	4	131	44
Acidity [mg/L as CaCO3]	< 2	137	7	< 2	< 2
Chloride [mg/L]	< 1	< 10	< 1	1	2
Sulphate [mg/L]	2	7	18	12	3

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LR Report : **CA15054-SEP15**

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Aluminum [mg/L]	0.053	0.056	0.011	1.71	0.119
Arsenic [mg/L]	0.0115	0.0010	0.0038	0.0042	0.0303
Silver [mg/L]	0.000003	0.000013	0.000005	0.000002	0.000002
Boron [mg/L]	0.0138	0.0249	0.0103	0.0424	0.154
Barium [mg/L]	0.00081	0.00166	0.00259	0.00231	0.00337
Beryllium [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	2.09	2.59	6.25	55.4	18.4
Cadmium [mg/L]	< 0.000003	0.000007	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000022	0.000572	0.000078	< 0.000004	0.000010
Chromium [mg/L]	0.00686	0.00758	0.00402	0.0710	0.0576
Copper [mg/L]	0.00050	0.00089	0.00042	0.00066	0.00029
Iron [mg/L]	< 0.007	0.012	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	3.17	1.28	4.24	6.34	2.33
Lithium [mg/L]	0.000469	0.000452	0.000333	0.000248	0.000246
Magnesium [mg/L]	0.592	0.351	0.819	0.005	0.016
Manganese [mg/L]	0.00156	0.254	0.00920	0.00012	0.00021
Molybdenum [mg/L]	0.00058	0.00058	0.00060	0.00030	0.00019
Sodium [mg/L]	0.49	0.22	0.59	0.42	0.20
Nickel [mg/L]	< 0.0001	0.0013	0.0002	0.0001	0.0001
Lead [mg/L]	0.00008	0.00004	0.00003	0.00018	0.00001
Phosphorus [mg/L]	0.013	0.006	< 0.003	< 0.003	0.003
Sulfur [mg/L]	< 0.1	2.3	5.2	3.2	< 0.1
Antimony [mg/L]	0.0009	0.0006	0.0010	0.0019	0.0007
Selenium [mg/L]	0.00005	0.00010	0.00036	0.00016	0.00011
Tin [mg/L]	0.00011	0.00026	0.00015	0.00024	0.00037
Strontium [mg/L]	0.00372	0.00168	0.0230	0.0774	0.0405
Titanium [mg/L]	0.00104	0.0520	0.00102	0.00008	0.00017
Thallium [mg/L]	0.000018	0.000025	0.000052	0.000018	< 0.000005
Uranium [mg/L]	0.000172	0.000279	0.000106	0.000004	0.000005
Vanadium [mg/L]	0.00656	0.00704	0.00779	0.00867	0.0234
Zinc [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002

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LR Report : **CA15054-SEP15**

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13-October-2015

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Date Rec. : 03 September 2015
LR Report: **CA15055-SEP15**
Reference: Project Number:1520817

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	11-Sep-15	10:19	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5
Vol H2O2 [mL]	11-Sep-15	10:19	250	250	250	250	250	250	250	250	250
pH [no unit]	15-Sep-15	10:23	5.48	6.58	6.39	4.59	6.96	6.97	6.76	5.92	6.74
Conductivity [µS/cm]	15-Sep-15	10:23	12	14	13	30	25	19	18	11	16
Alkalinity [mg/L as CaCO3]	15-Sep-15	10:23	2	5	5	< 2	10	7	6	3	4
Acidity [mg/L as CaCO3]	15-Sep-15	10:23	254	32	68	14	44	15	15	66	< 2
Chloride [mg/L]	16-Sep-15	13:02	< 1	2	3	2	5	3	3	< 1	< 1
Sulphate [mg/L]	16-Sep-15	08:41	2	1	1	7	2	1	1	1	2
Mercury [mg/L]	15-Sep-15	08:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Aluminum [mg/L]	15-Sep-15	14:18	0.105	0.103	0.016	0.079	0.037	0.028	0.025	0.040	0.017
Arsenic [mg/L]	15-Sep-15	14:18	0.0105	0.0087	0.0029	< 0.0002	0.0089	0.0190	0.0023	0.0035	0.0042
Silver [mg/L]	15-Sep-15	14:18	0.000024	0.000005	0.000007	0.000012	0.000005	0.000003	0.000011	0.000006	0.000004
Boron [mg/L]	15-Sep-15	14:18	0.0351	0.0187	0.0117	0.0148	0.0119	0.0193	0.0130	0.0254	0.0099
Barium [mg/L]	15-Sep-15	14:18	0.00201	0.00194	0.00105	0.00447	0.00158	0.00112	0.00143	0.00111	0.00054
Beryllium [mg/L]	15-Sep-15	14:17	< 0.000007	< 0.000007	< 0.000007	0.000014	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	15-Sep-15	14:17	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	15-Sep-15	14:17	0.77	0.66	1.11	1.51	1.95	1.80	1.70	0.80	1.57
Cadmium [mg/L]	15-Sep-15	14:17	0.000007	0.000003	0.000009	0.000004	0.000005	0.000005	0.000008	0.000005	< 0.000003
Cobalt [mg/L]	15-Sep-15	14:17	0.000169	0.000143	0.000032	0.000959	0.000038	0.000027	0.000040	0.000065	0.000019

OnLine LIMS

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Sequential NAG Leachate Test-Phase 3

LR Report : **CA15055-SEP15**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Chromium [mg/L]	15-Sep-15	14:17	0.00336	0.00237	0.00295	0.00362	0.00335	0.00449	0.00256	0.00652	0.00752
Copper [mg/L]	15-Sep-15	14:17	0.00058	0.00073	0.00336	0.00050	0.00056	0.00041	0.00032	0.00063	0.00045
Iron [mg/L]	15-Sep-15	14:17	0.084	0.119	0.011	< 0.007	0.022	0.013	0.016	0.041	< 0.007
Potassium [mg/L]	15-Sep-15	14:17	1.68	2.49	1.34	0.588	3.51	1.84	2.33	1.75	0.986
Lithium [mg/L]	15-Sep-15	14:17	0.000213	0.000178	0.000418	0.00102	0.000102	0.000061	0.000085	0.000044	0.000047
Magnesium [mg/L]	15-Sep-15	14:17	0.206	0.513	0.442	0.483	0.560	0.547	0.315	0.188	0.402
Manganese [mg/L]	15-Sep-15	14:17	0.0326	0.0409	0.0804	0.100	0.0111	0.00810	0.0129	0.0209	0.00388
Molybdenum [mg/L]	15-Sep-15	14:17	0.00109	0.00034	0.00034	0.00075	0.00029	0.00028	0.00031	0.00030	0.00070
Sodium [mg/L]	15-Sep-15	14:17	0.20	0.22	0.25	0.06	0.40	0.45	0.25	0.16	0.29
Nickel [mg/L]	15-Sep-15	14:17	0.0003	0.0003	0.0001	0.0012	0.0002	0.0001	0.0002	0.0002	< 0.0001
Lead [mg/L]	15-Sep-15	14:17	0.00021	0.00023	0.00020	0.00003	0.00003	0.00004	0.00007	0.00008	0.00002
Phosphorus [mg/L]	15-Sep-15	14:17	0.034	0.021	0.010	0.003	0.013	0.017	0.008	0.009	0.005
Sulfur [mg/L]	15-Sep-15	14:17	0.4	< 0.1	0.2	2.9	0.3	< 0.1	0.2	0.1	0.2
Antimony [mg/L]	15-Sep-15	14:17	0.0011	0.0007	0.0006	0.0005	0.0007	0.0006	0.0009	0.0006	0.0010
Selenium [mg/L]	15-Sep-15	14:17	< 0.00004	< 0.00004	< 0.00004	0.00019	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Tin [mg/L]	15-Sep-15	14:17	0.00152	0.00131	0.00083	0.00023	0.00024	0.00034	0.00033	0.00061	0.00020
Strontium [mg/L]	15-Sep-15	14:17	0.00118	0.00212	0.00383	0.00371	0.00461	0.00456	0.00434	0.00125	0.00422
Titanium [mg/L]	15-Sep-15	14:17	0.234	0.0316	0.0182	0.00043	0.00578	0.00423	0.00252	0.0205	0.00033
Thallium [mg/L]	15-Sep-15	14:17	0.000037	0.000018	0.000022	0.000021	0.000035	0.000019	0.000025	0.000019	0.000006
Uranium [mg/L]	15-Sep-15	14:17	0.00138	0.000850	0.000585	0.000006	0.000267	0.000323	0.000104	0.000422	0.000016
Vanadium [mg/L]	15-Sep-15	14:17	0.00346	0.00301	0.00259	0.00238	0.00532	0.00386	0.00350	0.00721	0.00247
Zinc [mg/L]	15-Sep-15	14:17	< 0.002	< 0.002	0.004	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	2.5	2.5	2.5	2.6	2.5
Vol H2O2 [mL]	250	250	250	250	250
pH [no unit]	6.95	5.55	6.54	11.2	8.44
Conductivity [µS/cm]	19	9	20	356	142
Alkalinity [mg/L as CaCO3]	8	2	5	113	78
Acidity [mg/L as CaCO3]	20	148	23	< 2	< 2
Chloride [mg/L]	< 1	< 1	< 1	< 1	1
Sulphate [mg/L]	1	2	3	4	2

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LR Report : **CA15055-SEP15**

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Mercury [mg/L]	< 0.00001	< 0.00001	0.00001	0.00002	< 0.00001
Aluminum [mg/L]	0.025	0.112	0.012	1.07	0.012
Arsenic [mg/L]	0.0039	0.0030	0.0040	0.0107	0.104
Silver [mg/L]	0.000005	0.000004	0.000006	0.000003	< 0.000002
Boron [mg/L]	0.0103	0.0278	0.0101	0.200	0.0591
Barium [mg/L]	0.00091	0.00115	0.00128	0.00101	0.00844
Beryllium [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	1.56	0.83	1.91	46.7	28.9
Cadmium [mg/L]	0.000008	< 0.000003	0.000005	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000030	0.000097	0.000034	< 0.000004	0.000029
Chromium [mg/L]	0.00367	0.00547	0.00286	0.0513	0.0290
Copper [mg/L]	0.00041	0.00073	0.00043	0.00018	0.00096
Iron [mg/L]	0.012	0.111	0.009	< 0.007	< 0.007
Potassium [mg/L]	1.86	0.726	1.71	3.06	0.977
Lithium [mg/L]	0.000192	0.000151	0.000062	0.000263	0.00236
Magnesium [mg/L]	0.646	0.152	0.438	0.005	1.22
Manganese [mg/L]	0.00688	0.0680	0.0189	0.00013	0.00814
Molybdenum [mg/L]	0.00026	0.00027	0.00026	0.00016	0.00023
Sodium [mg/L]	0.33	0.15	0.33	0.27	0.08
Nickel [mg/L]	0.0001	0.0002	0.0002	< 0.0001	0.0003
Lead [mg/L]	0.00007	0.00008	0.00002	0.00002	0.00003
Phosphorus [mg/L]	0.014	0.023	0.006	< 0.003	0.030
Sulfur [mg/L]	0.2	0.2	0.9	1.2	0.3
Antimony [mg/L]	0.0007	0.0006	0.0009	0.0022	0.0005
Selenium [mg/L]	< 0.00004	< 0.00004	0.00006	0.00007	0.00009
Tin [mg/L]	0.00024	0.00147	0.00027	0.00019	0.00018
Strontium [mg/L]	0.00389	0.00098	0.0100	0.0555	0.0504
Titanium [mg/L]	0.00285	0.144	0.00438	0.00016	0.00031
Thallium [mg/L]	0.000021	0.000012	0.000033	0.000011	0.000017
Uranium [mg/L]	0.000209	0.000468	0.000205	0.000004	0.000007
Vanadium [mg/L]	0.00354	0.00370	0.00478	0.0176	0.00661
Zinc [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

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LR Report : **CA15055-SEP15**

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

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13-October-2015

Agnico Eagle Mines Limited
Attn : Serge Ouellet

10200, route de Pressac, Rouyn-Noranda
, J0Y 1C0
Phone: (819) 759-3700 x5820, Fax:(819) 759-3663

Date Rec. : 03 September 2015
LR Report: **CA15056-SEP15**
Reference: Project Number:1520817

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	14-Sep-15	11:21	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5
Vol H2O2 [mL]	14-Sep-15	11:21	250	250	250	250	250	250	250	250	250
pH [no unit]	16-Sep-15	10:33	5.19	6.00	5.73	4.69	6.58	6.55	6.36	5.53	6.45
Conductivity [µS/cm]	16-Sep-15	10:33	10	13	13	20	16	15	13	12	14
Alkalinity [mg/L as CaCO3]	16-Sep-15	10:33	2	4	4	< 2	5	5	3	2	4
Acidity [mg/L as CaCO3]	16-Sep-15	10:33	303	181	328	6	28	41	53	154	3
Chloride [mg/L]	17-Sep-15	13:25	< 10	12	17	< 1	1	3	2	< 10	< 1
Sulphate [mg/L]	16-Sep-15	08:41	2	1	1	4	1	1	1	1	1
Mercury [mg/L]	15-Sep-15	12:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Aluminum [mg/L]	16-Sep-15	12:10	0.121	0.066	0.019	0.031	0.071	0.041	0.049	0.069	0.009
Arsenic [mg/L]	16-Sep-15	12:10	0.0111	0.0143	0.0052	0.0007	0.0096	0.0209	0.0040	0.0063	0.0013
Silver [mg/L]	16-Sep-15	12:10	0.000159	0.000010	0.000014	0.000006	0.000008	0.000006	0.000014	0.000012	0.000004
Boron [mg/L]	16-Sep-15	12:10	0.0235	0.0130	0.0063	0.0179	0.0181	0.0211	0.0126	0.0198	0.0077
Barium [mg/L]	16-Sep-15	12:10	0.00244	0.00221	0.00168	0.00193	0.00178	0.00166	0.00186	0.00165	0.00075
Beryllium [mg/L]	16-Sep-15	12:10	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	16-Sep-15	12:10	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	16-Sep-15	12:10	0.93	0.87	1.24	1.04	1.25	1.41	1.37	0.94	1.48
Cadmium [mg/L]	16-Sep-15	12:10	0.000006	0.000010	0.000021	< 0.000003	< 0.000003	0.000003	0.000004	0.000003	0.000005
Cobalt [mg/L]	16-Sep-15	12:10	0.000227	0.000122	0.000046	0.000311	0.000087	0.000046	0.000074	0.000109	0.000030

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Sequential NAG Leachate Test-Phase 4

LR Report : **CA15056-SEP15**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Chromium [mg/L]	16-Sep-15	12:10	0.00246	0.00219	0.00231	0.00119	0.00346	0.00297	0.00232	0.00272	0.00561
Copper [mg/L]	16-Sep-15	12:10	0.00095	0.00046	0.00019	0.00034	0.00041	0.00078	0.00099	0.00047	0.00028
Iron [mg/L]	16-Sep-15	12:10	0.084	0.074	0.016	< 0.007	0.055	0.026	0.034	0.062	< 0.007
Potassium [mg/L]	16-Sep-15	12:10	1.24	2.15	0.957	0.360	2.28	1.36	1.64	1.56	0.869
Lithium [mg/L]	16-Sep-15	12:10	0.000227	0.000128	0.000345	0.000666	0.000040	0.000022	0.000035	0.000032	< 0.000006
Magnesium [mg/L]	16-Sep-15	12:10	0.200	0.497	0.322	0.347	0.416	0.473	0.296	0.207	0.408
Manganese [mg/L]	16-Sep-15	12:10	0.0319	0.0919	0.129	0.0778	0.0126	0.0195	0.0274	0.0273	0.0312
Molybdenum [mg/L]	16-Sep-15	12:10	0.00548	0.00127	0.00101	0.00050	0.00047	0.00055	0.00037	0.00045	0.00032
Sodium [mg/L]	16-Sep-15	12:10	0.17	0.16	0.17	0.07	0.35	0.33	0.19	0.14	0.23
Nickel [mg/L]	16-Sep-15	12:10	0.0004	0.0002	0.0001	0.0006	0.0002	0.0001	0.0002	0.0002	< 0.0001
Lead [mg/L]	16-Sep-15	12:10	0.00026	0.00015	0.00003	0.00002	0.00006	0.00007	0.00019	0.00008	< 0.00001
Phosphorus [mg/L]	16-Sep-15	12:10	0.045	0.040	0.016	< 0.003	0.015	0.020	0.010	0.017	< 0.003
Sulfur [mg/L]	16-Sep-15	12:10	4.0	3.7	3.7	4.7	3.0	2.9	3.1	3.4	2.9
Antimony [mg/L]	16-Sep-15	12:10	0.0010	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0004	0.0006
Selenium [mg/L]	16-Sep-15	12:10	0.00006	< 0.00004	< 0.00004	0.00015	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Tin [mg/L]	16-Sep-15	12:11	0.00220	0.00127	0.00039	0.00038	0.00073	0.00057	0.00074	0.00105	0.00022
Strontium [mg/L]	16-Sep-15	12:10	0.00131	0.00264	0.00437	0.00269	0.00332	0.00398	0.00379	0.00144	0.00490
Titanium [mg/L]	16-Sep-15	12:10	0.354	0.0991	0.0364	0.00073	0.0152	0.0188	0.0103	0.0537	0.00082
Thallium [mg/L]	16-Sep-15	12:10	0.000037	0.000026	0.000023	0.000011	0.000024	0.000018	0.000023	0.000021	0.000011
Uranium [mg/L]	16-Sep-15	12:10	0.00168	0.00170	0.00110	0.000060	0.000324	0.000653	0.000276	0.000745	0.000043
Vanadium [mg/L]	16-Sep-15	12:10	0.00266	0.00250	0.00194	0.00083	0.00533	0.00291	0.00276	0.00307	0.00133
Zinc [mg/L]	16-Sep-15	12:10	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	2.5	2.5	2.5	2.6	2.5
Vol H2O2 [mL]	250	250	250	250	250
pH [no unit]	6.52	5.14	6.39	10.3	7.40
Conductivity [µS/cm]	14	9	13	152	41
Alkalinity [mg/L as CaCO3]	4	2	4	75	17
Acidity [mg/L as CaCO3]	24	269	21	< 2	< 2
Chloride [mg/L]	3	8	4	< 1	2
Sulphate [mg/L]	1	2	1	3	2

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LR Report : **CA15056-SEP15**

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Aluminum [mg/L]	0.048	0.096	0.059	0.803	0.019
Arsenic [mg/L]	0.0037	0.0046	0.0079	0.0228	0.287
Silver [mg/L]	0.000007	0.000007	0.000007	0.000003	0.000002
Boron [mg/L]	0.0116	0.0210	0.0115	0.568	0.0679
Barium [mg/L]	0.00112	0.00120	0.00133	0.00032	0.00426
Beryllium [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	1.21	0.93	1.34	32.0	5.14
Cadmium [mg/L]	0.000021	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000068	0.000111	0.000090	< 0.000004	0.000210
Chromium [mg/L]	0.00331	0.00258	0.00273	0.0399	0.0456
Copper [mg/L]	0.00050	0.00077	0.00046	0.00063	0.00707
Iron [mg/L]	0.032	0.098	0.047	< 0.007	0.026
Potassium [mg/L]	1.18	0.660	1.09	1.93	0.594
Lithium [mg/L]	0.000075	0.000123	0.000025	0.000162	0.00195
Magnesium [mg/L]	0.484	0.150	0.338	0.003	2.06
Manganese [mg/L]	0.0108	0.0620	0.0190	0.00010	0.00404
Molybdenum [mg/L]	0.00028	0.00038	0.00025	0.00014	0.00025
Sodium [mg/L]	0.25	0.12	0.28	0.44	0.11
Nickel [mg/L]	0.0001	0.0002	0.0002	< 0.0001	0.0010
Lead [mg/L]	0.00006	0.00006	0.00009	< 0.00001	0.00003
Phosphorus [mg/L]	0.012	0.043	0.014	< 0.003	0.098
Sulfur [mg/L]	2.7	3.2	2.9	3.6	3.4
Antimony [mg/L]	0.0005	0.0004	0.0005	0.0018	0.0006
Selenium [mg/L]	< 0.00004	< 0.00004	< 0.00004	0.00005	0.00020
Tin [mg/L]	0.00053	0.00198	0.00086	0.00025	0.00095
Strontium [mg/L]	0.00323	0.00090	0.00648	0.0342	0.0130
Titanium [mg/L]	0.0118	0.284	0.0175	0.00034	0.00071
Thallium [mg/L]	0.000015	0.000016	0.000017	0.000005	0.000007
Uranium [mg/L]	0.000259	0.000700	0.000382	0.000010	0.000013
Vanadium [mg/L]	0.00308	0.00223	0.00435	0.02686	0.00372
Zinc [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.002

OnLine LIMS

0000526173

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LR Report : **CA15056-SEP15**

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

000052617 3

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22-September-2015

Agnico Eagle Mines Limited
Attn : Serge Ouellet

10200, route de Pressac, Rouyn-Noranda
, J0Y 1C0
Phone: (819) 759-3700 x5820, Fax:(819) 759-3663

Date Rec. : 09 September 2015
LR Report: **CA15122-SEP15**
Reference: PO 460193

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	**5: WTN-1**	**6: WTN-2**	**7: WTN-3**	**8: WTN-4**	**9: WTN-5**
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
SiO2 [%]	47.9	54.6	57.4	55.2	51.4
Al2O3 [%]	8.48	9.91	10.8	10.2	9.35
Fe2O3 [%]	19.4	11.2	8.93	11.3	14.5
MgO [%]	1.62	1.91	2.05	1.99	1.82
CaO [%]	0.66	0.78	0.85	0.78	0.71
Na2O [%]	1.00	1.20	1.34	1.19	1.10
K2O [%]	1.94	2.28	2.47	2.31	2.14
TiO2 [%]	0.31	0.36	0.40	0.36	0.34
P2O5 [%]	0.70	0.46	0.48	0.49	0.59
MnO [%]	0.15	0.18	0.06	0.10	0.13
Cr2O3 [%]	0.02	0.04	0.03	0.03	0.03
V2O5 [%]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LOI [%]	16.4	17.2	13.9	15.5	16.9
Sum [%]	98.6	100.1	98.7	99.3	99.0

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

0000526516

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13-October-2015

Agnico Eagle Mines Limited
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Date Rec. : 09 September 2015
LR Report: **CA15123-SEP15**
Reference: PO 460193

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Fluoride µg/g
3: Analysis Approval Date	18-Sep-15
4: Analysis Approval Time	15:30
5: WTN-1	14.4
6: WTN-2	18.0
7: WTN-3	24.8
8: WTN-4	16.6
9: WTN-5	15.9

Brian Graham B.Sc.
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26-November-2015

Agnico Eagle Mines Limited
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Phone: (819) 759-3700 x5820, Fax:(819) 759-3663

Date Rec. : 17 November 2015
LR Report: **CA15257-NOV15**
Reference: Whole Rock Analysis

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
SiO2 [%]	42.6	42.4	66.0	60.2	48.0	65.6
Al2O3 [%]	6.68	8.51	13.6	14.2	8.18	7.20
Fe2O3 [%]	11.7	15.3	7.69	6.88	9.48	14.8
MgO [%]	21.8	16.1	1.91	5.64	15.6	2.34
CaO [%]	5.56	6.23	1.58	2.69	6.33	1.66
Na2O [%]	0.10	0.82	2.16	2.39	1.05	0.52
K2O [%]	0.37	0.86	3.06	3.25	1.98	1.87
TiO2 [%]	0.34	0.39	0.41	0.52	0.45	0.22
P2O5 [%]	0.03	0.04	0.16	0.19	0.20	0.11
MnO [%]	0.26	0.49	0.12	0.11	0.17	0.27
Cr2O3 [%]	0.33	0.31	< 0.01	0.06	0.19	0.04
V2O5 [%]	0.02	0.03	< 0.01	0.02	0.01	< 0.01
LOI [%]	9.10	7.10	2.71	2.70	7.34	3.48
Sum [%]	99.0	98.5	99.4	98.8	99.0	98.2

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

0000653214

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11-December-2015

Agnico Eagle Mines Limited
Attn : Serge Ouellet

Date Rec. : 17 November 2015
LR Report: **CA15258-NOV15**

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Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Fluoride [µg/g]	01-Dec-15	11:14	41.8	82.0	225	224	203	216
Mercury [µg/g]	01-Dec-15	11:36	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aluminum [µg/g]	01-Dec-15	10:52	14000	18000	13000	17000	23000	14000
Silver [µg/g]	30-Nov-15	16:18	0.14	0.22	0.26	0.11	0.17	0.29
Arsenic [µg/g]	30-Nov-15	16:18	670	640	71	33	78	270
Boron [µg/g]	30-Nov-15	16:18	2	2	5	3	2	6
Barium [µg/g]	30-Nov-15	16:18	34	46	61	210	370	53
Beryllium [µg/g]	30-Nov-15	16:18	0.13	0.14	0.39	0.36	0.66	0.69
Bismuth [µg/g]	30-Nov-15	16:18	< 0.09	< 0.09	0.13	< 0.09	< 0.09	0.24
Calcium [µg/g]	01-Dec-15	10:52	26000	25000	5500	7700	32000	9000
Cadmium [µg/g]	30-Nov-15	16:18	0.05	0.07	0.12	0.12	0.10	0.09
Cobalt [µg/g]	30-Nov-15	16:18	60	62	8.8	16	29	12
Chromium [µg/g]	30-Nov-15	16:18	860	990	53	280	810	230
Copper [µg/g]	30-Nov-15	16:18	23	55	19	32	75	22
Iron [µg/g]	01-Dec-15	10:52	32000	55000	43000	34000	39000	70000
Potassium [µg/g]	01-Dec-15	10:52	3100	5600	4900	8900	15000	6500
Lithium [µg/g]	30-Nov-15	16:18	9	11	13	18	19	10

OnLine LIMS

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LR Report : **CA15258-NOV15**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Magnesium [µg/g]	01-Dec-15	10:52	29000	30000	7700	17000	36000	7400
Manganese [µg/g]	30-Nov-15	16:18	940	1200	630	500	790	930
Molybdenum [µg/g]	30-Nov-15	16:18	0.3	0.5	2.4	1.7	0.8	2.0
Sodium [µg/g]	01-Dec-15	10:52	35	84	190	170	90	110
Nickel [µg/g]	30-Nov-15	16:18	680	570	21	78	230	100
Phosphorus [µg/g]	01-Dec-15	10:52	110	150	660	750	860	460
Lead [µg/g]	30-Nov-15	16:18	1.3	2.1	8.0	8.8	4.9	10
Antimony [µg/g]	30-Nov-15	16:18	2.1	1.9	< 0.8	< 0.8	< 0.8	1.4
Selenium [µg/g]	30-Nov-15	16:18	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silicon [µg/g]	01-Dec-15	10:52	1100	1300	1400	1200	1400	1100
Tin [µg/g]	30-Nov-15	16:18	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Strontium [µg/g]	30-Nov-15	16:18	64	62	15	47	310	17
Titanium [µg/g]	30-Nov-15	16:18	310	520	560	1000	1400	610
Thallium [µg/g]	30-Nov-15	16:18	0.09	0.21	0.37	0.39	0.43	0.37
Uranium [µg/g]	30-Nov-15	16:18	0.048	0.26	1.9	1.7	0.63	0.84
Vanadium [µg/g]	30-Nov-15	16:18	39	47	22	48	58	27
Zinc [µg/g]	30-Nov-15	16:18	21	31	52	55	36	39

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

0000653323

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ABA - Modified Sobek

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17-February-2016

Date Rec. : 17 November 2015
LR Report: **CA15259-NOV15**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Paste pH	27-Nov-15	16:59	9.33	9.52	9.09	9.65	9.69	8.84
Fizz Rate [---]	27-Nov-15	16:59	3	3	1	2	3	1
Sample weight [g]	27-Nov-15	16:59	2.04	2.01	2.10	2.09	2.02	1.97
HCl Added [mL]	27-Nov-15	16:59	69.40	72.00	20.00	25.00	63.60	32.00
HCl [Normality]	27-Nov-15	16:59	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	27-Nov-15	16:59	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	27-Nov-15	16:59	29.53	31.76	13.45	14.26	20.23	20.93
Final pH	27-Nov-15	16:59	1.56	1.60	1.68	1.60	1.85	1.78
NP [t CaCO3/1000 t]	27-Nov-15	16:59	98	100	16	26	107	28
AP [t CaCO3/1000 t]	---	---	10.6	12.5	21.6	5.62	7.50	61.9
Net NP [t CaCO3/1000 t]	---	---	87.1	87.6	-5.96	20.1	99.9	-33.78
NP/AP [ratio]	---	---	9.20	8.01	0.72	4.57	14.3	0.45
Sulphur (total) [%]	27-Nov-15	18:14	0.408	0.519	1.05	0.272	0.261	2.54
Acid Leachable SO4-S [%]	---	---	0.07	0.12	0.36	0.09	0.02	0.56

OnLine LIMS

0000653248

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ABA - Modified Sobek

LR Report : **CA15259-NOV15**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Sulphide [%]	27-Nov-15	10:27	0.34	0.40	0.69	0.18	0.24	1.98
Carbon (total) [%]	26-Nov-15	11:45	1.17	1.17	0.413	0.198	1.18	0.896
Carbonate [%]	26-Nov-15	11:45	5.43	5.10	1.61	0.739	5.52	3.27
C(g) [%]	Nov26/15	---	< 0.01	0.02	0.30	0.02	0.05	0.60

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

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04-December-2015

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Date Rec. : 17 November 2015
LR Report: **CA15260-NOV15**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	24-Nov-15	09:08	200	200	200	200	200	200
Volume D.I. Water [mL]	24-Nov-15	09:08	800	800	800	800	800	800
Initial pH	24-Nov-15	09:08	9.60	9.69	9.43	9.74	9.86	9.73
Final pH	24-Nov-15	09:08	9.22	9.30	8.91	9.27	9.42	8.35
pH [no unit]	25-Nov-15	14:46	8.51	8.63	7.93	7.83	8.86	7.82
Alkalinity [mg/L as CaCO3]	25-Nov-15	14:46	45	45	34	18	45	53
Conductivity [uS/cm]	25-Nov-15	14:46	157	130	122	267	136	219
Fluoride [mg/L]	26-Nov-15	12:47	0.06	0.08	0.17	0.16	0.20	0.27
Chloride [mg/L]	25-Nov-15	15:23	9	8	7	5	4	< 1
Sulphate [mg/L]	25-Nov-15	15:23	16	6	17	94	12	50
Bromide [mg/L]	30-Nov-15	08:38	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nitrite (as N) [mg/L]	30-Nov-15	08:38	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Nitrate (as N) [mg/L]	30-Nov-15	08:38	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Chromium VI [ug/L]	26-Nov-15	10:54	0.6	0.4	< 0.2	< 0.2	0.3	< 0.2
Phosphorus (total reactive) [mg/L]	27-Nov-15	16:02	1.27	0.70	< 0.03	< 0.03	0.16	< 0.03
Mercury [mg/L]	26-Nov-15	08:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	26-Nov-15	14:33	0.000102	0.000010	0.000010	0.000014	0.000007	< 0.000002

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0000653255

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SFE -24hr 4:1 L/S ratio

LR Report : **CA15260-NOV15**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Aluminum [mg/L]	26-Nov-15	14:33	0.025	0.043	0.568	0.120	0.053	0.100
Arsenic [mg/L]	26-Nov-15	14:33	3.12	1.99	0.0260	0.105	0.433	0.0449
Barium [mg/L]	26-Nov-15	14:33	0.0339	0.00831	0.00271	0.0248	0.0852	0.00573
Boron [mg/L]	26-Nov-15	14:33	0.0226	0.0187	0.0144	0.0164	0.0145	0.0194
Beryllium [mg/L]	26-Nov-15	14:33	0.000019	0.000021	0.000022	0.000015	0.000014	0.000014
Bismuth [mg/L]	26-Nov-15	14:33	0.000023	0.000026	0.000025	0.000014	0.000016	< 0.000007
Calcium [mg/L]	26-Nov-15	14:32	8.64	6.61	10.9	24.1	6.00	23.4
Cadmium [mg/L]	26-Nov-15	14:32	0.000087	0.000027	0.000010	0.000033	0.000012	0.000003
Cobalt [mg/L]	26-Nov-15	14:32	0.000131	0.000040	0.000011	0.000024	0.000010	0.000065
Chromium [mg/L]	26-Nov-15	14:32	0.00068	0.00039	0.00008	0.00011	0.00021	0.00004
Copper [mg/L]	26-Nov-15	14:32	0.00057	0.00043	0.00037	0.00042	0.00044	0.00045
Iron [mg/L]	26-Nov-15	14:32	0.029	< 0.007	0.044	0.007	< 0.007	< 0.007
Potassium [mg/L]	26-Nov-15	14:32	25.9	21.7	12.6	28.6	27.1	21.1
Lithium [mg/L]	26-Nov-15	14:32	0.000248	0.000410	0.00248	0.00171	0.00146	0.00291
Magnesium [mg/L]	26-Nov-15	14:32	3.42	2.61	1.03	2.89	1.65	3.08
Manganese [mg/L]	26-Nov-15	14:32	0.00182	0.00055	0.00453	0.00105	0.00033	0.0217
Molybdenum [mg/L]	26-Nov-15	14:32	0.00042	0.00082	0.00075	0.00152	0.00132	0.00153
Sodium [mg/L]	26-Nov-15	14:32	1.24	2.31	3.82	4.55	1.88	2.84
Nickel [mg/L]	26-Nov-15	14:32	0.0028	0.0013	0.0001	0.0002	0.0002	0.0021
Phosphorus [mg/L]	26-Nov-15	14:32	0.034	0.004	0.011	0.011	0.012	< 0.003
Lead [mg/L]	26-Nov-15	14:32	0.00009	0.00013	0.00015	0.00012	0.00011	0.00012
Antimony [mg/L]	26-Nov-15	14:32	0.0285	0.0203	0.0028	0.0030	0.0042	0.0048
Selenium [mg/L]	26-Nov-15	14:32	0.00060	0.00023	0.00034	0.00037	0.00038	0.00043
Silicon [mg/L]	26-Nov-15	14:32	5.79	5.58	2.21	5.02	5.79	2.58
Tin [mg/L]	26-Nov-15	14:32	0.00013	0.00012	0.00015	0.00014	0.00018	0.00007
Strontium [mg/L]	26-Nov-15	14:32	0.0664	0.0451	0.0162	0.133	0.0540	0.0470
Titanium [mg/L]	26-Nov-15	14:32	0.00024	0.00006	0.00100	0.00008	0.00018	0.00021
Thallium [mg/L]	26-Nov-15	14:32	0.000055	0.000034	0.000028	0.000048	0.000052	0.000031
Uranium [mg/L]	26-Nov-15	14:32	0.000012	0.000026	0.000769	0.000184	0.000041	0.000537
Vanadium [mg/L]	26-Nov-15	14:32	0.0114	0.0106	0.00103	0.00666	0.0105	0.00022
Zinc [mg/L]	26-Nov-15	14:32	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

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SFE -24hr 4:1 L/S ratio

LR Report : **CA15260-NOV15**

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

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08-January-2016

Agnico Eagle Mines Limited
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Date Rec. : 22 December 2015
LR Report: **CA15278-DEC15**
Reference: Project Number 1520817

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ15-433-01	6: AMQ15-433-02	7: AMQ15-433-03	8: AMQ15-438-01	9: AMQ15-438-02	10: AMQ15-438-03	11: AMQ15-438-04	12: AMQ15-481-01	13: AMQ15-481-02
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Paste pH	24-Dec-15	13:03	8.56	9.36	9.79	9.90	9.35	9.39	9.94	10.12	10.07
Fizz Rate [---]	24-Dec-15	13:03	1	1	3	2	2	2	2	2	2
Sample weight [g]	24-Dec-15	13:03	1.89	1.95	1.98	1.90	2.00	1.94	1.88	1.89	1.90
HCl Added [mL]	24-Dec-15	13:03	28.40	29.90	29.60	43.70	81.90	38.20	41.70	37.30	39.50
HCl [Normality]	24-Dec-15	13:03	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	24-Dec-15	13:03	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	24-Dec-15	13:03	14.51	16.46	15.77	16.48	20.50	19.42	21.52	15.25	18.41
Final pH	24-Dec-15	13:03	1.88	1.88	1.90	1.91	1.77	1.81	1.82	1.90	1.79
NP [t CaCO3/1000 t]	24-Dec-15	13:03	13	8.0	10	45	122	17	18	33	25
AP [t CaCO3/1000 t]	---	---	73.8	62.8	1.88	0.31	0.31	64.7	24.7	1.56	20.0
Net NP [t CaCO3/1000 t]	---	---	-60.75	-54.81	8.12	44.7	122	-47.69	-6.69	31.4	5.00
NP/AP [ratio]	---	---	0.18	0.13	5.33	144	390	0.26	0.73	21.1	1.25
Sulphur (total) [%]	31-Dec-15	13:38	2.79	3.77	0.056	0.014	0.019	3.97	1.18	0.082	0.924
Acid Leachable SO4-S [%]	31-Dec-15	13:38	0.43	1.76	< 0.01	< 0.01	< 0.01	1.90	0.39	0.03	0.28
Sulphide [%]	31-Dec-15	13:38	2.36	2.01	0.06	0.01	0.01	2.07	0.79	0.05	0.64
Carbon (total) [%]	30-Dec-15	09:01	0.489	0.262	0.230	0.398	1.74	1.03	0.252	0.331	0.747
Carbonate [%]	30-Dec-15	09:01	0.125	0.400	0.984	1.59	8.02	3.56	0.610	1.30	2.45
C(g) [%]	---	04-Jan-16	< 0.05	0.10	< 0.05	< 0.05	< 0.05	0.75	0.06	< 0.05	0.40

OnLine LIMS

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Lakefield - Ontario - KOL 2HO
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ABA - Modified Sobek with Siderite correction

LR Report : **CA15278-DEC15**

Analysis	14: AMQ15-481-03	15: AMQ15-481-04	16: AMQ15-481-05
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A
Paste pH	9.93	9.99	9.75
Fizz Rate [---]	2	1	3
Sample weight [g]	2.01	1.93	1.89
HCl Added [mL]	40.90	31.20	49.50
HCl [Normality]	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	16.90	15.44	21.08
Final pH	1.88	1.92	1.88
NP [t CaCO3/1000 t]	34	16	41
AP [t CaCO3/1000 t]	11.6	3.44	86.6
Net NP [t CaCO3/1000 t]	22.4	12.6	-45.56
NP/AP [ratio]	2.94	4.65	0.47
Sulphur (total) [%]	0.550	0.217	3.91
Acid Leachable SO4-S [%]	0.18	0.11	1.14
Sulphide [%]	0.37	0.11	2.77
Carbon (total) [%]	0.418	0.228	0.636
Carbonate [%]	1.43	0.734	1.42
C(g) [%]	< 0.05	< 0.05	< 0.05

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

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08-January-2016

Agnico Eagle Mines Limited
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Date Rec. : 22 December 2015
LR Report: **CA15280-DEC15**
Reference: Whole Rock Analysis 1520817

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	5: AMQ15-433-01	6: AMQ15-433-02	7: AMQ15-433-03	8: AMQ15-438-01	9: AMQ15-438-02	10: AMQ15-438-03	11: AMQ15-438-04	12: AMQ15-481-01	13: AMQ15-481-02	14: AMQ15-481-03	15: AMQ15-481-04	16: AMQ15-481-05
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
SiO2 [%]	64.1	66.2	45.6	52.6	43.9	72.8	63.1	63.6	67.8	63.5	64.5	57.9
Al2O3 [%]	3.45	3.72	6.89	12.2	6.99	2.68	5.38	15.0	4.25	14.8	15.7	7.97
Fe2O3 [%]	20.6	20.8	10.4	7.97	10.2	15.0	21.5	5.20	18.5	5.74	5.58	17.0
MgO [%]	2.70	2.10	20.9	11.9	20.8	1.62	2.70	3.07	2.22	1.89	1.71	3.06
CaO [%]	2.33	1.18	8.76	1.41	4.78	1.85	1.92	2.38	2.40	3.36	2.36	5.17
Na2O [%]	0.04	0.03	0.18	1.44	0.04	0.04	0.12	2.68	0.22	2.39	2.98	0.25
K2O [%]	0.46	0.88	0.99	6.97	1.05	0.63	1.44	4.01	0.97	3.83	3.55	2.11
TiO2 [%]	0.09	0.10	0.31	0.60	0.39	0.06	0.14	0.48	0.12	0.43	0.47	0.27
P2O5 [%]	0.15	0.23	0.03	0.30	0.17	0.10	0.20	0.18	0.14	0.24	0.18	0.07
MnO [%]	0.52	0.50	0.24	0.08	0.16	0.23	0.38	0.09	0.37	0.10	0.08	0.56
Cr2O3 [%]	0.02	0.02	0.30	0.12	0.28	0.03	0.02	0.03	0.02	0.01	< 0.01	0.19
V2O5 [%]	< 0.01	< 0.01	0.02	0.02	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.02
LOI [%]	4.55	3.48	5.01	3.62	10.7	3.93	3.08	2.81	2.56	2.95	2.51	3.58
Sum [%]	99.0	99.2	99.6	99.3	99.5	99.0	100.0	99.5	99.6	99.2	99.7	98.2

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00005880691

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LR Report : **CA15280-DEC15**



Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

1908850000

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05-February-2015

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Fax:(819) 759-3663

Date Rec. : 26 January 2015
LR Report: **CA12406-JAN15**
Reference: PO pending

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
5: AMQ-ENV-01	47.9	7.70	9.04	15.3	5.66	0.55	2.22	0.43	0.19	0.16	0.20	0.02	10.2	99.6
6: AMQ-ENV-02	45.2	6.43	9.49	20.6	5.66	0.15	0.69	0.37	0.18	0.16	0.27	0.02	10.4	99.7
7: AMQ-ENV-03	64.4	16.7	5.90	2.05	1.08	2.53	3.80	0.50	0.20	0.09	< 0.01	0.01	2.40	99.6
8: AMQ-ENV-07	48.4	10.9	8.16	9.45	7.22	0.62	7.16	1.58	1.92	0.15	0.08	0.03	4.08	99.7
9: AMQ-ENV-08	47.7	10.0	9.40	12.9	7.57	1.21	4.80	1.13	1.15	0.14	0.13	0.03	2.46	98.7
10: AMQ-ENV-09	50.4	9.44	9.11	16.5	4.59	1.58	3.39	0.48	0.24	0.15	0.21	0.02	4.53	100.6
11: AMQ-ENV-10	45.5	7.14	9.73	20.7	4.49	0.34	1.84	0.38	0.17	0.15	0.27	< 0.01	10.4	101.1
12: AMQ-ENV-11	62.9	18.2	5.10	1.96	2.31	3.11	4.42	0.52	0.16	0.08	< 0.01	0.02	1.98	100.7
13: AMQ-ENV-12	63.7	17.3	4.96	2.18	1.85	3.08	3.32	0.50	0.17	0.08	< 0.01	0.02	2.46	99.6
14: AMQ-ENV-13	62.3	16.5	7.44	2.40	1.48	2.58	3.82	0.49	0.18	0.10	< 0.01	0.01	2.43	99.8
15: AMQ-ENV-14	63.5	17.0	5.72	2.03	1.64	3.38	3.44	0.52	0.17	0.08	< 0.01	< 0.01	1.94	99.4
16: AMQ-ENV-16	41.4	6.78	9.87	24.5	5.62	0.07	0.08	0.32	0.03	0.17	0.33	0.01	10.5	99.7
17: AMQ-ENV-17	43.9	8.11	11.9	22.5	5.27	0.22	0.29	0.39	0.03	0.23	0.37	0.03	6.05	99.2
18: AMQ-ENV-18	64.0	16.9	5.64	2.17	1.18	2.58	4.22	0.52	0.16	0.08	0.01	0.02	2.25	99.7
19: AMQ-ENV-19	63.6	17.3	5.54	2.31	1.64	3.30	3.44	0.54	0.17	0.06	0.05	0.02	2.41	100.4
20: AMQ-ENV-20	61.9	17.7	5.60	2.23	2.29	4.02	3.27	0.55	0.17	0.10	< 0.01	0.02	1.97	99.8
21: AMQ-ENV-28	68.4	14.0	7.38	2.07	0.57	2.40	3.22	0.40	0.17	0.11	< 0.01	< 0.01	2.64	101.4
22: AMQ-ENV-29	77.3	3.11	11.4	1.25	0.85	0.20	0.87	0.07	0.10	0.26	< 0.01	< 0.01	3.83	99.3
23: AMQ-ENV-31	47.3	9.39	13.9	14.0	7.22	0.31	1.50	0.46	0.03	0.43	0.48	0.03	4.18	99.2

OnLine LIMS

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LR Report : **CA12406-JAN15**

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
24: AMQ-ENV-32	40.6	6.92	10.2	24.6	4.60	0.05	0.16	0.33	0.03	0.17	0.32	0.02	11.6	99.4
25: AMQ-ENV-33	41.9	6.62	10.4	24.5	5.13	0.07	0.13	0.33	0.03	0.17	0.33	0.02	9.92	99.5
26: AMQ-ENV-34	65.9	7.07	15.8	2.41	1.21	0.12	2.65	0.20	0.12	0.17	< 0.01	< 0.01	3.81	99.5
27: AMQ-ENV-36	70.8	10.2	7.38	1.40	1.33	1.52	2.67	0.20	0.13	0.12	0.01	< 0.01	3.36	99.1
28: AMQ-ENV-37	65.4	16.0	4.77	1.95	1.74	2.92	3.75	0.44	0.14	0.09	< 0.01	0.01	2.65	99.9
29: AMQ-ENV-39	40.5	6.52	9.91	25.0	5.01	0.04	0.06	0.32	0.03	0.14	0.32	0.02	12.3	100.2
30: AMQ-ENV-40	75.3	4.23	13.7	1.76	1.60	0.25	0.91	0.11	0.10	0.36	< 0.01	< 0.01	2.35	100.7
31: AMQ-ENV-41	64.8	16.2	5.05	2.22	1.39	2.93	4.16	0.46	0.16	0.08	0.02	< 0.01	2.02	99.5
32: AMQ-ENV-42	63.8	17.3	5.19	1.82	2.14	4.05	3.01	0.53	0.15	0.09	< 0.01	< 0.01	2.19	100.2
33: AMQ-ENV-43	36.7	5.04	8.56	20.2	9.65	0.46	0.43	0.22	0.04	0.28	0.24	0.01	17.7	99.6
34: AMQ-ENV-44	44.8	6.74	11.6	21.6	5.86	0.16	0.46	0.34	0.03	0.24	0.35	0.02	8.75	100.9
35: AMQ-ENV-46	62.7	18.5	4.05	1.80	1.66	3.83	3.93	0.49	0.13	0.07	< 0.01	< 0.01	2.21	99.4
36: AMQ-ENV-109	62.1	18.4	4.94	2.19	1.17	3.25	3.59	0.57	0.17	0.07	0.02	< 0.01	2.65	99.1
37: AMQ-ENV-112	61.2	13.7	6.73	5.84	1.73	2.42	3.87	0.59	0.29	0.11	0.07	0.02	2.97	99.6
38: AMQ-ENV-113	54.2	12.3	9.10	9.30	4.25	2.44	2.61	0.61	0.23	0.13	0.13	0.03	3.85	99.1
39: AMQ-ENV-114	58.8	16.1	9.10	3.18	2.66	3.24	3.71	0.98	0.32	0.12	0.02	< 0.01	1.96	100.1
40: AMQ-ENV-115	63.8	14.8	6.99	3.06	1.44	3.21	2.47	0.55	0.14	0.08	0.03	0.02	2.81	99.4
41: AMQ-ENV-116	49.9	11.4	11.0	11.8	5.41	2.30	2.12	0.70	0.25	0.16	0.17	0.03	4.07	99.3
42: AMQ-ENV-117	64.7	14.0	5.10	3.39	2.77	3.25	3.15	0.47	0.17	0.07	0.05	< 0.01	2.83	100.0
43: AMQ-ENV-118	49.2	9.44	10.4	13.9	6.54	1.49	1.99	0.57	0.23	0.16	0.22	0.02	4.44	98.6
44: AMQ-ENV-119	49.3	9.38	10.3	13.9	6.54	1.48	1.97	0.57	0.24	0.16	0.22	0.02	5.37	99.5
45: AMQ-ENV-120	51.6	12.8	10.4	9.43	5.59	2.16	3.65	0.81	0.35	0.16	0.10	0.02	2.70	99.8
46: AMQ-ENV-121	48.9	7.84	9.51	18.5	5.79	1.51	2.23	0.42	0.21	0.17	0.23	0.02	4.44	99.8
47: AMQ-ENV-122	57.6	14.6	8.70	5.18	2.55	4.52	2.23	0.71	0.17	0.10	0.05	0.02	2.76	99.2
48: AMQ-ENV-125	45.7	7.54	10.4	22.1	6.73	0.18	1.40	0.35	0.06	0.19	0.28	0.03	5.41	100.3
49-DUP: AMQ-ENV-33	42.3	6.67	10.5	24.6	5.22	0.05	0.13	0.34	0.02	0.16	0.34	0.02	9.97	100.2
50-DUP: AMQ-ENV-120	52.1	13.0	10.5	9.50	5.61	2.18	3.68	0.81	0.35	0.17	0.11	0.03	2.67	100.7

OnLine LIMS

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LR Report : **CA12406-JAN15**

Brian Graham B.Sc.
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OnLine LIMS

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ABA - Modified Sobek

24-September-2015

Agnico Eagle Mines Limited
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Date Rec. : 16 September 2015
LR Report: **CA12483-SEP15**
Reference: OP-431539-J

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CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample Date & Time	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
3: Analysis Approval Date		23-Sep-15	23-Sep-15	23-Sep-15	23-Sep-15	23-Sep-15	23-Sep-15	23-Sep-15	23-Sep-15
4: Analysis Approval Time		10:00	10:00	10:00	10:00	10:00	10:00	10:00	10:00
5: AMQ-ENV-68	Date:N/A	4	2.07	106.30	0.10	0.10	37.71	1.58	166
6: AMQ-ENV-48	Date:N/A	4	1.91	40.00	0.10	0.10	27.86	1.56	32
7: AMQ-ENV-52	Date:N/A	4	2.06	40.00	0.10	0.10	20.53	1.94	47
8: AMQ-ENV-56	Date:N/A	3	2.01	56.80	0.10	0.10	41.82	1.60	37
9: AMQ-ENV-57	Date:N/A	2	1.98	55.60	0.10	0.10	42.97	1.64	32
10: AMQ-ENV-58	Date:N/A	4	1.83	72.30	0.10	0.10	38.57	1.59	92
11: AMQ-ENV-47	Date:N/A	4	1.96	67.00	0.10	0.10	32.84	1.59	87
12: AMQ-ENV-49	Date:N/A	4	2.04	101.00	0.10	0.10	46.71	1.72	133
13: AMQ-ENV-50	Date:N/A	4	2.03	74.30	0.10	0.10	38.98	1.56	87
14: AMQ-ENV-51	Date:N/A	2	1.96	42.30	0.10	0.10	23.55	1.56	48
15: AMQ-ENV-53	Date:N/A	2	2.04	26.50	0.10	0.10	15.67	1.68	27
16: AMQ-ENV-54	Date:N/A	1	2.00	20.00	0.10	0.10	17.15	1.63	7.1
17: AMQ-ENV-59	Date:N/A	4	2.00	96.80	0.10	0.10	36.25	1.60	151
18: AMQ-ENV-60	Date:N/A	4	1.97	55.60	0.10	0.10	28.24	1.59	69
19: AMQ-ENV-61	Date:N/A	4	1.91	71.50	0.10	0.10	33.76	1.56	99
20: AMQ-ENV-62	Date:N/A	4	1.95	113.20	0.10	0.10	48.82	1.63	165
21: AMQ-ENV-63	Date:N/A	4	2.01	66.20	0.10	0.10	32.41	1.60	84

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ABA - Modified Sobek

LR Report : **CA12483-SEP15**

Sample ID	Sample Date & Time	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
22: AMQ-ENV-64	Date:N/A	4	2.01	53.50	0.10	0.10	22.54	1.57	77
23: AMQ-ENV-65	Date:N/A	3	2.01	44.80	0.10	0.10	27.79	1.82	42
24: AMQ-ENV-66	Date:N/A	3	2.01	33.80	0.10	0.10	21.29	1.58	31
25: AMQ-ENV-67	Date:N/A	3	2.00	38.00	0.10	0.10	23.73	1.59	36
26: AMQ-ENV-69	Date:N/A	3	2.02	65.50	0.10	0.10	39.28	1.63	65
27: AMQ-ENV-70	Date:N/A	3	2.01	55.80	0.10	0.10	19.20	1.61	91
28: AMQ-ENV-71	Date:N/A	3	2.01	36.20	0.10	0.10	22.19	1.58	35
29: AMQ-ENV-72	Date:N/A	4	2.07	133.70	0.10	0.10	56.36	1.63	187
30: AMQ-ENV-73	Date:N/A	4	1.97	40.00	0.10	0.10	13.84	1.62	66

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0000513063

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ABA - Modified Sobek

24-September-2015

Agnico Eagle Mines Limited
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Date Rec. : 16 September 2015
LR Report: **CA12484-SEP15**
Reference: OP-431539-J

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample Date & Time	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
3: Analysis Approval Date		24-Sep-15	24-Sep-15	24-Sep-15	24-Sep-15	24-Sep-15	24-Sep-15	24-Sep-15	24-Sep-15
4: Analysis Approval Time		08:24	08:24	08:24	08:24	08:24	08:24	08:24	08:24
5: AMQ-ENV-01	Date:N/A	3	2.18	104.00	0.10	0.10	35.20	1.62	158
6: AMQ-ENV-02	Date:N/A	3	1.92	68.80	0.10	0.10	16.35	1.85	137
7: AMQ-ENV-03	Date:N/A	1	1.96	20.00	0.10	0.10	18.27	1.43	4.4
8: AMQ-ENV-07	Date:N/A	4	1.90	53.40	0.10	0.10	21.92	1.95	83
9: AMQ-ENV-08	Date:N/A	2	1.98	37.90	0.10	0.10	20.43	1.59	44
10: AMQ-ENV-09	Date:N/A	2	1.85	32.10	0.10	0.10	10.44	1.98	58
11: AMQ-ENV-10	Date:N/A	3	2.05	71.50	0.10	0.10	15.23	1.95	137
12: AMQ-ENV-11	Date:N/A	1	1.85	20.00	0.10	0.10	12.63	1.67	20
13: AMQ-ENV-12	Date:N/A	1	1.98	20.00	0.10	0.10	13.83	1.52	16
14: AMQ-ENV-13	Date:N/A	1	1.90	20.00	0.10	0.10	15.94	1.45	11
15: AMQ-ENV-14	Date:N/A	1	2.06	20.00	0.10	0.10	15.96	1.46	9.8
16: AMQ-ENV-16	Date:N/A	3	1.95	60.00	0.10	0.10	18.65	1.64	106
17: AMQ-ENV-17	Date:N/A	3	1.87	26.60	0.10	0.10	13.17	1.81	36
18: AMQ-ENV-18	Date:N/A	1	2.02	20.00	0.10	0.10	14.38	1.68	14
19: AMQ-ENV-19	Date:N/A	1	1.99	20.00	0.10	0.10	14.32	1.73	14
20: AMQ-ENV-20	Date:N/A	1	2.09	20.00	0.10	0.10	13.15	1.94	16
21: AMQ-ENV-28	Date:N/A	1	1.97	20.00	0.10	0.10	16.51	1.61	8.9

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ABA - Modified Sobek

LR Report : **CA12484-SEP15**

Sample ID	Sample Date & Time	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
22: AMQ-ENV-29	Date:N/A	2	1.93	20.00	0.10	0.10	13.73	1.61	16
23: AMQ-ENV-31	Date:N/A	2	2.15	55.70	0.10	0.10	37.37	1.58	43
24: AMQ-ENV-32	Date:N/A	3	2.10	84.50	0.10	0.10	32.26	1.55	124
25: AMQ-ENV-33	Date:N/A	3	1.92	57.80	0.10	0.10	20.26	1.61	98
26: AMQ-ENV-34	Date:N/A	3	1.90	20.00	0.10	0.10	12.38	1.89	20
27: AMQ-ENV-36	Date:N/A	1	1.99	27.20	0.10	0.10	18.80	1.66	21
28: AMQ-ENV-37	Date:N/A	1	1.86	20.00	0.10	0.10	11.46	1.84	23
29: AMQ-ENV-39	Date:N/A	2	2.05	91.30	0.10	0.10	32.91	1.56	142
30: AMQ-ENV-40	Date:N/A	1	1.97	20.00	0.10	0.10	14.40	1.69	14
31: AMQ-ENV-41	Date:N/A	1	2.02	20.00	0.10	0.10	13.93	1.71	15
32: AMQ-ENV-42	Date:N/A	1	2.02	20.00	0.10	0.10	12.70	1.73	18
33: AMQ-ENV-43	Date:N/A	3	1.97	155.00	0.10	0.10	40.86	1.75	290
34: AMQ-ENV-44	Date:N/A	3	2.01	58.70	0.10	0.10	19.42	1.88	98
35: AMQ-ENV-46	Date:N/A	3	1.86	20.00	0.10	0.10	13.78	1.54	17
36: AMQ-ENV-109	Date:N/A	1	1.90	20.00	0.10	0.10	16.36	1.34	9.6
37: AMQ-ENV-112	Date:N/A	2	2.02	26.70	0.10	0.10	17.06	1.55	24
38: AMQ-ENV-113	Date:N/A	3	1.92	43.40	0.10	0.10	23.84	1.58	51
39: AMQ-ENV-114	Date:N/A	1	1.89	25.00	0.10	0.10	18.52	1.61	17
40: AMQ-ENV-115	Date:N/A	1	2.04	25.00	0.10	0.10	16.37	1.59	21
41: AMQ-ENV-116	Date:N/A	3	1.87	40.20	0.10	0.10	20.84	1.59	52
42: AMQ-ENV-117	Date:N/A	3	1.89	29.00	0.10	0.10	13.89	1.91	40
43: AMQ-ENV-118	Date:N/A	3	1.84	56.60	0.10	0.10	30.33	1.59	71
44: AMQ-ENV-119	Date:N/A	3	1.92	61.30	0.10	0.10	30.69	1.59	80
45: AMQ-ENV-120	Date:N/A	2	2.00	40.00	0.10	0.10	24.35	1.56	39
46: AMQ-ENV-121	Date:N/A	3	1.87	37.50	0.10	0.10	17.19	1.58	54
47: AMQ-ENV-122	Date:N/A	3	1.93	37.80	0.10	0.10	23.22	1.60	38
48: AMQ-ENV-125	Date:N/A	1	1.95	28.20	0.10	0.10	10.93	1.85	44

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ABA - Modified Sobek

LR Report : **CA12484-SEP15**

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OnLine LIMS

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24-September-2015

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Date Rec. : 09 September 2015
LR Report: **CA15121-SEP15**
Reference: PO 460193

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: WTN-1	6: WTN-2	7: WTN-3	8: WTN-4	9: WTN-5
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Fizz Rate [---]	23-Sep-15	09:59	1	1	1	1	1
Sample weight [g]	23-Sep-15	09:59	1.91	1.99	1.98	2.01	2.05
HCl Added [mL]	23-Sep-15	09:59	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	23-Sep-15	09:59	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	23-Sep-15	09:59	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	23-Sep-15	09:59	21.91	21.61	21.26	21.71	22.25
Final pH	23-Sep-15	09:59	1.44	1.74	1.43	1.63	1.64
NP [t CaCO3/1000 t]	23-Sep-15	09:59	-5.0	-4.1	-3.2	-4.3	-5.5
AP [t CaCO3/1000 t]	---	---	2.19	1.87	0.94	1.25	1.25
Net NP [t CaCO3/1000 t]	---	---	-7.19	-5.97	-4.14	-5.55	-6.75
NP/AP [ratio]	---	---	-2.29	-2.19	-3.41	-3.44	-4.40
Sulphur (total) [%]	23-Sep-15	11:20	0.141	0.152	0.143	0.160	0.169
Acid Leachable SO4-S [%]	---	---	0.07	0.09	0.11	0.12	0.13
Sulphide [%]	23-Sep-15	11:20	0.07	0.06	0.03	0.04	0.04
Carbon (total) [%]	23-Sep-15	11:19	4.17	4.24	3.97	4.36	4.37
Carbonate [%]	23-Sep-15	11:19	< 0.025	0.040	< 0.025	< 0.025	< 0.025
C(g) [%]	15-Sep-15	14:04	0.02	< 0.01	< 0.01	< 0.01	0.02

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OnLine LIMS

0000513073

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06-October-2015

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Date Rec. : 09 September 2015
LR Report: **CA15124-SEP15**
Reference: PO 460193

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: WTN-1	6: WTN-2	7: WTN-3	8: WTN-4	9: WTN-5
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	29-Sep-15	10:32	59	57	60	55	52
Volume D.I. Water [mL]	29-Sep-15	10:32	236	228	240	220	208
Initial pH	29-Sep-15	10:32	5.03	5.05	5.46	4.93	4.97
Final pH	29-Sep-15	10:32	4.98	4.98	5.25	4.90	4.92
pH [no unit]	30-Sep-15	08:31	8.94	8.48	9.69	8.94	8.74
Alkalinity [mg/L as CaCO3]	30-Sep-15	08:31	38	36	162	38	44
Conductivity [uS/cm]	30-Sep-15	08:31	173	223	376	214	200
Fluoride [mg/L]	30-Sep-15	15:29	0.07	0.07	1.65	0.12	0.08
Chloride [mg/L]	29-Sep-15	15:16	4	4	3	5	3
Sulphate [mg/L]	29-Sep-15	15:16	33	59	23	52	45
Bromide [mg/L]	30-Sep-15	08:52	< 3	< 3	< 3	< 3	< 3
Nitrite (as N) [mg/L]	30-Sep-15	08:52	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nitrate (as N) [mg/L]	30-Sep-15	08:52	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Chromium VI [ug/L]	01-Oct-15	13:50	0.3	0.4	14	0.6	0.4
Phosphorus (total reactive) [mg/L]	30-Sep-15	09:47	0.11	< 0.03	0.18	< 0.03	0.06
Mercury [mg/L]	30-Sep-15	16:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Silver [mg/L]	05-Oct-15	12:31	0.000101	0.000070	0.000084	0.000025	0.000026
Aluminum [mg/L]	05-Oct-15	12:31	0.684	0.477	1.01	0.387	0.581
Arsenic [mg/L]	05-Oct-15	12:31	0.372	0.0700	0.0703	0.133	0.229
Barium [mg/L]	05-Oct-15	12:31	0.0912	0.211	0.0088	0.156	0.133
Boron [mg/L]	05-Oct-15	12:31	0.155	0.219	1.85	0.382	0.185
Beryllium [mg/L]	05-Oct-15	12:31	0.000041	0.000023	0.000061	0.000025	0.000032
Bismuth [mg/L]	05-Oct-15	12:31	0.000039	0.000036	0.000064	0.000014	0.000018
Calcium [mg/L]	05-Oct-15	12:31	8.60	11.4	1.21	11.3	11.1
Cadmium [mg/L]	05-Oct-15	12:31	0.000048	0.000290	0.000012	0.000204	0.000118
Cobalt [mg/L]	05-Oct-15	12:31	0.00283	0.0192	0.00041	0.0212	0.00772
Chromium [mg/L]	05-Oct-15	12:31	0.00189	0.00130	0.0170	0.00150	0.00175
Copper [mg/L]	05-Oct-15	12:31	0.0127	0.0134	0.0127	0.0108	0.0124
Iron [mg/L]	05-Oct-15	12:31	4.08	0.615	1.43	0.508	1.45

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LR Report : **CA15124-SEP15**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: WTN-1	6: WTN-2	7: WTN-3	8: WTN-4	9: WTN-5
Potassium [mg/L]	05-Oct-15	12:31	2.31	2.43	0.806	2.71	2.43
Lithium [mg/L]	05-Oct-15	12:31	0.00457	0.00493	0.00233	0.00605	0.00545
Magnesium [mg/L]	05-Oct-15	12:31	1.74	2.26	0.502	2.27	2.05
Manganese [mg/L]	05-Oct-15	12:31	2.21	7.24	0.0113	2.69	3.00
Molybdenum [mg/L]	05-Oct-15	12:31	0.00029	0.00042	0.00056	0.00018	0.00034
Sodium [mg/L]	05-Oct-15	12:31	23.3	24.6	86.4	24.4	26.3
Nickel [mg/L]	05-Oct-15	12:31	0.0372	0.257	0.0041	0.215	0.0893
Phosphorus [mg/L]	05-Oct-15	12:31	0.238	0.134	0.276	0.130	0.185
Lead [mg/L]	05-Oct-15	12:31	0.00046	0.0157	0.00058	0.00022	0.00026
Antimony [mg/L]	05-Oct-15	12:31	0.0017	0.0025	0.0015	0.0017	0.0022
Selenium [mg/L]	05-Oct-15	12:31	0.00120	0.00113	0.00119	0.00108	0.00140
Silicon [mg/L]	05-Oct-15	12:31	38.6	38.8	26.4	39.0	47.0
Tin [mg/L]	05-Oct-15	12:31	0.00016	0.00025	0.00024	0.00025	0.00034
Strontium [mg/L]	05-Oct-15	12:31	0.0433	0.0629	0.0039	0.0597	0.0525
Titanium [mg/L]	05-Oct-15	12:31	0.0129	0.0083	0.0218	0.0071	0.0112
Thallium [mg/L]	05-Oct-15	12:31	0.000017	0.000027	0.000008	0.000024	0.000015
Uranium [mg/L]	05-Oct-15	12:31	0.000431	0.000271	0.00203	0.000317	0.000382
Vanadium [mg/L]	05-Oct-15	12:31	0.0008	0.0004	0.0027	0.0004	0.0006
Zinc [mg/L]	05-Oct-15	12:31	0.004	0.011	0.004	0.010	0.005

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

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02-September-2015

Agnico Eagle Mines Limited
Attn : Serge Ouellet

10200, route de Pressac, Rouyn-Noranda
, J0Y 1C0
Phone: (819) 759-3700 x5820, Fax:(819) 759-3663

Date Rec. : 13 August 2015
LR Report: **CA15166-AUG15**
Reference: OP-460193-J

Copy: #1

CERTIFICATE OF ANALYSIS

Partial Report

Sample ID	Sample Date & Time	Paste pH	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
3: Analysis Approval Date		31-Aug-15	31-Aug-15	31-Aug-15	31-Aug-15	31-Aug-15	31-Aug-15	31-Aug-15	31-Aug-15	31-Aug-15
4: Analysis Approval Time		09:36	09:36	09:36	09:36	09:36	09:36	09:36	09:36	09:36
5: AMQ-ENV15-028	Date:N/A	8.93	4	1.99	75.60	0.10	0.10	34.49	1.59	103
6: AMQ-ENV15-029	Date:N/A	8.80	4	2.00	75.30	0.10	0.10	24.56	1.62	127
7: AMQ-ENV15-030	Date:N/A	9.05	4	2.04	83.80	0.10	0.10	28.45	1.57	136
8: AMQ-ENV15-016	Date:N/A	8.83	4	2.02	80.90	0.10	0.10	31.84	1.84	121
9: AMQ-ENV15-011	Date:N/A	9.70	4	2.00	49.90	0.10	0.10	28.29	1.61	54
10: AMQ-ENV15-014	Date:N/A	9.12	4	2.02	55.80	0.10	0.10	15.40	1.79	100
11: AMQ-ENV15-090	Date:N/A	9.55	4	2.02	55.00	0.10	0.10	25.22	1.70	74
12: AMQ-ENV15-026	Date:N/A	9.32	4	1.99	89.80	0.10	0.10	28.95	1.62	153
13: AMQ-ENV15-055	Date:N/A	9.05	4	1.98	40.00	0.10	0.10	13.80	1.62	66
14: AMQ-ENV15-021	Date:N/A	9.26	4	2.02	40.00	0.10	0.10	16.22	1.74	59
15: AMQ-ENV15-027	Date:N/A	9.32	3	1.97	39.20	0.10	0.10	24.91	1.62	36
16: AMQ-ENV15-040	Date:N/A	8.99	4	2.01	64.40	0.10	0.10	11.85	1.91	131
17: AMQ-ENV15-041	Date:N/A	9.05	4	2.03	40.00	0.10	0.10	12.86	1.69	67
18: AMQ-ENV15-034	Date:N/A	9.21	3	2.00	28.50	0.10	0.10	14.88	1.73	34
19: AMQ-ENV15-045	Date:N/A	9.24	3	1.96	57.30	0.10	0.10	31.17	1.60	67

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ABA - Modified Sobek

LR Report : CA15166-AUG15

Sample ID	Sample Date & Time	Paste pH	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
20: AMQ-ENV15-038	Date:N/A	8.95	3	2.03	61.90	0.10	0.10	39.45	1.69	55
21: AMQ-ENV15-039	Date:N/A	9.68	4	2.01	56.00	0.10	0.10	16.42	1.81	98
22: AMQ-ENV15-035	Date:N/A	8.98	3	2.05	27.50	0.10	0.10	17.93	1.55	23
23: AMQ-ENV15-010	Date:N/A	9.02	3	2.07	55.80	0.10	0.10	39.14	1.57	40
24: AMQ-ENV15-086	Date:N/A	9.66	3	1.99	25.30	0.10	0.10	9.68	1.61	39
25: AMQ-ENV15-099	Date:N/A	9.10	4	2.04	94.50	0.10	0.10	23.91	1.77	173
26: AMQ-ENV15-089	Date:N/A	8.90	3	2.04	63.00	0.10	0.10	38.11	1.74	61
27: AMQ-ENV15-020	Date:N/A	8.87	3	1.99	36.80	0.10	0.10	16.45	1.58	51
28: AMQ-ENV15-033	Date:N/A	9.72	4	1.96	77.70	0.10	0.10	32.90	1.55	114
29: AMQ-ENV15-109	Date:N/A	9.39	4	1.96	96.20	0.10	0.10	24.96	1.87	182
30: AMQ-ENV15-081	Date:N/A	9.52	3	2.06	25.80	0.10	0.10	13.36	1.58	30
31: AMQ-ENV15-076	Date:N/A	8.51	4	1.97	53.50	0.10	0.10	21.35	1.80	82
32: AMQ-ENV15-104	Date:N/A	9.80	3	2.01	38.30	0.10	0.10	19.87	1.57	46
33: AMQ-ENV15-094	Date:N/A	9.63	4	1.98	52.00	0.10	0.10	28.55	1.60	59
34: AMQ-ENV15-024	Date:N/A	9.67	4	1.97	40.00	0.10	0.10	25.47	1.56	37
35: AMQ-ENV15-023	Date:N/A	10.07	3	2.06	38.50	0.10	0.10	24.61	1.59	34
36: AMQ-ENV15-022	Date:N/A	9.98	4	1.97	52.00	0.10	0.10	27.67	1.58	62
37: AMQ-ENV15-042	Date:N/A	9.82	3	2.01	20.00	0.10	0.10	14.08	1.93	15
38: AMQ-ENV15-032	Date:N/A	9.93	4	1.97	40.00	0.10	0.10	23.11	1.93	43
39: AMQ-ENV15-003	Date:N/A	9.90	4	2.09	54.00	0.10	0.10	33.51	1.57	49
40: AMQ-ENV15-001	Date:N/A	9.69	3	2.03	28.30	0.10	0.10	17.72	1.93	26
41: AMQ-ENV15-047	Date:N/A	9.39	3	2.03	39.00	0.10	0.10	19.46	1.55	48
42: AMQ-ENV15-006	Date:N/A	9.21	3	2.04	42.20	0.10	0.10	21.38	1.59	51
43: AMQ-ENV15-008	Date:N/A	9.40	4	1.98	40.00	0.10	0.10	28.77	1.55	28
44: AMQ-ENV15-009	Date:N/A	9.09	3	1.96	20.00	0.10	0.10	14.81	1.82	13
45: AMQ-ENV15-012	Date:N/A	9.44	3	2.08	37.00	0.10	0.10	25.24	1.63	28
46: AMQ-ENV15-013	Date:N/A	9.76	3	1.98	37.50	0.10	0.10	21.01	1.56	42
47: AMQ-ENV15-004	Date:N/A	9.64	2	1.96	36.40	0.10	0.10	22.09	1.59	36
48: AMQ-ENV15-005	Date:N/A	9.26	3	2.08	47.30	0.10	0.10	21.88	1.58	61
49: AMQ-ENV15-091	Date:N/A	8.54	1	1.98	25.50	0.10	0.10	21.29	1.59	11
50: AMQ-ENV15-101	Date:N/A	9.52	3	1.98	69.30	0.10	0.10	39.03	1.59	76

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ABA - Modified Sobek

LR Report : **CA15166-AUG15**

Sample ID	Sample Date & Time	Paste pH	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
51: AMQ-ENV15-102	Date:N/A	9.91	2	1.96	56.40	0.10	0.10	37.33	1.62	49
52: AMQ-ENV15-103	Date:N/A	9.58	3	1.98	55.30	0.10	0.10	37.78	1.58	44
53: AMQ-ENV15-098	Date:N/A	9.75	1	2.10	26.80	0.10	0.10	21.56	1.56	12
54: AMQ-ENV15-093	Date:N/A	9.52	3	1.96	48.00	0.10	0.10	19.86	1.91	72
55: AMQ-ENV15-097	Date:N/A	9.90	2	1.92	25.50	0.10	0.10	17.80	1.57	20
56: AMQ-ENV15-110	Date:N/A	9.69	2	2.09	37.20	0.10	0.10	22.11	1.57	36
57: AMQ-ENV15-106	Date:N/A	9.92	1	2.05	20.00	0.10	0.10	13.91	1.89	15
58: AMQ-ENV15-107	Date:N/A	9.95	1	1.97	20.00	0.10	0.10	14.17	1.94	15
59: AMQ-ENV15-108	Date:N/A	9.93	1	2.05	20.00	0.10	0.10	14.59	1.84	13
60: AMQ-ENV15-064	Date:N/A	9.64	1	1.96	20.00	0.10	0.10	15.79	1.83	11
61: AMQ-ENV15-065	Date:N/A	9.90	1	1.97	20.00	0.10	0.10	14.53	1.92	14
62: AMQ-ENV15-066	Date:N/A	9.68	1	1.95	20.00	0.10	0.10	14.56	1.90	14
63: AMQ-ENV15-112	Date:N/A	10.02	1	2.08	25.00	0.10	0.10	19.71	1.55	13
64: AMQ-ENV15-049	Date:N/A	9.55	2	2.07	45.60	0.10	0.10	26.62	1.61	46
65: AMQ-ENV15-048	Date:N/A	9.75	3	2.04	40.40	0.10	0.10	25.45	1.73	37
66: AMQ-ENV15-025	Date:N/A	9.71	4	2.06	50.00	0.10	0.10	23.08	1.73	65
67: AMQ-ENV15-054	Date:N/A	8.43	2	2.07	36.40	0.10	0.10	23.91	1.55	30
68: AMQ-ENV15-073	Date:N/A	9.79	1	2.00	20.00	0.10	0.10	15.63	1.69	11
69: AMQ-ENV15-075	Date:N/A	9.73	2	2.00	25.50	0.10	0.10	17.83	1.56	19
70: AMQ-ENV15-074	Date:N/A	9.81	2	2.08	20.00	0.10	0.10	13.42	1.87	16
71: AMQ-ENV15-002	Date:N/A	9.33	2	2.03	26.50	0.10	0.10	17.70	1.81	22
72: AMQ-ENV15-100	Date:N/A	9.61	3	1.97	37.60	0.10	0.10	23.76	1.58	35
73: AMQ-ENV15-077	Date:N/A	9.79	4	2.07	52.80	0.10	0.10	30.07	1.65	55
74: AMQ-ENV15-019	Date:N/A	8.80	2	2.09	26.50	0.10	0.10	17.74	1.56	21
75: AMQ-ENV15-046	Date:N/A	9.02	2	2.08	38.30	0.10	0.10	24.74	1.59	33
76: AMQ-ENV15-037	Date:N/A	5.85	1	2.06	20.00	0.10	0.10	18.32	1.30	4.1
77: AMQ-ENV15-007	Date:N/A	9.50	2	1.97	41.50	0.10	0.10	21.94	1.62	50
78: AMQ-ENV15-092	Date:N/A	9.06	1	2.06	43.00	0.10	0.10	27.38	1.59	38
79: AMQ-ENV15-122	Date:N/A	9.66	4	2.13	119.30	0.10	0.10	49.05	1.58	165
80: AMQ-ENV15-088	Date:N/A	8.83	2	1.94	40.00	0.10	0.10	30.91	1.58	23
81: AMQ-ENV15-095	Date:N/A	9.62	3	1.98	24.50	0.10	0.10	14.78	1.58	24

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ABA - Modified Sobek

LR Report : CA15166-AUG15

Sample ID	Sample Date & Time	Paste pH	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
82: AMQ-ENV15-096	Date:N/A	9.77	3	2.00	39.30	0.10	0.10	25.35	1.86	35
83: AMQ-ENV15-085	Date:N/A	9.12	2	2.01	28.00	0.10	0.10	19.80	1.61	20
84: AMQ-ENV15-058	Date:N/A	8.47	1	1.96	23.80	0.10	0.10	18.59	1.60	13
85: AMQ-ENV15-056	Date:N/A	9.43	2	1.95	20.00	0.10	0.10	14.89	1.82	13
86: AMQ-ENV15-115	Date:N/A	10.14	2	1.98	39.60	0.10	0.10	27.43	1.59	31
87: AMQ-ENV15-111	Date:N/A	8.97	3	1.97	64.10	0.10	0.10	24.69	1.56	100
88: AMQ-ENV15-124	Date:N/A	9.60	4	2.05	57.20	0.10	0.10	19.57	1.70	92
89: AMQ-ENV15-123	Date:N/A	9.30	4	2.00	125.50	0.10	0.10	50.73	1.58	187
90: AMQ-ENV15-116	Date:N/A	6.17	1	1.93	20.00	0.10	0.10	19.09	1.11	2.3
91: AMQ-ENV15-130	Date:N/A	6.20	1	1.98	20.00	0.10	0.10	19.12	1.43	2.2
92: AMQ-ENV15-131	Date:N/A	7.06	1	2.04	20.00	0.10	0.10	18.64	1.17	3.3
93: AMQ-ENV15-132	Date:N/A	7.74	1	2.03	20.00	0.10	0.10	18.49	1.13	3.7
94: AMQ-ENV15-117	Date:N/A	7.21	1	1.99	20.00	0.10	0.10	17.68	1.27	5.8
95: AMQ-ENV15-118	Date:N/A	7.13	1	2.00	20.00	0.10	0.10	16.62	1.67	8.4
96: AMQ-ENV15-119	Date:N/A	7.50	1	2.02	20.00	0.10	0.10	17.67	1.42	5.8
97: AMQ-ENV15-125	Date:N/A	7.42	1	1.96	20.00	0.10	0.10	18.07	1.34	4.9
98: AMQ-ENV15-126	Date:N/A	8.50	1	2.02	20.00	0.10	0.10	17.54	1.38	6.1
99: AMQ-ENV15-127	Date:N/A	8.50	1	2.06	20.00	0.10	0.10	17.34	1.40	6.5
100: AMQ-ENV15-128	Date:N/A	8.12	1	2.09	20.00	0.10	0.10	17.71	1.32	5.5
101: AMQ-ENV15-129	Date:N/A	7.17	1	2.04	20.00	0.10	0.10	18.34	1.33	4.1
102: AMQ-ENV15-105	Date:N/A	9.39	3	2.03	26.80	0.10	0.10	14.66	1.63	30
103: AMQ-ENV15-121	Date:N/A	9.32	3	1.96	91.80	0.10	0.10	33.97	1.56	148
104: AMQ-ENV15-068	Date:N/A	9.43	3	1.98	51.00	0.10	0.10	25.51	1.78	64
105: AMQ-ENV15-051	Date:N/A	9.50	3	1.96	104.10	0.10	0.10	38.78	1.55	167
106: AMQ-ENV15-071	Date:N/A	9.31	3	2.05	102.30	0.10	0.10	35.97	1.56	162
107: AMQ-ENV15-084	Date:N/A	9.25	3	2.02	89.50	0.10	0.10	32.08	1.55	142
108: AMQ-ENV15-083	Date:N/A	9.59	3	1.95	53.20	0.10	0.10	14.70	1.85	99
109: AMQ-ENV15-050	Date:N/A	9.85	2	1.94	62.20	0.10	0.10	32.18	1.57	77
110: AMQ-ENV15-044	Date:N/A	9.77	3	1.98	47.40	0.10	0.10	26.38	1.55	53
111: AMQ-ENV15-070	Date:N/A	10.12	2	1.94	42.20	0.10	0.10	21.17	1.55	54
112: AMQ-ENV15-072	Date:N/A	9.99	3	1.95	25.00	0.10	0.10	13.41	1.61	30

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ABA - Modified Sobek

LR Report : CA15166-AUG15

Sample ID	Sample Date & Time	Paste pH	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
113: AMQ-ENV15-120	Date:N/A	9.98	2	2.06	20.00	0.10	0.10	13.09	1.82	17
114: AMQ-ENV15-113	Date:N/A	10.09	2	2.01	20.00	0.10	0.10	11.87	1.86	20
115: AMQ-ENV15-052	Date:N/A	9.93	4	2.02	77.50	0.10	0.10	34.65	1.58	106
116: AMQ-ENV15-060	Date:N/A	10.18	1	2.04	20.00	0.10	0.10	14.66	1.65	13
117: AMQ-ENV15-062	Date:N/A	0.93	2	1.96	113.40	0.10	0.10	41.04	1.55	185
118: AMQ-ENV15-063	Date:N/A	10.16	1	2.02	20.00	0.10	0.10	13.85	1.69	15
119: AMQ-ENV15-114	Date:N/A	9.63	1	1.97	36.00	0.10	0.10	25.70	1.77	26
120: AMQ-ENV15-078	Date:N/A	9.59	2	2.00	40.00	0.10	0.10	22.65	1.89	43
121: AMQ-ENV15-043	Date:N/A	8.99	4	1.97	40.00	0.10	0.10	27.21	1.60	32
122: AMQ-ENV15-067	Date:N/A	9.71	4	2.01	55.00	0.10	0.10	25.49	1.84	73
123: AMQ-ENV15-061	Date:N/A	9.85	2	1.97	26.30	0.10	0.10	17.89	1.80	21

Sample ID	AP t CaCO3/1000 t	Net NP t CaCO3/1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate %	Carbonate (graphite corrected) %	C(g) %
3: Analysis Approval Date	---	---	---	31-Aug-15	---	31-Aug-15	25-Aug-15	25-Aug-15	01-Sep-15	27-Aug-15
4: Analysis Approval Time	---	---	---	09:54	---	09:45	13:27	13:27	14:18	10:00
5: AMQ-ENV15-028	0.94	102	110	0.060	0.03	0.03	1.11	5.30	5.30	< 0.01
6: AMQ-ENV15-029	0.31	126	409	0.017	0.02	< 0.01	1.61	7.60	7.60	< 0.01
7: AMQ-ENV15-030	0.31	135	438	0.019	0.02	< 0.01	1.72	8.38	8.38	< 0.01
8: AMQ-ENV15-016	33.4	88.0	3.63	1.28	0.21	1.07	1.28	5.69	5.69	< 0.01
9: AMQ-ENV15-011	0.62	53.4	86.4	0.028	< 0.01	0.02	0.453	2.10	2.10	< 0.01
10: AMQ-ENV15-014	0.31	99.7	323	0.008	< 0.01	< 0.01	1.18	5.74	5.74	< 0.01
11: AMQ-ENV15-090	4.38	69.3	16.8	0.151	0.01	0.14	0.785	3.61	3.61	< 0.01
12: AMQ-ENV15-026	3.75	149	40.8	0.144	0.02	0.12	1.77	9.03	9.03	< 0.01
13: AMQ-ENV15-055	0.31	65.9	212	0.042	0.03	0.01	0.788	3.75	3.75	< 0.01
14: AMQ-ENV15-021	3.44	55.5	17.1	0.155	0.04	0.11	0.583	2.72	2.72	< 0.01
15: AMQ-ENV15-027	37.2	-0.89	0.98	1.31	0.12	1.19	0.298	1.03	1.03	< 0.01
16: AMQ-ENV15-040	0.94	130	139	0.047	0.02	0.03	1.59	7.60	7.60	< 0.01
17: AMQ-ENV15-041	0.31	66.6	216	< 0.005	< 0.01	< 0.01	0.829	3.95	3.95	< 0.01

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ABA - Modified Sobek

LR Report : **CA15166-AUG15**

Sample ID	AP t CaCO3/1000 t	Net NP t CaCO3/1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate %	Carbonate (graphite corrected) %	C(g) %
18: AMQ-ENV15-034	53.1	-19.1	0.64	1.94	0.24	1.70	0.322	1.10	1.10	< 0.01
19: AMQ-ENV15-045	7.50	59.1	8.88	0.296	0.06	0.24	0.646	2.98	2.98	< 0.01
20: AMQ-ENV15-038	20.6	34.7	2.68	0.728	0.07	0.66	0.444	1.62	1.62	< 0.01
21: AMQ-ENV15-039	0.31	98.2	315	0.021	0.01	0.01	1.03	4.68	4.68	< 0.01
22: AMQ-ENV15-035	42.2	-18.9	0.55	1.52	0.17	1.35	0.180	0.545	0.545	< 0.01
23: AMQ-ENV15-010	53.4	-13.2	0.75	1.65	< 0.01	1.71	0.317	0.994	0.994	< 0.01
24: AMQ-ENV15-086	4.06	35.2	9.67	0.141	0.01	0.13	0.402	1.80	1.80	< 0.01
25: AMQ-ENV15-099	0.94	172	185	0.051	0.02	0.03	2.18	10.7	10.7	< 0.01
26: AMQ-ENV15-089	98.1	-37.1	0.62	3.40	0.26	3.14	0.510	1.79	1.79	< 0.01
27: AMQ-ENV15-020	8.75	42.4	5.84	0.370	0.09	0.28	0.590	2.60	2.47	0.03
28: AMQ-ENV15-033	0.31	114	369	0.011	0.01	< 0.01	1.34	6.46	6.46	< 0.01
29: AMQ-ENV15-109	0.31	181	586	0.007	< 0.01	< 0.01	2.18	10.5	10.5	< 0.01
30: AMQ-ENV15-081	2.19	28.0	13.8	0.100	0.03	0.07	0.247	1.13	1.13	< 0.01
31: AMQ-ENV15-076	111	-29.0	0.74	3.83	0.29	3.54	2.19	9.32	3.48	1.17
32: AMQ-ENV15-104	0.31	45.6	147	0.015	< 0.01	0.01	0.277	1.21	1.21	< 0.01
33: AMQ-ENV15-094	0.31	58.9	189	0.024	0.01	0.01	0.415	1.73	1.73	< 0.01
34: AMQ-ENV15-024	0.62	36.3	59.0	0.035	0.02	0.02	0.147	0.555	0.555	< 0.01
35: AMQ-ENV15-023	0.31	33.4	108	0.032	0.02	0.01	0.155	0.545	0.545	< 0.01
36: AMQ-ENV15-022	1.56	60.1	39.5	0.084	0.03	0.05	0.401	1.76	1.76	< 0.01
37: AMQ-ENV15-042	1.88	12.8	7.84	0.108	0.05	0.06	0.095	0.310	0.310	< 0.01
38: AMQ-ENV15-032	0.31	42.6	137	0.033	0.02	0.01	0.206	0.814	0.814	< 0.01
39: AMQ-ENV15-003	0.31	48.7	157	0.018	< 0.01	0.01	0.278	1.16	1.16	< 0.01
40: AMQ-ENV15-001	2.19	23.8	11.9	0.088	0.02	0.07	0.104	0.360	0.360	< 0.01
41: AMQ-ENV15-047	0.31	47.8	155	< 0.005	< 0.01	< 0.01	0.331	1.48	1.48	< 0.01
42: AMQ-ENV15-006	0.31	50.7	165	0.010	0.01	< 0.01	0.351	1.57	1.57	< 0.01
43: AMQ-ENV15-008	41.2	-12.8	0.69	2.51	1.19	1.32	1.35	5.25	0.050	1.04
44: AMQ-ENV15-009	42.8	-29.6	0.31	1.94	0.57	1.37	0.535	1.32	0.545	0.16
45: AMQ-ENV15-012	1.25	27.0	22.6	0.052	0.01	0.04	0.110	0.390	0.390	< 0.01
46: AMQ-ENV15-013	0.94	40.7	44.4	0.030	< 0.01	0.03	0.268	1.22	1.22	< 0.01
47: AMQ-ENV15-004	0.94	35.6	38.9	0.036	< 0.01	0.03	0.192	0.764	0.764	< 0.01
48: AMQ-ENV15-005	0.31	60.8	197	< 0.005	< 0.01	< 0.01	0.559	2.52	2.52	< 0.01

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ABA - Modified Sobek

LR Report : **CA15166-AUG15**

Sample ID	AP t CaCO3/1000 t	Net NP t CaCO3/1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate %	Carbonate (graphite corrected) %	C(g) %
49: AMQ-ENV15-091	47.8	-37.2	0.22	1.44	< 0.01	1.53	0.271	0.435	0.266	0.03
50: AMQ-ENV15-101	3.75	72.6	20.4	0.158	0.04	0.12	0.652	2.90	2.90	< 0.01
51: AMQ-ENV15-102	2.19	46.5	22.3	0.115	0.04	0.07	0.286	1.14	1.14	< 0.01
52: AMQ-ENV15-103	0.31	43.9	143	0.012	0.01	< 0.01	0.467	2.04	2.04	< 0.01
53: AMQ-ENV15-098	7.50	5.00	1.67	0.379	0.14	0.24	0.036	0.070	0.070	< 0.01
54: AMQ-ENV15-093	3.12	68.7	23.0	0.120	0.02	0.10	0.821	3.25	3.25	< 0.01
55: AMQ-ENV15-097	3.75	16.4	5.36	0.362	0.24	0.12	0.151	0.380	0.380	< 0.01
56: AMQ-ENV15-110	2.19	33.9	16.5	0.112	0.04	0.07	0.346	1.36	1.36	< 0.01
57: AMQ-ENV15-106	6.88	8.02	2.17	0.363	0.14	0.22	0.077	0.140	0.140	< 0.01
58: AMQ-ENV15-107	3.12	11.7	4.74	0.212	0.11	0.10	0.080	0.210	0.210	< 0.01
59: AMQ-ENV15-108	4.69	8.51	2.82	0.293	0.14	0.15	0.071	0.155	0.155	< 0.01
60: AMQ-ENV15-064	5.94	4.76	1.80	0.292	0.10	0.19	0.036	0.085	0.085	< 0.01
61: AMQ-ENV15-065	6.25	7.65	2.22	0.311	0.11	0.20	0.062	0.150	0.150	< 0.01
62: AMQ-ENV15-066	5.94	8.06	2.36	0.279	0.09	0.19	0.054	0.115	0.115	< 0.01
63: AMQ-ENV15-112	23.1	-10.4	0.55	1.59	0.85	0.74	0.490	1.99	0.075	0.38
64: AMQ-ENV15-049	0.62	45.3	73.4	0.023	< 0.01	0.02	0.309	1.29	1.29	< 0.01
65: AMQ-ENV15-048	2.50	34.1	14.6	0.154	0.07	0.08	0.469	1.80	1.59	0.04
66: AMQ-ENV15-025	32.2	33.1	2.03	1.94	0.91	1.03	1.32	4.29	1.80	0.50
67: AMQ-ENV15-054	125	-95.1	0.24	4.27	0.26	4.01	0.280	0.550	0.550	< 0.01
68: AMQ-ENV15-073	4.38	6.52	2.49	0.212	0.07	0.14	0.024	0.040	0.040	< 0.01
69: AMQ-ENV15-075	12.5	6.70	1.54	0.998	0.60	0.40	0.190	0.460	0.460	< 0.01
70: AMQ-ENV15-074	5.00	10.8	3.16	0.301	0.14	0.16	0.107	0.270	0.270	< 0.01
71: AMQ-ENV15-002	4.38	17.3	4.96	0.151	0.01	0.14	0.106	0.335	0.335	< 0.01
72: AMQ-ENV15-100	4.06	31.0	8.64	0.193	0.06	0.13	0.275	0.929	0.929	< 0.01
73: AMQ-ENV15-077	1.56	53.3	35.1	0.070	0.02	0.05	0.507	2.13	2.13	< 0.01
74: AMQ-ENV15-019	90.3	-69.4	0.23	2.66	< 0.01	2.89	0.712	1.69	0.330	0.27
75: AMQ-ENV15-046	81.2	-48.6	0.40	2.67	0.07	2.60	0.514	0.615	0.615	< 0.01
76: AMQ-ENV15-037	63.4	-59.3	0.06	3.80	1.77	2.03	1.04	4.38	< 0.025	0.94
77: AMQ-ENV15-007	46.6	3.04	1.07	1.73	0.24	1.49	2.06	8.01	1.17	1.37
78: AMQ-ENV15-092	75.9	-38.0	0.50	3.57	1.14	2.43	0.723	1.76	0.849	0.18
79: AMQ-ENV15-122	0.94	164	176	0.043	0.01	0.03	1.71	8.15	8.15	< 0.01

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ABA - Modified Sobek

LR Report : **CA15166-AUG15**

Sample ID	AP t CaCO3/1000 t	Net NP t CaCO3/1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate %	Carbonate (graphite corrected) %	C(g) %
80: AMQ-ENV15-088	68.1	-44.7	0.34	4.92	2.74	2.18	0.968	3.73	0.285	0.69
81: AMQ-ENV15-095	20.3	4.19	1.21	0.899	0.25	0.65	0.552	1.61	0.724	0.18
82: AMQ-ENV15-096	15.9	19.0	2.19	1.21	0.70	0.51	1.55	6.53	0.839	1.14
83: AMQ-ENV15-085	24.7	-4.29	0.83	2.20	1.41	0.79	0.159	0.205	0.205	< 0.01
84: AMQ-ENV15-058	56.2	-43.0	0.24	1.83	0.03	1.80	0.142	0.250	0.250	< 0.01
85: AMQ-ENV15-056	7.50	5.60	1.75	0.324	0.08	0.24	0.081	0.200	0.200	< 0.01
86: AMQ-ENV15-115	27.2	3.51	1.13	1.14	0.27	0.87	0.532	1.35	0.585	0.15
87: AMQ-ENV15-111	1.88	98.1	53.3	0.062	< 0.01	0.06	1.29	5.99	5.99	< 0.01
88: AMQ-ENV15-124	2.50	89.3	36.7	0.112	0.03	0.08	1.01	4.92	4.92	< 0.01
89: AMQ-ENV15-123	0.62	186	299	0.018	< 0.01	0.02	2.42	11.6	11.6	< 0.01
90: AMQ-ENV15-116	0.31	1.99	7.42	< 0.005	< 0.01	< 0.01	1.02	< 0.025	<0.025	< 0.01
91: AMQ-ENV15-130	0.31	1.89	7.10	< 0.005	< 0.01	< 0.01	1.83	0.035	0.035	< 0.01
92: AMQ-ENV15-131	0.31	2.99	10.6	< 0.005	< 0.01	< 0.01	0.372	< 0.025	<0.025	< 0.01
93: AMQ-ENV15-132	0.31	3.39	11.9	< 0.005	< 0.01	< 0.01	0.112	< 0.025	<0.025	< 0.01
94: AMQ-ENV15-117	0.31	5.49	18.7	< 0.005	< 0.01	< 0.01	0.355	< 0.025	<0.025	< 0.01
95: AMQ-ENV15-118	0.31	8.09	27.1	< 0.005	< 0.01	< 0.01	0.582	0.055	0.055	< 0.01
96: AMQ-ENV15-119	0.31	5.49	18.7	< 0.005	< 0.01	< 0.01	0.507	0.030	0.030	< 0.01
97: AMQ-ENV15-125	0.31	4.59	15.8	< 0.005	< 0.01	< 0.01	0.526	< 0.025	<0.025	< 0.01
98: AMQ-ENV15-126	0.31	5.79	19.7	< 0.005	< 0.01	< 0.01	0.106	< 0.025	<0.025	< 0.01
99: AMQ-ENV15-127	0.31	6.19	21.0	< 0.005	< 0.01	< 0.01	0.183	< 0.025	< 0.025	0.01
100: AMQ-ENV15-128	0.31	5.19	17.7	< 0.005	< 0.01	< 0.01	0.250	< 0.025	<0.025	< 0.01
101: AMQ-ENV15-129	0.31	3.79	13.2	< 0.005	< 0.01	< 0.01	0.654	< 0.025	<0.025	< 0.01
102: AMQ-ENV15-105	0.62	29.3	47.8	0.139	0.12	0.02	0.255	1.24	1.24	< 0.01
103: AMQ-ENV15-121	0.31	147	476	0.047	0.05	< 0.01	1.78	8.65	8.65	< 0.01
104: AMQ-ENV15-068	0.31	64.1	206	0.045	0.04	0.01	0.619	2.84	2.79	0.01
105: AMQ-ENV15-051	0.31	166	537	0.016	0.02	< 0.01	1.99	9.89	9.89	< 0.01
106: AMQ-ENV15-071	0.31	161	522	0.016	0.02	< 0.01	1.92	9.40	9.40	< 0.01
107: AMQ-ENV15-084	0.31	142	458	0.012	0.01	< 0.01	1.80	8.72	8.72	< 0.01
108: AMQ-ENV15-083	2.50	96.2	39.5	0.218	0.14	0.08	1.03	4.86	4.86	< 0.01
109: AMQ-ENV15-050	0.31	77.1	250	0.031	0.03	< 0.01	0.632	2.94	2.94	< 0.01
110: AMQ-ENV15-044	0.31	52.8	171	< 0.005	< 0.01	< 0.01	0.407	1.80	1.80	< 0.01

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ABA - Modified Sobek

LR Report : **CA15166-AUG15**

Sample ID	AP t CaCO3/1000 t	Net NP t CaCO3/1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate %	Carbonate (graphite corrected) %	C(g) %
111: AMQ-ENV15-070	0.31	53.9	175	< 0.005	< 0.01	< 0.01	0.452	2.14	2.14	< 0.01
112: AMQ-ENV15-072	0.31	29.4	95.8	0.012	0.01	< 0.01	0.154	0.674	0.674	< 0.01
113: AMQ-ENV15-120	6.25	10.6	2.69	0.525	0.32	0.20	0.108	0.230	0.230	< 0.01
114: AMQ-ENV15-113	5.94	14.3	3.40	0.372	0.18	0.19	0.139	0.385	0.385	< 0.01
115: AMQ-ENV15-052	0.31	106	342	0.026	0.03	< 0.01	0.954	4.54	4.54	< 0.01
116: AMQ-ENV15-060	4.38	8.72	2.99	0.355	0.22	0.14	0.070	0.145	0.145	< 0.01
117: AMQ-ENV15-062	0.31	184	591	0.036	0.03	0.01	2.33	11.2	11.2	< 0.01
118: AMQ-ENV15-063	2.19	13.0	6.95	0.311	0.24	0.07	0.086	0.195	0.195	< 0.01
119: AMQ-ENV15-114	0.94	25.2	27.8	0.051	0.02	0.03	0.080	0.270	0.270	< 0.01
120: AMQ-ENV15-078	3.75	39.6	11.6	0.157	0.04	0.12	0.375	1.49	1.49	< 0.01
121: AMQ-ENV15-043	50.0	-17.5	0.65	3.97	2.37	1.60	1.34	4.98	< 0.025	1.02
122: AMQ-ENV15-067	84.4	-11.0	0.87	2.60	< 0.01	2.70	1.72	4.29	< 0.025	0.88
123: AMQ-ENV15-061	7.19	14.1	2.96	0.486	0.26	0.23	0.163	0.395	0.395	< 0.01

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc.
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28-August-2015

Agnico Eagle Mines Limited
Attn : Serge Ouellet

10200, route de Pressac, Rouyn-Noranda
, J0Y 1C0
Phone: (819) 759-3700 x5820, Fax:(819) 759-3663

Date Rec. : 13 August 2015
LR Report: **CA15167-AUG15**
Reference: OP-460193-J

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
5: AMQ-ENV15-028	42.8	8.32	12.7	13.9	12.1	0.44	1.21	0.39	0.04	0.42	0.35	0.04	7.06	99.8
6: AMQ-ENV15-029	40.8	7.28	10.8	23.8	4.34	0.05	0.14	0.40	0.02	0.24	0.36	0.02	11.8	100.1
7: AMQ-ENV15-030	39.2	6.80	10.6	25.9	4.15	0.03	0.01	0.32	0.03	0.14	0.38	0.02	12.5	100.0
8: AMQ-ENV15-016	44.8	6.54	16.6	11.8	8.70	0.12	1.38	0.31	0.03	0.46	0.36	0.02	7.21	98.4
9: AMQ-ENV15-011	47.9	8.75	11.9	12.5	11.3	0.72	2.52	0.41	0.06	0.36	0.36	0.03	2.99	99.7
10: AMQ-ENV15-014	40.7	8.30	11.2	24.4	3.25	0.03	0.60	0.39	0.03	0.12	0.44	0.04	10.6	100.1
11: AMQ-ENV15-090	44.6	8.00	13.9	15.5	8.79	0.39	1.72	0.39	0.03	0.45	0.39	0.02	5.28	99.5
12: AMQ-ENV15-026	40.4	5.56	9.40	22.1	9.51	0.06	0.31	0.24	0.01	0.27	0.31	< 0.01	10.9	99.2
13: AMQ-ENV15-055	42.2	7.30	10.9	24.5	4.58	0.11	0.04	0.38	0.02	0.16	0.36	0.02	9.25	99.8
14: AMQ-ENV15-021	47.3	6.27	10.8	20.2	6.89	0.33	0.48	0.32	0.12	0.23	0.30	0.02	6.16	99.5
15: AMQ-ENV15-027	40.2	7.60	31.1	6.03	9.04	0.61	1.03	0.37	0.02	1.17	0.38	0.02	1.70	99.2
16: AMQ-ENV15-040	39.7	6.75	9.90	24.0	6.38	0.04	0.05	0.32	0.01	0.17	0.32	0.02	12.0	99.6
17: AMQ-ENV15-041	43.0	7.58	11.0	25.6	2.07	0.02	0.05	0.40	0.03	0.11	0.33	0.02	9.67	99.9
18: AMQ-ENV15-034	35.1	8.66	34.6	6.07	8.52	0.67	0.43	0.39	0.03	1.43	0.38	0.03	1.94	98.3
19: AMQ-ENV15-045	42.7	9.23	19.8	9.58	10.9	0.58	0.78	0.45	0.06	0.94	0.39	0.03	4.03	99.5
20: AMQ-ENV15-038	40.0	8.71	30.5	5.95	7.24	0.79	1.41	0.45	0.03	1.10	0.35	0.03	2.36	99.0
21: AMQ-ENV15-039	42.5	5.64	9.85	21.0	9.60	0.30	1.66	0.28	0.19	0.27	0.26	0.02	7.87	99.4
22: AMQ-ENV15-035	36.6	5.81	38.4	6.14	8.97	0.45	0.50	0.25	0.03	1.33	0.22	0.01	1.04	99.7
23: AMQ-ENV15-010	38.7	9.75	29.8	5.10	11.1	0.42	1.71	0.44	0.04	1.06	0.43	0.02	1.63	100.2
24: AMQ-ENV15-086	45.2	8.06	11.1	18.9	8.14	0.28	1.74	0.39	0.03	0.23	0.36	0.03	5.35	99.8
25: AMQ-ENV15-099	37.9	6.05	9.77	25.5	5.77	0.03	0.02	0.32	0.06	0.18	0.29	0.02	14.1	100.0
26: AMQ-ENV15-089	41.0	8.21	26.7	6.27	8.64	0.58	1.82	0.42	0.03	0.91	0.30	0.03	2.05	97.0
27: AMQ-ENV15-020	56.1	7.14	9.62	14.1	3.75	0.73	1.99	0.35	0.17	0.14	0.17	< 0.01	5.04	99.3

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LR Report : **CA15167-AUG15**

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
28: AMQ-ENV15-033	48.9	9.16	8.60	16.0	3.63	1.90	2.76	0.45	0.21	0.14	0.21	0.02	7.82	99.8
29: AMQ-ENV15-109	44.0	7.56	8.88	17.6	5.90	0.93	2.17	0.41	0.21	0.17	0.23	0.02	11.4	99.5
30: AMQ-ENV15-081	56.8	14.1	8.08	6.06	3.27	2.46	4.15	0.62	0.24	0.11	0.06	0.02	3.39	99.4
31: AMQ-ENV15-076	63.6	4.75	9.74	7.85	2.45	0.55	1.30	0.21	0.12	0.13	0.10	0.01	6.49	97.3
32: AMQ-ENV15-104	48.3	9.06	10.2	17.0	5.55	1.02	2.25	0.53	0.24	0.16	0.27	0.02	4.77	99.4
33: AMQ-ENV15-094	47.8	9.79	10.7	14.2	7.50	1.25	1.98	0.62	0.32	0.20	0.18	0.02	4.90	99.5
34: AMQ-ENV15-024	54.3	11.0	8.44	10.4	5.94	2.17	2.88	0.58	0.28	0.15	0.14	0.01	3.14	99.4
35: AMQ-ENV15-023	55.4	11.5	9.02	8.73	5.49	2.05	3.66	0.68	0.27	0.16	0.10	0.02	2.77	99.8
36: AMQ-ENV15-022	50.8	9.81	9.98	14.3	6.18	1.46	3.15	0.69	0.43	0.16	0.19	0.03	4.22	101.4
37: AMQ-ENV15-042	60.0	18.5	5.65	2.55	1.99	3.39	3.61	0.58	0.17	0.09	0.03	0.02	3.14	99.7
38: AMQ-ENV15-032	52.7	11.7	9.57	9.71	5.79	2.17	3.39	0.71	0.29	0.17	0.12	0.02	2.98	99.3
39: AMQ-ENV15-003	49.7	10.3	10.7	12.8	6.81	1.34	2.16	0.69	0.28	0.19	0.16	0.03	4.20	99.4
40: AMQ-ENV15-001	59.1	13.0	7.84	6.80	2.59	2.53	3.76	0.54	0.20	0.10	0.11	0.01	2.86	99.4
41: AMQ-ENV15-047	47.4	6.82	10.3	21.3	4.72	0.23	2.07	0.39	0.18	0.16	0.25	0.02	5.84	99.8
42: AMQ-ENV15-006	47.2	8.79	10.1	18.8	4.56	0.94	2.61	0.47	0.23	0.15	0.24	0.02	5.97	100.1
43: AMQ-ENV15-008	74.0	3.75	13.3	1.44	1.43	0.07	0.69	0.10	0.08	0.25	0.06	< 0.01	3.70	98.9
44: AMQ-ENV15-009	76.4	1.35	14.5	2.02	1.70	0.10	0.36	0.04	0.13	0.36	0.05	< 0.01	2.21	99.2
45: AMQ-ENV15-012	58.1	15.1	8.17	4.89	2.79	4.21	2.60	0.69	0.26	0.11	0.07	0.02	2.64	99.7
46: AMQ-ENV15-013	50.9	9.61	9.42	15.1	4.56	2.11	2.76	0.54	0.24	0.14	0.19	0.03	3.85	99.4
47: AMQ-ENV15-004	54.2	10.5	9.22	12.8	4.79	2.05	3.10	0.56	0.24	0.15	0.18	0.03	3.48	101.3
48: AMQ-ENV15-005	46.3	7.42	10.3	20.7	4.38	0.19	2.22	0.43	0.20	0.16	0.27	0.02	6.76	99.4
49: AMQ-ENV15-091	70.7	7.69	12.3	1.81	0.73	0.52	1.95	0.16	0.13	0.22	0.05	< 0.01	3.43	99.7
50: AMQ-ENV15-101	49.3	14.3	11.8	8.39	3.55	2.37	2.08	0.72	0.26	0.14	0.10	0.02	6.14	99.2
51: AMQ-ENV15-102	56.8	14.8	8.65	4.72	3.27	4.17	2.25	0.72	0.26	0.13	0.06	0.02	3.02	98.9
52: AMQ-ENV15-103	47.4	9.63	11.5	13.4	7.96	0.77	2.83	0.73	0.33	0.21	0.16	0.03	4.62	99.6
53: AMQ-ENV15-098	62.1	17.4	6.14	2.10	1.28	3.21	3.87	0.54	0.17	0.07	0.03	0.02	2.54	99.4
54: AMQ-ENV15-093	59.7	13.1	6.59	5.75	2.55	3.19	2.68	0.47	0.15	0.10	0.07	0.01	5.11	99.5
55: AMQ-ENV15-097	70.8	13.1	4.43	1.71	1.46	2.21	3.41	0.34	0.12	0.08	0.03	< 0.01	2.21	99.9
56: AMQ-ENV15-110	64.0	14.5	5.64	2.40	2.35	3.31	3.20	0.48	0.15	0.07	0.04	0.01	3.21	99.3
57: AMQ-ENV15-106	67.7	14.4	4.89	1.56	2.28	2.03	3.34	0.43	0.16	0.09	0.03	0.01	2.37	99.3
58: AMQ-ENV15-107	63.5	17.1	5.41	2.09	1.65	2.79	3.71	0.51	0.15	0.08	0.02	0.01	2.47	99.5
59: AMQ-ENV15-108	62.4	18.4	4.69	1.79	1.33	3.42	4.15	0.57	0.16	0.06	0.02	0.02	2.54	99.5
60: AMQ-ENV15-064	59.9	18.7	6.23	2.42	1.45	3.83	3.44	0.61	0.18	0.09	0.02	0.02	2.73	99.6
61: AMQ-ENV15-065	62.7	17.5	5.31	2.06	1.56	3.58	3.57	0.54	0.16	0.08	0.03	< 0.01	2.44	99.5
62: AMQ-ENV15-066	61.8	17.3	6.38	2.32	1.62	2.41	3.92	0.56	0.17	0.09	0.03	0.02	2.87	99.4
63: AMQ-ENV15-112	68.5	10.7	8.39	2.10	2.26	1.71	2.34	0.30	0.11	0.13	0.03	< 0.01	2.20	98.8
64: AMQ-ENV15-049	50.1	10.2	10.7	12.3	6.85	1.16	2.50	0.68	0.28	0.20	0.15	0.02	4.49	99.7
65: AMQ-ENV15-048	60.2	13.7	11.5	2.42	2.48	0.88	3.53	0.28	0.13	0.19	< 0.01	< 0.01	3.76	99.1
66: AMQ-ENV15-025	64.9	3.30	18.0	2.86	3.84	0.18	1.19	0.09	0.12	0.28	< 0.01	< 0.01	3.06	97.8

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LR Report : **CA15167-AUG15**

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
67: AMQ-ENV15-054	63.9	11.4	9.67	1.89	1.50	1.34	3.05	0.34	0.18	0.21	< 0.01	< 0.01	5.03	98.5
68: AMQ-ENV15-073	67.8	14.5	5.93	1.82	1.36	2.07	3.39	0.32	0.09	0.11	< 0.01	< 0.01	2.05	99.4
69: AMQ-ENV15-075	65.0	15.6	5.20	1.50	2.10	2.96	3.65	0.44	0.19	0.12	< 0.01	< 0.01	2.51	99.3
70: AMQ-ENV15-074	62.2	17.3	5.72	2.06	1.55	3.25	3.49	0.55	0.18	0.07	0.01	0.02	2.66	99.1
71: AMQ-ENV15-002	60.8	14.6	9.13	2.78	2.71	3.21	2.54	0.93	0.29	0.11	0.02	0.02	2.75	99.8
72: AMQ-ENV15-100	53.1	17.0	11.5	4.01	1.66	2.58	4.50	1.05	0.33	0.11	< 0.01	0.02	3.56	99.4
73: AMQ-ENV15-077	58.0	15.1	8.90	2.52	4.05	3.32	2.63	0.87	0.26	0.12	0.02	< 0.01	3.69	99.5
74: AMQ-ENV15-019	60.9	6.35	19.6	3.22	2.17	0.36	1.56	0.14	0.10	0.40	0.05	< 0.01	4.40	99.3
75: AMQ-ENV15-046	66.3	2.48	20.7	2.64	1.55	0.08	0.63	0.06	0.12	0.27	< 0.01	< 0.01	3.59	98.4
76: AMQ-ENV15-037	77.1	3.97	10.2	1.26	0.17	0.05	1.24	0.08	0.08	0.20	< 0.01	< 0.01	4.48	98.8
77: AMQ-ENV15-007	54.3	8.63	12.7	8.92	2.86	1.42	2.56	0.36	0.19	0.19	0.08	0.01	5.73	98.0
78: AMQ-ENV15-092	66.1	2.26	19.5	2.86	1.81	0.11	0.66	0.08	0.04	0.84	0.03	< 0.01	3.94	98.2
79: AMQ-ENV15-122	40.5	6.82	11.2	18.1	9.54	0.35	1.83	0.35	0.07	0.26	0.32	0.02	9.72	99.1
80: AMQ-ENV15-088	65.9	5.08	18.4	1.90	1.25	0.21	1.03	0.13	0.08	0.29	< 0.01	0.01	4.19	98.5
81: AMQ-ENV15-095	65.6	15.4	4.11	1.50	1.44	2.47	4.27	0.41	0.13	0.09	0.01	< 0.01	3.03	98.5
82: AMQ-ENV15-096	61.3	9.92	15.6	2.06	2.09	0.58	2.62	0.33	0.14	0.22	< 0.01	< 0.01	3.52	98.4
83: AMQ-ENV15-085	83.6	4.07	7.06	1.28	0.58	0.10	1.34	0.11	0.02	0.07	< 0.01	< 0.01	1.88	100.1
84: AMQ-ENV15-058	62.9	13.0	11.0	2.22	1.40	0.96	3.55	0.28	0.13	0.26	0.03	< 0.01	4.11	99.8
85: AMQ-ENV15-056	61.3	18.1	5.70	2.17	1.40	2.46	4.11	0.58	0.19	0.09	0.01	0.02	3.31	99.5
86: AMQ-ENV15-115	71.1	2.07	18.4	1.91	2.19	0.17	0.54	0.06	0.15	0.26	0.02	< 0.01	2.80	99.6
87: AMQ-ENV15-111	39.8	7.10	10.8	23.1	7.44	0.13	0.05	0.40	0.03	0.22	0.34	0.02	10.4	99.9
88: AMQ-ENV15-124	46.3	5.16	9.44	19.1	10.1	0.27	1.46	0.26	0.04	0.26	0.25	0.01	6.84	99.4
89: AMQ-ENV15-123	43.2	6.04	9.14	19.9	6.31	0.46	1.09	0.31	0.16	0.17	0.24	< 0.01	12.7	99.6
90: AMQ-ENV15-116	69.5	12.6	3.81	0.93	1.36	3.06	3.61	0.45	0.11	0.05	< 0.01	< 0.01	4.30	99.8
91: AMQ-ENV15-130	65.9	12.8	4.78	1.49	1.15	2.32	3.57	0.42	0.13	0.06	0.06	< 0.01	6.76	99.5
92: AMQ-ENV15-131	74.0	11.5	3.12	1.16	1.18	2.41	3.52	0.38	0.10	0.03	0.02	< 0.01	2.59	100.1
93: AMQ-ENV15-132	73.9	11.5	2.90	1.11	1.09	2.76	3.57	0.36	0.09	0.07	0.02	< 0.01	1.74	99.0
94: AMQ-ENV15-117	67.7	12.2	5.37	1.67	2.14	2.90	3.17	0.65	0.18	0.08	0.02	0.01	2.50	98.5
95: AMQ-ENV15-118	65.0	10.9	5.84	4.99	2.91	2.10	2.85	0.53	0.18	0.11	0.08	< 0.01	4.15	99.6
96: AMQ-ENV15-119	72.7	11.0	4.00	1.89	1.54	2.44	3.11	0.43	0.15	0.04	0.07	< 0.01	2.86	100.2
97: AMQ-ENV15-125	71.1	12.4	3.67	1.15	1.21	2.73	3.95	0.37	0.11	0.05	0.04	0.01	2.73	99.5
98: AMQ-ENV15-126	72.5	11.8	3.49	1.15	1.31	2.70	3.72	0.39	0.12	0.05	0.06	< 0.01	1.78	99.0
99: AMQ-ENV15-127	73.5	12.0	3.42	0.96	1.23	2.78	3.79	0.40	0.10	0.04	0.04	< 0.01	2.15	100.5
100: AMQ-ENV15-128	73.4	12.0	3.16	1.35	1.35	2.92	3.75	0.33	0.10	0.03	0.06	< 0.01	2.07	100.5
101: AMQ-ENV15-129	71.0	12.1	3.89	1.27	1.28	2.61	3.58	0.37	0.11	0.05	0.05	< 0.01	3.55	99.9
102: AMQ-ENV15-105	44.8	8.07	11.5	20.1	7.42	0.43	0.44	0.59	0.04	0.20	0.30	0.03	5.89	99.8
103: AMQ-ENV15-121	42.1	7.46	10.4	21.6	4.52	0.46	0.80	0.42	0.03	0.15	0.26	0.04	11.5	99.8
104: AMQ-ENV15-068	42.2	8.34	13.0	19.5	7.21	0.55	0.49	0.41	0.02	0.33	0.38	0.03	7.22	99.8
105: AMQ-ENV15-051	44.7	6.95	9.24	19.2	5.63	0.41	1.25	0.34	0.02	0.17	0.27	0.02	11.6	99.9

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LR Report : **CA15167-AUG15**

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
106: AMQ-ENV15-071	38.5	7.24	10.9	22.9	5.91	0.04	0.39	0.36	0.03	0.21	0.34	0.03	12.8	99.7
107: AMQ-ENV15-084	40.3	6.17	9.65	25.6	4.37	0.02	0.01	0.30	0.03	0.14	0.31	0.02	12.6	99.6
108: AMQ-ENV15-083	42.7	6.78	10.1	22.2	7.21	0.09	1.21	0.33	0.01	0.19	0.30	0.01	8.18	99.3
109: AMQ-ENV15-050	50.0	10.2	9.91	13.0	5.94	1.22	2.31	0.54	0.16	0.19	0.19	0.02	5.73	99.4
110: AMQ-ENV15-044	47.2	8.37	11.6	15.3	8.79	0.83	1.50	0.66	0.25	0.25	0.19	0.02	4.58	99.6
111: AMQ-ENV15-070	50.5	10.1	9.97	13.7	4.92	1.15	3.32	0.57	0.24	0.16	0.19	0.03	4.56	99.5
112: AMQ-ENV15-072	48.0	9.24	10.2	17.4	5.91	0.85	2.96	0.47	0.22	0.18	0.23	0.02	3.79	99.6
113: AMQ-ENV15-120	62.1	17.6	5.35	2.17	1.55	1.77	5.08	0.51	0.12	0.10	0.01	< 0.01	2.52	98.8
114: AMQ-ENV15-113	64.1	16.4	5.13	2.12	1.95	2.51	4.07	0.51	0.16	0.09	< 0.01	0.01	2.11	99.2
115: AMQ-ENV15-052	47.4	9.11	11.2	14.2	6.24	0.13	2.44	0.67	0.27	0.19	0.20	0.02	7.36	99.4
116: AMQ-ENV15-060	64.1	16.5	5.35	1.96	1.70	2.53	4.24	0.51	0.15	0.08	0.01	0.01	1.99	99.1
117: AMQ-ENV15-062	39.0	6.83	10.0	23.2	5.66	0.02	0.07	0.34	0.03	0.16	0.31	0.02	14.1	99.8
118: AMQ-ENV15-063	61.4	17.4	6.66	2.35	1.94	1.95	4.72	0.55	0.16	0.09	0.01	< 0.01	2.01	99.2
119: AMQ-ENV15-114	53.4	16.8	10.9	2.87	6.26	3.43	1.69	1.40	0.49	0.14	0.01	0.03	2.40	99.8
120: AMQ-ENV15-078	57.7	14.9	9.32	2.96	3.75	3.28	2.32	1.05	0.33	0.12	0.02	0.01	3.45	99.2
121: AMQ-ENV15-043	78.3	2.25	11.1	1.16	1.29	0.10	0.49	0.06	0.03	0.26	0.05	< 0.01	4.20	99.3
122: AMQ-ENV15-067	67.8	1.71	16.3	1.88	3.50	0.15	0.40	0.05	0.16	0.45	0.03	< 0.01	5.90	98.4
123: AMQ-ENV15-061	63.8	14.7	7.22	2.15	2.40	2.43	2.99	0.47	0.17	0.09	0.02	< 0.01	3.05	99.5

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc.
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01-September-2015

Agnico Eagle Mines Limited
Attn : Serge Ouellet

10200, route de Pressac, Rouyn-Noranda
, J0Y 1C0
Phone: (819) 759-3700 x5820, Fax:(819) 759-3663

Date Rec. : 13 August 2015
LR Report: **CA15168-AUG15**
Reference: OP-460193-J

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample Date & Time	F µg/g	Hg µg/g	Al µg/g	Ag µg/g	As µg/g	Ba µg/g	Be µg/g	Bi µg/g	B µg/g	Ca µg/g	Cd µg/g	Co µg/g
3: Analysis Approval Date		31-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15
4: Analysis Approval Time		08:18	10:16	15:30	14:02	14:02	14:02	14:02	14:02	14:02	15:31	14:03	14:03
5: AMQ-ENV15-028	Date:N/A	78	< 0.05	18000	0.05	1000	58	0.19	< 0.09	5	40000	0.04	79
6: AMQ-ENV15-029	Date:N/A	26	< 0.05	12000	0.03	300	7.4	0.06	< 0.09	2	32000	0.07	71
7: AMQ-ENV15-030	Date:N/A	8	< 0.05	11000	0.09	300	1.3	0.08	< 0.09	1	31000	0.13	57
8: AMQ-ENV15-016	Date:N/A	79	< 0.05	27000	0.28	1200	120	0.52	0.14	5	38000	0.04	76
9: AMQ-ENV15-011	Date:N/A	73	< 0.05	19000	0.11	830	130	0.31	< 0.09	2	18000	0.03	60
10: AMQ-ENV15-014	Date:N/A	13	< 0.05	20000	0.08	24	57	0.11	< 0.09	< 1	24000	0.04	29
11: AMQ-ENV15-090	Date:N/A	64	< 0.05	20000	0.43	1400	95	0.16	< 0.09	1	20000	0.07	84
12: AMQ-ENV15-026	Date:N/A	28	< 0.05	12000	0.10	2400	22	0.18	0.10	1	47000	0.07	89
13: AMQ-ENV15-055	Date:N/A	7	< 0.05	16000	0.04	320	3.6	0.07	< 0.09	1	21000	0.03	80
14: AMQ-ENV15-021	Date:N/A	94	< 0.05	16000	0.07	550	50	0.29	< 0.09	< 1	21000	0.06	63
15: AMQ-ENV15-027	Date:N/A	57	< 0.05	15000	1.1	1400	59	0.12	0.26	2	14000	0.03	73
16: AMQ-ENV15-040	Date:N/A	8	< 0.05	14000	0.13	26	5.2	0.06	< 0.09	< 1	45000	0.04	23
17: AMQ-ENV15-041	Date:N/A	6	< 0.05	15000	< 0.01	90	4.7	0.06	< 0.09	< 1	15000	0.06	38
18: AMQ-ENV15-034	Date:N/A	32	< 0.05	19000	0.30	800	18	0.11	0.29	1	15000	0.03	71
19: AMQ-ENV15-045	Date:N/A	84	< 0.05	21000	0.09	1200	50	0.10	0.10	1	25000	0.05	81
20: AMQ-ENV15-038	Date:N/A	123	< 0.05	25000	0.11	580	78	0.17	< 0.09	2	17000	0.03	66
21: AMQ-ENV15-039	Date:N/A	229	< 0.05	20000	0.05	640	88	0.24	< 0.09	3	32000	0.03	55
22: AMQ-ENV15-035	Date:N/A	56	< 0.05	8900	0.18	320	17	0.10	0.12	1	11000	< 0.02	47
23: AMQ-ENV15-010	Date:N/A	116	< 0.05	16000	0.47	1600	120	0.22	0.15	2	16000	0.04	75
24: AMQ-ENV15-086	Date:N/A	74	< 0.05	26000	0.41	920	110	0.32	< 0.09	< 1	14000	0.04	73

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA15168-AUG15**

Sample ID	Sample Date & Time	F µg/g	Hg µg/g	Al µg/g	Ag µg/g	As µg/g	Ba µg/g	Be µg/g	Bi µg/g	B µg/g	Ca µg/g	Cd µg/g	Co µg/g
25: AMQ-ENV15-099	Date:N/A	18	< 0.05	11000	0.03	770	3.2	0.10	< 0.09	2	40000	0.04	46
26: AMQ-ENV15-089	Date:N/A	72	< 0.05	22000	1.5	1300	120	0.16	< 0.09	1	21000	0.08	75
27: AMQ-ENV15-020	Date:N/A	145	< 0.05	21000	0.13	79	350	0.67	0.10	3	13000	0.04	21
28: AMQ-ENV15-033	Date:N/A	149	< 0.05	26000	0.11	80	500	0.94	< 0.09	< 1	27000	0.11	27
29: AMQ-ENV15-109	Date:N/A	102	< 0.05	24000	0.05	230	320	0.90	< 0.09	< 1	44000	0.12	40
30: AMQ-ENV15-081	Date:N/A	279	< 0.05	23000	0.12	14	120	0.55	0.18	3	12000	0.06	19
31: AMQ-ENV15-076	Date:N/A	144	< 0.05	12000	0.39	170	160	0.62	0.39	7	18000	0.06	22
32: AMQ-ENV15-104	Date:N/A	163	< 0.05	30000	0.05	2.6	500	0.67	< 0.09	1	13000	0.04	27
33: AMQ-ENV15-094	Date:N/A	277	< 0.05	31000	0.11	14	370	0.52	< 0.09	2	18000	0.05	29
34: AMQ-ENV15-024	Date:N/A	261	< 0.05	21000	0.10	3.4	150	0.49	0.17	2	10000	0.04	18
35: AMQ-ENV15-023	Date:N/A	228	< 0.05	25000	0.11	1.8	280	0.55	0.10	2	11000	0.05	18
36: AMQ-ENV15-022	Date:N/A	348	< 0.05	32000	0.10	2.5	900	0.95	0.11	1	19000	0.06	27
37: AMQ-ENV15-042	Date:N/A	155	< 0.05	20000	0.15	18	110	0.34	0.27	3	5800	0.08	14
38: AMQ-ENV15-032	Date:N/A	249	< 0.05	25000	0.09	2.9	240	0.55	< 0.09	1	12000	0.03	20
39: AMQ-ENV15-003	Date:N/A	266	< 0.05	30000	0.08	8.8	260	0.55	< 0.09	1	15000	0.09	24
40: AMQ-ENV15-001	Date:N/A	202	< 0.05	27000	0.06	16	300	0.68	0.16	8	6600	0.04	22
41: AMQ-ENV15-047	Date:N/A	119	< 0.05	28000	0.07	20	300	0.59	< 0.09	2	13000	0.03	31
42: AMQ-ENV15-006	Date:N/A	152	< 0.05	30000	0.04	16	470	0.80	< 0.09	4	12000	0.02	28
43: AMQ-ENV15-008	Date:N/A	116	< 0.05	12000	0.11	46	19	0.62	0.29	5	8500	0.34	4.8
44: AMQ-ENV15-009	Date:N/A	171	< 0.05	4200	0.16	1100	10	0.45	0.14	4	10000	0.03	2.3
45: AMQ-ENV15-012	Date:N/A	272	< 0.05	27000	0.08	13	340	0.52	< 0.09	2	8200	0.22	19
46: AMQ-ENV15-013	Date:N/A	152	< 0.05	28000	0.06	2.7	650	0.79	< 0.09	< 1	13000	0.04	26
47: AMQ-ENV15-004	Date:N/A	171	< 0.05	30000	0.06	3.6	600	0.81	0.10	2	10000	0.04	25
48: AMQ-ENV15-005	Date:N/A	127	< 0.05	28000	0.05	12	400	0.71	< 0.09	2	18000	0.03	27
49: AMQ-ENV15-091	Date:N/A	134	< 0.05	17000	0.18	690	52	0.56	0.23	9	3000	0.04	4.2
50: AMQ-ENV15-101	Date:N/A	228	< 0.05	42000	0.08	9.2	280	0.91	0.12	1	25000	0.13	21
51: AMQ-ENV15-102	Date:N/A	230	< 0.05	31000	0.07	7.8	400	0.37	< 0.09	2	15000	0.10	22
52: AMQ-ENV15-103	Date:N/A	263	< 0.05	33000	0.04	1.7	430	0.55	< 0.09	1	21000	0.03	25
53: AMQ-ENV15-098	Date:N/A	165	< 0.05	20000	0.11	38	110	0.41	0.21	7	3600	0.09	12
54: AMQ-ENV15-093	Date:N/A	176	< 0.05	22000	0.24	88	150	0.35	0.52	3	19000	0.44	19
55: AMQ-ENV15-097	Date:N/A	141	< 0.05	14000	0.21	53	100	0.45	0.40	6	6400	0.43	7.3
56: AMQ-ENV15-110	Date:N/A	147	< 0.05	19000	0.10	8.1	110	0.33	0.25	5	14000	0.09	12
57: AMQ-ENV15-106	Date:N/A	198	< 0.05	15000	0.08	3.0	110	0.36	0.16	3	5600	0.08	8.4
58: AMQ-ENV15-107	Date:N/A	187	< 0.05	20000	0.08	20	100	0.26	0.18	3	5200	0.06	12
59: AMQ-ENV15-108	Date:N/A	186	< 0.05	17000	0.12	24	120	0.29	0.27	5	4100	0.14	15
60: AMQ-ENV15-064	Date:N/A	153	< 0.05	21000	0.14	37	89	0.32	0.22	7	3100	0.09	14
61: AMQ-ENV15-065	Date:N/A	176	< 0.05	19000	0.28	29	95	0.31	0.57	7	4200	0.14	12

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LR Report : **CA15168-AUG15**

Sample ID	Sample Date & Time	F µg/g	Hg µg/g	Al µg/g	Ag µg/g	As µg/g	Ba µg/g	Be µg/g	Bi µg/g	B µg/g	Ca µg/g	Cd µg/g	Co µg/g
62: AMQ-ENV15-066	Date:N/A	171	< 0.05	22000	0.14	27	110	0.38	0.22	8	4200	0.12	15
63: AMQ-ENV15-112	Date:N/A	351	< 0.05	15000	0.27	46	52	0.25	0.42	3	3300	0.18	6.6
64: AMQ-ENV15-049	Date:N/A	219	< 0.05	27000	0.05	2.5	180	0.53	< 0.09	2	14000	0.03	21
65: AMQ-ENV15-048	Date:N/A	181	< 0.05	26000	0.09	28	48	0.76	0.25	4	14000	0.08	3.5
66: AMQ-ENV15-025	Date:N/A	173	< 0.05	7300	0.16	88	14	1.4	0.32	3	26000	0.26	3.0
67: AMQ-ENV15-054	Date:N/A	222	< 0.05	13000	0.97	86	76	0.39	0.37	7	10000	0.06	12
68: AMQ-ENV15-073	Date:N/A	136	< 0.05	19000	0.14	44	88	0.46	0.25	7	2500	0.11	5.8
69: AMQ-ENV15-075	Date:N/A	206	< 0.05	11000	0.34	100	65	0.44	0.51	7	7200	0.18	7.9
70: AMQ-ENV15-074	Date:N/A	180	< 0.05	18000	0.16	27	66	0.25	0.37	3	5900	0.11	13
71: AMQ-ENV15-002	Date:N/A	247	< 0.05	26000	0.08	49	130	0.47	0.11	3	7900	0.12	17
72: AMQ-ENV15-100	Date:N/A	268	< 0.05	34000	0.19	15	140	0.48	0.29	4	11000	0.41	16
73: AMQ-ENV15-077	Date:N/A	228	< 0.05	26000	0.04	19	190	0.39	< 0.09	3	22000	0.08	15
74: AMQ-ENV15-019	Date:N/A	175	< 0.05	12000	0.23	350	34	0.96	0.37	13	7300	0.07	8.5
75: AMQ-ENV15-046	Date:N/A	245	< 0.05	11000	0.23	56	14	1.4	0.29	15	11000	0.07	3.0
76: AMQ-ENV15-037	Date:N/A	202	< 0.05	7000	0.34	130	16	0.46	0.33	2	1200	0.03	5.3
77: AMQ-ENV15-007	Date:N/A	170	< 0.05	24000	0.43	90	230	1.0	0.22	3	18000	0.14	19
78: AMQ-ENV15-092	Date:N/A	74	< 0.05	8900	0.60	530	21	0.42	0.19	4	12000	0.06	18
79: AMQ-ENV15-122	Date:N/A	65	< 0.05	17000	0.55	560	50	1.00	0.49	3	7300	0.71	6.5
80: AMQ-ENV15-088	Date:N/A	152	< 0.05	27000	0.30	550	170	0.17	< 0.09	< 1	61000	0.09	65
81: AMQ-ENV15-095	Date:N/A	163	< 0.05	8300	0.19	170	82	0.40	0.26	3	9200	0.72	9.5
82: AMQ-ENV15-096	Date:N/A	230	< 0.05	28000	0.17	57	83	1.0	0.32	3	12000	0.12	6.8
83: AMQ-ENV15-085	Date:N/A	150	< 0.05	7900	2.1	550	32	0.30	< 0.09	2	4200	0.95	4.1
84: AMQ-ENV15-058	Date:N/A	176	< 0.05	16000	0.23	110	74	0.57	0.27	10	4300	0.05	6.6
85: AMQ-ENV15-056	Date:N/A	189	< 0.05	18000	0.21	41	100	0.29	0.32	6	4900	0.09	13
86: AMQ-ENV15-115	Date:N/A	201	< 0.05	9200	0.14	31	15	0.70	0.26	4	13000	0.03	3.3
87: AMQ-ENV15-111	Date:N/A	17	< 0.05	14000	0.17	480	2.7	0.09	< 0.09	3	29000	0.03	66
88: AMQ-ENV15-124	Date:N/A	110	< 0.05	18000	0.06	910	160	0.52	< 0.09	1	37000	0.06	47
89: AMQ-ENV15-123	Date:N/A	93	< 0.05	19000	0.09	360	220	0.76	< 0.09	1	46000	0.13	46
90: AMQ-ENV15-116	Date:N/A	75	< 0.05	7000	< 0.01	5.4	27	0.28	0.13	< 1	1100	0.05	4.5
91: AMQ-ENV15-130	Date:N/A	100	< 0.05	14000	0.06	6.8	96	1.00	0.43	3	1800	0.04	7.6
92: AMQ-ENV15-131	Date:N/A	100	< 0.05	6900	0.01	3.1	45	0.40	0.20	1	1200	0.03	4.9
93: AMQ-ENV15-132	Date:N/A	95	< 0.05	5400	< 0.01	2.8	32	0.36	0.20	< 1	1100	0.03	4.2
94: AMQ-ENV15-117	Date:N/A	134	< 0.05	9400	0.01	5.2	50	0.35	0.12	1	2400	0.05	7.9
95: AMQ-ENV15-118	Date:N/A	139	< 0.05	15000	0.02	5.5	120	0.47	0.15	1	2700	0.02	13
96: AMQ-ENV15-119	Date:N/A	115	< 0.05	9600	0.01	5.2	72	0.37	0.15	3	2000	0.04	6.8
97: AMQ-ENV15-125	Date:N/A	98	< 0.05	8200	0.02	3.5	60	0.54	0.30	2	1700	0.04	5.2
98: AMQ-ENV15-126	Date:N/A	109	< 0.05	8900	0.04	2.5	65	0.51	0.24	2	2000	0.04	5.4

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LR Report : **CA15168-AUG15**

Sample ID	Sample Date & Time	F µg/g	Hg µg/g	Al µg/g	Ag µg/g	As µg/g	Ba µg/g	Be µg/g	Bi µg/g	B µg/g	Ca µg/g	Cd µg/g	Co µg/g
99: AMQ-ENV15-127	Date:N/A	108	< 0.05	7900	0.03	2.9	60	0.53	0.24	2	1800	0.03	4.8
100: AMQ-ENV15-128	Date:N/A	92	< 0.05	7100	0.01	2.9	58	0.38	0.15	2	1500	0.04	4.6
101: AMQ-ENV15-129	Date:N/A	104	< 0.05	9200	0.02	5.2	64	0.59	0.31	2	1500	0.04	6.9
102: AMQ-ENV15-105	Date:N/A	41	< 0.05	17000	0.10	680	44	0.17	< 0.09	1	9700	0.02	51
103: AMQ-ENV15-121	Date:N/A	43	< 0.05	17000	0.16	490	83	0.31	< 0.09	1	33000	0.19	53
104: AMQ-ENV15-068	Date:N/A	43	< 0.05	22000	0.02	490	98	0.09	< 0.09	1	16000	0.03	70
105: AMQ-ENV15-051	Date:N/A	65	< 0.05	20000	0.05	690	120	0.62	< 0.09	< 1	40000	0.09	57
106: AMQ-ENV15-071	Date:N/A	24	< 0.05	17000	0.10	250	32	0.19	< 0.09	< 1	42000	0.11	56
107: AMQ-ENV15-084	Date:N/A	5	< 0.05	12000	0.04	300	2.4	0.05	< 0.09	< 1	34000	0.10	57
108: AMQ-ENV15-083	Date:N/A	59	< 0.05	23000	0.06	310	84	0.35	< 0.09	< 1	33000	0.06	60
109: AMQ-ENV15-050	Date:N/A	170	< 0.05	33000	0.09	440	300	0.72	< 0.09	1	25000	0.11	41
110: AMQ-ENV15-044	Date:N/A	241	< 0.05	27000	0.03	4.4	400	0.43	< 0.09	1	19000	0.04	23
111: AMQ-ENV15-070	Date:N/A	170	< 0.05	37000	0.05	34	670	0.98	< 0.09	2	20000	0.06	30
112: AMQ-ENV15-072	Date:N/A	200	< 0.05	34000	0.03	280	440	0.83	< 0.09	1	8700	0.04	41
113: AMQ-ENV15-120	Date:N/A	185	< 0.05	17000	0.45	130	120	0.68	0.14	5	5500	0.14	12
114: AMQ-ENV15-113	Date:N/A	198	< 0.05	17000	0.31	93	120	0.31	0.40	3	7400	0.19	12
115: AMQ-ENV15-052	Date:N/A	193	< 0.05	39000	0.01	93	540	0.83	< 0.09	< 1	37000	0.06	38
116: AMQ-ENV15-060	Date:N/A	216	< 0.05	18000	0.16	84	99	0.25	0.29	2	4400	0.10	12
117: AMQ-ENV15-062	Date:N/A	10	< 0.05	15000	0.06	510	6.7	0.10	< 0.09	< 1	43000	0.13	51
118: AMQ-ENV15-063	Date:N/A	227	< 0.05	25000	0.14	59	150	0.14	0.16	2	5800	0.06	13
119: AMQ-ENV15-114	Date:N/A	318	< 0.05	28000	0.03	13	240	0.54	< 0.09	3	11000	0.06	19
120: AMQ-ENV15-078	Date:N/A	224	< 0.05	28000	0.06	12	120	0.42	< 0.09	4	18000	0.11	16
121: AMQ-ENV15-043	Date:N/A	107	< 0.05	8700	1.4	120	31	0.58	0.30	2	9600	0.56	4.4
122: AMQ-ENV15-067	Date:N/A	192	< 0.05	7700	0.35	28	39	0.82	0.32	2	27000	0.20	4.4
123: AMQ-ENV15-061	Date:N/A	212	< 0.05	20000	0.08	17	95	0.23	0.21	3	8200	0.05	12

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g	Sb µg/g
3: Analysis Approval Date	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15
4: Analysis Approval Time	14:03	14:03	15:31	15:31	14:04	15:31	14:04	14:04	15:32	14:04	15:32	14:04	14:04
5: AMQ-ENV15-028	810	7.6	35000	9400	28	25000	960	0.6	140	720	160	1.4	4.4
6: AMQ-ENV15-029	610	8.3	23000	830	9	31000	1100	0.3	20	240	91	0.53	< 0.8
7: AMQ-ENV15-030	640	5.1	25000	74	3	35000	760	0.3	19	260	110	0.82	< 0.8
8: AMQ-ENV15-016	1350	60	80000	13000	19	30000	1800	0.5	55	1060	120	3.0	3.4
9: AMQ-ENV15-011	930	14	30000	18000	27	19000	670	0.5	180	600	220	0.71	3.0
10: AMQ-ENV15-014	860	33	31000	5400	13	41000	570	0.1	22	200	86	0.38	< 0.8
11: AMQ-ENV15-090	1170	64	41000	15000	25	26000	980	0.4	130	1110	110	1.5	8.5

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA15168-AUG15**

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g	Sb µg/g
12: AMQ-ENV15-026	650	9.9	20000	2800	5	30000	1100	0.4	27	1370	63	2.5	3.5
13: AMQ-ENV15-055	910	16	26000	310	4	36000	510	0.2	18	370	89	0.61	1.5
14: AMQ-ENV15-021	850	28	27000	4000	13	25000	540	0.4	45	510	490	1.8	2.7
15: AMQ-ENV15-027	1090	47	110000	7600	17	9400	1700	0.4	270	1020	90	2.2	4.6
16: AMQ-ENV15-040	730	15	22000	410	5	32000	680	< 0.1	15	230	74	0.80	< 0.8
17: AMQ-ENV15-041	680	5.5	22000	530	9	31000	450	< 0.1	14	170	110	0.41	< 0.8
18: AMQ-ENV15-034	1250	64	130000	2400	9	11000	2400	0.6	270	930	110	1.3	3.1
19: AMQ-ENV15-045	1170	15	68000	6000	21	16000	1900	0.3	190	920	210	1.0	5.6
20: AMQ-ENV15-038	1390	26	130000	12000	28	15000	2200	0.5	160	790	100	0.93	3.5
21: AMQ-ENV15-039	970	1.9	32000	15000	25	44000	720	0.2	96	610	810	0.52	3.3
22: AMQ-ENV15-035	820	47	150000	2800	8	5700	1300	0.5	200	620	70	0.81	1.7
23: AMQ-ENV15-010	1060	26	110000	11000	20	8100	1600	0.5	250	1030	160	1.2	5.2
24: AMQ-ENV15-086	1330	48	37000	16000	29	35000	600	0.2	47	710	97	0.79	2.5
25: AMQ-ENV15-099	540	7.6	25000	160	< 2	39000	820	0.1	19	550	220	0.58	1.9
26: AMQ-ENV15-089	980	85	100000	15000	22	13000	1800	0.5	160	940	120	4.7	5.2
27: AMQ-ENV15-020	650	36	41000	13000	19	31000	540	0.5	110	170	670	5.6	< 0.8
28: AMQ-ENV15-033	840	29	43000	24000	21	48000	730	0.6	150	200	890	4.6	< 0.8
29: AMQ-ENV15-109	830	33	42000	18000	16	51000	920	0.5	110	310	840	8.0	< 0.8
30: AMQ-ENV15-081	270	43	41000	11000	25	22000	460	1.1	300	87	990	14	< 0.8
31: AMQ-ENV15-076	420	46	58000	7000	18	23000	760	1.5	57	150	470	9.7	1.0
32: AMQ-ENV15-104	1130	35	42000	19000	27	44000	500	0.5	270	250	1000	13	< 0.8
33: AMQ-ENV15-094	720	57	43000	16000	29	38000	650	1.4	290	200	1300	8.4	< 0.8
34: AMQ-ENV15-024	490	51	31000	12000	23	25000	350	0.8	630	140	1200	8.5	< 0.8
35: AMQ-ENV15-023	360	68	37000	21000	18	23000	450	2.6	810	86	1100	9.8	< 0.8
36: AMQ-ENV15-022	810	33	45000	25000	29	44000	520	0.6	520	220	1800	11	< 0.8
37: AMQ-ENV15-042	85	22	33000	6400	16	11000	470	3.9	1000	34	580	14	< 0.8
38: AMQ-ENV15-032	450	51	39000	18000	23	27000	500	0.8	610	110	1200	3.4	< 0.8
39: AMQ-ENV15-003	640	40	43000	13000	31	35000	610	1.5	380	170	1200	14	< 0.8
40: AMQ-ENV15-001	490	42	45000	15000	31	28000	480	0.9	650	120	780	2.9	< 0.8
41: AMQ-ENV15-047	1130	46	41000	18000	29	48000	530	0.6	77	300	770	4.2	< 0.8
42: AMQ-ENV15-006	1040	36	44000	21000	35	50000	560	0.3	220	280	930	3.8	< 0.8
43: AMQ-ENV15-008	150	20	74000	2700	7	5600	950	8.3	280	24	300	4.7	1.4
44: AMQ-ENV15-009	110	15	54000	2300	2	4400	790	2.5	180	14	570	1.6	1.4
45: AMQ-ENV15-012	270	43	49000	13000	26	23000	580	2.6	1200	71	1100	22	< 0.8
46: AMQ-ENV15-013	830	52	43000	24000	26	43000	460	0.6	600	230	1000	3.2	< 0.8
47: AMQ-ENV15-004	800	42	43000	23000	30	40000	450	1.5	710	210	970	6.4	< 0.8
48: AMQ-ENV15-005	1090	17	42000	17000	27	49000	560	0.2	67	270	830	1.4	< 0.8

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA15168-AUG15**

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g	Sb µg/g
49: AMQ-ENV15-091	130	21	70000	7300	12	7700	900	6.7	300	18	490	7.5	1.4
50: AMQ-ENV15-101	410	28	69000	13000	31	41000	720	0.9	440	130	1100	13	< 0.8
51: AMQ-ENV15-102	310	51	54000	14000	23	26000	690	2.0	1500	93	1100	7.4	< 0.8
52: AMQ-ENV15-103	620	44	47000	21000	31	37000	650	0.5	230	150	1400	2.7	< 0.8
53: AMQ-ENV15-098	69	35	38000	11000	18	10000	480	4.4	830	33	670	8.1	< 0.8
54: AMQ-ENV15-093	230	19	41000	7700	15	26000	510	1.8	990	97	610	80	< 0.8
55: AMQ-ENV15-097	95	25	26000	10000	13	7500	410	5.9	750	21	440	19	< 0.8
56: AMQ-ENV15-110	93	29	35000	6200	19	13000	460	1.4	1300	38	620	15	< 0.8
57: AMQ-ENV15-106	74	20	27000	8900	11	7000	420	4.3	700	20	650	11	< 0.8
58: AMQ-ENV15-107	53	25	34000	10000	16	10000	460	2.9	1000	29	590	7.5	< 0.8
59: AMQ-ENV15-108	57	32	28000	10000	14	8000	320	4.2	1200	29	530	12	< 0.8
60: AMQ-ENV15-064	57	35	38000	6700	22	12000	550	2.7	1000	38	670	7.1	< 0.8
61: AMQ-ENV15-065	70	44	32000	9100	19	9800	450	4.6	1100	34	630	22	< 0.8
62: AMQ-ENV15-066	64	53	39000	9500	21	11000	510	3.2	830	41	670	10	< 0.8
63: AMQ-ENV15-112	91	20	48000	12000	11	9200	510	7.7	900	16	450	9.0	1.0
64: AMQ-ENV15-049	580	38	40000	11000	24	33000	580	0.7	320	130	1200	2.4	< 0.8
65: AMQ-ENV15-048	14	2.7	65000	11000	21	11000	940	5.7	380	11	540	12	< 0.8
66: AMQ-ENV15-025	6.5	16	64000	5200	4	5900	870	2.3	350	8.6	500	2.5	< 0.8
67: AMQ-ENV15-054	17	140	63000	6100	16	8600	740	3.2	420	67	740	20	< 0.8
68: AMQ-ENV15-073	18	18	36000	9400	16	8800	580	2.8	630	13	360	8.6	< 0.8
69: AMQ-ENV15-075	7.3	18	32000	5700	12	5800	520	3.2	710	13	760	5.4	< 0.8
70: AMQ-ENV15-074	24	34	34000	6400	11	9400	450	2.8	730	29	660	18	< 0.8
71: AMQ-ENV15-002	58	28	55000	11000	26	16000	590	2.2	590	21	1200	26	< 0.8
72: AMQ-ENV15-100	57	15	71000	15000	28	22000	590	1.4	370	25	1400	83	< 0.8
73: AMQ-ENV15-077	55	12	54000	12000	23	14000	580	2.0	840	19	1100	11	< 0.8
74: AMQ-ENV15-019	40	16	79000	6400	11	7800	910	2.2	240	72	370	12	2.0
75: AMQ-ENV15-046	9.1	11	87000	5600	4	7400	820	2.0	280	12	470	7.4	0.9
76: AMQ-ENV15-037	6.6	52	59000	3600	7	4300	540	2.0	71	22	320	18	1.4
77: AMQ-ENV15-007	360	46	71000	17000	21	31000	910	2.6	280	130	770	11	< 0.8
78: AMQ-ENV15-092	120	26	100000	5800	4	9000	2100	1.3	130	210	160	2.6	1.7
79: AMQ-ENV15-122	15	31	120000	5200	7	8700	1100	2.2	120	29	350	6.1	1.0
80: AMQ-ENV15-088	1240	110	48000	18000	19	44000	1100	0.4	130	550	290	2.5	1.6
81: AMQ-ENV15-095	37	20	23000	5300	7	4500	480	2.3	520	33	500	7.5	< 0.8
82: AMQ-ENV15-096	32	16	93000	13000	15	9500	940	3.0	310	29	620	7.7	< 0.8
83: AMQ-ENV15-085	13	20	47000	4500	5	6300	450	2.5	100	13	74	4.1	< 0.8
84: AMQ-ENV15-058	79	19	58000	8600	14	8500	880	5.0	380	19	530	6.4	< 0.8
85: AMQ-ENV15-056	43	30	32000	5800	17	9200	490	2.8	570	34	710	15	< 0.8

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA15168-AUG15**

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g	Sb µg/g
86: AMQ-ENV15-115	73	10	69000	5200	< 2	4900	730	1.6	980	13	610	1.8	1.2
87: AMQ-ENV15-111	760	39	26000	410	5	33000	770	0.2	20	420	89	1.2	3.7
88: AMQ-ENV15-124	980	21	28000	14000	23	29000	830	0.3	55	550	140	1.8	1.5
89: AMQ-ENV15-123	870	16	37000	10000	21	48000	1000	0.4	49	310	640	5.1	< 0.8
90: AMQ-ENV15-116	36	3.3	18000	1300	7	3100	190	0.7	180	11	430	5.1	< 0.8
91: AMQ-ENV15-130	160	17	28000	3100	15	6200	300	8.0	340	30	540	11	< 0.8
92: AMQ-ENV15-131	62	5.6	15000	1500	9	4000	180	0.6	210	16	400	6.0	< 0.8
93: AMQ-ENV15-132	40	4.9	14000	1200	7	3200	200	0.6	180	13	400	5.4	< 0.8
94: AMQ-ENV15-117	71	6.9	26000	2400	12	5500	260	0.6	300	20	740	5.4	< 0.8
95: AMQ-ENV15-118	300	19	25000	5200	14	13000	390	1.5	310	72	670	7.4	< 0.8
96: AMQ-ENV15-119	220	9.8	20000	3100	10	6300	200	7.2	560	35	590	5.5	< 0.8
97: AMQ-ENV15-125	120	8.7	19000	2300	9	4100	220	1.8	450	17	400	6.5	< 0.8
98: AMQ-ENV15-126	140	7.7	19000	3300	10	4300	240	6.0	770	18	480	6.6	< 0.8
99: AMQ-ENV15-127	110	6.7	18000	2600	9	3700	240	2.2	550	15	420	6.1	< 0.8
100: AMQ-ENV15-128	180	6.8	16000	2600	7	3800	200	6.8	620	20	400	5.0	< 0.8
101: AMQ-ENV15-129	160	11	20000	2400	10	4600	290	4.7	420	22	430	8.0	< 0.8
102: AMQ-ENV15-105	720	36	29000	3900	9	26000	340	0.3	33	440	170	0.61	< 0.8
103: AMQ-ENV15-121	560	40	33000	7500	10	38000	790	0.1	50	340	120	4.2	0.8
104: AMQ-ENV15-068	1250	8.4	40000	4600	13	35000	870	0.2	63	660	91	1.4	2.2
105: AMQ-ENV15-051	880	5.0	35000	12000	14	45000	880	0.3	70	460	75	2.1	1.4
106: AMQ-ENV15-071	840	28	31000	3800	6	42000	990	< 0.1	41	290	120	2.6	< 0.8
107: AMQ-ENV15-084	600	11	22000	120	3	40000	670	< 0.1	27	290	89	0.95	< 0.8
108: AMQ-ENV15-083	970	35	35000	11000	16	43000	650	0.1	59	510	61	1.9	< 0.8
109: AMQ-ENV15-050	770	25	48000	19000	19	44000	660	0.6	350	330	690	4.8	1.0
110: AMQ-ENV15-044	770	34	40000	13000	23	34000	620	0.2	220	180	1100	1.5	< 0.8
111: AMQ-ENV15-070	870	23	51000	31000	28	50000	570	0.7	340	240	1000	8.5	< 0.8
112: AMQ-ENV15-072	980	2.2	43000	27000	22	49000	470	0.9	210	360	920	2.7	< 0.8
113: AMQ-ENV15-120	27	23	31000	12000	14	9100	510	2.5	480	30	450	11	< 0.8
114: AMQ-ENV15-113	30	30	31000	13000	14	9700	490	2.3	660	30	620	20	< 0.8
115: AMQ-ENV15-052	780	7.8	57000	23000	20	53000	840	0.4	110	230	1200	3.1	< 0.8
116: AMQ-ENV15-060	28	32	33000	15000	11	9800	440	2.5	580	28	640	13	< 0.8
117: AMQ-ENV15-062	690	13	30000	720	5	48000	880	0.2	45	390	89	1.4	< 0.8
118: AMQ-ENV15-063	38	29	45000	20000	17	13000	470	2.2	550	35	730	7.5	< 0.8
119: AMQ-ENV15-114	49	19	60000	11000	38	17000	610	1.2	710	21	2100	2.5	< 0.8
120: AMQ-ENV15-078	83	27	58000	7300	25	17000	670	2.9	800	20	1300	18	< 0.8
121: AMQ-ENV15-043	140	28	74000	3500	4	5800	940	3.9	140	21	130	6.9	1.0
122: AMQ-ENV15-067	110	27	98000	3400	3	6900	2100	5.1	710	16	660	4.2	< 0.8

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LR Report : **CA15168-AUG15**

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g	Sb µg/g
123: AMQ-ENV15-061	72	40	43000	8400	14	10000	530	2.8	630	29	670	9.9	< 0.8

Sample ID	Se µg/g	Sn µg/g	Sr µg/g	Si µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g
3: Analysis Approval Date	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15
4: Analysis Approval Time	14:05	14:05	14:05	15:32	14:05	14:05	14:05	14:06	14:06
5: AMQ-ENV15-028	< 0.7	< 0.5	62	4300	700	0.20	0.023	51	23
6: AMQ-ENV15-029	< 0.7	< 0.5	72	2500	100	0.03	< 0.002	41	14
7: AMQ-ENV15-030	< 0.7	< 0.5	110	2400	39	< 0.02	0.004	44	13
8: AMQ-ENV15-016	< 0.7	< 0.5	55	4900	1100	0.41	0.062	76	39
9: AMQ-ENV15-011	< 0.7	< 0.5	31	5500	1000	0.32	< 0.002	61	32
10: AMQ-ENV15-014	< 0.7	< 0.5	68	2700	530	0.15	0.007	66	19
11: AMQ-ENV15-090	< 0.7	< 0.5	40	5000	1100	0.30	0.018	56	33
12: AMQ-ENV15-026	< 0.7	< 0.5	140	2500	250	0.09	0.006	37	19
13: AMQ-ENV15-055	< 0.7	< 0.5	37	2900	68	< 0.02	0.003	57	18
14: AMQ-ENV15-021	< 0.7	< 0.5	230	3900	400	0.12	0.43	43	22
15: AMQ-ENV15-027	< 0.7	< 0.5	16	6100	700	0.24	0.067	52	22
16: AMQ-ENV15-040	< 0.7	< 0.5	120	2900	87	< 0.02	< 0.002	48	11
17: AMQ-ENV15-041	< 0.7	< 0.5	45	2100	95	0.02	0.56	48	15
18: AMQ-ENV15-034	< 0.7	< 0.5	17	6300	320	0.12	0.15	60	28
19: AMQ-ENV15-045	< 0.7	< 0.5	37	6000	670	0.17	0.005	63	38
20: AMQ-ENV15-038	< 0.7	< 0.5	22	3800	1200	0.35	0.050	83	47
21: AMQ-ENV15-039	< 0.7	< 0.5	82	7900	750	0.36	< 0.002	56	32
22: AMQ-ENV15-035	< 0.7	< 0.5	8.2	4000	350	0.17	0.072	45	19
23: AMQ-ENV15-010	< 0.7	< 0.5	17	6400	1000	0.46	0.085	54	34
24: AMQ-ENV15-086	< 0.7	< 0.5	57	3900	970	0.33	< 0.002	77	38
25: AMQ-ENV15-099	< 0.7	< 0.5	120	2100	51	< 0.02	< 0.002	35	13
26: AMQ-ENV15-089	< 0.7	< 0.5	24	4500	1200	0.45	0.11	61	42
27: AMQ-ENV15-020	< 0.7	< 0.5	84	3700	1400	0.46	0.53	57	32
28: AMQ-ENV15-033	< 0.7	0.8	180	2900	2000	0.81	0.65	75	40
29: AMQ-ENV15-109	< 0.7	0.7	260	4100	1600	0.79	0.61	65	33
30: AMQ-ENV15-081	< 0.7	< 0.5	39	4700	1100	0.40	1.8	64	46
31: AMQ-ENV15-076	0.8	< 0.5	91	3300	690	0.31	0.36	28	22
32: AMQ-ENV15-104	< 0.7	< 0.5	110	12000	1900	0.55	0.85	93	46
33: AMQ-ENV15-094	< 0.7	< 0.5	87	6100	1400	0.35	0.50	80	53
34: AMQ-ENV15-024	< 0.7	< 0.5	49	9700	1200	0.31	1.2	46	36
35: AMQ-ENV15-023	< 0.7	< 0.5	56	10000	1800	0.49	1.2	59	44

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA15168-AUG15**

Sample ID	Se µg/g	Sn µg/g	Sr µg/g	Si µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g
36: AMQ-ENV15-022	< 0.7	0.5	210	12000	2500	0.62	1.1	88	48
37: AMQ-ENV15-042	< 0.7	< 0.5	31	10000	740	0.33	2.8	28	76
38: AMQ-ENV15-032	< 0.7	0.6	61	9500	1600	0.43	1.0	64	50
39: AMQ-ENV15-003	< 0.7	< 0.5	56	8400	1400	0.40	0.89	76	67
40: AMQ-ENV15-001	< 0.7	0.5	40	8600	1500	0.40	1.5	66	47
41: AMQ-ENV15-047	< 0.7	< 0.5	92	9400	1800	0.70	0.63	69	35
42: AMQ-ENV15-006	< 0.7	< 0.5	100	11000	2100	0.61	0.64	75	39
43: AMQ-ENV15-008	< 0.7	< 0.5	10.0	13000	160	0.09	0.84	9	69
44: AMQ-ENV15-009	< 0.7	< 0.5	16	13000	100	0.06	0.20	2	12
45: AMQ-ENV15-012	< 0.7	< 0.5	37	8900	1400	0.36	1.1	77	63
46: AMQ-ENV15-013	< 0.7	0.6	120	14000	2300	0.65	1.0	84	41
47: AMQ-ENV15-004	< 0.7	0.6	94	14000	2200	0.55	1.3	81	46
48: AMQ-ENV15-005	< 0.7	< 0.5	99	10000	1700	0.52	0.57	78	35
49: AMQ-ENV15-091	< 0.7	< 0.5	8.0	14000	400	0.27	2.0	10	37
50: AMQ-ENV15-101	< 0.7	0.8	90	7300	1500	0.37	1.3	89	77
51: AMQ-ENV15-102	< 0.7	< 0.5	68	13000	1600	0.37	0.80	89	70
52: AMQ-ENV15-103	< 0.7	< 0.5	89	6500	1500	0.44	0.38	78	55
53: AMQ-ENV15-098	< 0.7	< 0.5	21	7400	880	0.65	2.7	28	69
54: AMQ-ENV15-093	< 0.7	0.5	52	12000	950	0.25	1.9	48	94
55: AMQ-ENV15-097	< 0.7	< 0.5	20	7600	760	0.51	2.7	15	63
56: AMQ-ENV15-110	< 0.7	< 0.5	51	13000	940	0.19	3.5	43	53
57: AMQ-ENV15-106	< 0.7	< 0.5	39	7100	810	0.77	2.5	17	59
58: AMQ-ENV15-107	< 0.7	< 0.5	19	10000	920	0.69	3.0	29	68
59: AMQ-ENV15-108	< 0.7	< 0.5	16	11000	940	0.58	2.7	23	78
60: AMQ-ENV15-064	< 0.7	< 0.5	16	8400	750	0.34	2.3	32	72
61: AMQ-ENV15-065	< 0.7	< 0.5	18	9200	880	0.46	2.7	29	63
62: AMQ-ENV15-066	< 0.7	< 0.5	18	10000	860	0.49	2.5	26	74
63: AMQ-ENV15-112	< 0.7	< 0.5	10.0	10000	690	0.69	0.72	13	78
64: AMQ-ENV15-049	< 0.7	< 0.5	60	7700	1300	0.30	1.1	63	49
65: AMQ-ENV15-048	< 0.7	< 0.5	19	10000	760	0.48	2.6	15	46
66: AMQ-ENV15-025	< 0.7	< 0.5	38	7100	170	0.11	0.59	8	15
67: AMQ-ENV15-054	< 0.7	< 0.5	10	6400	410	0.21	2.0	20	28
68: AMQ-ENV15-073	< 0.7	< 0.5	17	9600	720	0.50	3.8	20	64
69: AMQ-ENV15-075	< 0.7	< 0.5	18	6200	460	0.28	1.7	10	57
70: AMQ-ENV15-074	< 0.7	< 0.5	20	7600	600	0.45	2.8	25	72
71: AMQ-ENV15-002	< 0.7	< 0.5	22	5400	1400	0.46	2.0	68	81
72: AMQ-ENV15-100	< 0.7	0.8	20	4900	1700	0.53	2.3	69	120

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA15168-AUG15**

Sample ID	Se µg/g	Sn µg/g	Sr µg/g	Si µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g
73: AMQ-ENV15-077	< 0.7	< 0.5	40	7800	1400	0.37	2.1	62	83
74: AMQ-ENV15-019	< 0.7	< 0.5	8.3	9400	330	0.26	3.4	10	21
75: AMQ-ENV15-046	< 0.7	< 0.5	16	9100	170	0.13	0.61	9	11
76: AMQ-ENV15-037	< 0.7	< 0.5	2.8	6400	160	0.18	0.98	8	16
77: AMQ-ENV15-007	< 0.7	0.6	190	5800	1300	0.78	0.94	48	46
78: AMQ-ENV15-092	1.4	< 0.5	16	9300	180	0.10	0.13	15	29
79: AMQ-ENV15-122	1.1	0.5	8.1	7700	520	0.32	0.52	18	110
80: AMQ-ENV15-088	< 0.7	< 0.5	130	8700	980	0.42	< 0.002	79	36
81: AMQ-ENV15-095	< 0.7	< 0.5	32	5300	280	0.26	1.6	11	120
82: AMQ-ENV15-096	< 0.7	0.6	15	7400	1000	0.74	1.3	31	79
83: AMQ-ENV15-085	0.8	< 0.5	7.5	6500	270	0.24	0.50	12	90
84: AMQ-ENV15-058	< 0.7	< 0.5	14	8400	380	0.37	2.9	12	32
85: AMQ-ENV15-056	< 0.7	< 0.5	13	6300	600	0.33	2.7	19	63
86: AMQ-ENV15-115	< 0.7	< 0.5	14	15000	230	0.14	0.33	7	13
87: AMQ-ENV15-111	< 0.7	< 0.5	60	3300	110	< 0.02	< 0.002	44	17
88: AMQ-ENV15-124	< 0.7	< 0.5	290	3900	1100	0.36	0.21	51	30
89: AMQ-ENV15-123	< 0.7	< 0.5	440	3100	940	0.34	0.53	60	27
90: AMQ-ENV15-116	< 0.7	0.5	8.3	1300	430	0.06	1.2	13	32
91: AMQ-ENV15-130	< 0.7	0.8	17	1500	490	0.18	5.9	15	49
92: AMQ-ENV15-131	< 0.7	< 0.5	12	1500	340	0.07	1.8	11	29
93: AMQ-ENV15-132	< 0.7	< 0.5	12	1600	340	0.06	2.2	10	29
94: AMQ-ENV15-117	< 0.7	< 0.5	13	2100	670	0.08	1.1	33	45
95: AMQ-ENV15-118	< 0.7	0.5	25	1500	940	0.23	1.3	29	34
96: AMQ-ENV15-119	< 0.7	0.6	19	2100	520	0.09	1.2	14	31
97: AMQ-ENV15-125	< 0.7	0.7	18	2000	460	0.10	2.6	12	34
98: AMQ-ENV15-126	< 0.7	0.7	20	5300	520	0.10	2.2	10	32
99: AMQ-ENV15-127	< 0.7	0.7	17	2700	500	0.10	2.0	11	33
100: AMQ-ENV15-128	< 0.7	0.6	17	2300	400	0.07	1.6	7	26
101: AMQ-ENV15-129	< 0.7	0.7	16	1500	430	0.11	2.9	13	36
102: AMQ-ENV15-105	< 0.7	< 0.5	37	4100	520	0.11	< 0.002	66	28
103: AMQ-ENV15-121	< 0.7	< 0.5	110	3300	790	0.20	< 0.002	64	28
104: AMQ-ENV15-068	< 0.7	< 0.5	45	7300	600	0.20	< 0.002	72	31
105: AMQ-ENV15-051	< 0.7	< 0.5	200	3700	870	0.27	< 0.002	75	32
106: AMQ-ENV15-071	< 0.7	< 0.5	160	4700	240	0.11	< 0.002	55	25
107: AMQ-ENV15-084	< 0.7	< 0.5	180	3200	46	< 0.02	< 0.002	31	13
108: AMQ-ENV15-083	< 0.7	< 0.5	150	5900	680	0.32	< 0.002	69	29
109: AMQ-ENV15-050	< 0.7	< 0.5	140	9600	1700	0.45	1.2	79	51

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LR Report : **CA15168-AUG15**

Sample ID	Se µg/g	Sn µg/g	Sr µg/g	Si µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g
110: AMQ-ENV15-044	< 0.7	< 0.5	120	8200	1400	0.24	0.37	66	44
111: AMQ-ENV15-070	< 0.7	0.8	130	9700	2500	0.73	1.6	93	55
112: AMQ-ENV15-072	< 0.7	< 0.5	82	9700	2000	0.89	1.1	64	51
113: AMQ-ENV15-120	< 0.7	< 0.5	18	6900	770	0.50	2.8	22	54
114: AMQ-ENV15-113	< 0.7	< 0.5	23	7000	1000	0.62	2.2	27	67
115: AMQ-ENV15-052	< 0.7	0.6	260	9300	2100	0.57	0.51	92	63
116: AMQ-ENV15-060	< 0.7	< 0.5	20	5100	990	0.81	2.3	27	72
117: AMQ-ENV15-062	< 0.7	< 0.5	120	3900	110	0.03	< 0.002	43	17
118: AMQ-ENV15-063	< 0.7	< 0.5	28	5800	1500	0.87	2.2	33	67
119: AMQ-ENV15-114	< 0.7	< 0.5	24	4500	1800	0.32	1.1	69	90
120: AMQ-ENV15-078	< 0.7	< 0.5	27	7100	1400	0.26	2.4	69	91
121: AMQ-ENV15-043	< 0.7	< 0.5	11	8900	300	0.24	0.22	9	87
122: AMQ-ENV15-067	1.2	< 0.5	99	5500	120	0.11	0.18	7	70
123: AMQ-ENV15-061	< 0.7	< 0.5	33	6800	810	0.57	2.8	26	63

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

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01-September-2015

Agnico Eagle Mines Limited
Attn : Serge Ouellet

10200, route de Pressac, Rouyn-Noranda
, J0Y 1C0
Phone: (819) 759-3700 x5820, Fax:(819) 759-3663

Date Rec. : 13 August 2015
LR Report: **CA15169-AUG15**
Reference: OP-460193-J

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	Initial pH	Final pH	pH no unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	F mg/L	Cl mg/L	SO4 mg/L	Br mg/L	NO2 as N mg/L
3: Analysis Approval Date		24-Aug-15	24-Aug-15	24-Aug-15	24-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	28-Aug-15	26-Aug-15	26-Aug-15	31-Aug-15	31-Aug-15
4: Analysis Approval Time		12:51	12:51	12:51	12:51	09:49	09:49	09:49	12:09	09:42	09:42	11:12	11:12
5: AMQ-ENV15-028	Date:N/A	200	800	9.76	9.64	8.52	32	87	< 0.06	3	1	< 3	< 0.3
6: AMQ-ENV15-029	Date:N/A	200	800	9.51	9.56	8.27	29	75	< 0.06	4	< 1	< 3	< 0.3
7: AMQ-ENV15-030	Date:N/A	200	800	9.40	9.59	8.14	29	62	< 0.06	1	< 1	< 3	< 0.3
8: AMQ-ENV15-016	Date:N/A	200	800	9.56	9.09	7.83	38	203	< 0.06	13	34	< 3	< 0.3
9: AMQ-ENV15-011	Date:N/A	200	800	9.81	9.84	9.27	34	85	< 0.06	2	< 1	< 3	< 0.3
10: AMQ-ENV15-014	Date:N/A	200	800	9.42	9.58	8.32	34	90	0.09	5	< 1	< 3	< 0.3
11: AMQ-ENV15-090	Date:N/A	200	800	9.71	9.74	9.05	33	84	< 0.06	2	1	< 3	< 0.3
12: AMQ-ENV15-026	Date:N/A	200	800	9.86	9.61	8.24	31	72	< 0.06	2	1	< 3	< 0.3
13: AMQ-ENV15-055	Date:N/A	200	800	9.76	9.62	8.75	29	66	< 0.06	< 1	1	< 3	< 0.3
14: AMQ-ENV15-021	Date:N/A	200	800	9.81	9.81	9.06	32	79	< 0.06	2	< 1	< 3	< 0.3
15: AMQ-ENV15-027	Date:N/A	200	800	9.77	9.44	8.05	28	94	0.10	9	< 1	< 3	< 0.3
16: AMQ-ENV15-040	Date:N/A	200	800	9.78	9.65	8.38	31	69	< 0.06	1	< 1	< 3	< 0.3
17: AMQ-ENV15-041	Date:N/A	200	800	9.32	9.61	8.50	27	61	< 0.06	< 1	< 1	< 3	< 0.3
18: AMQ-ENV15-034	Date:N/A	200	800	9.67	9.41	7.94	25	83	< 0.06	9	< 1	< 3	< 0.3
19: AMQ-ENV15-045	Date:N/A	200	800	9.87	9.50	8.59	33	85	< 0.06	2	< 1	< 3	< 0.3
20: AMQ-ENV15-038	Date:N/A	200	800	9.72	9.24	8.05	39	115	< 0.06	6	1	< 3	< 0.3
21: AMQ-ENV15-039	Date:N/A	200	800	9.81	9.89	9.38	35	82	0.07	< 1	< 1	< 3	< 0.3
22: AMQ-ENV15-035	Date:N/A	200	800	9.74	9.57	8.39	24	78	< 0.06	8	< 1	< 3	< 0.3
23: AMQ-ENV15-010	Date:N/A	200	800	9.77	9.47	8.59	38	112	< 0.06	12	2	< 3	< 0.3

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SFE -24hr 4:1 L/S ratio

LR Report : CA15169-AUG15

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	Initial pH	Final pH	pH no unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	F mg/L	Cl mg/L	SO4 mg/L	Br mg/L	NO2 as N mg/L
24: AMQ-ENV15-086	Date:N/A	200	800	9.82	9.78	9.09	44	129	< 0.06	5	2	< 3	< 0.3
25: AMQ-ENV15-099	Date:N/A	200	800	9.51	9.21	8.17	61	100	< 0.06	3	1	< 3	< 0.3
26: AMQ-ENV15-089	Date:N/A	200	800	9.70	8.92	7.81	40	210	0.09	38	6	< 3	< 0.3
27: AMQ-ENV15-020	Date:N/A	200	800	9.45	9.27	8.02	40	163	0.12	9	17	< 3	< 0.3
28: AMQ-ENV15-033	Date:N/A	200	800	9.42	9.49	8.91	71	162	0.09	2	1	< 3	< 0.3
29: AMQ-ENV15-109	Date:N/A	200	800	9.55	9.40	8.84	72	151	0.07	2	< 1	< 3	< 0.3
30: AMQ-ENV15-081	Date:N/A	200	800	9.83	9.67	7.13	41	85	0.13	3	2	< 3	< 0.3
31: AMQ-ENV15-076	Date:N/A	200	800	7.61	8.36	7.97	70	331	0.10	49	44	< 3	< 0.3
32: AMQ-ENV15-104	Date:N/A	200	800	9.89	9.90	9.32	41	101	0.11	1	1	< 3	< 0.3
33: AMQ-ENV15-094	Date:N/A	200	800	9.85	9.98	9.34	39	93	0.20	1	1	< 3	< 0.3
34: AMQ-ENV15-024	Date:N/A	200	800	9.69	9.93	8.69	50	80	0.13	< 1	< 1	< 3	< 0.3
35: AMQ-ENV15-023	Date:N/A	200	800	9.75	9.98	9.21	37	91	0.14	1	1	< 3	< 0.3
36: AMQ-ENV15-022	Date:N/A	200	800	9.76	10.07	9.07	54	107	0.20	1	< 1	< 3	< 0.3
37: AMQ-ENV15-042	Date:N/A	200	800	9.61	9.67	8.27	33	69	0.30	1	< 1	< 3	< 0.3
38: AMQ-ENV15-032	Date:N/A	200	800	10.02	9.93	9.05	56	98	0.15	2	< 1	< 3	< 0.3
39: AMQ-ENV15-003	Date:N/A	200	800	9.98	9.95	9.24	36	85	0.17	1	< 1	< 3	< 0.3
40: AMQ-ENV15-001	Date:N/A	200	800	9.78	9.65	8.20	34	99	0.16	4	2	< 3	< 0.3
41: AMQ-ENV15-047	Date:N/A	200	800	9.95	9.81	8.98	45	107	0.11	< 1	< 1	< 3	< 0.3
42: AMQ-ENV15-006	Date:N/A	200	800	9.84	9.59	8.57	38	99	0.11	2	< 1	< 3	< 0.3
43: AMQ-ENV15-008	Date:N/A	200	800	9.91	8.98	7.80	38	130	0.43	19	< 1	< 3	< 0.3
44: AMQ-ENV15-009	Date:N/A	200	800	9.83	9.02	7.73	38	143	0.12	22	1	< 3	< 0.3
45: AMQ-ENV15-012	Date:N/A	200	800	9.44	9.39	9.12	42	113	0.21	3	5	< 3	< 0.3
46: AMQ-ENV15-013	Date:N/A	200	800	9.77	10.02	9.83	76	171	0.24	1	< 1	< 3	< 0.3
47: AMQ-ENV15-004	Date:N/A	200	800	9.59	9.81	9.65	61	131	0.19	2	< 1	< 3	< 0.3
48: AMQ-ENV15-005	Date:N/A	200	800	9.57	9.58	9.42	55	124	0.19	2	< 1	< 3	< 0.3
49: AMQ-ENV15-091	Date:N/A	200	800	8.44	7.96	8.44	43	203	0.17	19	27	< 3	< 0.3
50: AMQ-ENV15-101	Date:N/A	200	800	9.67	9.40	7.96	35	108	0.18	5	6	< 3	< 0.3
51: AMQ-ENV15-102	Date:N/A	200	800	9.85	9.76	9.45	87	107	0.13	2	1	< 3	< 0.3
52: AMQ-ENV15-103	Date:N/A	200	800	9.83	9.91	9.58	44	100	0.23	< 1	< 1	< 3	< 0.3
53: AMQ-ENV15-098	Date:N/A	200	800	9.23	9.48	8.98	41	90	0.14	3	< 1	< 3	< 0.3
54: AMQ-ENV15-093	Date:N/A	200	800	9.44	9.37	8.31	43	112	0.09	5	3	< 3	< 0.3
55: AMQ-ENV15-097	Date:N/A	200	800	9.58	9.67	9.31	42	91	0.12	2	< 1	< 3	< 0.3
56: AMQ-ENV15-110	Date:N/A	200	800	9.71	9.59	9.29	60	106	0.11	2	< 1	< 3	< 0.3
57: AMQ-ENV15-106	Date:N/A	200	800	9.64	9.68	9.30	54	109	0.27	2	< 1	< 3	< 0.3
58: AMQ-ENV15-107	Date:N/A	200	800	9.49	9.69	9.02	43	89	0.21	1	< 1	< 3	< 0.3
59: AMQ-ENV15-108	Date:N/A	200	800	9.35	9.71	9.25	45	91	0.19	1	< 1	< 3	< 0.3
60: AMQ-ENV15-064	Date:N/A	200	800	8.74	9.32	8.46	40	110	0.17	7	< 1	< 3	< 0.3

OnLine LIMS

00004951 30

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Test method information available upon request. “Temperature Upon Receipt” is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

SFE -24hr 4:1 L/S ratio

LR Report : **CA15169-AUG15**

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	Initial pH	Final pH	pH no unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	F mg/L	Cl mg/L	SO4 mg/L	Br mg/L	NO2 as N mg/L
61: AMQ-ENV15-065	Date:N/A	200	800	9.37	9.57	9.14	40	86	0.16	2	< 1	< 3	< 0.3
62: AMQ-ENV15-066	Date:N/A	200	800	9.40	9.39	8.99	42	101	0.21	4	2	< 3	< 0.3
63: AMQ-ENV15-112	Date:N/A	200	800	9.09	9.60	9.55	49	110	0.41	4	< 1	< 3	< 0.3
64: AMQ-ENV15-049	Date:N/A	200	800	9.58	9.97	9.81	46	101	0.16	1	< 1	< 3	< 0.3
65: AMQ-ENV15-048	Date:N/A	200	800	9.78	9.57	9.27	44	94	0.18	2	< 1	< 3	< 0.3
66: AMQ-ENV15-025	Date:N/A	200	800	9.83	9.52	9.50	43	123	0.13	14	< 1	< 3	< 0.3
67: AMQ-ENV15-054	Date:N/A	200	800	9.34	8.02	7.98	62	288	0.14	42	39	< 3	< 0.3
68: AMQ-ENV15-073	Date:N/A	200	800	9.12	9.56	9.47	40	87	0.12	3	< 1	< 3	< 0.3
69: AMQ-ENV15-075	Date:N/A	200	800	9.70	9.35	9.35	44	104	0.17	6	< 1	< 3	< 0.3
70: AMQ-ENV15-074	Date:N/A	200	800	9.47	9.64	9.24	42	94	0.17	1	< 1	< 3	< 0.3
71: AMQ-ENV15-002	Date:N/A	200	800	9.41	9.26	9.24	38	128	0.19	8	8	< 3	< 0.3
72: AMQ-ENV15-100	Date:N/A	200	800	9.67	9.48	9.35	45	112	0.25	3	1	< 3	< 0.3
73: AMQ-ENV15-077	Date:N/A	200	800	9.89	9.64	9.44	43	98	0.18	2	< 1	< 3	< 0.3
74: AMQ-ENV15-019	Date:N/A	200	800	9.67	8.46	8.84	63	270	0.21	34	24	< 3	< 0.3
75: AMQ-ENV15-046	Date:N/A	200	800	9.72	8.55	8.81	60	218	0.17	30	9	< 3	< 0.3
76: AMQ-ENV15-037	Date:N/A	200	800	5.48	5.15	7.27	9	192	0.10	6	58	< 3	< 0.3
77: AMQ-ENV15-007	Date:N/A	200	800	9.64	9.08	8.59	51	210	0.14	20	11	< 3	< 0.3
78: AMQ-ENV15-092	Date:N/A	200	800	9.58	8.91	8.89	54	181	0.08	24	2	< 3	< 0.3
79: AMQ-ENV15-122	Date:N/A	200	800	9.87	9.84	9.36	53	136	< 0.06	1	1	< 3	< 0.3
80: AMQ-ENV15-088	Date:N/A	200	800	9.63	8.53	8.84	52	190	0.12	30	1	< 3	< 0.3
81: AMQ-ENV15-095	Date:N/A	200	800	9.62	8.96	9.06	45	139	0.17	10	6	< 3	< 0.3
82: AMQ-ENV15-096	Date:N/A	200	800	9.84	9.47	9.07	53	127	0.45	5	< 1	< 3	< 0.3
83: AMQ-ENV15-085	Date:N/A	200	800	9.38	8.90	8.83	40	125	0.12	16	< 1	< 3	< 0.3
84: AMQ-ENV15-058	Date:N/A	200	800	8.20	8.18	8.62	58	246	0.19	26	30	< 3	< 0.3
85: AMQ-ENV15-056	Date:N/A	200	800	9.20	9.18	9.24	40	114	0.19	4	6	< 3	< 0.3
86: AMQ-ENV15-115	Date:N/A	200	800	9.81	9.91	9.72	56	143	0.59	9	< 1	< 3	< 0.3
87: AMQ-ENV15-111	Date:N/A	200	800	9.76	9.44	8.14	33	88	0.06	3	1	< 3	< 0.3
88: AMQ-ENV15-124	Date:N/A	200	800	9.83	9.82	9.70	55	159	0.12	5	3	< 3	< 0.3
89: AMQ-ENV15-123	Date:N/A	200	800	9.44	9.39	8.89	67	157	0.09	3	1	< 3	< 0.3
90: AMQ-ENV15-116	Date:N/A	200	800	5.18	5.71	8.63	22	56	0.09	1	< 1	< 3	< 0.3
91: AMQ-ENV15-130	Date:N/A	200	800	5.19	5.30	7.96	20	60	0.20	2	< 1	< 3	< 0.3
92: AMQ-ENV15-131	Date:N/A	200	800	5.49	5.86	8.65	16	45	0.23	< 1	< 1	< 3	< 0.3
93: AMQ-ENV15-132	Date:N/A	200	800	6.41	6.88	9.26	16	44	0.42	< 1	1	< 3	< 0.3
94: AMQ-ENV15-117	Date:N/A	200	800	5.66	6.82	9.04	17	42	0.13	1	< 1	< 3	< 0.3
95: AMQ-ENV15-118	Date:N/A	200	800	5.26	5.22	8.05	16	48	0.09	2	< 1	< 3	< 0.3
96: AMQ-ENV15-119	Date:N/A	200	800	5.60	5.43	8.64	15	36	0.09	1	< 1	< 3	< 0.3
97: AMQ-ENV15-125	Date:N/A	200	800	5.58	5.80	8.47	14	52	0.23	3	< 1	< 3	< 0.3

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

SFE -24hr 4:1 L/S ratio

LR Report : **CA15169-AUG15**

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	Initial pH	Final pH	pH no unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	F mg/L	Cl mg/L	SO4 mg/L	Br mg/L	NO2 as N mg/L
98: AMQ-ENV15-126	Date:N/A	200	800	6.32	6.88	8.39	12	37	0.43	2	< 1	< 3	< 0.3
99: AMQ-ENV15-127	Date:N/A	200	800	6.27	6.72	8.79	15	44	0.41	2	1	< 3	< 0.3
100: AMQ-ENV15-128	Date:N/A	200	800	5.55	6.14	8.77	15	45	0.15	1	< 1	< 3	< 0.3
101: AMQ-ENV15-129	Date:N/A	200	800	5.39	5.75	8.55	13	47	0.20	4	1	< 3	< 0.3
102: AMQ-ENV15-105	Date:N/A	200	800	9.83	9.78	9.55	41	106	0.07	4	1	< 3	< 0.3
103: AMQ-ENV15-121	Date:N/A	200	800	9.65	9.38	8.93	58	134	0.07	3	1	< 3	< 0.3
104: AMQ-ENV15-068	Date:N/A	200	800	9.83	9.78	9.16	38	97	0.07	3	1	< 3	< 0.3
105: AMQ-ENV15-051	Date:N/A	200	800	9.86	9.36	8.79	59	142	0.06	4	2	< 3	< 0.3
106: AMQ-ENV15-071	Date:N/A	200	800	9.81	9.56	8.95	45	99	0.07	1	< 1	< 3	< 0.3
107: AMQ-ENV15-084	Date:N/A	200	800	9.29	9.38	8.70	49	100	< 0.06	< 1	< 1	< 3	< 0.3
108: AMQ-ENV15-083	Date:N/A	200	800	9.85	9.98	9.63	54	142	0.07	3	1	< 3	< 0.3
109: AMQ-ENV15-050	Date:N/A	200	800	9.89	10.05	9.51	44	116	0.14	3	1	< 3	< 0.3
110: AMQ-ENV15-044	Date:N/A	200	800	9.87	10.19	9.90	48	108	0.19	1	< 1	< 3	< 0.3
111: AMQ-ENV15-070	Date:N/A	200	800	9.88	10.21	10.0	56	133	0.14	< 1	< 1	< 3	< 0.3
112: AMQ-ENV15-072	Date:N/A	200	800	9.75	10.10	9.80	54	129	0.24	2	< 1	< 3	< 0.3
113: AMQ-ENV15-120	Date:N/A	200	800	9.72	9.74	9.55	44	105	0.19	3	< 1	< 3	< 0.3
114: AMQ-ENV15-113	Date:N/A	200	800	9.73	9.78	9.58	42	113	0.16	2	< 1	< 3	< 0.3
115: AMQ-ENV15-052	Date:N/A	200	800	10.05	10.08	9.63	47	127	0.17	3	< 1	< 3	< 0.3
116: AMQ-ENV15-060	Date:N/A	200	800	9.69	9.79	9.74	47	97	0.17	2	< 1	< 3	< 0.3
117: AMQ-ENV15-062	Date:N/A	200	800	9.56	9.23	8.69	60	127	0.08	3	1	< 3	< 0.3
118: AMQ-ENV15-063	Date:N/A	200	800	9.80	9.78	9.69	48	112	0.29	2	< 1	< 3	< 0.3
119: AMQ-ENV15-114	Date:N/A	200	800	9.59	9.72	9.45	42	93	0.25	1	1	< 3	< 0.3
120: AMQ-ENV15-078	Date:N/A	200	800	9.85	9.46	9.36	41	113	0.17	4	3	< 3	< 0.3
121: AMQ-ENV15-043	Date:N/A	200	800	9.76	8.86	9.03	44	231	0.07	23	< 1	< 3	< 0.3
122: AMQ-ENV15-067	Date:N/A	200	800	9.81	9.29	9.37	44	169	0.12	30	< 1	< 3	< 0.3
123: AMQ-ENV15-061	Date:N/A	200	800	9.88	9.75	9.69	42	90	0.21	1	< 1	< 3	< 0.3
124-DUP: AMQ-ENV15-086		200	800	9.88	9.78	9.10	44	137	0.08	6	3	< 3	< 0.3
125-DUP: AMQ-ENV15-009		200	800	9.75	9.02	7.87	38	143	0.10	23	1	< 3	< 0.3
126-DUP: AMQ-ENV15-049		200	800	9.60	9.98	9.65	48	104	0.18	1	< 1	< 3	< 0.3
127-DUP: AMQ-ENV15-058		200	800	8.45	8.23	8.14	54	239	0.20	26	27	< 3	< 0.3
128-DUP: AMQ-ENV15-068		200	800	9.80	9.68	9.28	38	104	0.07	3	1	< 3	< 0.3
129-DUP: AMQ-ENV15-061		200	800	9.82	9.73	9.70	41	89	0.22	2	< 1	< 3	< 0.3

Sample ID	NO3 as N mg/L	Cr(VI) µg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	B mg/L	Be mg/L	Bi mg/L	Ca mg/L	Cd mg/L
3: Analysis Approval Date	31-Aug-15	31-Aug-15	28-Aug-15	26-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15

OnLine LIMS

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

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Phone: 705-652-2000 FAX: 705-652-6365

SFE -24hr 4:1 L/S ratio

LR Report : **CA15169-AUG15**

Sample ID	NO3 as N mg/L	Cr(VI) µg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	B mg/L	Be mg/L	Bi mg/L	Ca mg/L	Cd mg/L
4: Analysis Approval Time	11:12	09:40	11:29	10:19	15:07	15:07	15:07	15:08	15:08	15:08	15:09	15:09	15:09
5: AMQ-ENV15-028	< 0.6	0.5	0.13	< 0.00001	0.000041	0.075	1.05	0.00624	0.0164	< 0.000007	< 0.000007	5.86	0.000003
6: AMQ-ENV15-029	< 0.6	< 0.2	< 0.03	< 0.00001	0.000006	0.041	0.0787	0.00908	0.0084	< 0.000007	< 0.000007	6.96	< 0.000003
7: AMQ-ENV15-030	< 0.6	< 0.2	< 0.03	< 0.00001	0.000007	0.031	0.0840	0.00476	0.0153	< 0.000007	< 0.000007	5.65	< 0.000003
8: AMQ-ENV15-016	< 0.6	0.2	0.37	< 0.00001	0.000020	0.091	1.69	0.0528	0.0127	< 0.000007	0.000015	12.4	< 0.000003
9: AMQ-ENV15-011	< 0.6	1.3	0.17	< 0.00001	0.000003	0.135	1.21	0.00605	0.0198	< 0.000007	< 0.000007	4.49	< 0.000003
10: AMQ-ENV15-014	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.031	0.0102	0.0236	0.0085	< 0.000007	< 0.000007	5.48	< 0.000003
11: AMQ-ENV15-090	< 0.6	1.1	0.24	< 0.00001	< 0.000002	0.092	1.44	0.00752	0.0063	< 0.000007	< 0.000007	5.38	< 0.000003
12: AMQ-ENV15-026	< 0.6	0.8	0.15	< 0.00001	0.000002	0.037	1.08	0.00875	0.0214	< 0.000007	< 0.000007	6.52	< 0.000003
13: AMQ-ENV15-055	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.026	0.0561	0.0114	0.0124	< 0.000007	< 0.000007	5.25	< 0.000003
14: AMQ-ENV15-021	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.041	0.301	0.0221	0.0115	< 0.000007	< 0.000007	4.99	< 0.000003
15: AMQ-ENV15-027	< 0.6	0.2	0.25	< 0.00001	0.000010	0.334	1.43	0.00327	0.0066	< 0.000007	< 0.000007	7.14	< 0.000003
16: AMQ-ENV15-040	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.021	0.0162	0.0225	0.0077	< 0.000007	< 0.000007	5.34	< 0.000003
17: AMQ-ENV15-041	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.026	0.0092	0.0105	0.0109	< 0.000007	< 0.000007	3.58	< 0.000003
18: AMQ-ENV15-034	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.427	0.446	0.00191	0.0064	< 0.000007	< 0.000007	7.40	< 0.000003
19: AMQ-ENV15-045	< 0.6	0.4	0.24	< 0.00001	0.000003	0.143	1.40	0.00567	0.0108	< 0.000007	< 0.000007	5.34	< 0.000003
20: AMQ-ENV15-038	< 0.6	< 0.2	< 0.03	< 0.00001	0.000004	0.172	0.590	0.00596	0.0070	< 0.000007	< 0.000007	6.61	< 0.000003
21: AMQ-ENV15-039	< 0.6	0.9	0.06	< 0.00001	0.000023	0.015	0.469	0.00872	0.0147	< 0.000007	< 0.000007	4.88	< 0.000003
22: AMQ-ENV15-035	< 0.6	< 0.2	< 0.03	< 0.00001	0.000059	0.244	0.359	0.00203	0.0071	< 0.000007	0.000019	7.49	< 0.000003
23: AMQ-ENV15-010	< 0.6	0.3	0.20	< 0.00001	0.000022	0.262	1.63	0.00777	0.0081	< 0.000007	0.000020	6.28	< 0.000003
24: AMQ-ENV15-086	< 0.6	4.0	1.77	< 0.00001	0.000002	0.040	4.90	0.0103	0.0163	< 0.000007	< 0.000007	4.89	< 0.000003
25: AMQ-ENV15-099	< 0.6	0.4	0.08	< 0.00001	0.000004	0.016	0.897	0.0144	0.0156	< 0.000007	< 0.000007	7.97	< 0.000003
26: AMQ-ENV15-089	< 0.6	< 0.2	0.63	< 0.00001	0.000021	0.158	3.08	0.0101	0.0108	< 0.000007	0.000022	11.1	< 0.000003
27: AMQ-ENV15-020	< 0.6	< 0.2	< 0.03	< 0.00001	0.000012	0.050	0.235	0.0912	0.0129	< 0.000007	0.000011	8.11	< 0.000003
28: AMQ-ENV15-033	< 0.6	0.2	0.05	< 0.00001	0.000002	0.038	0.360	0.0826	0.0086	< 0.000007	< 0.000007	5.69	< 0.000003
29: AMQ-ENV15-109	< 0.6	< 0.2	0.05	< 0.00001	< 0.000002	0.026	0.603	0.0629	0.0077	< 0.000007	< 0.000007	5.57	< 0.000003
30: AMQ-ENV15-081	< 0.6	< 0.2	< 0.03	< 0.00001	0.000006	0.407	0.0408	0.00692	0.0096	< 0.000007	< 0.000007	4.70	< 0.000003
31: AMQ-ENV15-076	< 0.6	< 0.2	< 0.03	< 0.00001	0.000112	0.044	0.284	0.0909	0.0226	< 0.000007	0.000010	21.0	< 0.000003
32: AMQ-ENV15-104	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.062	0.0071	0.0315	0.0097	< 0.000007	< 0.000007	3.30	0.000005
33: AMQ-ENV15-094	< 0.6	0.5	< 0.03	< 0.00001	< 0.000002	0.094	0.0274	0.0195	0.0074	< 0.000007	< 0.000007	3.92	< 0.000003
34: AMQ-ENV15-024	< 0.6	0.6	0.04	< 0.00001	< 0.000002	0.183	0.0185	0.00611	0.0079	< 0.000007	< 0.000007	4.63	< 0.000003
35: AMQ-ENV15-023	< 0.6	0.6	< 0.03	0.00002	< 0.000002	0.309	0.0117	0.00745	0.0072	< 0.000007	< 0.000007	3.27	< 0.000003
36: AMQ-ENV15-022	< 0.6	0.7	< 0.03	< 0.00001	< 0.000002	0.112	0.0102	0.0463	0.0078	< 0.000007	< 0.000007	3.65	< 0.000003
37: AMQ-ENV15-042	< 0.6	< 0.2	0.03	< 0.00001	< 0.000002	1.88	0.0286	0.00373	0.0177	< 0.000007	< 0.000007	2.61	< 0.000003
38: AMQ-ENV15-032	< 0.6	0.6	0.03	< 0.00001	< 0.000002	0.262	0.0218	0.00924	0.0086	< 0.000007	< 0.000007	3.35	< 0.000003
39: AMQ-ENV15-003	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.135	0.0185	0.0118	0.0077	< 0.000007	< 0.000007	4.16	< 0.000003
40: AMQ-ENV15-001	< 0.6	0.4	< 0.03	< 0.00001	0.000003	0.268	0.0702	0.0292	0.0258	< 0.000007	< 0.000007	4.46	< 0.000003

OnLine LIMS

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

SFE -24hr 4:1 L/S ratio

LR Report : **CA15169-AUG15**

Sample ID	NO3 as N mg/L	Cr(VI) µg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	B mg/L	Be mg/L	Bi mg/L	Ca mg/L	Cd mg/L
41: AMQ-ENV15-047	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.042	0.0331	0.0286	0.0113	< 0.000007	< 0.000007	2.93	< 0.000003
42: AMQ-ENV15-006	< 0.6	0.3	< 0.03	< 0.00001	0.000030	0.035	0.0117	0.0389	0.0139	< 0.000007	0.000013	4.06	< 0.000003
43: AMQ-ENV15-008	< 0.6	< 0.2	< 0.03	< 0.00001	0.000158	0.344	0.0045	0.00208	0.0219	< 0.000007	0.000036	9.34	< 0.000003
44: AMQ-ENV15-009	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	0.088	0.122	0.00164	0.0212	< 0.000007	0.000019	8.94	< 0.000003
45: AMQ-ENV15-012	< 0.6	0.2	0.09	< 0.00001	0.000008	0.137	0.0470	0.0111	0.0357	< 0.000007	< 0.000007	3.23	0.000007
46: AMQ-ENV15-013	< 0.6	1.2	< 0.03	< 0.00001	< 0.000002	0.111	0.0347	0.0159	0.147	< 0.000007	< 0.000007	1.43	< 0.000003
47: AMQ-ENV15-004	< 0.6	0.8	< 0.03	< 0.00001	< 0.000002	0.046	0.0547	0.0120	0.0616	< 0.000007	< 0.000007	2.66	0.000005
48: AMQ-ENV15-005	< 0.6	0.3	< 0.03	< 0.00001	< 0.000002	0.011	0.0346	0.0234	0.0387	< 0.000007	< 0.000007	3.51	< 0.000003
49: AMQ-ENV15-091	< 0.6	< 0.2	< 0.03	< 0.00001	0.000018	0.038	0.0371	0.0179	0.0432	< 0.000007	< 0.000007	10.7	< 0.000003
50: AMQ-ENV15-101	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.615	0.0043	0.0140	0.0090	< 0.000007	< 0.000007	5.19	< 0.000003
51: AMQ-ENV15-102	< 0.6	0.2	0.04	< 0.00001	0.000002	0.637	0.0250	0.00939	0.0200	< 0.000007	< 0.000007	2.57	< 0.000003
52: AMQ-ENV15-103	< 0.6	0.4	0.04	< 0.00001	< 0.000002	0.108	0.0119	0.0155	0.0176	< 0.000007	< 0.000007	3.76	0.000004
53: AMQ-ENV15-098	< 0.6	< 0.2	0.08	< 0.00001	0.000003	1.12	0.149	0.00711	0.0243	0.000010	< 0.000007	2.59	< 0.000003
54: AMQ-ENV15-093	< 0.6	< 0.2	0.05	< 0.00001	< 0.000002	0.257	0.445	0.00897	0.0097	< 0.000007	< 0.000007	8.33	< 0.000003
55: AMQ-ENV15-097	< 0.6	< 0.2	0.05	< 0.00001	< 0.000002	1.09	0.164	0.00234	0.0264	0.000007	< 0.000007	2.93	0.000003
56: AMQ-ENV15-110	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.618	0.0230	0.00733	0.0257	< 0.000007	< 0.000007	4.48	< 0.000003
57: AMQ-ENV15-106	< 0.6	0.6	< 0.03	< 0.00001	0.000002	0.979	0.0057	0.00173	0.104	< 0.000007	< 0.000007	2.32	< 0.000003
58: AMQ-ENV15-107	< 0.6	0.2	< 0.03	< 0.00001	< 0.000002	1.10	0.0221	0.00124	0.0508	< 0.000007	< 0.000007	1.92	< 0.000003
59: AMQ-ENV15-108	< 0.6	0.2	0.03	< 0.00001	< 0.000002	1.41	0.0544	0.00378	0.0351	< 0.000007	< 0.000007	2.46	< 0.000003
60: AMQ-ENV15-064	< 0.6	< 0.2	0.05	< 0.00001	0.000004	0.817	0.108	0.00345	0.0376	< 0.000007	< 0.000007	3.60	< 0.000003
61: AMQ-ENV15-065	< 0.6	< 0.2	0.04	< 0.00001	< 0.000002	1.39	0.0418	0.00838	0.0419	0.000010	< 0.000007	2.32	< 0.000003
62: AMQ-ENV15-066	< 0.6	< 0.2	< 0.03	< 0.00001	0.000032	1.44	0.0369	0.0109	0.0410	0.000007	< 0.000007	4.02	< 0.000003
63: AMQ-ENV15-112	< 0.6	0.8	< 0.03	< 0.00001	0.000004	0.850	0.0451	0.00100	0.166	< 0.000007	< 0.000007	0.72	< 0.000003
64: AMQ-ENV15-049	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.077	0.0045	0.0123	0.0219	< 0.000007	< 0.000007	4.42	< 0.000003
65: AMQ-ENV15-048	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	1.08	0.0212	0.00231	0.0241	< 0.000007	< 0.000007	4.08	< 0.000003
66: AMQ-ENV15-025	< 0.6	< 0.2	< 0.03	< 0.00001	0.000008	0.073	0.0447	0.00962	0.0182	< 0.000007	0.000010	5.39	< 0.000003
67: AMQ-ENV15-054	< 0.6	< 0.2	< 0.03	< 0.00001	0.000075	0.128	0.0015	0.00808	0.0217	< 0.000007	0.000008	33.9	< 0.000003
68: AMQ-ENV15-073	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.874	0.0705	0.00895	0.0304	0.000008	< 0.000007	3.04	< 0.000003
69: AMQ-ENV15-075	< 0.6	0.2	0.03	< 0.00001	< 0.000002	0.813	0.0575	0.00281	0.0497	< 0.000007	< 0.000007	3.88	< 0.000003
70: AMQ-ENV15-074	< 0.6	< 0.2	0.04	< 0.00001	< 0.000002	1.42	0.0396	0.00235	0.0336	< 0.000007	< 0.000007	2.28	< 0.000003
71: AMQ-ENV15-002	< 0.6	< 0.2	0.03	< 0.00001	< 0.000002	0.421	0.0241	0.0123	0.0270	< 0.000007	< 0.000007	6.30	< 0.000003
72: AMQ-ENV15-100	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	1.03	0.0124	0.00392	0.0283	< 0.000007	< 0.000007	3.01	< 0.000003
73: AMQ-ENV15-077	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	1.04	0.0212	0.00828	0.0239	< 0.000007	< 0.000007	3.73	< 0.000003
74: AMQ-ENV15-019	< 0.6	< 0.2	< 0.03	< 0.00001	0.000021	0.027	0.0204	0.0250	0.0603	< 0.000007	< 0.000007	15.1	< 0.000003
75: AMQ-ENV15-046	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	0.050	0.0016	0.0190	0.0490	< 0.000007	< 0.000007	13.5	< 0.000003
76: AMQ-ENV15-037	< 0.6	< 0.2	0.05	< 0.00001	< 0.000002	0.017	0.119	0.0211	0.0305	0.000098	< 0.000007	7.70	0.000008
77: AMQ-ENV15-007	< 0.6	< 0.2	< 0.03	< 0.00001	0.000018	0.039	0.136	0.0238	0.0191	< 0.000007	< 0.000007	7.36	< 0.000003

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SFE -24hr 4:1 L/S ratio

LR Report : **CA15169-AUG15**

Sample ID	NO3 as N mg/L	Cr(VI) µg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	B mg/L	Be mg/L	Bi mg/L	Ca mg/L	Cd mg/L
78: AMQ-ENV15-092	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	0.020	0.114	0.0113	0.0171	< 0.000007	< 0.000007	9.30	< 0.000003
79: AMQ-ENV15-122	< 0.6	0.6	0.19	< 0.00001	< 0.000002	0.067	0.945	0.0175	0.0141	< 0.000007	< 0.000007	1.98	< 0.000003
80: AMQ-ENV15-088	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.107	0.0218	0.0140	0.0244	< 0.000007	< 0.000007	13.9	< 0.000003
81: AMQ-ENV15-095	< 0.6	< 0.2	< 0.03	< 0.00001	0.000004	0.506	0.0563	0.00709	0.0199	< 0.000007	< 0.000007	8.68	< 0.000003
82: AMQ-ENV15-096	< 0.6	< 0.2	< 0.03	< 0.00001	0.000219	1.33	0.0404	0.00715	0.0211	0.000008	0.000038	3.03	< 0.000003
83: AMQ-ENV15-085	< 0.6	< 0.2	< 0.03	< 0.00001	0.000008	0.383	0.133	0.00865	0.0160	< 0.000007	0.000024	9.09	< 0.000003
84: AMQ-ENV15-058	< 0.6	< 0.2	< 0.03	< 0.00001	0.000024	0.052	0.0121	0.0159	0.0280	< 0.000007	0.000018	19.7	0.000003
85: AMQ-ENV15-056	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	1.01	0.0600	0.0109	0.0271	0.000008	0.000017	5.85	< 0.000003
86: AMQ-ENV15-115	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.189	0.0603	0.00131	0.0443	< 0.000007	0.000011	1.98	< 0.000003
87: AMQ-ENV15-111	< 0.6	0.4	0.15	< 0.00001	< 0.000002	0.015	0.926	0.00416	0.0140	< 0.000007	< 0.000007	6.75	< 0.000003
88: AMQ-ENV15-124	< 0.6	3.3	1.57	< 0.00001	< 0.000002	0.018	4.72	0.0196	0.0479	< 0.000007	< 0.000007	4.57	< 0.000003
89: AMQ-ENV15-123	< 0.6	0.6	0.28	< 0.00001	< 0.000002	0.018	1.52	0.0827	0.0171	< 0.000007	< 0.000007	6.18	< 0.000003
90: AMQ-ENV15-116	< 0.6	< 0.2	< 0.03	< 0.00001	0.000010	0.641	0.0104	0.00580	0.0484	0.000023	0.000009	0.37	0.000006
91: AMQ-ENV15-130	< 0.6	< 0.2	< 0.03	< 0.00001	0.000021	0.716	0.0027	0.0110	0.0594	0.000075	0.000018	1.80	0.000013
92: AMQ-ENV15-131	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	0.332	0.0054	0.00447	0.0367	0.000023	0.000009	0.13	0.000003
93: AMQ-ENV15-132	< 0.6	< 0.2	< 0.03	< 0.00001	0.000005	0.438	0.0019	0.00708	0.0333	0.000043	0.000009	0.12	0.000004
94: AMQ-ENV15-117	< 0.6	< 0.2	< 0.03	< 0.00001	0.000019	1.06	0.0030	0.0109	0.0428	0.000041	0.000012	0.27	0.000006
95: AMQ-ENV15-118	< 0.6	0.2	< 0.03	< 0.00001	0.000008	0.456	0.0025	0.00697	0.0325	0.000032	0.000010	1.02	0.000004
96: AMQ-ENV15-119	< 0.6	< 0.2	< 0.03	< 0.00001	0.000014	0.906	0.0047	0.00904	0.0387	0.000039	0.000018	0.31	0.000003
97: AMQ-ENV15-125	< 0.6	< 0.2	< 0.03	< 0.00001	0.000008	0.539	0.0016	0.0112	0.0348	0.000052	0.000038	1.16	0.000005
98: AMQ-ENV15-126	< 0.6	< 0.2	< 0.03	0.00006	0.000009	0.354	0.0016	0.00362	0.0331	0.000028	0.000011	< 0.01	0.000003
99: AMQ-ENV15-127	< 0.6	< 0.2	< 0.03	< 0.00001	0.000005	0.460	0.0035	0.00867	0.0326	0.000040	0.000016	0.53	0.000003
100: AMQ-ENV15-128	< 0.6	< 0.2	< 0.03	< 0.00001	0.000010	0.969	0.0018	0.0117	0.0423	0.000061	0.000026	0.27	0.000007
101: AMQ-ENV15-129	< 0.6	< 0.2	< 0.03	< 0.00001	0.000004	0.516	0.0035	0.00523	0.0486	0.000033	0.000010	0.25	0.000009
102: AMQ-ENV15-105	< 0.6	1.3	0.72	< 0.00001	< 0.000002	0.022	1.97	0.0114	0.0673	< 0.000007	< 0.000007	5.10	< 0.000003
103: AMQ-ENV15-121	< 0.6	0.3	0.17	< 0.00001	0.000164	0.029	0.985	0.0297	0.0631	< 0.000007	0.000009	6.97	< 0.000003
104: AMQ-ENV15-068	< 0.6	0.7	0.25	< 0.00001	0.000033	0.048	1.19	0.0210	0.0622	< 0.000007	< 0.000007	4.64	< 0.000003
105: AMQ-ENV15-051	< 0.6	0.9	0.77	< 0.00001	< 0.000002	0.022	2.37	0.0302	0.0512	< 0.000007	< 0.000007	6.43	< 0.000003
106: AMQ-ENV15-071	< 0.6	< 0.2	< 0.03	< 0.00001	0.000003	0.045	0.268	0.0211	0.0534	< 0.000007	< 0.000007	3.90	< 0.000003
107: AMQ-ENV15-084	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.016	0.209	0.0165	0.0519	< 0.000007	< 0.000007	8.89	< 0.000003
108: AMQ-ENV15-083	< 0.6	0.7	0.05	< 0.00001	0.000005	0.035	0.521	0.0122	0.0497	< 0.000007	< 0.000007	2.13	< 0.000003
109: AMQ-ENV15-050	< 0.6	1.4	0.87	< 0.00001	< 0.000002	0.114	2.09	0.0119	0.0241	< 0.000007	< 0.000007	3.00	< 0.000003
110: AMQ-ENV15-044	< 0.6	0.8	< 0.03	< 0.00001	< 0.000002	0.048	0.0197	0.0196	0.0414	< 0.000007	< 0.000007	4.49	< 0.000003
111: AMQ-ENV15-070	< 0.6	0.8	< 0.03	< 0.00001	< 0.000002	0.101	0.0919	0.0122	0.0690	< 0.000007	< 0.000007	2.23	< 0.000003
112: AMQ-ENV15-072	< 0.6	2.0	0.41	< 0.00001	< 0.000002	0.040	1.37	0.0150	0.0493	< 0.000007	< 0.000007	3.36	< 0.000003
113: AMQ-ENV15-120	< 0.6	< 0.2	0.04	< 0.00001	0.000006	1.72	0.213	0.00847	0.0311	0.000021	< 0.000007	2.53	< 0.000003
114: AMQ-ENV15-113	< 0.6	< 0.2	0.08	< 0.00001	0.000003	1.50	0.199	0.00766	0.0280	0.000012	< 0.000007	2.54	0.000003

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SFE -24hr 4:1 L/S ratio

LR Report : **CA15169-AUG15**

Sample ID	NO3 as N mg/L	Cr(VI) µg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	B mg/L	Be mg/L	Bi mg/L	Ca mg/L	Cd mg/L
115: AMQ-ENV15-052	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.213	0.171	0.0352	0.0218	< 0.000007	< 0.000007	2.16	< 0.000003
116: AMQ-ENV15-060	< 0.6	< 0.2	0.05	< 0.00001	0.000005	1.34	0.136	0.00666	0.0178	0.000007	0.000012	1.97	< 0.000003
117: AMQ-ENV15-062	< 0.6	0.4	0.16	< 0.00001	0.000003	0.025	1.15	0.0145	0.0405	< 0.000007	< 0.000007	10.4	< 0.000003
118: AMQ-ENV15-063	< 0.6	< 0.2	0.07	< 0.00001	< 0.000002	1.57	0.164	0.00661	0.0291	< 0.000007	< 0.000007	1.80	< 0.000003
119: AMQ-ENV15-114	< 0.6	< 0.2	0.10	< 0.00001	< 0.000002	0.905	0.0170	0.0101	0.0191	< 0.000007	< 0.000007	2.64	< 0.000003
120: AMQ-ENV15-078	< 0.6	< 0.2	< 0.03	< 0.00001	0.000008	0.626	0.0164	0.00930	0.0167	< 0.000007	< 0.000007	5.55	0.000003
121: AMQ-ENV15-043	< 0.6	< 0.2	< 0.03	0.00032	0.000009	0.030	0.0122	0.0121	0.0136	< 0.000007	0.000010	11.8	< 0.000003
122: AMQ-ENV15-067	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.032	0.0093	0.00759	0.0179	< 0.000007	0.000008	6.88	< 0.000003
123: AMQ-ENV15-061	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.944	0.0145	0.00624	0.0209	< 0.000007	< 0.000007	3.29	< 0.000003
124-DUP: AMQ-ENV15-086	< 0.6	4.6	2.18	< 0.00001	0.000032	0.039	5.77	0.00988	0.0177	< 0.000007	< 0.000007	4.68	< 0.000003
125-DUP: AMQ-ENV15-009	< 0.6	< 0.2	< 0.03	< 0.00001	0.000189	0.055	0.171	0.00175	0.0169	< 0.000007	0.000045	9.70	< 0.000003
126-DUP: AMQ-ENV15-049	< 0.6	0.4	< 0.03	< 0.00001	0.000002	0.075	0.0070	0.0102	0.0168	< 0.000007	< 0.000007	3.91	< 0.000003
127-DUP: AMQ-ENV15-058	< 0.6	< 0.2	< 0.03	< 0.00001	0.000029	0.060	0.0117	0.0154	0.0305	< 0.000007	0.000018	18.3	0.000004
128-DUP: AMQ-ENV15-068	< 0.6	0.8	0.34	< 0.00001	< 0.000002	0.036	1.37	0.0198	0.0579	< 0.000007	< 0.000007	5.27	< 0.000003
129-DUP: AMQ-ENV15-061	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.983	0.0267	0.00645	0.0210	< 0.000007	< 0.000007	3.34	< 0.000003

Sample ID	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L	P mg/L	Pb mg/L
3: Analysis Approval Date	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15
4: Analysis Approval Time	15:09	15:09	15:10	15:10	15:10	15:11	15:11	15:11	15:11	15:11	15:12	15:12	15:12
5: AMQ-ENV15-028	0.000043	0.00043	0.00013	0.010	12.6	0.000864	1.21	0.00041	0.00021	0.82	0.0006	< 0.003	< 0.00001
6: AMQ-ENV15-029	0.000034	< 0.00003	0.00013	0.009	5.11	0.000199	2.07	0.00010	0.00006	0.66	0.0003	< 0.003	0.00001
7: AMQ-ENV15-030	0.000029	< 0.00003	0.00041	0.007	3.24	0.000039	2.21	0.00007	0.00004	1.26	0.0004	< 0.003	0.00001
8: AMQ-ENV15-016	0.000094	0.00013	0.00038	0.024	24.9	0.00151	3.90	0.00310	0.00041	1.90	0.0067	< 0.003	< 0.00001
9: AMQ-ENV15-011	0.000054	0.00158	0.00010	0.023	16.2	0.00282	0.625	0.00061	0.00011	1.18	0.0008	< 0.003	< 0.00001
10: AMQ-ENV15-014	0.000033	< 0.00003	0.00038	0.008	14.0	0.000213	1.79	0.00007	0.00006	0.41	0.0002	< 0.003	< 0.00001
11: AMQ-ENV15-090	0.000052	0.00114	0.00032	0.011	14.6	0.000399	0.875	0.00032	0.00024	0.60	0.0012	< 0.003	0.00001
12: AMQ-ENV15-026	0.000048	0.00064	0.00012	0.009	6.34	0.000046	1.83	0.00017	0.00004	0.90	0.0020	< 0.003	< 0.00001
13: AMQ-ENV15-055	0.000034	< 0.00003	0.00010	< 0.007	7.79	0.000027	1.59	0.00005	0.00006	0.46	0.0002	< 0.003	< 0.00001
14: AMQ-ENV15-021	0.000034	0.00031	0.00261	0.008	11.9	0.000264	1.02	0.00014	0.00010	1.16	0.0006	< 0.003	0.00004
15: AMQ-ENV15-027	0.000053	0.00036	0.00014	0.031	12.7	0.00110	0.792	0.00160	0.00015	0.91	0.0019	< 0.003	< 0.00001
16: AMQ-ENV15-040	0.000020	< 0.00003	0.00020	< 0.007	7.68	0.000088	1.79	0.00011	0.00006	0.39	0.0001	< 0.003	< 0.00001
17: AMQ-ENV15-041	0.000024	< 0.00003	0.00011	< 0.007	8.17	0.000097	1.60	0.00004	0.00007	0.66	0.0002	< 0.003	< 0.00001
18: AMQ-ENV15-034	0.000042	0.00009	0.00015	0.019	8.45	0.000215	0.803	0.00095	0.00025	1.21	0.0015	< 0.003	< 0.00001
19: AMQ-ENV15-045	0.000059	0.00033	0.00012	0.008	9.88	0.000588	1.29	0.00041	0.00009	3.41	0.0013	< 0.003	< 0.00001
20: AMQ-ENV15-038	0.000073	0.00014	0.00245	0.020	18.1	0.00199	2.29	0.00200	0.00015	1.24	0.0021	< 0.003	0.00005

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

SFE -24hr 4:1 L/S ratio

LR Report : **CA15169-AUG15**

Sample ID	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L	P mg/L	Pb mg/L
21: AMQ-ENV15-039	0.000046	0.00082	0.00010	< 0.007	12.4	0.000322	1.55	0.00008	0.00003	0.43	0.0018	< 0.003	< 0.00001
22: AMQ-ENV15-035	0.000054	0.00031	0.00041	0.051	7.18	0.000927	1.05	0.00257	0.00009	0.74	0.0009	< 0.003	0.00001
23: AMQ-ENV15-010	0.000079	0.00055	0.00024	0.031	18.4	0.00313	0.832	0.00170	0.00021	1.32	0.0020	< 0.003	0.00002
24: AMQ-ENV15-086	0.000119	0.00456	0.00041	0.034	28.1	0.000110	0.724	0.00070	0.00008	1.38	0.0016	0.003	0.00002
25: AMQ-ENV15-099	0.000057	0.00038	0.00018	0.010	4.74	0.000031	4.80	0.00022	0.00002	0.39	0.0019	< 0.003	< 0.00001
26: AMQ-ENV15-089	0.000145	0.00017	0.00010	0.025	33.9	0.00206	1.91	0.00261	0.00034	1.87	0.0080	< 0.003	< 0.00001
27: AMQ-ENV15-020	0.000036	0.00012	0.00046	0.015	22.7	0.00134	2.56	0.00041	0.00051	2.02	0.0007	0.009	0.00002
28: AMQ-ENV15-033	0.000061	0.00027	0.00017	0.008	30.4	0.00217	2.22	0.00046	0.00058	3.39	0.0003	< 0.003	< 0.00001
29: AMQ-ENV15-109	0.000072	0.00022	0.00017	< 0.007	27.9	0.00169	3.26	0.00062	0.00031	1.83	0.0007	< 0.003	< 0.00001
30: AMQ-ENV15-081	0.000040	0.00024	0.00012	0.019	12.4	0.000419	0.515	0.00027	0.00307	3.46	0.0002	0.013	< 0.00001
31: AMQ-ENV15-076	0.000776	0.00020	0.00037	0.037	27.9	0.00872	14.0	0.0255	0.00788	2.05	0.0196	< 0.003	0.00001
32: AMQ-ENV15-104	0.000099	0.00112	0.00044	0.038	20.6	0.000111	0.457	0.00071	0.00295	2.17	0.0025	0.015	0.00142
33: AMQ-ENV15-094	0.000069	0.00096	0.00023	0.040	17.2	0.000069	0.379	0.00070	0.00061	2.67	0.0005	0.018	0.00005
34: AMQ-ENV15-024	0.000076	0.00155	0.00025	0.073	10.7	0.000374	0.523	0.00120	0.00101	3.71	0.0004	0.039	0.00007
35: AMQ-ENV15-023	0.000091	0.00188	0.00027	0.120	17.4	0.000658	0.362	0.00170	0.00071	3.91	0.0004	0.051	0.00007
36: AMQ-ENV15-022	0.000065	0.00140	0.00040	0.050	22.4	0.000156	0.330	0.00078	0.00048	3.38	0.0004	0.023	0.00004
37: AMQ-ENV15-042	0.000062	0.00021	0.00034	0.082	39.4	0.000683	0.237	0.00141	0.00136	5.02	0.0003	0.036	0.00006
38: AMQ-ENV15-032	0.000076	0.00152	0.00027	0.075	17.7	0.000258	0.342	0.00127	0.00069	3.95	0.0004	0.030	0.00002
39: AMQ-ENV15-003	0.000044	0.00067	0.00030	0.026	14.9	0.000085	0.366	0.00046	0.00066	2.90	0.0002	0.013	0.00006
40: AMQ-ENV15-001	0.000084	0.00134	0.00036	0.087	16.2	0.000809	0.616	0.00116	0.00186	3.85	0.0006	0.026	0.00003
41: AMQ-ENV15-047	0.000064	0.00134	0.00090	0.050	25.7	0.000541	0.745	0.00075	0.00048	0.97	0.0007	0.007	0.00008
42: AMQ-ENV15-006	0.000050	0.00071	0.00038	0.033	18.5	0.000848	1.15	0.00053	0.00028	1.81	0.0005	0.011	0.00007
43: AMQ-ENV15-008	0.000052	< 0.00003	0.00015	0.022	6.01	0.00126	1.30	0.00262	0.00239	9.11	0.0004	< 0.003	0.00002
44: AMQ-ENV15-009	0.000032	0.00004	0.00016	0.026	10.1	0.00145	2.33	0.00398	0.00355	9.09	0.0003	< 0.003	< 0.00001
45: AMQ-ENV15-012	0.000116	0.00074	0.00072	0.104	7.63	0.00159	0.578	0.00195	0.00222	13.8	0.0005	0.070	0.00107
46: AMQ-ENV15-013	0.000099	0.00298	0.00059	0.092	22.9	0.000596	0.238	0.00131	0.00051	20.3	0.0008	0.016	0.00006
47: AMQ-ENV15-004	0.000064	0.00148	0.00198	0.043	12.9	0.000658	0.488	0.00070	0.00057	15.5	0.0004	0.022	0.00009
48: AMQ-ENV15-005	0.000053	0.00054	0.00074	0.016	18.0	0.000845	0.895	0.00029	0.00036	8.47	0.0003	< 0.003	0.00001
49: AMQ-ENV15-091	0.000042	0.00012	0.00021	0.054	22.6	0.00397	2.69	0.00844	0.00229	8.67	0.0003	< 0.003	0.00001
50: AMQ-ENV15-101	0.000024	< 0.00003	0.00018	0.007	15.4	0.000164	0.514	0.00103	0.00267	3.85	< 0.0001	< 0.003	0.00003
51: AMQ-ENV15-102	0.000085	0.00098	0.00018	0.131	8.16	0.000347	0.202	0.00170	0.00109	14.0	0.0003	0.037	0.00005
52: AMQ-ENV15-103	0.000140	0.00216	0.00040	0.150	13.8	0.000235	0.428	0.00241	0.00128	7.77	0.0010	0.019	0.00009
53: AMQ-ENV15-098	0.000084	0.00013	0.00053	0.189	7.62	0.00248	0.280	0.00448	0.00055	10.4	0.0002	0.029	0.00011
54: AMQ-ENV15-093	0.000070	< 0.00003	0.00010	0.011	8.73	0.000617	2.45	0.00042	0.00392	3.75	0.0008	< 0.003	0.00002
55: AMQ-ENV15-097	0.000044	< 0.00003	0.00010	0.032	9.40	0.00187	0.202	0.00071	0.00039	9.33	0.0002	0.018	0.00006
56: AMQ-ENV15-110	0.000041	0.00009	0.00011	0.043	5.63	0.000762	0.361	0.00049	0.00107	9.20	0.0001	< 0.003	0.00003
57: AMQ-ENV15-106	0.000037	0.00053	0.00058	0.041	6.26	0.00141	0.143	0.00104	0.00110	17.5	< 0.0001	0.008	0.00007

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SFE -24hr 4:1 L/S ratio

LR Report : **CA15169-AUG15**

Sample ID	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L	P mg/L	Pb mg/L
58: AMQ-ENV15-107	0.000022	0.00020	0.00012	0.034	6.50	0.00103	0.136	0.00060	0.00048	12.9	< 0.0001	0.018	0.00004
59: AMQ-ENV15-108	0.000066	0.00029	0.00019	0.073	7.18	0.00159	0.174	0.00105	0.00056	12.5	0.0001	0.025	0.00010
60: AMQ-ENV15-064	0.000061	0.00014	0.00032	0.070	7.23	0.00296	0.405	0.00111	0.00100	13.9	0.0002	0.026	0.00004
61: AMQ-ENV15-065	0.000125	0.00036	0.00014	0.202	6.92	0.00193	0.251	0.00361	0.00054	10.9	0.0004	0.030	0.00018
62: AMQ-ENV15-066	0.000173	0.00023	0.00030	0.212	11.5	0.00267	0.424	0.00309	0.00134	9.44	0.0006	0.019	0.00016
63: AMQ-ENV15-112	0.000054	0.00072	0.00020	0.139	4.93	0.00243	0.128	0.00213	0.00055	19.4	< 0.0001	0.023	0.00009
64: AMQ-ENV15-049	0.000091	0.00110	0.00012	0.068	10.4	0.000177	0.418	0.00131	0.00062	8.28	0.0003	0.010	0.00002
65: AMQ-ENV15-048	0.000028	0.00003	0.00021	0.028	9.52	0.000719	0.249	0.00035	0.00050	8.79	< 0.0001	< 0.003	< 0.00001
66: AMQ-ENV15-025	0.000052	< 0.00003	0.00009	0.069	5.75	0.000739	0.772	0.00073	0.00080	14.1	< 0.0001	< 0.003	< 0.00001
67: AMQ-ENV15-054	0.000076	< 0.00003	0.00013	0.059	14.3	0.00947	4.33	0.05324	0.00095	2.44	0.0009	< 0.003	< 0.00001
68: AMQ-ENV15-073	0.000090	0.00011	0.00015	0.214	7.05	0.00261	0.316	0.00410	0.00036	9.67	0.0003	0.016	0.00018
69: AMQ-ENV15-075	0.000058	0.00012	0.00009	0.068	7.04	0.00353	0.407	0.00139	0.00066	11.9	0.0002	0.017	0.00003
70: AMQ-ENV15-074	0.000057	0.00015	0.00020	0.076	7.08	0.000802	0.181	0.00117	0.00031	11.5	0.0001	0.026	0.00006
71: AMQ-ENV15-002	0.000057	0.00004	0.00020	0.036	11.2	0.00171	0.668	0.00038	0.00354	9.91	0.0001	0.039	0.00010
72: AMQ-ENV15-100	0.000061	0.00019	0.00011	0.138	14.2	0.000724	0.316	0.00103	0.00233	8.62	0.0001	0.049	0.00035
73: AMQ-ENV15-077	0.000050	0.00006	0.00028	0.045	9.50	0.000802	0.209	0.00043	0.00351	9.73	< 0.0001	0.029	0.00003
74: AMQ-ENV15-019	0.000059	0.00007	0.00161	0.068	30.4	0.00363	4.00	0.00561	0.00382	8.55	0.0012	< 0.003	0.00004
75: AMQ-ENV15-046	0.000046	0.00004	0.00017	0.033	15.6	0.000965	3.05	0.00286	0.00089	14.9	0.0002	< 0.003	< 0.00001
76: AMQ-ENV15-037	0.006029	< 0.00003	0.00031	0.178	19.6	0.00903	4.13	0.790	0.00004	6.23	0.0182	< 0.003	< 0.00001
77: AMQ-ENV15-007	0.000079	0.00010	0.00022	0.039	28.9	0.00171	1.65	0.00264	0.00089	10.0	0.0006	0.003	0.00002
78: AMQ-ENV15-092	0.000286	0.00014	0.00033	0.096	16.1	0.00120	3.23	0.00702	0.00060	8.87	0.0065	< 0.003	0.00002
79: AMQ-ENV15-122	0.000124	0.00048	0.00018	< 0.007	33.7	0.000465	0.333	0.00019	0.00007	1.82	0.0008	< 0.003	0.00001
80: AMQ-ENV15-088	0.000050	0.00005	0.00033	0.039	16.7	0.00182	2.01	0.00447	0.00349	7.89	0.0002	< 0.003	0.00002
81: AMQ-ENV15-095	0.000066	0.00004	0.00018	0.042	11.3	0.00324	0.797	0.00362	0.00207	10.9	0.0002	0.005	0.00004
82: AMQ-ENV15-096	0.000057	0.00016	0.00017	0.272	14.0	0.000557	0.207	0.00324	0.00168	13.3	0.0001	0.003	0.00006
83: AMQ-ENV15-085	0.000101	< 0.00003	0.00036	0.049	8.13	0.00150	1.51	0.00596	0.00164	7.57	0.0003	< 0.003	0.00014
84: AMQ-ENV15-058	0.000062	0.00006	0.00021	0.042	23.0	0.00733	2.58	0.0113	0.00478	8.44	0.0004	< 0.003	< 0.00001
85: AMQ-ENV15-056	0.000162	0.00033	0.00025	0.178	9.43	0.00262	0.558	0.00337	0.00104	10.8	0.0006	0.014	0.00046
86: AMQ-ENV15-115	0.000036	0.00004	0.00062	0.045	2.32	0.000220	0.136	0.00060	0.00077	25.5	< 0.0001	0.007	0.00002
87: AMQ-ENV15-111	0.000057	0.00032	0.00041	0.009	6.52	0.000035	2.79	0.00010	0.00017	0.54	0.0011	< 0.003	< 0.00001
88: AMQ-ENV15-124	0.000136	0.00404	0.00007	0.044	26.0	0.000333	0.675	0.00107	0.00013	9.75	0.0019	< 0.003	0.00002
89: AMQ-ENV15-123	0.000120	0.00058	0.00018	0.008	27.9	0.00153	3.30	0.00050	0.00026	2.04	0.0018	< 0.003	0.00002
90: AMQ-ENV15-116	0.000445	0.00130	0.00195	0.561	1.18	0.00210	0.132	0.00638	0.00016	10.0	0.0010	0.037	0.00037
91: AMQ-ENV15-130	0.001053	0.00358	0.01106	0.748	0.554	0.00186	0.817	0.0187	0.00015	11.2	0.0070	0.064	0.00080
92: AMQ-ENV15-131	0.000313	0.00117	0.00339	0.386	0.288	0.000904	0.086	0.00541	0.00011	8.62	0.0011	0.018	0.00034
93: AMQ-ENV15-132	0.000392	0.00112	0.00160	0.508	0.240	0.000731	0.136	0.01355	0.00044	8.21	0.0017	0.011	0.00050
94: AMQ-ENV15-117	0.001122	0.00218	0.00188	1.11	0.482	0.000614	0.303	0.0207	0.00061	9.20	0.0027	0.055	0.00057

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SFE -24hr 4:1 L/S ratio

LR Report : **CA15169-AUG15**

Sample ID	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L	P mg/L	Pb mg/L
95: AMQ-ENV15-118	0.000966	0.00793	0.00820	0.673	0.546	0.00209	0.452	0.0299	0.00010	8.50	0.0028	0.043	0.00055
96: AMQ-ENV15-119	0.000784	0.00366	0.00247	1.08	0.367	0.00172	0.214	0.0168	0.00022	7.55	0.0019	0.054	0.00066
97: AMQ-ENV15-125	0.000917	0.00212	0.00484	0.791	0.569	0.00108	0.694	0.0248	0.00009	8.57	0.0032	0.022	0.00084
98: AMQ-ENV15-126	0.000309	0.00078	0.00170	0.377	0.321	0.000497	0.098	0.00959	0.00135	7.28	0.0015	0.010	0.00039
99: AMQ-ENV15-127	0.000538	0.00125	0.00199	0.588	0.442	0.000624	0.232	0.0147	0.00046	7.77	0.0020	0.010	0.00077
100: AMQ-ENV15-128	0.000822	0.00220	0.00219	0.995	0.533	0.00103	0.248	0.0238	0.00031	7.43	0.0021	0.035	0.00086
101: AMQ-ENV15-129	0.000524	0.00125	0.00283	0.471	0.383	0.000766	0.139	0.0138	0.00006	9.59	0.0015	0.020	0.00051
102: AMQ-ENV15-105	0.000091	0.00175	0.00012	0.043	12.2	0.000073	0.818	0.00101	0.00007	6.81	0.0008	< 0.003	0.00001
103: AMQ-ENV15-121	0.000069	0.00022	0.00012	0.009	19.6	0.000180	2.75	0.00023	0.00004	2.45	0.0010	< 0.003	< 0.00001
104: AMQ-ENV15-068	0.000059	0.00066	0.00017	0.008	14.6	0.000048	0.968	0.00010	0.00008	2.96	0.0005	< 0.003	< 0.00001
105: AMQ-ENV15-051	0.000216	0.00083	0.00009	0.009	23.9	0.000224	3.28	0.00093	0.00006	1.93	0.0059	< 0.003	0.00002
106: AMQ-ENV15-071	0.000263	0.00014	0.00008	0.009	17.6	0.000027	1.35	0.00033	0.00002	2.14	0.0019	< 0.003	0.00002
107: AMQ-ENV15-084	0.000053	0.00013	0.00009	0.015	4.77	0.000042	3.81	0.00011	< 0.00001	1.83	0.0005	< 0.003	< 0.00001
108: AMQ-ENV15-083	0.000046	0.00059	0.00007	< 0.007	33.0	0.000088	0.340	0.00007	< 0.00001	2.16	0.0002	< 0.003	< 0.00001
109: AMQ-ENV15-050	0.000041	0.00130	0.00020	0.007	21.9	0.000031	0.259	0.00009	0.00021	4.01	0.0006	0.004	< 0.00001
110: AMQ-ENV15-044	0.000074	0.00128	0.00014	0.048	14.1	0.000077	0.265	0.00119	0.00008	7.67	0.0003	0.005	< 0.00001
111: AMQ-ENV15-070	0.000100	0.00172	0.00010	0.062	21.9	0.000136	0.173	0.00114	0.00111	9.38	0.0006	0.008	0.00010
112: AMQ-ENV15-072	0.000107	0.00263	0.00011	0.047	21.0	0.000115	0.245	0.00102	0.00058	8.62	0.0006	0.018	0.00003
113: AMQ-ENV15-120	0.000106	0.00025	0.00015	0.138	14.0	0.00257	0.205	0.00317	0.00040	8.83	0.0002	0.015	0.00019
114: AMQ-ENV15-113	0.000130	0.00031	0.00057	0.155	10.2	0.00232	0.196	0.00330	0.00032	10.1	0.0002	0.029	0.00059
115: AMQ-ENV15-052	0.000046	0.00033	0.00012	< 0.007	30.0	0.000068	0.122	0.00008	0.00011	2.14	0.0001	0.003	< 0.00001
116: AMQ-ENV15-060	0.000158	0.00022	0.00032	0.174	8.67	0.00144	0.163	0.00354	0.00024	11.5	0.0003	0.035	0.00042
117: AMQ-ENV15-062	0.000090	0.00040	0.00017	0.017	8.27	0.000069	4.73	0.00024	0.00005	1.67	0.0022	< 0.003	< 0.00001
118: AMQ-ENV15-063	0.000114	0.00031	0.00030	0.193	13.9	0.00173	0.166	0.00296	0.00038	10.6	0.0002	0.030	0.00008
119: AMQ-ENV15-114	0.000169	0.00036	0.00036	0.316	7.79	0.00112	0.223	0.00341	0.00508	10.2	0.0002	0.098	0.00006
120: AMQ-ENV15-078	0.000050	0.00007	0.00015	0.042	8.41	0.000719	0.452	0.00044	0.01199	11.0	0.0003	0.027	0.00007
121: AMQ-ENV15-043	0.000045	< 0.00003	0.00013	0.057	7.43	0.00136	1.21	0.00292	0.00176	10.1	0.0002	< 0.003	0.00001
122: AMQ-ENV15-067	0.000039	< 0.00003	0.00031	0.032	2.15	0.000812	1.18	0.00125	0.00141	24.3	0.0001	< 0.003	< 0.00001
123: AMQ-ENV15-061	0.000092	0.00016	0.00105	0.183	5.52	0.000438	0.204	0.00276	0.00027	11.1	0.0002	0.009	0.00013
124-DUP: AMQ-ENV15-086	0.000171	0.00515	0.00019	0.040	29.6	0.000111	0.788	0.00082	0.00014	1.23	0.0017	0.003	0.00001
125-DUP: AMQ-ENV15-009	0.000059	< 0.00003	0.00012	0.027	8.90	0.00137	2.14	0.00535	0.00243	7.56	0.0003	< 0.003	< 0.00001
126-DUP: AMQ-ENV15-049	0.000092	0.00119	0.00025	0.072	11.5	0.000180	0.385	0.00139	0.00065	8.72	0.0003	0.011	0.00003
127-DUP: AMQ-ENV15-058	0.000069	0.00010	0.00011	0.042	22.6	0.00764	2.23	0.00765	0.00561	8.93	0.0005	< 0.003	0.00002
128-DUP: AMQ-ENV15-068	0.000062	0.00064	0.00016	< 0.007	13.1	0.000055	1.19	0.00011	0.00026	2.70	0.0006	< 0.003	< 0.00001
129-DUP: AMQ-ENV15-061	0.000108	0.00013	0.00019	0.193	5.60	0.000427	0.217	0.00301	0.00023	10.1	0.0002	0.008	0.00015

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

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Phone: 705-652-2000 FAX: 705-652-6365

SFE -24hr 4:1 L/S ratio

LR Report : **CA15169-AUG15**

Sample ID	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L	V mg/L	Zn mg/L
3: Analysis Approval Date	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15
4: Analysis Approval Time	15:12	15:13	15:13	15:13	15:13	15:14	15:14	15:16	15:16	15:16
5: AMQ-ENV15-028	0.0125	0.00018	5.35	< 0.00001	0.0413	< 0.00005	0.000027	< 0.000002	0.0118	< 0.002
6: AMQ-ENV15-029	0.0015	< 0.00004	2.68	< 0.00001	0.0750	< 0.00005	0.000023	< 0.000002	0.00111	< 0.002
7: AMQ-ENV15-030	0.0033	0.00009	2.74	0.00014	0.0761	< 0.00005	0.000007	0.000003	0.00211	< 0.002
8: AMQ-ENV15-016	0.0189	0.00232	3.19	< 0.00001	0.113	0.00021	0.000025	0.000008	0.00549	< 0.002
9: AMQ-ENV15-011	0.0124	0.00013	7.46	< 0.00001	0.0393	0.00037	< 0.000005	< 0.000002	0.0148	< 0.002
10: AMQ-ENV15-014	0.0021	< 0.00004	2.72	< 0.00001	0.0627	< 0.00005	0.000020	< 0.000002	0.00155	< 0.002
11: AMQ-ENV15-090	0.0264	0.00008	5.93	0.00001	0.0238	0.00013	< 0.000005	< 0.000002	0.0111	< 0.002
12: AMQ-ENV15-026	0.0108	< 0.00004	3.90	< 0.00001	0.0785	< 0.00005	0.000011	< 0.000002	0.00547	< 0.002
13: AMQ-ENV15-055	0.0041	< 0.00004	3.51	< 0.00001	0.0570	< 0.00005	0.000035	< 0.000002	0.00278	< 0.002
14: AMQ-ENV15-021	0.0096	0.00012	5.38	0.00060	0.117	< 0.00005	0.000011	< 0.000002	0.00542	0.002
15: AMQ-ENV15-027	0.0195	0.00008	3.00	< 0.00001	0.0210	0.00024	< 0.000005	0.000008	0.00552	< 0.002
16: AMQ-ENV15-040	0.0051	0.00015	3.28	< 0.00001	0.0432	< 0.00005	0.000035	< 0.000002	0.00323	< 0.002
17: AMQ-ENV15-041	0.0032	0.00013	3.08	< 0.00001	0.0510	< 0.00005	0.000021	< 0.000002	0.00191	< 0.002
18: AMQ-ENV15-034	0.0093	0.00007	2.21	< 0.00001	0.0248	0.00011	< 0.000005	< 0.000002	0.00219	< 0.002
19: AMQ-ENV15-045	0.0157	0.00006	4.23	< 0.00001	0.0251	0.00005	< 0.000005	< 0.000002	0.00720	< 0.002
20: AMQ-ENV15-038	0.0145	0.00012	2.95	0.00023	0.0262	0.00009	< 0.000005	0.000002	0.00330	< 0.002
21: AMQ-ENV15-039	0.0132	< 0.00004	7.20	< 0.00001	0.0409	< 0.00005	< 0.000005	< 0.000002	0.00620	< 0.002
22: AMQ-ENV15-035	0.0058	0.00006	3.82	0.00002	0.0160	0.00035	< 0.000005	0.000006	0.00346	< 0.002
23: AMQ-ENV15-010	0.0102	0.00013	3.41	0.00004	0.0216	0.00031	< 0.000005	0.000009	0.00619	< 0.002
24: AMQ-ENV15-086	0.0274	0.00037	12.6	0.00008	0.0456	0.00086	< 0.000005	< 0.000002	0.0268	< 0.002
25: AMQ-ENV15-099	0.0140	< 0.00004	3.92	< 0.00001	0.0732	< 0.00005	0.000014	< 0.000002	0.00433	< 0.002
26: AMQ-ENV15-089	0.0232	0.00012	3.78	< 0.00001	0.0343	0.00055	< 0.000005	0.000027	0.00497	< 0.002
27: AMQ-ENV15-020	0.0065	0.00092	5.41	0.00033	0.0656	0.00024	< 0.000005	0.000009	0.00501	< 0.002
28: AMQ-ENV15-033	0.0038	0.00012	5.75	< 0.00001	0.0890	< 0.00005	0.000015	0.000009	0.00501	< 0.002
29: AMQ-ENV15-109	0.0033	< 0.00004	4.69	< 0.00001	0.0908	< 0.00005	0.000020	0.000004	0.00395	< 0.002
30: AMQ-ENV15-081	0.0026	0.00039	4.86	< 0.00001	0.0374	0.00060	< 0.000005	0.000161	0.0153	< 0.002
31: AMQ-ENV15-076	0.0071	0.00052	3.51	< 0.00001	0.234	0.00076	0.000034	0.000109	0.00061	< 0.002
32: AMQ-ENV15-104	0.0049	0.00011	9.98	0.00007	0.0419	0.00141	< 0.000005	0.000009	0.0236	< 0.002
33: AMQ-ENV15-094	0.0032	0.00020	11.1	< 0.00001	0.0307	0.00118	< 0.000005	0.000008	0.0202	< 0.002
34: AMQ-ENV15-024	0.0018	0.00018	11.3	< 0.00001	0.0251	0.00221	< 0.000005	0.000110	0.0223	< 0.002
35: AMQ-ENV15-023	0.0019	0.00072	10.3	< 0.00001	0.0202	0.00424	< 0.000005	0.000277	0.0270	< 0.002
36: AMQ-ENV15-022	0.0046	0.00013	13.5	< 0.00001	0.0569	0.00245	< 0.000005	0.000023	0.0187	< 0.002
37: AMQ-ENV15-042	0.0045	0.00038	3.57	< 0.00001	0.0115	0.00906	< 0.000005	0.00138	0.0121	< 0.002
38: AMQ-ENV15-032	0.0037	0.00023	9.52	< 0.00001	0.0252	0.00338	< 0.000005	0.000145	0.0261	< 0.002
39: AMQ-ENV15-003	0.0020	0.00016	10.1	< 0.00001	0.0299	0.00082	< 0.000005	0.000038	0.0195	< 0.002

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

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Phone: 705-652-2000 FAX: 705-652-6365

SFE -24hr 4:1 L/S ratio

LR Report : **CA15169-AUG15**

Sample ID	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L	V mg/L	Zn mg/L
40: AMQ-ENV15-001	0.0031	0.00062	6.51	< 0.00001	0.0498	0.00278	< 0.000005	0.000102	0.0160	< 0.002
41: AMQ-ENV15-047	0.0059	0.00022	8.46	< 0.00001	0.0270	0.00228	0.000006	0.000010	0.0130	< 0.002
42: AMQ-ENV15-006	0.0025	0.00065	8.43	0.00006	0.0304	0.00128	< 0.000005	0.000007	0.0203	< 0.002
43: AMQ-ENV15-008	0.0047	< 0.00004	1.73	< 0.00001	0.0191	0.00021	< 0.000005	0.000046	0.00023	< 0.002
44: AMQ-ENV15-009	0.0030	0.00025	3.61	0.00003	0.0327	0.00029	< 0.000005	0.000079	0.00032	< 0.002
45: AMQ-ENV15-012	0.0019	0.00061	6.35	0.00002	0.0175	0.00331	< 0.000005	0.000133	0.0180	< 0.002
46: AMQ-ENV15-013	0.0037	0.00033	16.3	0.00001	0.0217	0.00486	< 0.000005	0.000030	0.0208	< 0.002
47: AMQ-ENV15-004	0.0031	0.00035	15.2	0.00070	0.0224	0.00173	< 0.000005	0.000021	0.0218	< 0.002
48: AMQ-ENV15-005	0.0032	0.00024	7.78	0.00002	0.0293	0.00053	< 0.000005	0.000006	0.00775	< 0.002
49: AMQ-ENV15-091	0.0021	0.00092	3.03	< 0.00001	0.0269	0.00055	< 0.000005	0.000139	0.00016	< 0.002
50: AMQ-ENV15-101	0.0014	< 0.00004	1.90	< 0.00001	0.0477	0.00013	< 0.000005	0.000016	0.00317	< 0.002
51: AMQ-ENV15-102	0.0023	0.00025	5.70	< 0.00001	0.0198	0.00671	< 0.000005	0.000092	0.0164	< 0.002
52: AMQ-ENV15-103	0.0017	0.00031	11.0	0.00001	0.0212	0.00593	< 0.000005	0.000008	0.0271	< 0.002
53: AMQ-ENV15-098	0.0024	< 0.00004	3.40	0.00005	0.00681	0.00607	< 0.000005	0.000855	0.00958	< 0.002
54: AMQ-ENV15-093	0.0014	0.00014	3.81	< 0.00001	0.0433	0.00014	< 0.000005	0.000073	0.00576	< 0.002
55: AMQ-ENV15-097	0.0027	0.00009	3.94	< 0.00001	0.00693	0.00144	< 0.000005	0.000750	0.00819	< 0.002
56: AMQ-ENV15-110	0.0017	0.00009	3.74	< 0.00001	0.0189	0.00145	< 0.000005	0.000435	0.00792	< 0.002
57: AMQ-ENV15-106	0.0020	< 0.00004	4.31	< 0.00001	0.00732	0.00169	< 0.000005	0.000966	0.00555	< 0.002
58: AMQ-ENV15-107	0.0024	0.00011	4.06	< 0.00001	0.00442	0.00142	< 0.000005	0.000776	0.00877	< 0.002
59: AMQ-ENV15-108	0.0017	< 0.00004	4.26	< 0.00001	0.00518	0.00390	< 0.000005	0.000606	0.00973	< 0.002
60: AMQ-ENV15-064	0.0026	0.00025	3.29	0.00003	0.00811	0.00278	< 0.000005	0.000688	0.00842	< 0.002
61: AMQ-ENV15-065	0.0021	0.00012	4.16	< 0.00001	0.00550	0.00849	< 0.000005	0.000773	0.0108	< 0.002
62: AMQ-ENV15-066	0.0025	0.00014	2.80	0.00001	0.0113	0.00624	< 0.000005	0.000426	0.00828	< 0.002
63: AMQ-ENV15-112	0.0027	< 0.00004	4.81	< 0.00001	0.00215	0.00311	< 0.000005	0.000087	0.00369	< 0.002
64: AMQ-ENV15-049	0.0023	0.00017	10.8	< 0.00001	0.0241	0.00193	< 0.000005	0.000024	0.0179	< 0.002
65: AMQ-ENV15-048	0.0027	< 0.00004	2.14	0.00003	0.00902	0.00029	< 0.000005	0.000211	0.00131	< 0.002
66: AMQ-ENV15-025	0.0022	0.00018	4.44	< 0.00001	0.0171	0.00027	< 0.000005	0.000057	0.00100	< 0.002
67: AMQ-ENV15-054	0.0024	< 0.00004	1.90	< 0.00001	0.0339	0.00053	< 0.000005	0.000435	0.00010	< 0.002
68: AMQ-ENV15-073	0.0032	< 0.00004	3.88	< 0.00001	0.00704	0.00591	< 0.000005	0.00103	0.00472	< 0.002
69: AMQ-ENV15-075	0.0027	0.00012	2.97	< 0.00001	0.00730	0.00201	< 0.000005	0.000321	0.00316	< 0.002
70: AMQ-ENV15-074	0.0028	< 0.00004	3.96	0.00002	0.00595	0.00344	< 0.000005	0.000948	0.0112	< 0.002
71: AMQ-ENV15-002	0.0022	0.00160	2.45	0.00003	0.0235	0.00175	< 0.000005	0.000274	0.00648	< 0.002
72: AMQ-ENV15-100	0.0015	0.00006	2.06	< 0.00001	0.00898	0.00639	< 0.000005	0.000233	0.00717	< 0.002
73: AMQ-ENV15-077	0.0024	0.00019	2.86	0.00002	0.0115	0.00263	< 0.000005	0.000521	0.0121	< 0.002
74: AMQ-ENV15-019	0.0058	0.00032	3.50	0.00026	0.0316	0.00054	< 0.000005	0.000608	0.00017	< 0.002
75: AMQ-ENV15-046	0.0017	0.00014	2.22	< 0.00001	0.0375	0.00039	< 0.000005	0.000135	0.00006	< 0.002
76: AMQ-ENV15-037	0.0010	0.00113	6.27	< 0.00001	0.0497	0.00023	0.000014	0.000030	< 0.00001	< 0.002

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Sample ID	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L	V mg/L	Zn mg/L
77: AMQ-ENV15-007	0.0032	0.00037	3.49	0.00018	0.104	0.00079	< 0.000005	0.000076	0.00148	< 0.002
78: AMQ-ENV15-092	0.0066	0.00012	3.44	< 0.00001	0.0263	0.00057	< 0.000005	0.000035	0.00032	< 0.002
79: AMQ-ENV15-122	0.0129	0.00008	6.35	< 0.00001	0.0257	0.00006	< 0.000005	< 0.000002	0.0134	< 0.002
80: AMQ-ENV15-088	0.0021	0.00013	1.55	0.00002	0.0316	0.00046	< 0.000005	0.000038	0.00010	< 0.002
81: AMQ-ENV15-095	0.0024	0.00014	2.72	< 0.00001	0.0198	0.00169	< 0.000005	0.000559	0.00254	< 0.002
82: AMQ-ENV15-096	0.0044	0.00006	1.70	0.00002	0.00691	0.00494	< 0.000005	0.000093	0.00176	< 0.002
83: AMQ-ENV15-085	0.0016	< 0.00004	1.65	0.00004	0.0208	0.00080	< 0.000005	0.000029	0.00047	< 0.002
84: AMQ-ENV15-058	0.0020	0.00031	2.77	0.00002	0.0422	0.00042	< 0.000005	0.00100	0.00018	< 0.002
85: AMQ-ENV15-056	0.0044	0.00018	3.09	0.00004	0.0111	0.00751	< 0.000005	0.000725	0.00540	< 0.002
86: AMQ-ENV15-115	0.0040	0.00012	4.92	0.00031	0.00564	0.00020	< 0.000005	0.000035	0.00194	< 0.002
87: AMQ-ENV15-111	0.0243	< 0.00004	6.06	0.00004	0.0674	< 0.00005	< 0.000005	< 0.000002	0.00819	< 0.002
88: AMQ-ENV15-124	0.0183	0.00031	12.7	< 0.00001	0.0731	0.00087	< 0.000005	0.000007	0.0183	< 0.002
89: AMQ-ENV15-123	0.0107	0.00012	5.04	< 0.00001	0.160	< 0.00005	0.000020	0.000010	0.00598	< 0.002
90: AMQ-ENV15-116	0.0005	0.00018	5.48	0.00012	0.00221	0.0329	< 0.000005	0.000163	0.00113	< 0.002
91: AMQ-ENV15-130	0.0004	0.00041	6.43	0.00003	0.00896	0.0169	< 0.000005	0.00232	0.00088	< 0.002
92: AMQ-ENV15-131	0.0004	< 0.00004	3.98	0.00005	0.00089	0.0117	< 0.000005	0.000476	0.00062	< 0.002
93: AMQ-ENV15-132	0.0004	< 0.00004	4.43	< 0.00001	0.00114	0.0132	< 0.000005	0.000477	0.00067	< 0.002
94: AMQ-ENV15-117	0.0005	0.00005	6.40	0.00004	0.00182	0.0492	< 0.000005	0.000191	0.00234	0.003
95: AMQ-ENV15-118	0.0004	0.00017	4.02	0.00019	0.00408	0.0286	< 0.000005	0.000550	0.00150	< 0.002
96: AMQ-ENV15-119	0.0005	< 0.00004	3.78	0.00004	0.00124	0.0311	< 0.000005	0.000232	0.00152	0.002
97: AMQ-ENV15-125	0.0003	0.00030	4.33	0.00002	0.00548	0.0189	< 0.000005	0.000875	0.00119	< 0.002
98: AMQ-ENV15-126	0.0004	0.00024	3.88	0.00002	0.00080	0.00941	< 0.000005	0.000457	0.00079	< 0.002
99: AMQ-ENV15-127	0.0004	0.00012	3.80	< 0.00001	0.00201	0.0126	< 0.000005	0.000419	0.00081	< 0.002
100: AMQ-ENV15-128	0.0004	0.00013	5.14	0.00005	0.00197	0.0337	< 0.000005	0.000484	0.00121	0.002
101: AMQ-ENV15-129	0.0003	0.00021	4.19	< 0.00001	0.00126	0.0106	< 0.000005	0.000587	0.00056	< 0.002
102: AMQ-ENV15-105	0.0086	< 0.00004	9.78	< 0.00001	0.0471	0.00093	< 0.000005	0.000009	0.0215	< 0.002
103: AMQ-ENV15-121	0.0072	< 0.00004	4.23	< 0.00001	0.151	< 0.00005	0.000005	< 0.000002	0.00690	< 0.002
104: AMQ-ENV15-068	0.0264	0.00005	7.00	< 0.00001	0.0524	< 0.00005	< 0.000005	< 0.000002	0.0120	< 0.002
105: AMQ-ENV15-051	0.0182	0.00026	4.78	< 0.00001	0.145	< 0.00005	0.000013	< 0.000002	0.00834	< 0.002
106: AMQ-ENV15-071	0.0029	0.00013	3.36	< 0.00001	0.0984	< 0.00005	0.000018	< 0.000002	0.00330	< 0.002
107: AMQ-ENV15-084	0.0038	< 0.00004	3.46	< 0.00001	0.145	< 0.00005	0.000012	0.000004	0.00186	< 0.002
108: AMQ-ENV15-083	0.0081	< 0.00004	6.84	< 0.00001	0.0443	< 0.00005	< 0.000005	< 0.000002	0.0129	< 0.002
109: AMQ-ENV15-050	0.0156	0.00021	8.88	< 0.00001	0.0631	0.00015	< 0.000005	0.000008	0.0217	< 0.002
110: AMQ-ENV15-044	0.0024	0.00015	13.6	< 0.00001	0.0724	0.00140	< 0.000005	0.000008	0.0195	< 0.002
111: AMQ-ENV15-070	0.0020	0.00006	10.7	< 0.00001	0.0246	0.00259	< 0.000005	0.000013	0.0160	< 0.002
112: AMQ-ENV15-072	0.0070	< 0.00004	12.4	< 0.00001	0.0484	0.00168	< 0.000005	0.000016	0.0212	< 0.002
113: AMQ-ENV15-120	0.0036	0.00010	3.39	< 0.00001	0.00778	0.00803	< 0.000005	0.000901	0.0129	< 0.002

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SFE -24hr 4:1 L/S ratio

LR Report : **CA15169-AUG15**

Sample ID	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L	V mg/L	Zn mg/L
114: AMQ-ENV15-113	0.0030	0.00015	4.25	0.00003	0.0104	0.00915	< 0.000005	0.000804	0.0116	< 0.002
115: AMQ-ENV15-052	0.0036	< 0.00004	5.42	0.00002	0.0710	0.00013	0.000005	0.000011	0.0126	< 0.002
116: AMQ-ENV15-060	0.0025	0.00006	4.74	< 0.00001	0.00691	0.00906	< 0.000005	0.000616	0.0111	< 0.002
117: AMQ-ENV15-062	0.0065	0.00015	3.91	0.00001	0.199	0.00009	0.000028	0.000009	0.00371	< 0.002
118: AMQ-ENV15-063	0.0043	< 0.00004	3.77	< 0.00001	0.0105	0.0107	< 0.000005	0.000896	0.0140	< 0.002
119: AMQ-ENV15-114	0.0018	< 0.00004	3.00	< 0.00001	0.00740	0.0255	< 0.000005	0.000230	0.0176	< 0.002
120: AMQ-ENV15-078	0.0027	0.00012	2.19	< 0.00001	0.0152	0.00232	< 0.000005	0.000369	0.00701	< 0.002
121: AMQ-ENV15-043	0.0031	0.00004	2.63	< 0.00001	0.0408	0.00050	< 0.000005	0.000046	0.00015	< 0.002
122: AMQ-ENV15-067	0.0015	< 0.00004	3.04	< 0.00001	0.0487	0.00025	< 0.000005	0.000029	0.00024	< 0.002
123: AMQ-ENV15-061	0.0027	< 0.00004	4.47	0.00006	0.0102	0.00655	< 0.000005	0.000488	0.00803	< 0.002
124-DUP: AMQ-ENV15-086	0.0305	0.00029	11.7	< 0.00001	0.0431	0.00101	< 0.000005	< 0.000002	0.0287	< 0.002
125-DUP: AMQ-ENV15-009	0.0029	< 0.00004	3.91	< 0.00001	0.0331	0.00021	< 0.000005	0.000100	0.00044	< 0.002
126-DUP: AMQ-ENV15-049	0.0027	< 0.00004	10.2	< 0.00001	0.0214	0.00276	< 0.000005	0.000023	0.0186	< 0.002
127-DUP: AMQ-ENV15-058	0.0021	0.00018	2.83	< 0.00001	0.0375	0.00043	< 0.000005	0.000992	0.00023	< 0.002
128-DUP: AMQ-ENV15-068	0.0298	< 0.00004	7.15	< 0.00001	0.0606	< 0.00005	< 0.000005	0.000018	0.0111	< 0.002
129-DUP: AMQ-ENV15-061	0.0028	< 0.00004	4.23	< 0.00001	0.0120	0.00703	< 0.000005	0.000533	0.00796	< 0.002

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Project Specialist
Environmental Services, Analytical

OnLine LIMS

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31-December-2015

Date Rec. : 22 December 2015
LR Report: **CA15279-DEC15**
Reference: Project number 1520817

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ15-433-01	6: AMQ15-433-02	7: AMQ15-433-03	8: AMQ15-438-01	9: AMQ15-438-02	10: AMQ15-438-03	11: AMQ15-438-04	12: AMQ15-481-01	13: AMQ15-481-02	14: AMQ15-481-03	15: AMQ15-481-04	16: AMQ15-481-05
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	24-Dec-15	09:34	200	200	200	200	200	200	200	200	200	200	200	200
Volume D.I. Water [mL]	24-Dec-15	09:34	800	800	800	800	800	800	800	800	800	800	800	800
Initial pH	24-Dec-15	09:34	9.35	9.28	9.83	9.55	9.43	9.81	9.85	9.91	9.99	9.82	9.94	9.93
Final pH	24-Dec-15	09:34	8.29	8.48	9.61	9.71	9.34	8.57	9.24	9.72	9.83	9.61	9.69	8.93
pH [no unit]	29-Dec-15	10:58	9.03	9.05	9.56	9.57	9.36	8.88	9.28	9.56	9.67	9.49	9.61	9.12
Alkalinity [mg/L as CaCO3]	29-Dec-15	10:58	75	70	65	70	70	57	62	59	66	50	56	66
Conductivity [uS/cm]	29-Dec-15	10:58	295	304	201	174	177	210	184	134	155	112	129	238
Fluoride [mg/L]	24-Dec-15	13:28	0.23	0.24	0.22	0.28	0.22	0.18	0.26	0.26	0.26	0.33	0.65	0.25
Chloride [mg/L]	29-Dec-15	16:33	42	53	8	3	5	36	18	1	8	2	1	40
Sulphate [mg/L]	29-Dec-15	16:33	22	17	8	3	4	2	2	2	< 1	1	2	< 1
Bromide [mg/L]	29-Dec-15	11:34	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Nitrite (as N) [mg/L]	29-Dec-15	11:34	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nitrate (as N) [mg/L]	29-Dec-15	11:34	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Chromium VI [ug/L]	31-Dec-15	08:08	0.3	0.3	4.0	0.7	0.6	0.2	0.3	0.4	0.3	0.3	0.4	0.4
Phosphorus (total reactive) [mg/L]	29-Dec-15	16:14	< 0.03	< 0.03	2.16	0.04	0.11	< 0.03	< 0.03	0.06	< 0.03	< 0.03	< 0.03	0.10
Mercury [mg/L]	29-Dec-15	08:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	29-Dec-15	13:56	0.000013	0.000010	0.000003	< 0.000002	< 0.000002	0.000005	0.000002	< 0.000002	0.000764	0.000288	0.000041	0.001195
Aluminum [mg/L]	29-Dec-15	13:56	0.012	0.035	0.055	0.115	0.004	0.026	0.230	0.967	0.327	0.797	0.968	0.156
Arsenic [mg/L]	29-Dec-15	13:56	0.0562	0.0191	7.55	0.177	0.883	0.0530	0.222	0.217	0.175	0.0198	0.0214	0.903

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SFE -24hr 4:1 L/S ratio

LR Report : **CA15279-DEC15**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ15-433-01	6: AMQ15-433-02	7: AMQ15-433-03	8: AMQ15-438-01	9: AMQ15-438-02	10: AMQ15-438-03	11: AMQ15-438-04	12: AMQ15-481-01	13: AMQ15-481-02	14: AMQ15-481-03	15: AMQ15-481-04	16: AMQ15-481-05
Barium [mg/L]	29-Dec-15	13:56	0.0208	0.0130	0.00914	0.0127	0.0391	0.0104	0.00645	0.00737	0.00240	0.00273	0.00352	0.00856
Boron [mg/L]	29-Dec-15	13:56	0.944	0.390	0.244	0.202	0.203	0.128	0.123	0.119	0.117	0.0718	0.0805	0.111
Beryllium [mg/L]	29-Dec-15	13:56	0.000714	0.000189	0.000106	0.000096	0.000111	0.000140	0.000114	0.000102	0.000040	0.000031	0.000029	0.000024
Bismuth [mg/L]	29-Dec-15	13:56	0.0913	0.0226	0.00663	0.00245	0.00416	0.00381	0.00266	0.00155	0.000437	0.000372	0.000297	0.000295
Calcium [mg/L]	29-Dec-15	13:56	17.0	10.9	4.73	2.68	7.78	18.9	4.17	2.16	1.75	3.77	2.75	8.06
Cadmium [mg/L]	29-Dec-15	13:56	0.00323	0.00117	0.000992	0.000812	0.000738	0.00127	0.00100	0.000867	0.000286	0.000248	0.000193	0.000158
Cobalt [mg/L]	29-Dec-15	13:56	0.00325	0.00121	0.00136	0.00108	0.000741	0.00121	0.00103	0.000944	0.000278	0.000227	0.000199	0.000203
Chromium [mg/L]	29-Dec-15	13:56	0.00390	0.00172	0.00870	0.00342	0.00152	0.00148	0.00141	0.00179	0.00070	0.00058	0.00067	0.00081
Copper [mg/L]	29-Dec-15	13:56	0.00490	0.00214	0.00193	0.00251	0.00144	0.00144	0.00122	0.00157	0.00052	0.00059	0.00063	0.00028
Iron [mg/L]	29-Dec-15	13:56	0.064	0.153	0.174	0.116	0.014	0.028	0.283	0.140	0.307	0.010	0.057	0.040
Potassium [mg/L]	29-Dec-15	13:56	28.3	43.6	31.5	29.3	22.9	14.3	20.6	14.6	4.80	9.62	10.4	25.1
Lithium [mg/L]	29-Dec-15	13:56	0.0141	0.00673	0.00281	0.00507	0.00405	0.00329	0.00253	0.00356	0.00123	0.00172	0.00135	0.00269
Magnesium [mg/L]	29-Dec-15	13:56	5.01	2.37	1.24	0.610	2.34	2.14	0.647	0.230	0.188	0.288	0.169	0.896
Manganese [mg/L]	29-Dec-15	13:56	0.0105	0.00604	0.00532	0.00196	0.00089	0.00277	0.00521	0.00299	0.00530	0.00051	0.00100	0.00125
Molybdenum [mg/L]	29-Dec-15	13:56	0.0812	0.0310	0.00649	0.00394	0.00312	0.00939	0.00453	0.00203	0.00203	0.00071	0.00103	0.00387
Sodium [mg/L]	29-Dec-15	13:56	13.6	14.7	12.9	13.2	12.9	12.0	19.5	15.5	31.2	14.3	18.0	22.5
Nickel [mg/L]	29-Dec-15	13:56	0.0056	0.0019	0.0060	0.0024	0.0019	0.0014	0.0012	0.0010	0.0004	0.0003	0.0004	0.0033
Phosphorus [mg/L]	29-Dec-15	13:56	0.026	0.004	0.011	0.030	0.006	< 0.003	0.011	0.013	0.018	0.005	0.009	0.004
Lead [mg/L]	29-Dec-15	13:56	0.00806	0.00236	0.00126	0.00106	0.00118	0.00138	0.00119	0.00113	0.00035	0.00029	0.00032	0.00023
Antimony [mg/L]	29-Dec-15	13:56	0.0042	0.0049	0.0349	0.0048	0.0084	0.0049	0.0047	0.0048	0.0168	0.0042	0.0074	0.0232
Selenium [mg/L]	29-Dec-15	13:56	0.151	0.0158	0.00673	0.00474	0.00416	0.00435	0.00264	0.00217	0.00087	0.00066	0.00062	0.00065
Silicon [mg/L]	29-Dec-15	13:56	4.01	3.62	15.3	10.9	6.03	3.12	3.24	6.00	6.22	4.84	5.43	2.82
Tin [mg/L]	29-Dec-15	13:56	0.00005	0.00004	0.00006	0.00004	0.00004	0.00004	0.00004	0.00005	0.00006	0.00003	0.00009	0.00005
Strontium [mg/L]	29-Dec-15	13:56	0.0299	0.0173	0.0194	0.0125	0.0457	0.0357	0.00941	0.00491	0.00291	0.0158	0.00803	0.0403
Titanium [mg/L]	29-Dec-15	13:56	< 0.00005	0.00070	0.00297	0.00715	0.00037	< 0.00005	0.00188	0.00645	0.00101	0.00039	0.00209	0.00043
Thallium [mg/L]	29-Dec-15	13:56	0.0111	0.00327	0.00230	0.00163	0.00132	0.00141	0.00118	0.00101	0.000353	0.000287	0.000240	0.000195
Uranium [mg/L]	29-Dec-15	13:56	0.0204	0.00396	0.00148	0.00129	0.00124	0.00145	0.00118	0.00155	0.000363	0.000769	0.000835	0.000262
Vanadium [mg/L]	29-Dec-15	13:56	0.0088	0.00214	0.0347	0.0319	0.01067	0.00151	0.00203	0.0160	0.00362	0.00701	0.0117	0.00177
Zinc [mg/L]	29-Dec-15	13:56	0.004	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.005	< 0.002

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SFE -24hr 4:1 L/S ratio

LR Report : **CA15279-DEC15**

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30-December-2015

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Date Rec. : 22 December 2015
LR Report: **CA15281-DEC15**
Reference: Project Number 1520817

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ15-433-01	6: AMQ15-433-02	7: AMQ15-433-03	8: AMQ15-438-01	9: AMQ15-438-02	10: AMQ15-438-03	11: AMQ15-438-04	12: AMQ15-481-01	13: AMQ15-481-02	14: AMQ15-481-03	15: AMQ15-481-04	16: AMQ15-481-05
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Fluoride [µg/g]	30-Dec-15	13:44	107	170	78	162	103	125	177	223	135	2630	201	106
Mercury [µg/g]	24-Dec-15	11:47	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aluminum [µg/g]	24-Dec-15	10:17	14000	12000	23000	30000	25000	9100	19000	20000	13000	15000	20000	15000
Silver [µg/g]	24-Dec-15	11:56	0.76	0.81	0.30	0.08	0.05	0.66	0.18	0.19	0.08	0.13	0.84	1.1
Arsenic [µg/g]	24-Dec-15	11:56	970	290	1000	17	340	830	450	76	100	11	16	1100
Boron [µg/g]	24-Dec-15	11:56	19	6	1	5	3	3	2	4	4	4	3	2
Barium [µg/g]	24-Dec-15	11:56	23	32	50	590	160	25	44	130	20	65	78	84
Beryllium [µg/g]	24-Dec-15	11:56	0.40	0.72	0.19	1.0	0.62	0.57	0.59	0.45	0.83	0.40	0.27	0.31
Bismuth [µg/g]	24-Dec-15	11:56	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	0.15	< 0.09	< 0.09	< 0.09	< 0.09	1.6	0.43
Calcium [µg/g]	24-Dec-15	10:17	5000	4300	8300	9900	30000	9400	9200	13000	13000	16000	12000	18000
Cadmium [µg/g]	24-Dec-15	11:56	0.10	1.1	0.05	0.11	0.09	0.21	0.02	0.21	0.05	0.22	0.07	4.1
Cobalt [µg/g]	24-Dec-15	11:56	4.7	4.3	64	25	45	4.7	5.6	13	3.3	8.8	12	50
Chromium [µg/g]	24-Dec-15	11:56	100	94	1200	610	990	120	63	94	77	49	49	650
Copper [µg/g]	24-Dec-15	11:56	22	19	6.1	60	14	23	10	27	5.8	20	22	50
Iron [µg/g]	24-Dec-15	10:19	98000	100000	30000	47000	40000	83000	90000	32000	62000	34000	40000	77000
Potassium [µg/g]	24-Dec-15	10:19	3800	6300	9300	29000	9900	3600	11000	15000	5300	6600	8400	9000
Lithium [µg/g]	24-Dec-15	11:56	6	8	18	27	18	4	5	24	8	12	13	13
Magnesium [µg/g]	24-Dec-15	10:19	7800	6200	36000	45000	50000	5500	8800	15000	5100	8500	9700	9100
Manganese [µg/g]	24-Dec-15	11:56	1900	1600	540	440	840	1000	1100	520	920	630	460	1700
Molybdenum [µg/g]	24-Dec-15	11:56	4.7	2.8	0.4	1.7	0.7	3.0	1.6	1.6	1.8	1.3	2.0	1.4

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc.
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LR Report : **CA15281-DEC15**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ15-433-01	6: AMQ15-433-02	7: AMQ15-433-03	8: AMQ15-438-01	9: AMQ15-438-02	10: AMQ15-438-03	11: AMQ15-438-04	12: AMQ15-481-01	13: AMQ15-481-02	14: AMQ15-481-03	15: AMQ15-481-04	16: AMQ15-481-05
Sodium [µg/g]	24-Dec-15	10:19	85	65	50	190	56	84	210	420	470	400	610	200
Nickel [µg/g]	24-Dec-15	11:56	25	37	730	220	380	20	24	37	11	19	26	580
Phosphorus [µg/g]	24-Dec-15	10:19	610	940	94	1300	700	420	810	740	570	970	840	260
Lead [µg/g]	24-Dec-15	11:56	9.3	19	0.97	1.4	1.8	4.0	1.4	20	3.4	15	110	45
Antimony [µg/g]	24-Dec-15	11:56	1.5	2.0	1.9	< 0.8	< 0.8	1.7	1.5	< 0.8	1.1	< 0.8	0.8	4.1
Selenium [µg/g]	24-Dec-15	11:56	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	1.0	< 0.7	< 0.7	< 0.7	< 0.7	0.8	1.0
Silicon [µg/g]	24-Dec-15	10:19	4400	4500	4400	5100	3100	2900	4300	2800	4600	3600	4900	3200
Tin [µg/g]	24-Dec-15	11:56	1.6	0.8	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Strontium [µg/g]	24-Dec-15	11:56	8.3	9.8	38	28	100	16	9.7	26	14	43	29	38
Titanium [µg/g]	24-Dec-15	11:56	310	360	630	2400	910	250	510	1200	370	570	670	860
Thallium [µg/g]	24-Dec-15	11:56	0.07	0.11	0.19	1.2	0.38	0.16	0.26	0.47	0.16	0.44	0.48	0.33
Uranium [µg/g]	24-Dec-15	11:56	0.65	1.0	0.004	1.2	0.55	0.39	0.53	3.4	1.3	4.0	3.1	1.1
Vanadium [µg/g]	24-Dec-15	11:56	21	11	53	87	45	10	15	36	9	19	24	26
Zinc [µg/g]	24-Dec-15	11:56	31	110	32	45	39	36	18	63	19	51	50	150

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

OnLine LIMS

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Quantitative X-Ray Diffraction by Rietveld Refinement

Report Prepared for:	*Environmental -Analytical*
Project Number/ LIMS No.	*Custom XRD/MI4503-DEC15*
Sample Receipt:	*December 3, 2015*
Sample Analysis:	*December 9, 2015*
Reporting Date:	*December 18, 2015*

Instrument:	BRUKER AXS D8 Advance Diffractometer
Test Conditions:	Co radiation, 40 kV, 35 mA Regular Scanning: Step: 0.02°, Step time: 1s, 2θ range: 3-80°
Interpretations:	PDF2/PDF4 powder diffraction databases issued by the International Center for Diffraction Data (ICDD). DiffracPlus Eva and Topas software.
Detection Limit:	0.5-2%. Strongly dependent on crystallinity.

Contents:

1) Method Summary
2) Summary of Mineral Assemblages
3) Quantitative XRD Results
4) XRD Pattern(s)

Kim Gibbs, H.B.Sc., P.Geo.
Senior Mineralogist

Huyun Zhou, Ph.D., P.Geo.
Senior Mineralogist

ACCREDITATION: SGS Minerals Services Lakefield is accredited to the requirements of ISO/IEC 17025 for specific tests as listed on our scope of accreditation, including geochemical, mineralogical and trade mineral tests. To view a list of the accredited methods, please visit the following website and search SGS Canada - Minerals Services - Lakefield: http://palcan.scc.ca/SpecsSearch/GLSearchForm.do.

Method Summary

The Rietveld Method of Mineral Identification by XRD (ME-LR-MIN-MET-MN-D05) method used by SGS Minerals Services is accredited to the requirements of ISO/IEC 17025.

Mineral Identification and Interpretation:

Mineral identification and interpretation involves matching the diffraction pattern of an unknown material to patterns of single-phase reference materials. The reference patterns are compiled by the Joint Committee on Powder Diffraction Standards - International Center for Diffraction Data (JCPDS-ICDD) database and released on software as Powder Diffraction Files (PDF).

Interpretations do not reflect the presence of non-crystalline and/or amorphous compounds, except when internal standards have been added by request. Mineral proportions may be strongly influenced by crystallinity, crystal structure and preferred orientations. Mineral or compound identification and quantitative analysis results should be accompanied by supporting chemical assay data or other additional tests.

Quantitative Rietveld Analysis:

Quantitative Rietveld Analysis is performed by using Topas 4.2 (Bruker AXS), a graphics based profile analysis program built around a non-linear least squares fitting system, to determine the amount of different phases present in a multicomponent sample. Whole pattern analyses are predicated by the fact that the X-ray diffraction pattern is a total sum of both instrumental and specimen factors. Unlike other peak intensity-based methods, the Rietveld method uses a least squares approach to refine a theoretical line profile until it matches the obtained experimental patterns.

Rietveld refinement is completed with a set of minerals specifically identified for the sample. Zero values indicate that the mineral was included in the refinement calculations, but the calculated concentration was less than 0.05wt%. Minerals not identified by the analyst are not included in refinement calculations for specific samples and are indicated with a dash.

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Summary of Rietveld Quantitative Analysis X-ray Diffraction Results

Quantitative X-ray Diffraction Results

Mineral/Compound	AMQ-ENV15-007 DEC4503-01 (wt %)	AMQ-ENV15-008 DEC4503-02 (wt %)	AMQ-ENV15-008 Dup DEC4503-03 (wt %)	AMQ-ENV15-025 DEC4503-04 (wt %)	AMQ-ENV15-025 Dup DEC4503-05 (wt %)	AMQ-ENV15-107 DEC4503-06 (wt %)	AMQ-ENV15-107 Dup DEC4503-07 (wt %)	AMQ-ENV-50 DEC4503-08 (wt %)	AMQ-ENV-63 DEC4503-09 (wt %)	AMQ-ENV15-096 DEC4503-10 (wt %)
Quartz	25.0	73.4	73.0	52.9	51.1	31.5	32.6	18.0	21.3	46.6
Chlorite	14.8	6.1	6.2	1.7	2.7	10.0	9.8	26.2	20.4	11.3
Stilpnomelane	3.5	0.7	0.9	6.4	6.3	-	-	-	-	2.0
Magnesiohornblende	4.1	-	-	2.4	2.5	-	-	-	-	-
Talc	5.2	-	-	0.8	1.0	-	-	3.0	0.4	-
Pyrite	2.4	-	-	-	-	-	-	-	-	-
Phlogopite	18.1	-	-	2.7	1.8	-	-	-	-	4.4
Siderite	3.1	-	-	-	-	-	-	-	-	0.3
Calcite	5.5	1.0	0.8	6.5	6.5	1.2	1.0	6.1	7.2	2.7
Albite	13.0	1.5	1.2	-	-	28.2	26.8	22.3	24.0	3.3
Orthoclase	2.7	-	-	-	-	1.5	1.8	1.1	1.0	0.7
Biotite	2.7	-	-	2.7	3.5	6.0	5.9	16.4	17.3	13.3
Muscovite	-	2.9	3.1	-	-	21.5	22.1	-	-	7.5
Almandine	-	3.9	3.9	2.0	2.5	-	-	-	-	-
Cummingtonite	-	3.2	3.5	14.7	14.9	-	-	-	-	2.4
Actinolite	-	1.8	1.9	-	-	-	-	-	5.2	-
Pyrrhotite	-	5.6	5.6	3.7	3.7	-	-	-	-	2.1
Diopside	-	-	-	3.5	3.5	-	-	-	-	-
Sphalerite	-	-	-	-	-	-	-	0.2	-	-
Anorthite	-	-	-	-	-	-	-	5.5	3.1	2.2
Ankerite	-	-	-	-	-	-	-	1.2	-	-
Richterite	-	-	-	-	-	-	-	-	-	1.4
TOTAL	100	100	100	100	100	100	100	100	100	100

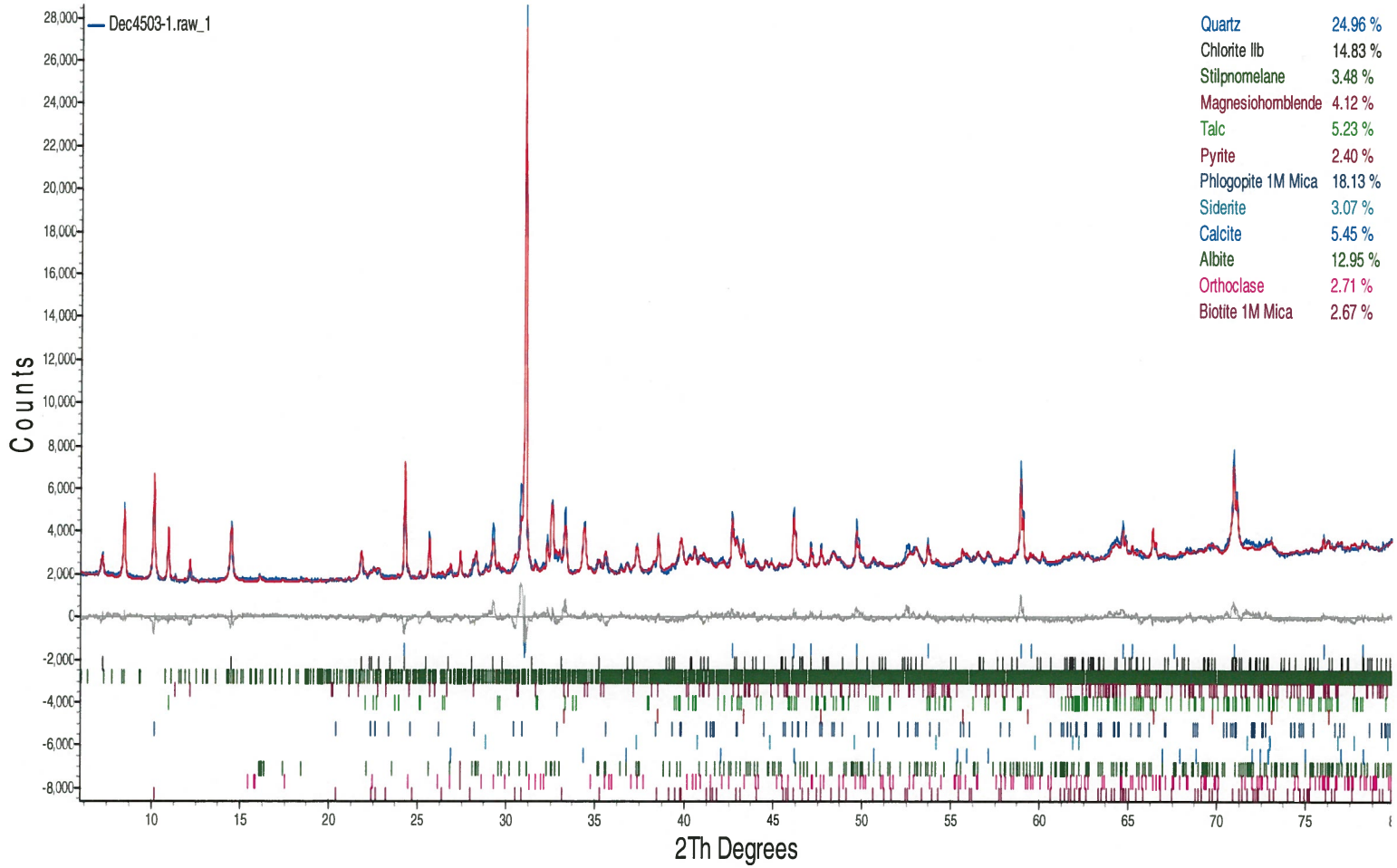
Zero values indicate that the mineral was included in the refinement, but the calculated concentration is below a measurable value.

Dashes indicate that the mineral was not identifed by the analyst and not included in the refinement calculation for the sample.

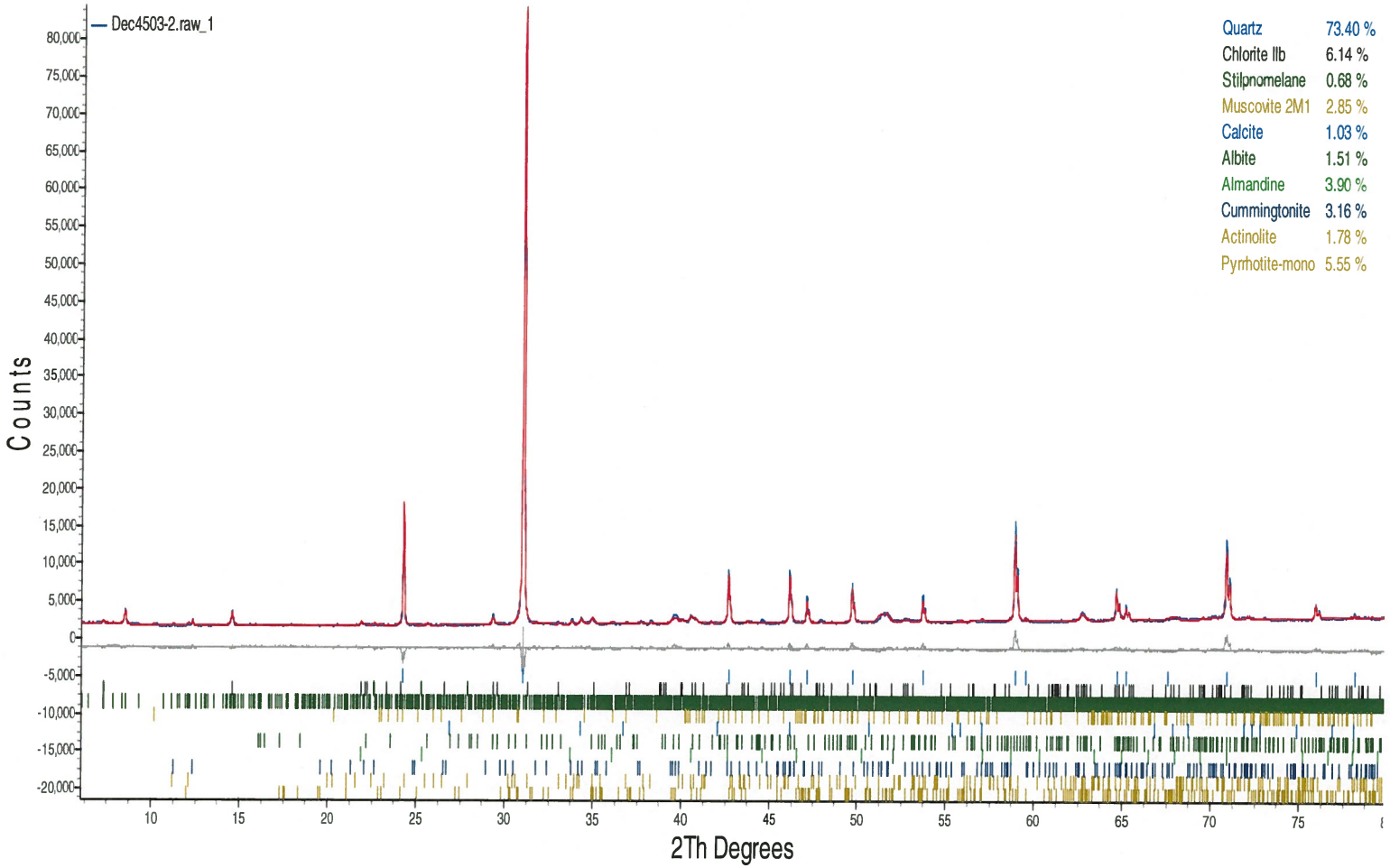
Mineral List

Mineral/Compound	Formula
Quartz	SiO_2
Chlorite	$(Fe,(Mg,Mn)_5,Al)(Si_3Al)O_{10}(OH)_8$
Stilpnomelane	$K(Fe^{2+},Mg,Fe^{3+})_8(Si,Al)_{12}(O,OH)_{27}\bullet n(H_2O)$
Magnesiohornblende	$Ca_2[Mg_4(Al,Fe^{3+})]Si_7AlO_{22}(OH)_2$
Talc	$Mg_3Si_4O_{10}(OH)_2$
Pyrite	FeS_2
Phlogopite	$KMg_3(AlSi_3O_{10})(OH)$
Siderite	$FeCO_3$
Calcite	$CaCO_3$
Albite	$NaAlSi_3O_8$
Orthoclase	$KAlSi_3O_8$
Biotite	$K(Mg,Fe)_3(AlSi_3O_{10})(OH)_2$
Muscovite	$KAl_2(AlSi_3O_{10})(OH)_2$
Almandine	$Fe_3Al_2Si_3O_{12}$
Cummingtonite	$(Mg,Fe)_7Si_8O_{22}(OH)_2$
Actinolite	$Ca_2(Mg,Fe)_5Si_8O_{22}(OH)_2$
Pyrrhotite	$Fe_{(1-x)}S$
Diopside	$CaMgSi_2O_6$
Sphalerite	ZnS
Anorthite	$CaAl_2Si_2O_8$
Ankerite	$CaFe(CO_3)_2$
Richterite	$Na(CaNa)(Mg,Fe^{2+})_5[Si_8O_{22}](OH)_2$

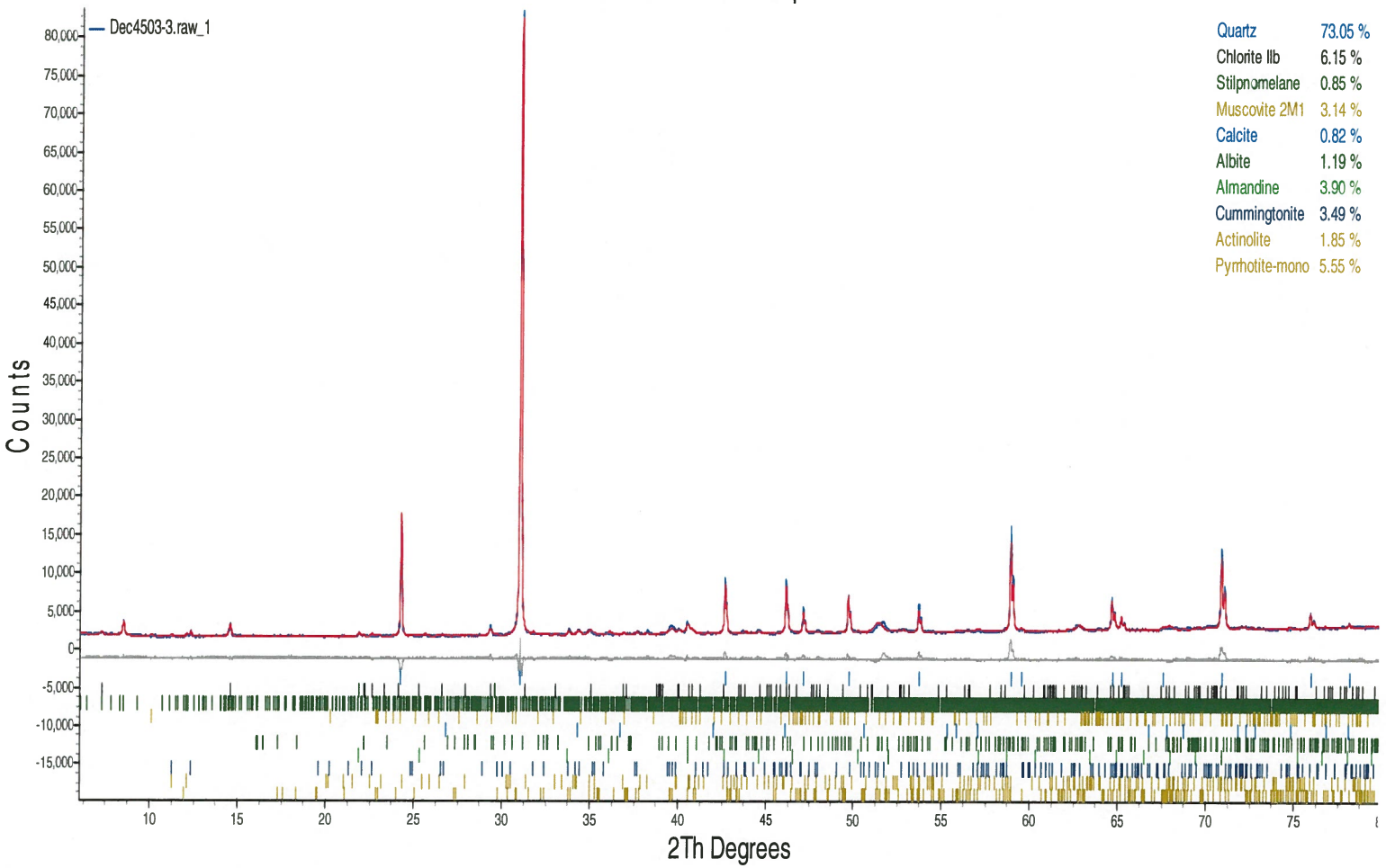
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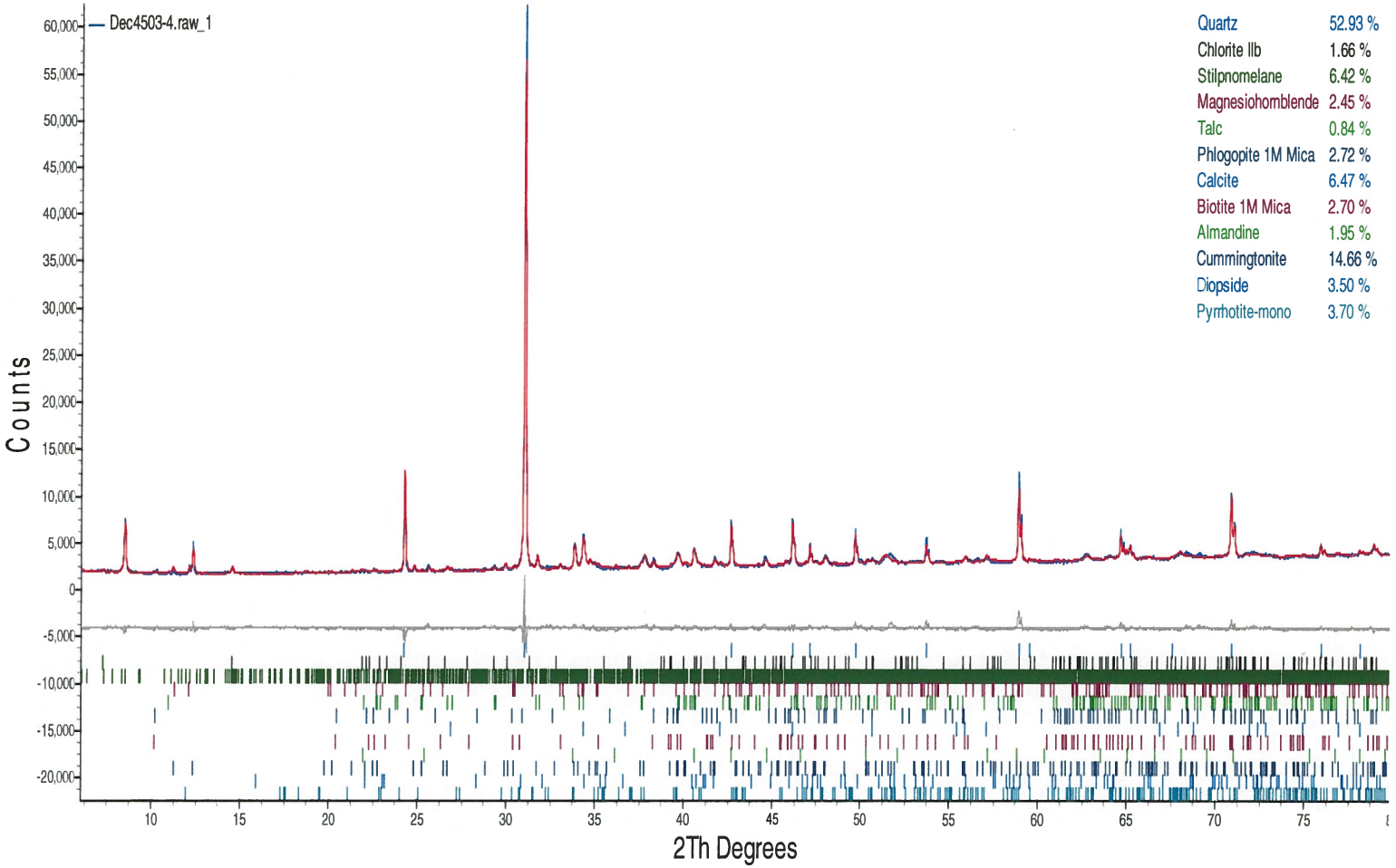
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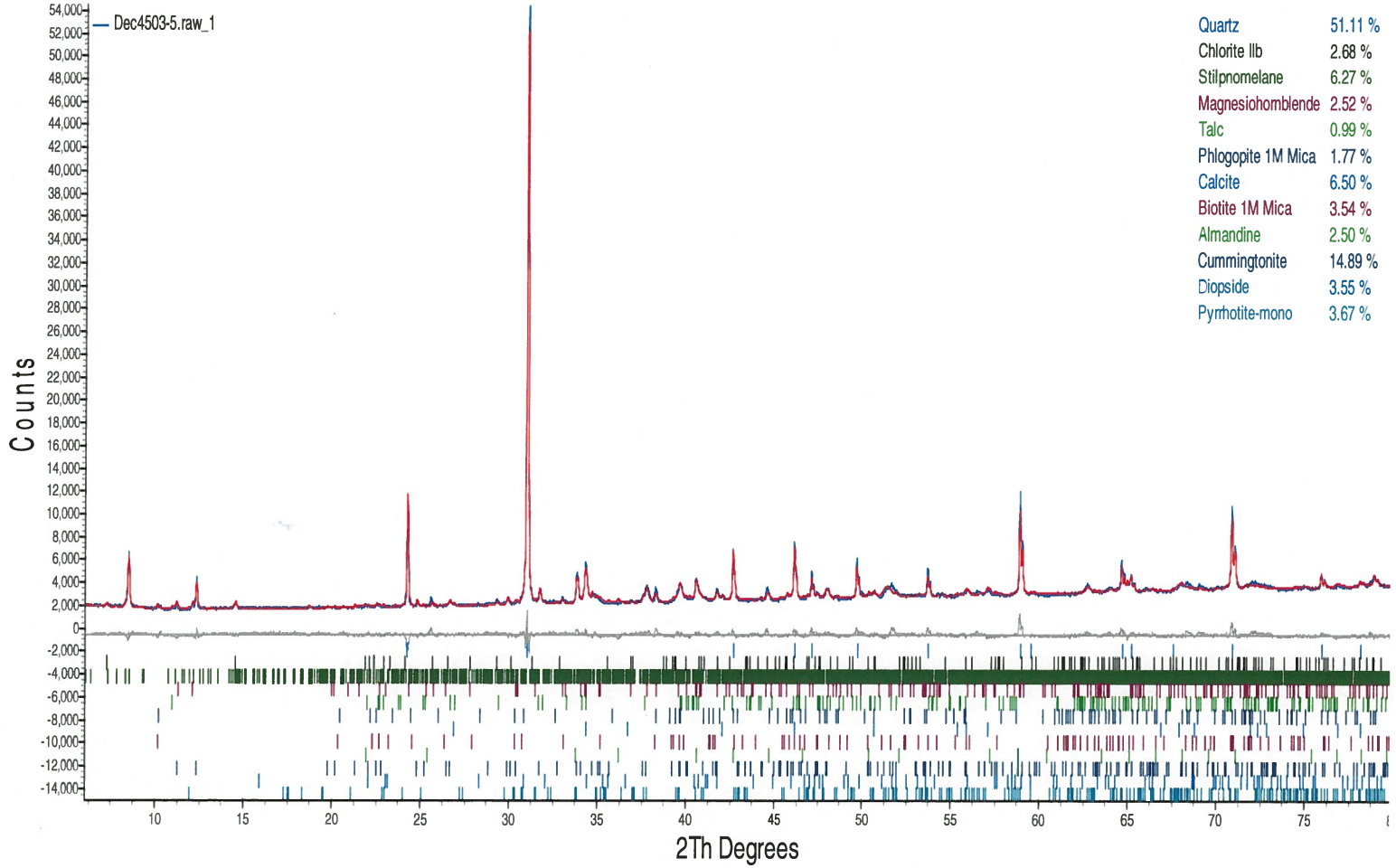
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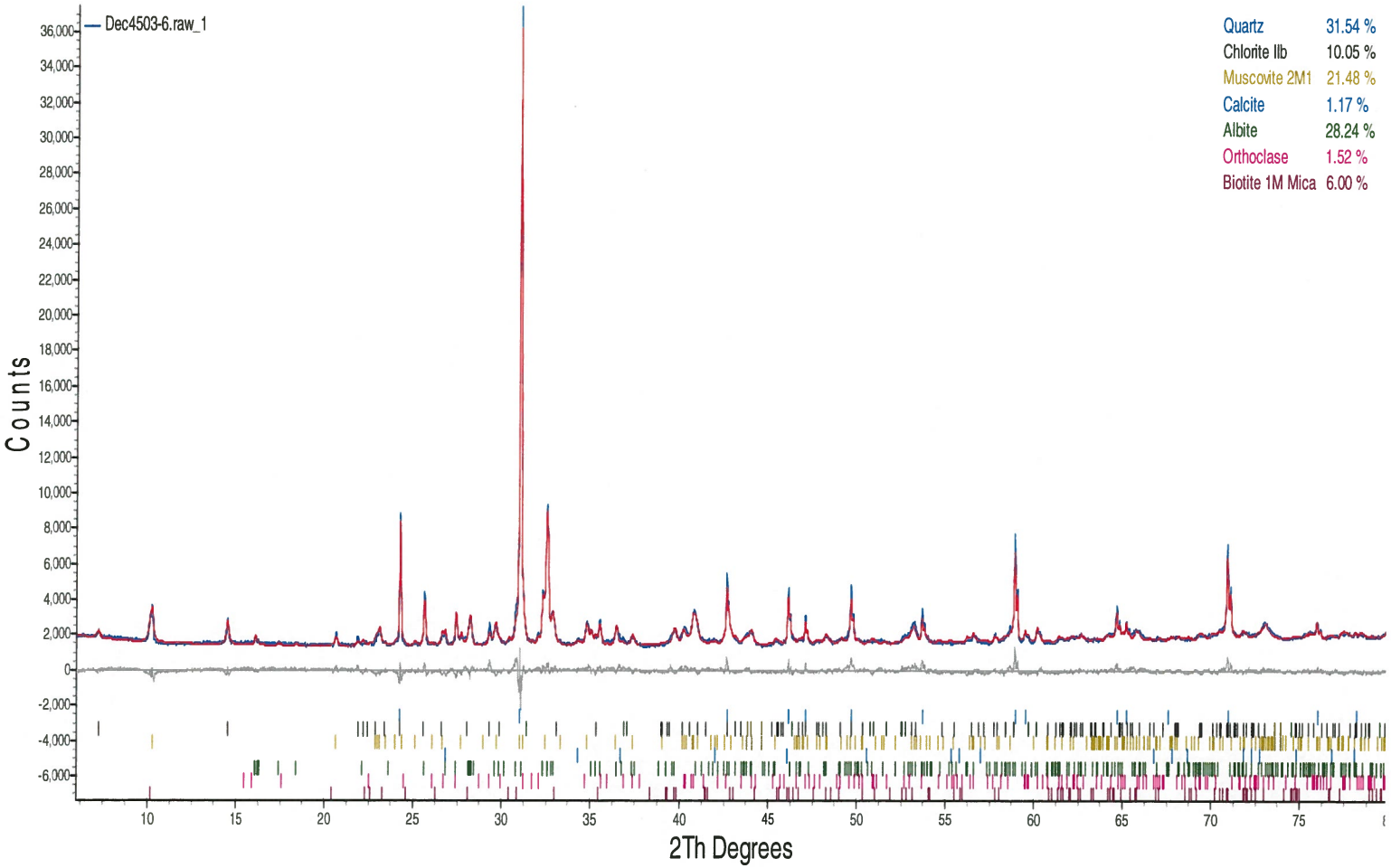
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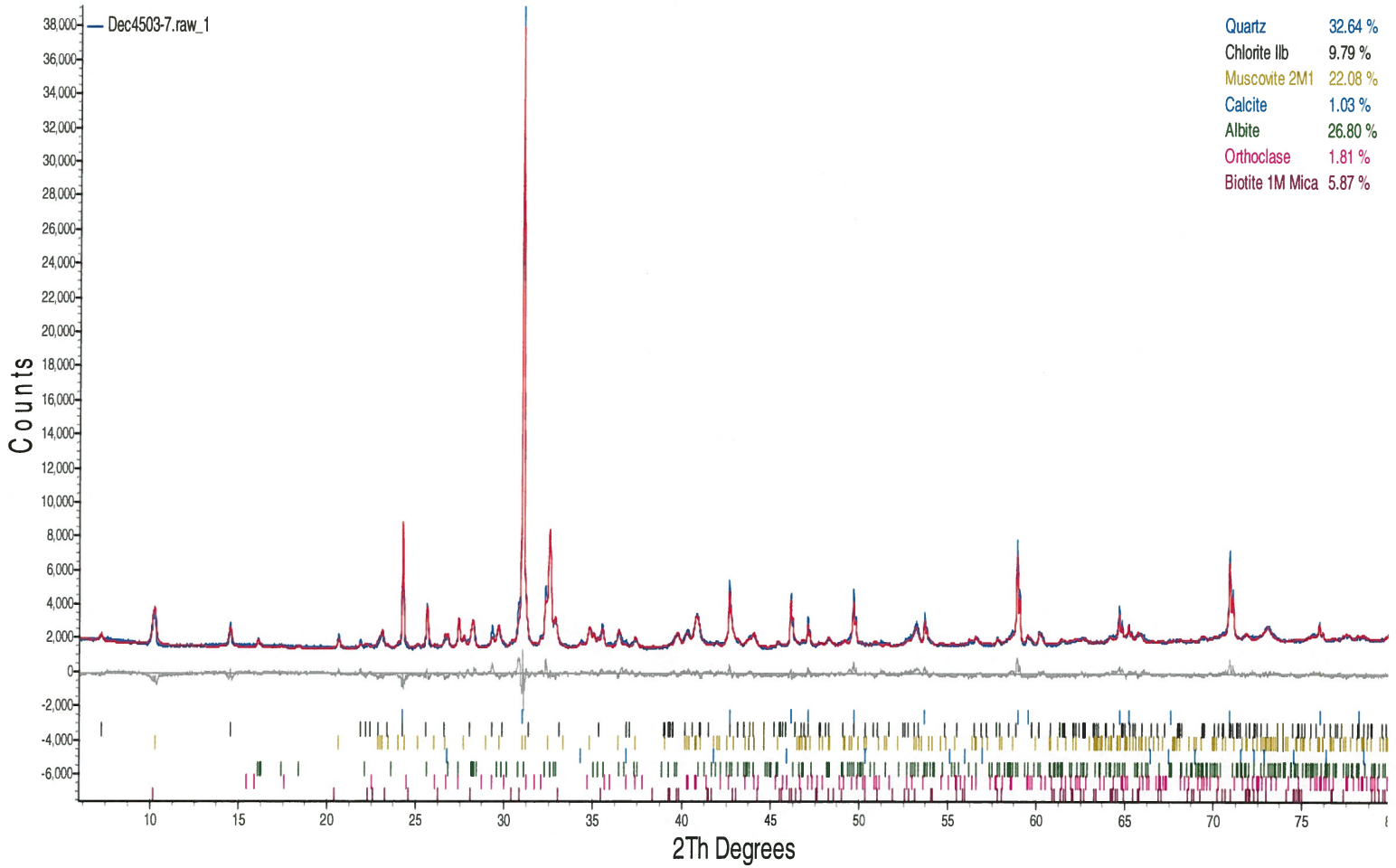
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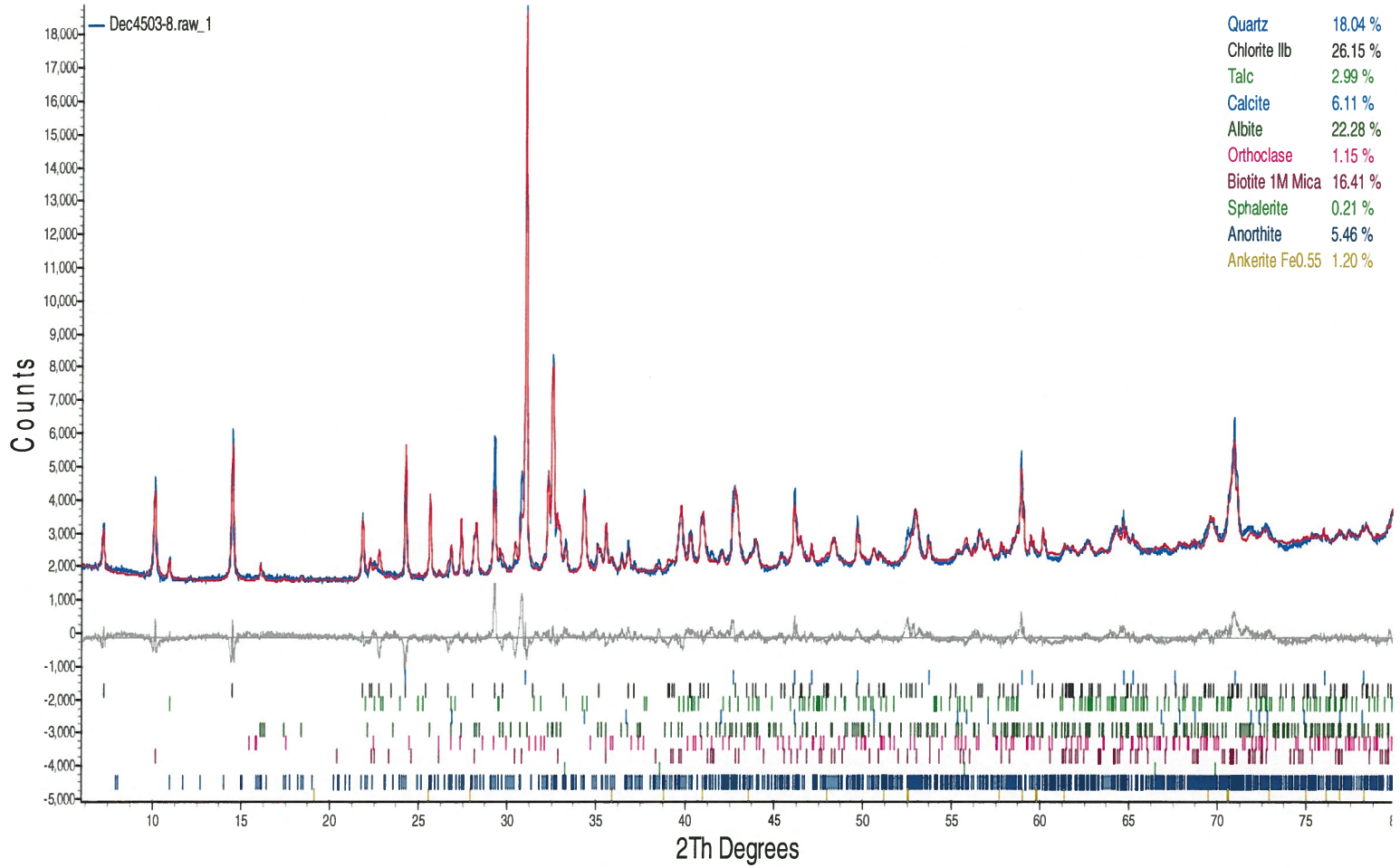
AMQ-ENV15-107



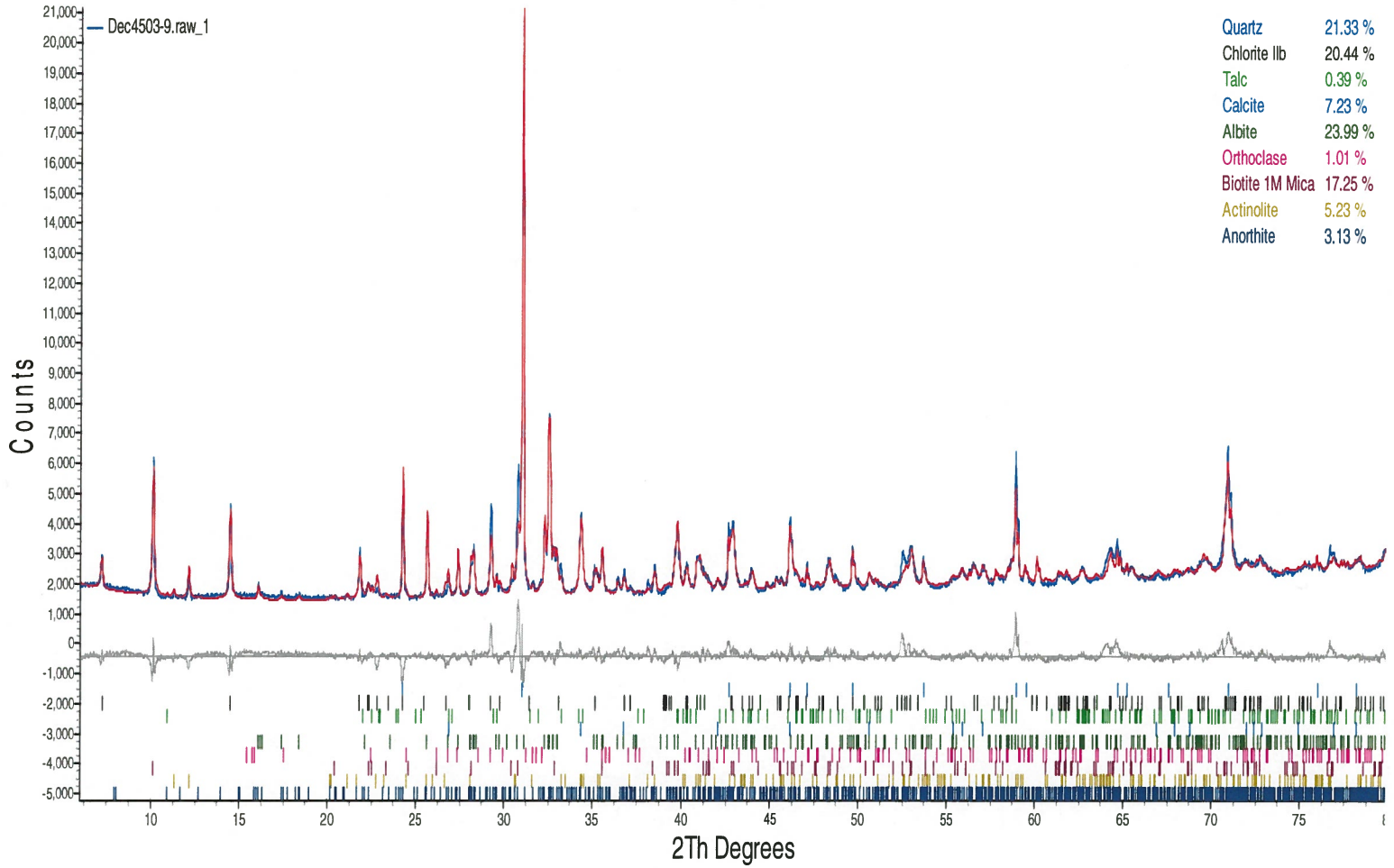
AMQ-ENV15-107 Dup



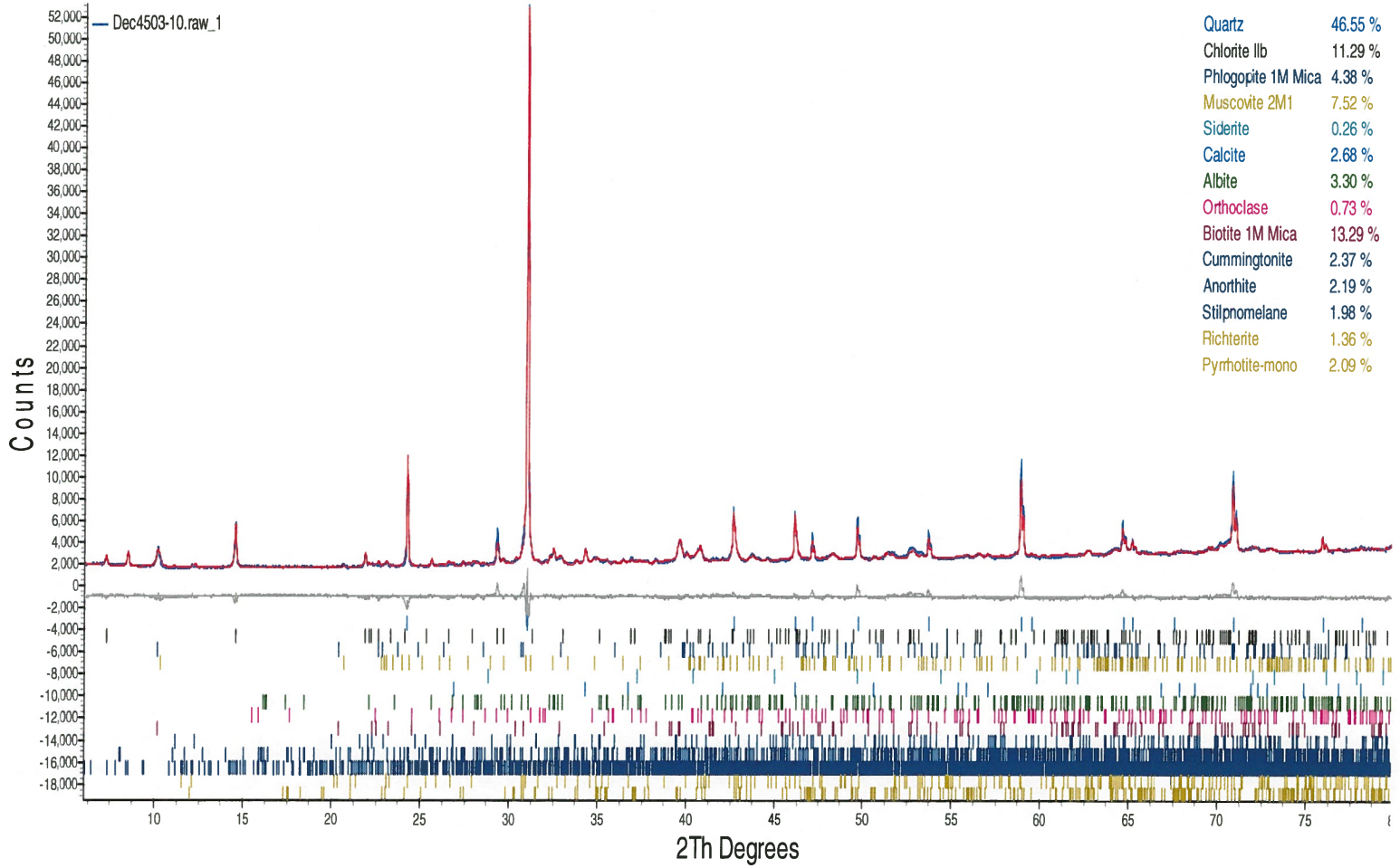
AMQ-ENV-50


Dec4503-8.raw_1
Quartz 18.04 %
Chlorite IIb 26.15 %
Talc 2.99 %
Calcite 6.11 %
Albite 22.28 %
Orthoclase 1.15 %
Biotite 1M Mica 16.41 %
Sphalerite 0.21 %
Anorthite 5.46 %
Ankerite Fe0.55 1.20 %
Counts
2Th Degrees

AMQ-ENV-63


Dec4503-9.raw_1
Counts
2Th Degrees
Quartz 21.33 %
Chlorite IIb 20.44 %
Talc 0.39 %
Calcite 7.23 %
Albite 23.99 %
Orthoclase 1.01 %
Biotite 1M Mica 17.25 %
Actinolite 5.23 %
Anorthite 3.13 %

AMQ-ENV15-096



APPENDIX H

Laboratory Certificates of Analysis – Kinetic

Humiditv Cell Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Blandine Arseneault, Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: RE-13872/RE-13874
Weight: 1 kg
Cell Type Tailings

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	Sulphate	Chloride	Fluoride	Bromide	Nitrite (as N)	Nitrate (as N)	NH3+NH4	Cyanide (total)	Cyanide (WAD)	Cyanate	Thiocyanate	Chromium VI	Mercury	Silver	Aluminum	Arsenic	Barium	Beryllium	Boron	Bismuth	Calcium	Cadmium	Cobalt	Chromium	Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Silicon	Tin	Titanium	Thallium	Uranium	Vanadium	Zinc
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10085-APR15	8-Apr-15	1000	830	8.08	< 2	40	1410	620	29	< 0.06	< 0.3	< 0.03	0.42	4.1	0.62	< 0.01	10	27	< 0.2	< 0.00001	0.000004	0.0243	0.0427	0.0068	< 0.000007	0.0088	0.000008	64.1	0.000014	0.014	0.00004	0.00512	0.205	15.4	0.00129	1.86	0.0126	0.0319	233	0.0062	< 0.003	0.00004	0.0016	< 0.001	0.41	0.00791	< 0.00005	< 0.000005	0.000075	0.00009	< 0.001
1	CA10113-APR15	15-Apr-15	1000	1015	7.92	44	25	1250	570	86	< 0.06	< 0.3	< 0.03	0.24	2.4	0.12	< 0.01	5.9	17	< 0.2	< 0.00001	0.000229	0.0144	0.0367	0.00731	< 0.000007	0.0082	0.000016	82.0	0.000003	0.00973	< 0.00003	0.0175	0.052	13.9	0.00182	2.71	0.0252	0.0167	182	0.0064	< 0.003	< 0.00001	0.0010	< 0.001	0.31	0.00238	0.00008	< 0.000005	0.000117	0.00007	< 0.001
2	CA10134-APR15	22-Apr-15	1000	1003	7.76	112	22	1350	550	120	< 0.06	< 0.3	< 0.03	0.20	1.8	0.10	< 0.01	4.4	16	< 0.2	< 0.00001	0.00151	0.0145	0.0374	0.00884	< 0.000007	0.0130	0.000806	100	0.000017	0.0105	< 0.00003	0.0053	0.017	14.1	0.00229	3.30	0.0298	0.0137	174	0.0101	< 0.003	< 0.00001	0.0011	< 0.001	0.35	0.00137	< 0.00005	0.000012	0.000233	0.00004	< 0.001
3	CA10163-APR15	29-Apr-15	1000	1006	6.98	232	11	1030	370	210	< 0.06	< 0.3	< 0.03	0.10	0.7	0.06	< 0.01	1.4	8.6	< 0.2	< 0.00001	0.00156	0.0077	0.0278	0.00947	< 0.000007	0.0043	< 0.000007	94.8	0.000003	0.00436	< 0.00003	0.262	< 0.007	11.3	0.00191	3.02	0.0322	0.00388	115	0.0133	< 0.003	0.00002	0.0009	< 0.001	0.23	0.00146	< 0.00005	< 0.000006	0.000118	0.00005	< 0.001
4	CA10038-MAY15	6-May-15	1000	998	6.98	201	10	663	190	160	< 0.06	< 0.3	< 0.03	< 0.06	0.3	0.03	< 0.01	< 1	3.5	< 0.2	< 0.00001	0.000721	0.0067	0.0202	0.00824	< 0.000007	0.0040	< 0.000007	73.9	< 0.000003	0.00255	< 0.00003	0.0945	0.013	8.39	0.00219	2.00	0.0334	0.00187	50.1	0.0129	< 0.003	0.00003	0.0010	< 0.001	0.29	0.00125	< 0.00005	0.000013	0.000071	0.00004	< 0.001
5	CA10074-MAY15	13-May-15	1000	1005	7.18	296	8	681	130	210	< 0.06	< 0.3	< 0.03	< 0.06	0.2	0.02	< 0.01	< 1	2.3	< 0.2	< 0.00001	0.000720	0.0060	0.0263	0.00871	< 0.000007	0.0049	0.000012	85.2	0.000011	0.00249	< 0.00003	0.135	0.009	8.45	0.00157	1.70	0.0298	0.00274	42.6	0.0186	< 0.003	< 0.00001	0.0009	< 0.001	0.21	0.00118	< 0.00005	< 0.000005	0.000039	0.00004	< 0.001
6	CA10111-MAY15	20-May-15	1000	1002	7.08	331	7	692	150	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10145-MAY15	27-May-15	1000	1004	7.18	301	7	631	150	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10018-JUN15	3-Jun-15	1000	969	7.17	256	7	629	170	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10096-JUN15	10-Jun-15	1000	950	7.21	186	7	456	140	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10100-JUN15	17-Jun-15	1000	971	7.32	121	11	466	140	< 0.2	< 0.06	< 0.3	< 0.03	< 0.06	0.2	---	---	---	---	< 0.2	< 0.00001	0.000186	0.005	0.0307	0.00707	< 0.000007	0.0073	0.000008	65.9	0.000005	0.00162	< 0.00003	0.0184	< 0.007	7.64	0.00191	2.18	0.102	0.00081	21.1	0.0286	< 0.003	< 0.00001	0.0007	< 0.001	0.28	0.00064	< 0.00005	< 0.000007	0.00054	0.00001	< 0.002
11	CA10133-JUN15	24-Jun-15	1000	882	7.32	25	9	298	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10004-JUL15	2-Jul-15	1000	996	7.56	10	16	427	170	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10039-JUL15	8-Jul-15	1000	1016	7.44	< 2	10	456	200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10070-JUL15	15-Jul-15	1000	1020	7.32	< 2	10	282	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10112-JUL15	22-Jul-15	1000	1018	7.32	< 2	9	320	130	< 1	< 0.06	< 0.3	< 0.03	< 0.06	0.2	---	---	---	---	< 0.2	< 0.00001	0.000018	0.006	0.0480	0.00664	< 0.000007	0.0031	< 0.000007	46.0	0.000011	0.00112	< 0.00003	0.00035	< 0.007	6.56	0.00227	2.00	0.0693	0.00070	8.37	0.0194	< 0.003	0.00008	0.0008	0.00028	0.29	0.00064	< 0.00005	0.000021	0.000019	0.00004	< 0.002
16	CA10144-JUL15	29-Jul-15	1000	1013	7.37	< 2	10	304	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	CA10022-AUG15	5-Aug-15	1000	1038	7.27	< 2	11	219	85	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	CA10054-AUG15	12-Aug-15	1000	950	7.50	< 2	10	240	96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	CA10085-AUG15	19-Aug-15	1000	1000	7.58	< 2	13	321	130	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	CA10144-AUG15	26-Aug-15	1000	992	7.41	< 2	8	232	80	< 1	< 0.06	< 0.3	< 0.03	< 0.06	< 0.1	---	---	---	---	< 0.2	< 0.00001	< 0.0000002	0.006	0.0444	0.00424	< 0.000007	0.0021	< 0.000007	29.4	0.000013	0.000665	< 0.00003	0.00046	0.070	4.65	0.00154	1.59	0.0516	0.00069	3.72	0.0099	< 0.003	0.00002	0.0006	0.00037	0.21	0.00052	< 0.00005	< 0.000005	0.000017	0.00007	< 0.002
21	CA10024-SEP15	2-Sep-15	1000	944	7.57	< 2	12	184	68	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	CA10069-SEP15	9-Sep-15	1000	996	7.11	< 2	8	204	78	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	CA10099-SEP15	16-Sep-15	1000	999	7.27	< 2	9	172	68	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	CA10134-SEP15	23-Sep-15	1000	930	8.18	< 2	14	216	88	< 1	< 0.06	< 0.3	< 0.03	< 0.06	< 0.1	---	---	---	---	< 0.2	< 0.00001	< 0.0000002	0.011	0.0872	0.00281	< 0.000007	0.0026	< 0.000007	34.1	< 0.000003	0.000401	< 0.00003	0.00062	0.007	3.68	0.00141	0.928	0.0260	0.00082	1.68	0.0044	< 0.003	< 0.00001	0.0008	0.00025	0.23	0.00095	< 0.00005	< 0.000005	0.000029	0.00006	< 0.002
25	CA10165-SEP15	30-Sep-15	1000	951	7.55	< 2	9	207	81	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26	CA10022-OCT15	7-Oct-15	1000	930	7.7	< 2	9	218	85	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	CA10060-OCT15	14-Oct-15	1000	983	7.56	< 2	8	227	88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28	CA10101-OCT15	21-Oct-15	1000	853	7.15	< 2	9	222	85	< 1	< 0.06	< 0.3	0.03	0.06	< 0.1	---	---	---	---	< 0.2	< 0.00001	0.000005	0.008	0.0358	0.00286	< 0.000007	0.0017	0.000015	36.2	< 0.000003	0.000388	< 0.00003	0.00059	0.008	3.20	0.00122	0.892	0.0387	0.00123	1.08	0.0044	0.053	0.00002	0.0004	0.00013	0.16	0.00043	< 0.00005	0.000034	0.000027	0.00004	< 0.002
29	CA10140-OCT15	28-Oct-15	1000	1006	7.26	< 2	10	335	130	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30	CA10020-NOV15	4-Nov-15	1000	993	7.68	< 2	9	209	80	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31	CA10050-NOV15	11-Nov-15	1000	985	7.69	< 2	9	179	76	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
32	CA10081-NOV15	18-Nov-15	1000	879	7.86	< 2	11	200	75	< 1	< 0.06	< 0.3	< 0.03	< 0.06	< 0.1	---	---	---	---	< 0.2	< 0.00001	0.000012	0.014	0.0636	0.00342	0.000111	0.0017	0.000016	31.2	0.000011	0.000389	0.00005	0.00146	0.012	3.66	0.00143	0.895	0.0237	0.00107	0.79	0.0029	0.007	0.00012	0.0007	0.00026	0.23	0.00069	0.00008	0.000017	0.000025	0.00006	< 0.002
33	CA10112-NOV15	25-Nov-15	1000	882	7.54	< 2	13	201	78	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34	CA10020-DEC15	2-Dec-15	1000	843	7.16	< 2	11	192	78	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
35	CA10050-DEC15	9-Dec-15	1000	844	7.31	< 2	10	198	76	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
36	CA10092-DEC15	16-Dec-15	1000	893	7.27	< 2	10	230	72	< 1	< 0.06	< 0.3	< 0.03	< 0.06	< 0.1	---	---	---	---	< 0.2	< 0.00001	< 0.0000002	0.010	0.0499	0.00404	< 0.000007	0.0029	< 0.000007	33.6	< 0.000003	0.000462	0.00007	0.00057	< 0.007	4.29	0.00149	1.10	0.0354	0.00122	0.86	0.0033	< 0.003	< 0.00001	0.0005	0.00021	0.21	0.00039	0.00006	< 0.000005	0.000017	0.00004	< 0.002
37	CA10128-DEC15	23-Dec-15	1000	825	7.58	< 2	11	208	81	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
38	CA10161-DEC15	30-Dec-15	1000	898	7.22	< 2	9	240	96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39	CA10023-JAN16	6-Jan-16	1000	862	7.27	< 2	10	210	82	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
40	CA10060-JAN16	13-Jan-16	1000	881	7.17	< 2	10	274	97	< 1	< 0.06	< 0.3	< 0.03	< 0.06	< 0.1	---	---	---	---	< 0.2	< 0.00001	< 0.0000002	0.008	0.0754	0.00380	< 0.000007	0.0035	< 0.000007	39.1	< 0.000003	0.000397	< 0.00003	0.00028	< 0.007	4.94	0.00163	0.958	0.0287	0.00196	0.81	0.0030	< 0.003	< 0.00001	0.0005	0.00024	0.29	0.00040	< 0.00005	0.000010	0.000030	0.00002	< 0.002
41	CA10101-JAN16	20-Jan-16	1000	837	7.48	< 2	11	259	98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
42	CA10144-JAN16	27-Jan-16	1000	898	7.60	< 2	11	219	91	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
43	CA10026-FEB16	3-Feb-16	1000	908	7.55	< 2	10	211	83	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
44	CA10068-FEB16	10-Feb-16	1000	840	7.37	< 2	10	246	95	< 1	< 0.06	< 0.3	< 0.03	< 0.06	0.2	---	---	---	---	< 0.2	< 0.00001	< 0.0000002	0.009	0.0611	0.00359	< 0.000007	0.002	< 0.000007	37.8	< 0.000003	0.000501	< 0.00003	0.00065	< 0.007	3.88	0.00150	0.817	0.0300	0.00111	0.31	0.0025	< 0.003	0.00001	0.0005	0.00018	0.26	0.00040	< 0.00005	< 0.000005	0.000013	0.00003	< 0.002
Terminate																																																				

Humidity Cell Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: AMQ-ENV15-089/076 Composite
Weight: 1 kg
Cell Type Wasterock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	SO4	Ca	Cl	F	Hg	Ag	Al	As	Ba	Be	B	Bi	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Sn	Ti	Tl	U	V	Zn
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10180-SEP15	29-Sep-15	1000	902	7.21	11	12	187	57	16.4	11	< 0.06	< 0.00001	0.000097	0.031	0.0946	0.00925	< 0.000007	0.0071	0.000023	< 0.000003	0.000297	< 0.00003	0.00033	< 0.007	12.3	0.00238	4.77	0.096	0.00056	1.03	0.0141	< 0.003	< 0.00001	0.0028	0.00028	0.0729	0.00017	< 0.00005	0.00001	0.000034	0.00028	< 0.002
1	CA10010-OCT15	6-Oct-15	1000	940	7.43	9	10	147	42	16.0	9	< 0.06	< 0.00001	0.000029	0.028	0.151	0.00714	< 0.000007	0.0058	0.000032	< 0.000003	0.000261	0.00006	0.00033	< 0.007	7.93	0.00215	2.99	0.0729	0.00060	0.62	0.0070	< 0.003	0.00014	0.0029	0.00020	0.0598	0.00019	< 0.00005	0.000006	0.000044	0.00050	< 0.002
2	CA10050-OCT15	13-Oct-15	1000	963	7.29	14	9	93	21	8.85	8	< 0.06	< 0.00001	0.000017	0.022	0.0912	0.00470	< 0.000007	0.0861	< 0.000007	0.000023	0.000294	0.00018	0.00048	0.010	5.67	0.00149	2.10	0.0628	0.0263	0.39	0.0040	< 0.003	0.00058	0.0023	0.00018	0.0333	0.00012	0.00343	0.000857	0.000031	0.00077	< 0.002
3	CA10083-OCT15	20-Oct-15	1000	1008	7.48	8	11	94	18	8.73	8	< 0.06	< 0.00001	0.000031	0.025	0.109	0.00431	< 0.000007	0.0047	0.000037	< 0.000003	0.000176	0.00003	0.00037	< 0.007	6.08	0.00160	2.14	0.0687	0.00033	0.39	0.0047	< 0.003	< 0.00001	0.0025	0.00023	0.02980	0.00004	< 0.00005	0.000012	0.000053	0.00034	< 0.002
4	CA10130-OCT15	27-Oct-15	1000	1012	7.10	5	9	77	17	7.14	6	< 0.06	< 0.00001	0.000029	0.024	0.0775	0.00440	0.000009	0.0036	0.000020	0.000005	0.000205	< 0.00003	0.00039	0.024	4.71	0.00137	1.88	0.0702	0.00024	0.30	0.0043	< 0.003	0.00003	0.0015	< 0.001	0.02768	0.00005	0.00010	< 0.000005	0.000058	0.00028	< 0.002
5	CA10009-NOV15	3-Nov-15	1000	986	7.51	4	8	77	16	6.83	5	0.28	< 0.00001	0.000016	0.022	0.0754	0.00438	0.000008	0.0058	< 0.000007	< 0.000003	0.000189	< 0.00003	0.00040	0.025	4.56	0.00144	1.68	0.0665	0.00014	0.25	0.0042	< 0.003	< 0.00001	0.0018	< 0.001	0.0257	< 0.00001	< 0.00005	< 0.000005	0.000425	0.00028	< 0.002
6	CA10039-NOV15	10-Nov-15	1000	997	7.15	4	8	69	17	7.55	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10070-NOV15	17-Nov-15	1000	946	7.21	5	8	80	15	7.85	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10101-NOV15	24-Nov-15	1000	938	6.79	7	7	86	21	9.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10009-DEC15	1-Dec-15	1000	939	6.92	6	6	79	20	8.99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10044-DEC15	8-Dec-15	1000	961	6.66	14	6	88	24	10.5	8	< 0.06	< 0.00001	0.000038	0.013	0.0324	0.00853	0.000008	< 0.0002	0.000026	0.000010	0.000486	0.00004	0.00040	< 0.007	4.40	0.00175	1.64	0.106	0.00024	0.09	0.0112	< 0.003	< 0.00001	0.0011	0.00020	0.0278	0.00018	< 0.00005	< 0.000005	0.000029	0.00014	< 0.002
11	CA10078-DEC15	15-Dec-15	1000	936	6.89	10	7	89	22	9.48	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10114-DEC15	22-Dec-15	1000	957	7.05	18	5	103	29	12.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10149-DEC15	29-Dec-15	1000	963	6.48	15	6	97	26	9.23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10010-JAN15	5-Jan-16	1000	967	6.83	14	5	90	24	9.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10047-JAN16	12-Jan-16	1000	965	7.04	15	6	101	27	10.8	8	< 0.06	< 0.00001	0.000028	0.009	0.0233	0.00924	< 0.000007	0.0097	0.000013	< 0.000003	0.000711	< 0.00003	0.00007	0.061	4.45	0.00186	1.62	0.119	0.00062	0.09	0.0178	< 0.003	< 0.00001	0.0006	0.00015	0.0241	0.00004	< 0.00005	< 0.000005	0.000024	0.00005	< 0.002
16	CA10087-JAN16	19-Jan-16	1000	957	7.06	17	5	83	24	9.11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	CA10129-JAN16	26-Jan-16	1000	948	7.04	12	4	88	25	9.63	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	CA10012-FEB16	2-Feb-16	1000	962	6.90	15	5	94	23	9.92	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	CA10054-FEB16	9-Feb-16	1000	957	6.93	15	5	106	27	10.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	CA10095-FEB16	16-Feb-16	1000	1011	6.80	18	5	103	30	11.4	9	< 0.06	< 0.00001	0.000031	0.014	0.0164	0.00989	0.000013	< 0.002	0.000007	0.000003	0.00115	< 0.00003	0.00066	0.214	4.42	0.00166	1.80	0.159	0.00084	0.06	0.0284	< 0.003	0.00001	0.0006	0.00013	0.0248	0.00009	< 0.00005	0.000006	0.000033	0.00002	< 0.002
21	CA10139-FEB16	23-Feb-16	1000	998	6.79	18	4	80	25	10.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	CA10008-MAR16	1-Mar-16	1000	985	6.79	16	4	90	26	10.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	CA10045-MAR16	8-Mar-16	1000	992	6.87	17	4	93	27	10.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	CA10082-MAR16	15-Mar-16	1000	995	6.96	15	4	90	25	9.88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	CA10122-MAR16	22-Mar-16	1000	981	6.74	15	4	87	25	8.78	7	< 0.06	< 0.00001	0.000063	0.011	0.0221	0.00858	0.000013	< 0.002	< 0.000007	< 0.000003	0.00131	< 0.00003	0.00042	0.380	3.12	0.00165	1.52	0.140	0.00002	0.04	0.0507	< 0.003	0.00001	0.0006	0.00010	0.0198	0.00005	< 0.00005	0.000007	0.000016	0.00003	< 0.002
26	CA10162-MAR16	29-Mar-16	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30			1000																																						
31			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
32			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
33			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
35			1000																																						
36			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
37			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
38			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
40			1000																																						

Humidity Cell Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: AMQ-433-01
Weight: 1 kg
Cell Type Wasterock

Analyte			Leachate Volume	Leachate Volume	pH	Acidity	Alkalinity	Conductivity	SO4	Ca	Cl	F	Hg	Ag	Al	As	Ba	Be	B	Bi	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Sn	Ti	Tl	U	V	Zn
Week/Event	LIMS	Sample Date	Added (mL)	Recovered (mL)	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10115-JAN16	19-Jan-16	1000	902	7.46	2	12	256	81	13.6	13	< 0.06	< 0.00001	0.000011	0.01	0.0091	0.00766	< 0.000007	0.039	< 0.000007	0.000015	0.000409	< 0.00003	0.00027	0.018	37.1	0.00127	3.03	0.0568	0.0435	4.66	0.006	0.004	< 0.00001	0.0008	0.00043	0.0322	0.00015	0.0001	0.000011	0.000393	0.00834	< 0.002
1	CA10131-JAN16	26-Jan-16	1000	1000	7.43	< 2	10	192	57	6.85	7	< 0.06	< 0.00001	0.000003	0.008	0.0146	0.00325	< 0.000007	0.062	< 0.000007	0.000027	0.000376	< 0.00003	0.00040	0.008	29.9	0.000816	2.14	0.0208	0.0870	4.66	0.0057	0.010	0.00003	0.0012	0.00040	0.0141	0.00009	< 0.00005	0.000006	0.000681	0.0117	< 0.002
2	CA10014-FEB16	2-Feb-16	1000	1000	7.41	< 2	11	101	25	3.04	1	< 0.06	< 0.00001	< 0.000002	0.011	0.0211	0.00141	< 0.000007	0.055	< 0.000007	0.000021	0.000205	< 0.00003	0.00034	< 0.007	17.1	0.000503	0.786	0.00887	0.0782	2.42	0.0025	0.012	< 0.00001	0.0012	0.00020	0.00660	0.00012	< 0.00005	0.000009	0.000430	0.0159	< 0.002
3	CA10056-FEB16	9-Feb-16	1000	993	7.39	< 2	10	84	19	2.57	1	< 0.06	< 0.00001	< 0.000002	0.011	0.0221	0.00097	< 0.000007	0.046	< 0.000007	0.000018	0.000103	< 0.00003	0.00041	0.019	13.4	0.000424	0.594	0.00626	0.0509	1.60	0.0015	0.010	< 0.00001	0.0011	0.00018	0.00501	0.00250	0.00007	< 0.000005	0.000377	0.0150	< 0.002
4	CA10097-FEB16	16-Feb-16	1000	998	7.08	< 2	8	61	12	2.21	< 1	< 0.06	< 0.00001	< 0.000002	0.007	0.0150	0.00090	< 0.000007	0.021	< 0.000007	0.000004	0.000123	< 0.00003	0.00028	< 0.007	9.56	0.000252	0.482	0.00774	0.0314	1.02	0.0016	0.004	< 0.00001	0.0007	0.00008	0.00452	0.00012	< 0.00005	< 0.000005	0.000457	0.0101	< 0.002
5	CA10141-FEB16	23-Feb-16	1000	988	7.50	< 2	10	53	10	2.37	< 1	< 0.06	< 0.00001	< 0.000002	0.012	0.0171	0.00074	< 0.000007	0.030	< 0.000007	0.000004	0.000095	< 0.00003	0.00043	< 0.007	9.69	0.000350	0.494	0.00614	0.0260	1.00	0.0011	0.009	0.00001	0.0007	0.00012	0.00410	0.00020	< 0.00005	< 0.000005	0.000328	0.0114	< 0.002
6	CA10010-MAR16	1-Mar-16	1000	983	7.25	< 2	7	56	13	2.70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10047-MAR16	8-Mar-16	1000	998	7.30	< 2	7	68	16	3.78	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10084-MAR16	15-Mar-16	1000	995	7.26	< 2	6	73	20	4.65	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10128-MAR16	22-Mar-16	1000	991	7.12	< 2	6	82	25	5.53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10164-MAR16	29-Mar-16	1000																																							
11			1000									---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12			1000									---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13			1000									---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14			1000									---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15			1000																																							
16			1000									---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17			1000									---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18			1000									---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19			1000									---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20			1000																																							

Humidity Cell Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: AMQ15-481-05
Weight: 1 kg
Cell Type Wasterock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	SO4	Ca	Cl	F	Hg	Ag	Al	As	Ba	Be	B	Bi	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Sn	Ti	Tl	U	V	Zn
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10116-JAN16	19-Jan-16	1000	904	8.62	< 2	24	73	3	2.97	8	< 0.06	< 0.00001	0.000016	0.079	0.463	0.00087	< 0.000007	0.047	0.000008	< 0.000003	0.00015	0.00034	0.00024	0.026	3.92	0.000516	0.205	0.0104	0.00462	9.37	0.0015	< 0.003	0.00002	0.0099	0.00018	0.0256	0.0002	0.00046	< 0.000005	0.000026	0.00175	< 0.002
1	CA10131-JAN16	26-Jan-16	1000	924	8.16	< 2	17	61	2	2.29	6	< 0.06	< 0.00001	0.000133	0.073	0.437	0.00073	< 0.000007	0.037	< 0.000007	< 0.000003	0.000022	0.00009	0.00040	0.011	2.64	0.000562	0.188	0.0146	0.00899	7.33	0.0007	< 0.003	0.00001	0.0065	0.00018	0.0192	0.00013	0.00014	< 0.000005	0.000085	0.00160	< 0.002
2	CA10014-FEB16	2-Feb-16	1000	934	7.95	< 2	17	54	2	2.41	5	< 0.06	< 0.00001	0.000104	0.075	0.264	0.00081	< 0.000007	0.030	< 0.000007	< 0.000003	0.000024	0.00007	0.00047	< 0.007	2.50	0.000582	0.178	0.0170	0.00184	5.72	0.0004	< 0.003	< 0.00001	0.0048	0.00024	0.0194	0.00014	0.00008	< 0.000005	0.000043	0.00120	< 0.002
3	CA10056-FEB16	9-Feb-16	1000	933	8.03	< 2	15	49	2	2.43	4	< 0.06	< 0.00001	0.000054	0.092	0.212	0.00082	< 0.000007	0.024	0.000008	< 0.000003	0.000018	0.00007	0.00043	< 0.007	2.58	0.000673	0.201	0.0147	0.00104	4.87	0.0002	< 0.003	< 0.00001	0.0040	0.00015	0.0192	0.00017	0.00015	< 0.000005	0.000038	0.00109	< 0.002
4	CA10097-FEB16	16-Feb-16	1000	1014	7.81	< 2	16	48	2	2.80	3	< 0.06	< 0.00001	0.000025	0.042	0.149	0.00118	< 0.000007	0.020	0.000007	< 0.000003	0.000026	< 0.00003	0.00013	< 0.007	2.53	0.000617	0.251	0.0240	0.00111	4.48	0.0005	< 0.003	< 0.00001	0.0058	0.00006	0.0235	0.00017	< 0.00005	< 0.000005	0.000063	0.00065	< 0.002
5	CA10141-FEB16	23-Feb-16	1000	1011	7.51	< 2	14	40	3	3.36	1	< 0.06	< 0.00001	0.000008	0.058	0.139	0.00143	< 0.000007	0.021	< 0.000007	< 0.000003	0.000034	< 0.00003	0.00030	< 0.007	2.62	0.000848	0.279	0.0263	0.00079	3.68	0.0005	< 0.003	< 0.00001	0.0047	0.00009	0.0234	0.00015	0.00005	< 0.000005	0.000085	0.00060	< 0.002
6	CA10010-MAR16	1-Mar-16	1000	936	7.89	< 2	12	38	3	3.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10047-MAR16	8-Mar-16	1000	969	7.86	< 2	11	40	3	3.92	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10084-MAR16	15-Mar-16	1000	970	7.69	< 2	11	38	3	3.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10128-MAR16	22-Mar-16	1000	948	7.67	< 2	10	37	3	3.49	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10164-MAR16	29-Mar-16	1000																																							
11	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	0	0-Jan-00	1000																																							
16	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	0	0-Jan-00	1000																																							

Humidity Cell Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: AMQ-ENV-18
Weight: 1 kg
Cell Type Wasterock

Analyte			Leachate Volume	Leachate Volume	pH	Acidity	Alkalinity	Conductivity	SO4	Ca	Cl	F	Hg	Ag	Al	As	Ba	Be	B	Bi	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Sn	Ti	Tl	U	V	Zn
Week/Event	LIMS	Sample Date	Added (mL)	Recovered (mL)	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10018-SEP15	2-Sep-15	1000	926	7.83	< 2	12	44	5	5.18	< 1	< 0.06	< 0.00001	0.000003	0.071	0.0253	0.00113	< 0.000007	0.0014	< 0.000007	0.000036	0.000687	< 0.00003	0.00048	< 0.007	2.9	0.000538	0.428	0.0151	0.00085	0.69	0.0024	< 0.003	0.00087	0.0009	0.00013	0.0133	0.00144	0.00028	0.000008	0.000289	0.00057	< 0.002
1	CA10057-SEP15	9-Sep-15	1000	961	7.31	< 2	8	27	3	3.23	< 1	< 0.06	< 0.00001	0.000008	0.075	0.0180	0.00110	< 0.000007	0.0018	0.000016	0.000008	0.000239	< 0.00003	0.00049	< 0.007	1.76	0.000463	0.255	0.0106	0.00065	0.31	0.0013	< 0.003	0.00011	0.0007	0.00007	0.00393	0.00030	0.00029	0.000022	0.000405	0.00055	< 0.002
2	CA10100-SEP15	16-Sep-15	1000	968	7.42	< 2	8	22	3	2.59	< 1	< 0.06	< 0.00001	0.000004	0.080	0.0163	0.00082	< 0.000007	0.0013	< 0.000007	0.000014	0.000202	< 0.00003	0.00081	0.009	1.34	0.000412	0.219	0.00938	0.00041	0.21	0.0009	< 0.003	0.00007	0.0007	0.00010	0.00818	0.00007	0.00033	0.000006	0.000546	0.00051	< 0.002
3	CA10135-SEP15	23-Sep-15	1000	974	7.23	<2	8	20	2	2.68	< 1	< 0.06	< 0.00001	< 0.000002	0.104	0.0207	0.00071	< 0.000007	0.0008	< 0.000007	< 0.000003	0.000118	< 0.00003	0.00029	< 0.007	1.27	0.000368	0.208	0.00802	0.00036	0.15	0.0006	< 0.003	0.00002	0.0006	0.00008	0.00731	0.00011	0.00013	0.000005	0.000619	0.00063	< 0.002
4	CA10168-SEP15	30-Sep-15	1000	985	7.61	< 2	7	21	2	2.44	< 1	< 0.06	< 0.00001	0.000003	0.091	0.0156	0.00058	< 0.000007	0.0012	< 0.000007	< 0.000003	0.000085	< 0.00003	0.00019	< 0.007	1.03	0.000330	0.180	0.00780	0.00023	0.11	0.0004	< 0.003	< 0.00001	0.0005	0.00007	0.00649	0.00006	0.00023	0.000005	0.000602	0.00047	< 0.002
5	CA10023-OCT15	7-Oct-15	1000	977	7.47	< 2	7	19	2	2.33	< 1	< 0.06	< 0.00001	0.000011	0.083	0.0138	0.00054	< 0.000007	0.0003	< 0.000007	< 0.000003	0.000096	< 0.00003	0.00031	< 0.007	0.994	0.000312	0.182	0.00834	0.00034	0.10	0.0005	< 0.003	0.00002	0.0004	0.00007	0.00618	0.00003	0.00014	0.000008	0.000516	0.00045	< 0.002
6	CA10061-OCT15	14-Oct-15	1000	1007	7.46	< 2	7	18	2	2.46	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10093-OCT15	21-Oct-15	1000	1015	7.18	< 2	5	17	2	2.39	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10141-OCT15	28-Oct-15	1000	1012	7.32	< 2	7	17	2	2.57	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10021-NOV15	4-Nov-15	1000	982	7.39	< 2	5	14	1	2.33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10051-NOV15	11-Nov-15	1000	1004	7.37	< 2	5	14	2	2.11	< 1	< 0.06	< 0.00001	< 0.000002	0.070	0.0096	0.00056	< 0.000007	0.0034	< 0.000007	0.000004	0.000086	< 0.00003	0.00032	0.008	0.738	0.000271	0.145	0.00903	0.00013	0.05	0.0003	0.006	0.00003	0.0004	< 0.00004	0.00571	0.00004	0.00017	0.000009	0.000856	0.00034	< 0.002
11	CA10082-NOV15	18-Nov-15	1000	959	7.16	< 2	6	16	2	2.19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10113-NOV15	25-Nov-15	1000	946	7.15	< 2	5	16	2	2.23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10001-DEC15	2-Dec-15	1000	949	7.07	< 2	4	15	2	2.24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10056-DEC15	9-Dec-15	1000	970	7.02	< 2	5	16	3	2.34	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10093-DEC15	16-Dec-15	1000	971	6.92	< 2	5	15	3	2.07	< 1	< 0.06	< 0.00001	0.000002	0.057	0.0078	0.00055	< 0.000007	0.0012	< 0.000007	< 0.000003	0.000124	0.00005	0.00021	0.009	0.628	0.000275	0.142	0.0110	0.00361	0.09	0.0004	< 0.003	0.00002	0.0004	0.00008	0.00553	0.00006	< 0.00005	< 0.000005	0.000451	0.00028	< 0.002
16	CA10129-DEC15	23-Dec-15	1000	973	7.13	< 2	5	14	3	2.26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	CA10162-DEC15	30-Dec-15	1000	981	7.03	< 2	5	17	2	2.10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	CA10024-JAN16	6-Jan-16	1000	977	6.89	< 2	4	14	2	1.74	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	CA10061-JAN16	13-Jan-16	1000	985	6.96	< 2	4	15	2	1.81	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	CA10102-JAN16	20-Jan-16	1000	986	7.19	< 2	5	13	2	1.83	< 1	< 0.06	< 0.00001	< 0.000002	0.056	0.0083	0.00045	< 0.000007	0.004	< 0.000007	< 0.000003	0.000188	< 0.00003	0.00017	< 0.007	0.557	0.000244	0.129	0.0132	0.00006	0.04	0.0004	< 0.003	0.00001	0.0002	0.00006	0.00544	0.00002	< 0.00005	< 0.000005	0.000384	0.00022	< 0.002
21	CA10145-JAN16	27-Jan-16	1000	977	7.13	2	4	13	2	1.72	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	CA10027-FEB16	3-Feb-16	1000	983	7.26	< 2	5	14	2	1.71	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.03	---	---	---	---	---	---	---	---	---	---	---	---
23	CA10069-FEB16	10-Feb-16	1000	986	7.14	< 2	4	15	2	1.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	CA10110-FEB16	17-Feb-16	1000	1012	7.18	< 2	6	18	2	2.51	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	CA10154-FEB16	24-Feb-16	1000	982	7.07	< 2	4	13	2	1.73	< 1	< 0.06	< 0.00001	< 0.000002	0.044	0.0066	0.00060	< 0.000007	< 0.002	< 0.000007	< 0.000003	0.000155	< 0.00003	0.00045	0.011	0.479	0.000173	0.118	0.0156	0.00008	0.01	0.0004	< 0.003	0.00002	0.0002	< 0.00004	0.00484	0.00002	< 0.00005	0.000010	0.000547	0.00018	< 0.002
26	CA10024-MAR16	2-Mar-16	1000	974	7.12	< 2	5	16	2	1.76	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	CA10060-MAR16	9-Mar-16	1000	959	7.07	< 2	4	14	2	1.88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28	CA10097-MAR16	16-Mar-16	1000	965	6.89	< 2	3	12	2	1.66	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	CA10141-MAR16	23-Mar-16	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30	CA10176-MAR16	30-Mar-16	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
32			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
33			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
35			1000																																						
36			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
37			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
38			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39			1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
40			1000																																						

Humidity Cell Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: AMQ-ENV-18 *solids removed from cell - 100g removed. 900g place back in cell
Weight: 1 kg
Cell Type Wasterock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	SO4	Ca	Cl	F	Hg	Ag	Al	As	Ba	Be	B	Bi	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Sn	Ti	Tl	U	V	Zn
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10018-SEP15	2-Sep-15	1000	928	4.59	29	< 2	238	97	16.1	1	< 0.06	< 0.00001	< 0.000002	0.423	0.0293	0.035	0.00112	0.0029	< 0.000007	0.00115	0.155	0.00013	0.15	10.3	6.03	0.00944	5.25	3.05	0.00004	0.96	0.337	< 0.003	0.00397	0.0003	0.00373	0.0556	0.00078	< 0.00005	0.000076	0.002	0.00002	0.106
1	CA10057-SEP15	9-Sep-15	1000	986	4.41	17	< 2	155	59	10.2	< 1	< 0.06	< 0.00001	< 0.000002	0.247	0.0246	0.0136	0.000799	0.0030	< 0.000007	0.000860	0.113	0.00009	0.0896	5.90	3.73	0.00635	3.61	2.28	0.00012	0.48	0.254	< 0.003	0.00322	0.0003	0.00250	0.0391	0.00030	< 0.00005	0.000058	0.00179	0.00003	0.111
2	CA10100-SEP15	16-Sep-15	1000	978	4.46	16	< 2	122	46	5.49	< 1	< 0.06	0.00001	0.000002	0.190	0.0218	0.00762	0.000730	0.0028	< 0.000007	0.000649	0.102	0.00007	0.0826	4.90	2.36	0.00598	2.50	1.89	0.00003	0.27	0.201	< 0.003	0.00155	0.0005	0.00197	0.0234	0.00023	< 0.00005	0.000044	0.00172	0.00001	0.083
3	CA10135-SEP15	23-Sep-15	1000	985	4.40	18	< 2	118	44	5.10	< 1	< 0.06	< 0.00001	< 0.000002	0.209	0.0301	0.00779	0.000899	0.0024	< 0.000007	0.000773	0.0966	0.00007	0.0819	5.86	2.42	0.00579	2.58	2.13	0.00012	0.22	0.214	< 0.003	0.00139	0.0002	0.00257	0.0206	0.00012	< 0.00005	0.000041	0.00164	< 0.00001	0.099
4	CA10168-SEP15	30-Sep-15	1000	1002	4.33	16	< 2	108	34	3.74	< 1	< 0.06	< 0.00001	< 0.000002	0.236	0.0264	0.00529	0.000873	0.0023	< 0.000007	0.000697	0.0812	0.00008	0.0794	5.76	1.96	0.00525	2.17	1.83	0.00005	0.15	0.178	< 0.003	0.00133	0.0002	0.00191	0.0165	0.00007	< 0.00005	0.000034	0.00183	0.00002	0.088
5	CA10023-OCT15	7-Oct-15	1000	996	4.40	17	< 2	102	33	3.68	< 1	< 0.06	< 0.00001	< 0.000002	0.253	0.0224	0.00420	0.000908	0.0017	< 0.000007	0.000676	0.0672	0.00008	0.0761	5.67	1.54	0.00546	1.96	1.67	0.00009	0.11	0.157	< 0.003	0.00167	< 0.0002	0.00164	0.0138	0.00033	< 0.00005	0.000028	0.00192	0.00002	0.084
6	CA10061-OCT15	14-Oct-15	1000	1010	4.46	18	< 2	110	37	4.17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10093-OCT15	21-Oct-15	1000	1007	4.23	19	< 2	108	34	3.94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10141-OCT15	28-Oct-15	1000	1011	4.46	15	< 2	96	32	3.64	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10021-NOV15	4-Nov-15	1000	1008	5.27	9	< 2	73	26	2.34	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10051-NOV15	11-Nov-15	1000	1009	4.25	19	< 2	91	31	3.04	< 1	< 0.06	< 0.00001	0.000003	0.267	0.0188	0.00417	0.000846	0.0034	< 0.000007	0.000552	0.0573	0.00007	0.0638	6.42	1.08	0.00487	1.70	1.64	0.00003	0.05	0.130	< 0.003	0.00151	0.0002	0.00135	0.0117	0.00007	0.00013	0.000035	0.00263	< 0.00001	0.078
11	CA10082-NOV15	18-Nov-15	1000	960	4.22	21	< 2	103	29	2.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10113-NOV15	25-Nov-15	1000	952	4.20	30	< 2	126	41	3.36	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10021-DEC15	2-Dec-15	1000	978	4.31	29	< 2	123	44	3.45	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10056-DEC15	9-Dec-15	1000	980	4.42	23	< 2	100	32	2.66	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10093-DEC15	16-Dec-15	1000	986	4.38	18	< 2	91	28	2.25	< 1	< 0.06	< 0.00001	< 0.000002	0.119	0.0141	0.00283	0.000535	0.0030	< 0.000007	0.000436	0.0363	0.00008	0.0386	7.33	0.630	0.00456	1.37	1.72	0.00177	0.08	0.0875	< 0.003	0.00099	< 0.0002	0.00088	0.00878	0.00004	< 0.00005	0.000012	0.00143	0.00001	0.065
16	CA10129-DEC15	23-Dec-15	1000	1003	4.45	19	< 2	81	25	2.21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	CA10162-DEC15	30-Dec-15	1000	997	4.47	19	< 2	82	26	1.98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	CA10024-JAN16	6-Jan-16	1000	998	4.63	13	< 2	47	20	1.63	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	CA10061-JAN16	13-Jan-16	1000	1006	4.46	15	< 2	68	21	1.63	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20*	CA10107-JAN16	20-Jan-16	1000	1003	4.44	14	< 2	71	20	1.57	< 1	< 0.06	< 0.00001	< 0.000002	0.090	0.0085	0.00338	0.000457	0.005	< 0.000007	0.000268	0.0221	< 0.00003	0.0294	4.97	0.460	0.00377	0.883	1.18	< 0.00001	0.04	0.0454	< 0.003	0.00103	< 0.0002	0.00066	0.00740	0.00004	< 0.00005	0.000009	0.00110	< 0.00001	0.042
21	CA10145-JAN16	27-Jan-16	900	887	4.30	16	< 2	76	21	1.64	< 1	< 0.06	< 0.00001	< 0.000002	0.113	0.0083	0.00464	0.000536	0.003	< 0.000007	0.000273	0.0230	< 0.00003	0.0440	5.20	0.647	0.00333	0.940	1.10	0.00014		0.0481	< 0.003	0.00103	< 0.0002	0.00066	0.00715	0.00006	< 0.00005	0.000024	0.00146	< 0.00001	0.044
22	CA10027-FEB16	3-Feb-16	900	890	4.17	19	< 2	92	25	1.79	< 1	< 0.06	< 0.00001	0.000003	0.192	0.0096	0.00376	0.000705	0.003	< 0.000007	0.000346	0.0292	0.00007	0.0557	5.38	0.677	0.00426	1.11	1.18	0.00003	0.04	0.0582	0.003	0.00122	< 0.0002	0.00062	0.00769	0.00009	< 0.00005	0.000032	0.00221	0.00002	0.053
23	CA10069-FEB16	10-Feb-16	900	881	4.14	22	< 2	100	29	1.93	< 1	< 0.06	< 0.00001	< 0.000002	0.306	0.0093	0.00315	0.000848	< 0.002	< 0.000007	0.000380	0.0297	0.00008	0.0610	5.47	0.600	0.00465	1.12	1.23	0.00001	0.02	0.0618	< 0.003	0.00136	< 0.0002	0.00066	0.00748	0.00007	< 0.00005	0.000031	0.00264	0.00001	0.057
24	CA10110-FEB16	17-Feb-16	900	898	4.06	21	< 2	102	27	1.92	< 1	< 0.06	< 0.00001	< 0.000002	0.372	0.0082	0.00279	0.000910	< 0.002	< 0.000007	0.000362	0.0319	0.00009	0.0665	4.82	0.507	0.00464	1.12	1.23	0.00001	0.02	0.0684	< 0.003	0.00118	< 0.0002	0.00061	0.00734	0.00006	< 0.00005	0.000025	0.00283	0.00001	0.058

Terminated

Humidity Cell Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: AMQ-ENV-40
Weight: 1 kg
Cell Type Wasterock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	SO4	Ca	Cl	F	Hg	Ag	Al	As	Ba	Be	B	Bi	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Sn	Ti	Tl	U	V	Zn
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10018-SEP15	2-Sep-15	1000	936	7.29	< 2	6	85	21	2.79	2	< 0.06	< 0.00001	0.000007	0.01	0.003	0.00438	< 0.000007	0.0068	< 0.000007	0.000006	0.000119	< 0.00003	0.00059	0.013	13.2	0.000238	0.46	0.00949	0.00043	0.65	0.0008	< 0.003	0.00019	0.0006	0.00019	0.00562	0.00117	0.00012	0.000009	0.000069	0.00005	0.004
1	CA10057-SEP15	9-Sep-15	1000	980	6.79	2	4	68	18	2.92	2	< 0.06	< 0.00001	0.000015	0.010	0.0030	0.00377	< 0.000007	0.0083	0.000007	< 0.000003	0.000119	< 0.00003	0.00049	0.011	10.6	0.000269	0.494	0.0102	0.00015	0.62	0.0009	< 0.003	0.00011	0.0005	0.00012	0.00548	0.00036	0.00009	0.000012	0.000054	0.00005	0.005
2	CA10100-SEP15	16-Sep-15	1000	986	6.72	2	3	42	11	1.45	1	< 0.06	< 0.00001	0.000004	0.009	0.0028	0.00204	< 0.000007	0.0079	< 0.000007	0.000005	0.000099	< 0.00003	0.00031	0.009	6.68	0.000228	0.274	0.00751	0.00007	0.40	0.0006	< 0.003	0.00002	0.0005	0.00011	0.00259	0.00006	< 0.00005	< 0.000005	0.000049	0.00005	0.003
3	CA10135-SEP15	23-Sep-15	1000	987	7.07	3	3	34	8	1.07	< 1	< 0.06	< 0.00001	< 0.0000002	0.012	0.0039	0.00155	< 0.000007	0.0079	< 0.000007	< 0.000003	0.000072	< 0.00003	0.00024	0.010	6.24	0.000176	0.211	0.00662	0.00012	0.33	0.0004	< 0.003	0.00003	0.0004	0.00008	0.00175	0.00010	< 0.00005	0.000007	0.000092	0.00004	0.002
4	CA10161-SEP15	30-Sep-15	1000	1004	7.04	< 2	3	31	7	0.86	< 1	< 0.06	< 0.00001	0.000005	0.010	0.0033	0.00121	< 0.000007	0.0063	< 0.000007	< 0.000003	0.000089	< 0.00003	0.00024	0.011	5.10	0.000150	0.174	0.00691	0.00007	0.24	0.0004	< 0.003	< 0.00001	0.0004	0.00008	0.00138	0.00013	< 0.00005	< 0.000005	0.000062	0.00006	0.002
5	CA10023-OCT15	7-Oct-15	1000	989	6.99	< 2	4	28	6	0.82	< 1	< 0.06	< 0.00001	0.000005	0.008	0.0032	0.00111	< 0.000007	0.0064	< 0.000007	< 0.000003	0.000134	< 0.00003	0.00027	0.010	4.96	0.000179	0.182	0.00900	0.00006	0.22	0.0005	< 0.003	0.00002	0.0003	0.00007	0.00147	0.00003	< 0.00005	< 0.000005	0.000053	0.00004	< 0.002
6	CA10061-OCT15	14-Oct-15	1000	1014	6.92	< 2	3	27	6	0.89	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10093-OCT15	21-Oct-15	1000	1006	6.80	< 2	4	29	6	1.14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10141-OCT15	28-Oct-15	1000	1014	7.06	< 2	4	24	5	0.97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10021-NOV15	4-Nov-15	1000	1001	6.90	< 2	3	19	4	0.65	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10051-NOV15	11-Nov-15	1000	1007	6.53	< 2	2	18	5	0.79	< 1	< 0.06	< 0.00001	0.000002	0.008	0.0022	0.00075	0.000009	0.0030	< 0.000007	< 0.000003	0.000197	< 0.00003	0.00017	0.017	3.59	0.000154	0.176	0.0132	0.00004	0.13	0.0005	0.005	< 0.00001	0.0003	0.00006	0.00103	0.00004	< 0.00005	0.000005	0.000029	0.00002	< 0.002
11	CA10082-NOV15	18-Nov-15	1000	977	6.70	2	2	23	5	0.96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10113-NOV15	25-Nov-15	1000	961	6.57	2	2	24	6	1.06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10021-DEC15	2-Dec-15	1000	964	6.63	< 2	2	25	7	1.28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10056-DEC15	9-Dec-15	1000	978	6.50	2	< 2	27	8	1.40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10093-DEC15	16-Dec-15	1000	976	6.20	3	< 2	29	8	1.36	< 1	< 0.06	< 0.00001	< 0.0000002	0.003	0.0031	0.00102	0.000016	0.0067	0.000009	0.000003	0.000754	0.00004	0.00018	0.089	3.73	0.000251	0.425	0.0537	0.00112	0.16	0.0023	< 0.003	< 0.00001	0.0003	0.00009	0.00198	0.00003	< 0.00005	< 0.000005	0.000059	0.00002	0.004
16	CA10129-DEC15	23-Dec-15	1000	978	6.43	< 2	< 2	26	7	1.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	CA10162-DEC15	30-Dec-15	1000	984	6.29	3	2	28	8	1.22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	CA10024-JAN16	6-Jan-16	1000	979	6.15	3	< 2	22	6	1.13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	CA10061-JAN16	13-Jan-16	1000	979	6.41	< 2	2	26	7	1.31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	CA10102-JAN16	20-Jan-16	1000	981	6.18	2	< 2	29	8	1.28	< 1	< 0.06	< 0.00001	< 0.0000002	< 0.001	0.0029	0.00074	0.000017	0.009	< 0.000007	0.000008	0.000917	< 0.00003	0.00016	0.115	3.32	0.000245	0.456	0.0811	< 0.00001	0.09	0.0026	< 0.003	< 0.00001	< 0.0002	0.00006	0.00214	0.00005	< 0.00005	< 0.000005	0.000073	< 0.00001	0.004
21	CA10145-JAN16	27-Jan-16	1000	995	6.44	< 2	< 2	28	8	1.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	CA10027-FEB16	3-Feb-16	1000	1003	6.37	< 2	< 2	26	7	1.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	CA10069-FEB16	10-Feb-16	1000	1010	6.42	2	< 2	27	8	1.12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	CA10110-FEB16	17-Feb-16	1000	1008	6.59	< 2	2	33	8	1.81	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	CA10154-FEB16	24-Feb-16	1000	1005	6.45	4	2	22	5	1.01	< 1	< 0.06	< 0.00001	< 0.0000002	0.003	0.0030	0.00066	0.000015	0.005	< 0.000007	< 0.000003	0.000686	< 0.00003	0.00058	0.093	2.58	0.000193	0.349	0.0702	< 0.00001	0.04	0.0019	< 0.003	< 0.00001	< 0.0002	0.00004	0.00145	0.00001	< 0.00005	0.000005	0.000038	0.00001	< 0.002
26	CA10024-MAR16	2-Mar-16	1000	1002	6.33	< 2	< 2	22	6	0.96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	CA10060-MAR16	9-Mar-16	1000	979	6.26	4	< 2	26	7	1.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28	CA10097-MAR16	16-Mar-16	1000	985	6.21	4	< 2	24	7	1.13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	CA10141-MAR16	23-Mar-16	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30	CA10176-MAR16	30-Mar-16	1000																																							
31	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
32	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
33	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
35	0	0-Jan-00	1000																																							
36	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
37	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
38	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
40	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Humidity Cell Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: AMQ-ENV-37
Weight: 1 kg
Cell Type Wasterock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	SO4	Ca	Cl	F	Hg	Ag	Al	As	Ba	Be	B	Bi	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Sn	Ti	Tl	U	V	Zn
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10018-SEP15	2-Sep-15	1000	938	7.30	< 2	10	30	2	3.57	< 1	< 0.06	< 0.00001	< 0.0000002	0.061	0.0803	0.00069	< 0.000007	0.0022	< 0.000007	0.000016	0.000171	< 0.00003	0.00031	0.008	2.25	0.000583	0.338	0.0229	0.0011	0.49	0.0025	< 0.003	0.00017	0.0016	0.00008	0.00818	0.00087	0.00025	< 0.000005	0.00038	0.00043	< 0.002
1	CA10057-SEP15	9-Sep-15	1000	966	7.26	< 2	7	20	1	2.29	< 1	< 0.06	< 0.00001	0.0000002	0.061	0.0500	0.00051	< 0.000007	0.0019	< 0.000007	0.000004	0.000092	< 0.00003	0.00029	0.007	1.35	0.000414	0.231	0.0174	0.00060	0.24	0.0012	< 0.003	0.00005	0.0012	< 0.00004	0.00555	0.00016	0.00026	0.000005	0.000591	0.00039	< 0.002
2	CA10100-SEP15	16-Sep-15	1000	972	7.35	< 2	7	19	2	2.10	< 1	< 0.06	0.00001	< 0.0000002	0.053	0.0456	0.00037	< 0.000007	0.0025	< 0.000007	0.000003	0.000142	0.00238	0.00016	< 0.007	1.08	0.000413	0.236	0.0154	0.00098	0.22	0.0009	< 0.003	0.00004	0.0022	0.00004	0.00596	< 0.00001	0.00007	0.000007	0.00168	0.00040	< 0.002
3	CA10135-SEP15	23-Sep-15	1000	986	7.60	< 2	8	18	2	2.61	< 1	< 0.06	< 0.00001	< 0.0000002	0.076	0.0534	0.00042	< 0.000007	0.0020	< 0.000007	< 0.000003	0.000079	< 0.00003	0.00018	< 0.007	1.19	0.000379	0.263	0.0157	0.00053	0.17	0.0004	< 0.003	< 0.00001	0.0021	< 0.00004	0.00660	< 0.00001	0.00009	< 0.000005	0.00182	0.00046	< 0.002
4	CA10168-SEP15	30-Sep-15	1000	989	7.40	< 2	8	20	2	2.28	< 1	< 0.06	< 0.00001	< 0.0000002	0.064	0.0377	0.00037	< 0.000007	0.0015	< 0.000007	< 0.000003	0.000066	< 0.00003	0.00025	< 0.007	0.893	0.000325	0.222	0.0140	0.00040	0.11	0.0003	< 0.003	< 0.00001	0.0016	< 0.00004	0.00567	0.00008	< 0.000005	< 0.000005	0.00191	0.00037	< 0.002
5	CA10023-OCT15	7-Oct-15	1000	999	7.43	< 2	8	18	1	2.22	< 1	< 0.06	< 0.00001	< 0.0000002	0.061	0.0341	0.00039	< 0.000007	0.0009	< 0.000007	< 0.000003	0.000077	< 0.00003	0.00014	< 0.007	0.832	0.000299	0.228	0.0153	0.00031	0.10	0.0002	< 0.003	< 0.00001	0.0013	< 0.00004	0.00579	< 0.00001	< 0.000005	< 0.000005	0.00169	0.00034	< 0.002
6	CA10061-OCT15	14-Oct-15	1000	996	7.35	< 2	7	16	2	2.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10093-OCT15	21-Oct-15	1000	996	7.16	< 2	6	14	1	1.95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10141-OCT15	28-Oct-15	1000	1005	7.47	< 2	7	15	1	2.27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10021-NOV15	4-Nov-15	1000	992	7.42	< 2	6	14	1	1.97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10051-NOV15	11-Nov-15	1000	1005	7.26	< 2	6	13	1	2.02	< 1	< 0.06	< 0.00001	< 0.0000002	0.063	0.0220	0.00033	< 0.000007	< 0.0002	< 0.000007	< 0.000003	0.000065	< 0.00003	0.00025	< 0.007	0.612	0.000204	0.179	0.0139	0.00018	0.04	0.0001	0.005	< 0.00001	0.0008	< 0.00004	0.00508	0.00032	0.00010	< 0.000005	0.00119	0.00028	< 0.002
11	CA10082-NOV15	18-Nov-15	1000	964	7.24	< 2	6	12	1	1.64	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10113-NOV15	25-Nov-15	1000	951	7.21	< 2	5	12	1	1.70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10021-DEC15	2-Dec-15	1000	970	7.05	< 2	5	13	2	2.02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10056-DEC15	9-Dec-15	1000	986	7.10	< 2	6	13	2	1.87	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10093-DEC15	16-Dec-15	1000	988	6.95	< 2	6	14	1	1.80	< 1	< 0.06	< 0.00001	< 0.0000002	0.049	0.0211	0.00041	< 0.000007	0.0014	< 0.000007	< 0.000003	0.000053	0.00004	0.00026	< 0.007	0.488	0.000213	0.166	0.0114	0.00092	0.08	0.0001	< 0.003	< 0.00001	0.0007	< 0.00004	0.00459	0.00002	< 0.00005	< 0.000005	0.000965	0.00022	< 0.002
16	CA10129-DEC15	23-Dec-15	1000	1003	7.17	< 2	6	12	2	1.90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	CA10162-DEC15	30-Dec-15	1000	997	7.06	< 2	6	13	1	1.77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	CA10024-JAN16	6-Jan-16	1000	1000	6.88	< 2	5	12	1	1.63	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	CA10061-JAN16	13-Jan-16	1000	1003	7.04	< 2	5	14	2	1.74	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	CA10102-JAN16	20-Jan-16	1000	1004	7.19	< 2	5	11	1	1.67	< 1	< 0.06	< 0.00001	< 0.0000002	0.050	0.0189	0.00023	< 0.000007	0.003	< 0.000007	< 0.000003	0.000087	< 0.00003	0.00010	< 0.007	0.397	0.000164	0.142	0.0132	0.00010	0.03	< 0.0001	< 0.003	< 0.00001	0.0005	< 0.00004	0.00460	0.00002	< 0.00005	< 0.000005	0.00676	0.00017	< 0.002
21	CA10145-JAN16	27-Jan-16	1000	989	7.16	< 2	5	13	1	1.51	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	CA10027-FEB16	3-Feb-16	1000	996	7.00	< 2	5	12	1	1.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	CA10069-FEB16	10-Feb-16	1000	1004	7.30	< 2	6	18	1	1.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	CA10110-FEB16	17-Feb-16	1000	994	7.06	< 2	5	11	1	1.49	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	CA10154-FEB16	24-Feb-16	1000	1008	7.04	< 2	5	11	2	1.64	< 1	< 0.06	< 0.00001	< 0.0000002	0.037	0.0152	0.00028	< 0.000007	< 0.002	< 0.000007	< 0.000003	0.000070	< 0.00003	0.00051	< 0.007	0.319	0.000115	0.122	0.0152	0.00012	< 0.01	< 0.0001	< 0.003	< 0.00001	0.0004	< 0.00004	0.00404	0.00004	< 0.00005	< 0.000005	0.000525	0.00012	< 0.002
26	CA10024-MAR16	2-Mar-16	1000	1002	7.14	< 2	5	12	2	1.81	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	CA10060-MAR16	9-Mar-16	1000	994	7.12	< 2	4	12	2	1.76	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28	CA10097-MAR16	16-Mar-16	1000	992	6.96	< 2	4	10	1	1.61	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	CA10141-MAR16	23-Mar-16	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30	CA10176-MAR16	30-Mar-16	1000																																							
31	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
32	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
33	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
35	0	0-Jan-00	1000																																							
36	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
37	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
38	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
40	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Humidity Cell Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: AMQ-ENV-114
Weight: 1 kg
Cell Type Wasterock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	SO4	Ca	Cl	F	Hg	Ag	Al	As	Ba	Be	B	Bi	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Sn	Ti	Tl	U	V	Zn
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10018-SEP15	2-Sep-15	1000	921	7.51	< 2	7	34	4	3.38	< 1	< 0.06	< 0.00001	0.000002	0.062	0.0115	0.00472	< 0.000007	0.0022	< 0.000007	0.000004	0.000104	< 0.00003	0.00043	0.009	2.79	0.00122	0.329	0.00381	0.00607	0.55	0.0011	< 0.003	0.00005	0.0006	0.00024	0.00823	0.00076	0.00041	0.000007	0.00019	0.00101	< 0.002
1	CA10057-SEP15	9-Sep-15	1000	959	6.96	< 2	5	20	3	1.75	< 1	< 0.06	< 0.00001	< 0.000002	0.064	0.0083	0.00332	< 0.000007	0.0019	< 0.000007	0.000003	0.000129	0.00003	0.00039	0.011	1.78	0.00101	0.198	0.00255	0.00316	0.25	0.0005	< 0.003	0.00005	0.0005	0.00011	0.00438	0.00027	0.00062	0.000007	0.000321	0.00089	< 0.002
2	CA10100-SEP15	16-Sep-15	1000	955	7.08	< 2	4	15	2	1.28	< 1	< 0.06	< 0.00001	< 0.000002	0.062	0.0068	0.00218	< 0.000007	0.0018	< 0.000007	0.000003	0.000145	< 0.00003	0.00036	0.009	1.27	0.000920	0.153	0.00192	0.00261	0.17	0.0003	< 0.003	0.00003	0.0005	0.00009	0.00351	0.00006	0.00030	0.000005	0.000418	0.00083	< 0.002
3	CA10135-SEP15	23-Sep-15	1000	967	7.36	< 2	5	16	3	1.63	< 1	< 0.06	< 0.00001	< 0.000002	0.072	0.0089	0.00229	< 0.000007	0.0019	< 0.000007	< 0.000003	0.000103	< 0.00003	0.00015	< 0.007	1.45	0.000852	0.193	0.00242	0.00204	0.16	0.0004	< 0.003	< 0.00001	0.0006	0.00009	0.00405	0.00006	0.00006	< 0.000005	0.000587	0.00104	< 0.002
4	CA10169-SEP15	30-Sep-15	1000	981	7.30	< 2	5	18	2	1.49	< 1	< 0.06	0.00001	< 0.000002	0.057	0.0070	0.00237	< 0.000007	0.0017	< 0.000007	< 0.000003	0.000107	< 0.00003	0.00013	< 0.007	1.23	0.000785	0.165	0.00228	0.00180	0.11	0.0002	< 0.003	< 0.00001	0.0007	0.00008	0.00365	0.00004	0.00006	< 0.000005	0.000931	0.00087	< 0.002
5	CA10023-OCT15	7-Oct-15	1000	988	7.17	< 2	5	15	2	1.41	< 1	< 0.06	< 0.00001	< 0.000002	0.050	0.0062	0.00240	< 0.000007	0.0012	< 0.000007	< 0.000003	0.000118	< 0.00003	0.00026	< 0.007	1.13	0.000743	0.157	0.00254	0.00132	0.09	0.0002	< 0.003	< 0.00001	0.0006	< 0.00004	0.00362	0.00003	< 0.00005	< 0.000005	0.000885	0.00076	< 0.002
6	CA10061-OCT15	14-Oct-15	1000	983	7.16	< 2	4	13	2	1.20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10093-OCT15	21-Oct-15	1000	992	6.94	< 2	4	8	1	1.18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10141-OCT15	28-Oct-15	1000	999	7.10	< 2	4	11	1	1.27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10021-NOV15	4-Nov-15	1000	987	7.10	< 2	4	10	1	1.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10051-NOV15	11-Nov-15	1000	991	6.92	< 2	3	7	1	1.10	< 1	< 0.06	< 0.00001	< 0.000002	0.048	0.0045	0.00183	< 0.000007	< 0.0002	< 0.000007	< 0.000003	0.000104	< 0.00003	0.00018	< 0.007	0.875	0.000520	0.105	0.00299	0.00055	0.04	0.0001	< 0.003	< 0.00001	0.0004	< 0.00004	0.00273	0.00004	< 0.00005	0.000005	0.000749	0.00058	< 0.002
11	CA10082-NOV15	18-Nov-15	1000	972	6.93	< 2	4	9	1	0.97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10113-NOV15	25-Nov-15	1000	954	6.76	< 2	3	7	1	0.95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10021-DEC15	2-Dec-15	1000	954	6.82	< 2	3	7	2	1.02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10056-DEC15	9-Dec-15	1000	988	6.77	< 2	2	10	2	1.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10093-DEC15	16-Dec-15	1000	987	6.75	< 2	3	11	2	0.95	< 1	< 0.06	< 0.00001	< 0.000002	0.031	0.0027	0.00216	< 0.000007	0.0011	< 0.000007	0.000003	0.000337	< 0.00003	0.00031	< 0.007	0.790	0.000610	0.112	0.00393	0.00085	0.06	0.0004	< 0.003	0.00001	0.0003	0.00007	0.00222	0.00011	0.00013	< 0.000005	0.000323	0.00038	< 0.002
16	CA10129-DEC15	23-Dec-15	1000	987	6.74	< 2	2	9	2	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	CA10162-DEC15	30-Dec-15	1000	995	6.69	< 2	4	15	2	0.94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	CA10024-JAN16	6-Jan-16	1000	988	6.59	2	2	8	2	0.82	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	CA10061-JAN16	13-Jan-16	1000	999	6.64	< 2	2	11	2	0.95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	CA10102-JAN16	20-Jan-16	1000	995	6.80	< 2	3	9	2	0.86	< 1	< 0.06	< 0.00001	< 0.000002	0.026	0.0023	0.00168	< 0.000007	< 0.002	< 0.000007	0.000003	0.000303	< 0.00003	0.00013	< 0.007	0.680	0.000573	0.097	0.00448	0.00011	0.02	0.0003	< 0.003	< 0.00001	< 0.0002	< 0.00004	0.00207	0.00003	< 0.00005	< 0.000005	0.000269	0.00027	< 0.002
21	CA10145-JAN16	27-Jan-16	1000	974	6.60	2	2	9	2	0.79	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	CA10027-FEB16	3-Feb-16	1000	969	6.72	< 2	2	10	2	0.93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	CA10069-FEB16	10-Feb-16	1000	978	6.81	< 2	2	11	2	1.03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	CA10110-FEB16	17-Feb-16	1000	991	6.73	< 2	2	10	2	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	CA10154-FEB16	24-Feb-16	1000	998	6.91	< 2	3	10	2	1.02	< 1	< 0.06	< 0.00001	< 0.000002	0.022	0.0024	0.00199	< 0.000007	< 0.002	< 0.000007	< 0.000003	0.000206	< 0.00003	0.00036	< 0.007	0.643	0.000423	0.111	0.00671	0.00017	< 0.01	0.0002	< 0.003	0.00002	0.0002	0.00004	0.00223	0.00002	< 0.00005	< 0.000005	0.000418	0.00027	< 0.002
26	CA10024-MAR16	2-Mar-16	1000	1000	6.92	< 2	3	10	2	1.18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	CA10060-MAR16	9-Mar-16	1000	1000	6.93	< 2	3	10	2	1.14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28	CA10097-MAR16	16-Mar-16	1000	999	6.81	< 2	3	8	2	1.03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	CA10141-MAR16	23-Mar-16	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30	CA10176-MAR16	30-Mar-16	1000																																							
31	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
32	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
33	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
35	0	0-Jan-00	1000																																							
36	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
37	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
38	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
40	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Humidity Cell Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: AMQ-ENV-43
Weight: 1 kg
Cell Type Wasterock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	SO4	Ca	Cl	F	Hg	Ag	Al	As	Ba	Be	B	Bi	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Sn	Ti	Tl	U	V	Zn
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10018-SEP15	2-Sep-15	1000	876	8.24	< 2	14	49	3	3.03	2	< 0.06	< 0.00001	0.000006	0.018	0.445	0.0013	< 0.000007	0.0317	< 0.000007	0.000008	0.000834	0.00064	0.00042	0.018	2.47	0.000338	0.698	0.00899	0.00043	4.59	0.0082	< 0.003	0.0001	0.0062	0.00017	0.0226	0.00047	0.0002	0.000009	0.000007	0.00442	< 0.002
1	CA10057-SEP15	9-Sep-15	1000	956	8.01	< 2	15	61	7	3.35	3	< 0.06	< 0.00001	0.000019	0.011	2.30	0.00186	< 0.000007	0.0467	< 0.000007	< 0.000003	0.00136	0.00034	0.00027	0.009	2.99	0.000488	1.13	0.0104	0.00049	4.99	0.0128	< 0.003	0.00005	0.0177	0.00028	0.0364	0.00022	0.00008	0.000010	0.000019	0.00590	< 0.002
2	CA10100-SEP15	16-Sep-15	1000	950	7.80	< 2	12	45	6	2.72	< 1	< 0.06	< 0.00001	0.000003	0.010	1.84	0.00171	< 0.000007	0.0289	< 0.000007	< 0.000003	0.000694	0.00028	0.00022	0.011	2.33	0.000487	0.956	0.00740	0.00029	2.56	0.0058	< 0.003	< 0.00001	0.0112	0.00021	0.0360	0.00004	0.00010	0.000010	0.000014	0.00483	< 0.002
3	CA10135-SEP15	23-Sep-15	1000	962	8.17	< 2	13	38	4	3.11	< 1	< 0.06	< 0.00001	0.000006	0.011	2.15	0.00180	< 0.000007	0.0205	< 0.000007	< 0.000003	0.000377	0.00026	0.00028	0.009	2.41	0.000454	1.01	0.00671	0.00038	1.55	0.0035	< 0.003	< 0.00001	0.0122	0.00026	0.0354	0.00014	0.00008	0.000007	0.000039	0.00473	< 0.002
4	CA10168-SEP15	30-Sep-15	1000	968	7.71	< 2	11	37	4	2.86	< 1	< 0.06	< 0.00001	< 0.000002	0.009	1.78	0.00177	< 0.000007	0.0145	< 0.000007	< 0.000003	0.000310	0.00025	0.00003	0.010	2.19	0.000469	0.946	0.00639	0.00027	0.95	0.0028	< 0.003	< 0.00001	0.0106	0.00026	0.0320	0.00005	0.00006	0.000005	0.000025	0.00380	< 0.002
5	CA10023-OCT15	7-Oct-15	1000	950	7.74	< 2	10	32	3	2.58	< 1	< 0.06	< 0.00001	0.000003	0.011	1.32	0.00172	< 0.000007	0.0096	< 0.000007	< 0.000003	0.000302	0.00032	0.00026	0.013	2.18	0.000442	0.870	0.00549	0.00017	0.63	0.0024	< 0.003	< 0.00001	0.0074	0.00020	0.0285	0.00004	0.00019	< 0.000005	0.000029	0.00332	< 0.002
6	CA10061-OCT15	14-Oct-15	1000	971	7.60	< 2	10	31	2	2.62	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10093-OCT15	21-Oct-15	1000	991	7.49	< 2	11	30	2	2.79	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10141-OCT15	28-Oct-15	1000	1003	7.49	< 2	14	32	2	3.28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10021-NOV15	4-Nov-15	1000	985	7.62	< 2	10	28	2	2.43	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10051-NOV15	11-Nov-15	1000	991	7.48	< 2	10	26	2	2.67	< 1	< 0.06	< 0.00001	< 0.000002	0.010	1.13	0.00178	< 0.000007	0.0027	< 0.000007	< 0.000003	0.000298	0.00020	0.00008	0.010	2.17	0.000453	0.883	0.00622	0.00006	0.22	0.0023	0.003	< 0.00001	0.0070	0.00013	0.0244	0.00006	0.00019	0.000011	0.000011	0.00235	< 0.002
11	CA10082-NOV15	18-Nov-15	1000	954	7.56	< 2	10	26	2	2.47	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10113-NOV15	25-Nov-15	1000	930	7.26	< 2	8	23	2	2.29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10021-DEC15	2-Dec-15	1000	924	7.45	< 2	8	21	2	2.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10056-DEC15	9-Dec-15	1000	966	7.60	< 2	10	24	2	2.44	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10093-DEC15	16-Dec-15	1000	970	7.33	< 2	10	25	2	2.36	< 1	< 0.06	< 0.00001	< 0.000002	0.008	0.950	0.00160	< 0.000007	0.0036	< 0.000007	< 0.000003	0.000231	0.00023	0.00021	0.009	1.90	0.000455	0.731	0.00482	0.00051	0.19	0.0016	< 0.003	< 0.00001	0.0052	0.00014	0.0180	0.00011	0.00006	< 0.000005	0.000010	0.00217	< 0.002
16	CA10129-DEC15	23-Dec-15	1000	967	7.33	< 2	8	22	2	2.43	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	CA10162-DEC15	30-Dec-15	1000	981	7.46	< 2	10	26	2	2.33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	CA10024-JAN16	6-Jan-16	1000	980	7.20	< 2	11	22	2	2.21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	CA10061-JAN16	13-Jan-16	1000	971	7.34	< 2	9	24	2	2.21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	CA10102-JAN16	20-Jan-16	1000	1009	7.57	< 2	13	31	2	3.43	< 1	< 0.06	< 0.00001	0.000002	0.005	1.56	0.00241	< 0.000007	0.002	< 0.000007	< 0.000003	0.000345	0.00016	0.00004	< 0.007	2.34	0.000677	1.08	0.00742	< 0.00001	0.14	0.0026	< 0.003	< 0.00001	0.0063	0.00016	0.0249	0.00006	< 0.000005	0.000009	0.000006	0.00223	< 0.002
21	CA10145-JAN16	27-Jan-16	1000	1008	7.61	< 2	12	28	2	2.89	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	CA10027-FEB16	3-Feb-16	1000	1016	7.44	< 2	9	24	1	2.31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	CA10069-FEB16	10-Feb-16	1000	1004	7.46	< 2	10	25	2	2.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	CA10110-FEB16	17-Feb-16	1000	1010	7.35	< 2	9	23	1	2.35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	CA10154-FEB16	24-Feb-16	1000	994	7.40	< 2	8	22	2	2.27	< 1	< 0.06	< 0.00001	< 0.000002	0.007	0.810	0.00163	< 0.000007	< 0.002	< 0.000007	< 0.000003	0.000298	0.00020	0.00040	0.010	1.44	0.000365	0.630	0.00559	< 0.00001	0.05	0.0023	< 0.003	< 0.00001	0.0030	0.00009	0.0139	0.00010	0.00006	0.000010	0.000007	0.00143	< 0.002
26	CA10024-MAR16	2-Mar-16	1000	952	7.41	< 2	7	19	2	2.06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	CA10060-MAR16	9-Mar-16	1000	959	7.42	< 2	8	21	2	2.31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28	CA10097-MAR16	16-Mar-16	1000	947	7.01	< 2	6	21	1	1.94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	CA10141-MAR16	23-Mar-16	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30	CA10176-MAR16	30-Mar-16	1000																																							
31	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
32	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
33	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
35	0	0-Jan-00	1000																																							
36	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
37	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
38	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
40	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Humidity Cell Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: AMQ-ENV-32
Weight: 1 kg
Cell Type Wasterock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	SO4	Ca	Cl	F	Hg	Ag	Al	As	Ba	Be	B	Bi	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Sn	Ti	Tl	U	V	Zn
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10018-SEP15	2-Sep-15	1000	900	7.33	< 2	10	43	2	3.11	2	< 0.06	< 0.00001	< 0.000002	0.01	0.133	0.00452	< 0.000007	0.003	< 0.000007	< 0.000003	0.000114	0.00026	0.00045	< 0.007	5.27	0.000133	1.05	0.00682	0.00028	0.31	0.0015	0.003	0.00004	0.0063	0.00009	0.0141	0.00054	< 0.00005	0.000011	0.000007	0.00276	< 0.002
1	CA10057-SEP15	9-Sep-15	1000	965	7.96	< 2	14	51	3	2.86	2	< 0.06	< 0.00001	0.000006	0.007	0.713	0.00644	< 0.000007	0.0040	< 0.000007	< 0.000003	0.000239	0.00016	0.00041	< 0.007	6.49	0.000273	1.23	0.00649	0.00019	0.26	0.0020	< 0.003	0.00003	0.0135	0.00010	0.0156	0.00024	< 0.00005	0.000012	0.000002	0.00511	< 0.002
2	CA10100-SEP15	16-Sep-15	1000	1002	7.54	< 2	12	41	3	2.09	2	< 0.06	< 0.00001	0.000008	0.004	1.65	0.00449	< 0.000007	0.0035	< 0.000007	< 0.000003	0.000347	0.00027	0.00061	< 0.007	5.75	0.000371	0.977	0.00740	0.00006	0.16	0.0031	< 0.003	< 0.00001	0.0242	0.00013	0.0125	0.00006	< 0.00005	0.000015	0.000004	0.00587	< 0.002
3	CA10135-SEP15	23-Sep-15	1000	1011	8.04	< 2	12	36	3	2.25	1	< 0.06	< 0.00001	0.000002	0.004	2.38	0.00448	< 0.000007	0.0040	< 0.000007	< 0.000003	0.000289	0.00026	0.00019	< 0.007	5.50	0.000343	0.973	0.00608	0.00015	0.08	0.0026	< 0.003	< 0.00001	0.0249	0.00020	0.0120	0.00003	< 0.00005	0.000012	0.000009	0.00627	< 0.002
4	CA10168-SEP15	30-Sep-15	1000	982	7.79	< 2	10	34	2	2.14	< 1	< 0.06	< 0.00001	< 0.000002	0.007	1.64	0.00406	< 0.000007	0.0024	< 0.000007	< 0.000003	0.000188	0.00025	0.00018	0.008	4.21	0.000301	0.766	0.00515	0.00010	0.04	0.0013	< 0.003	< 0.00001	0.0129	0.00018	0.01041	0.00005	0.00014	0.000012	0.000013	0.00527	< 0.002
5	CA10023-OCT15	7-Oct-15	1000	968	7.81	< 2	10	33	2	2.16	< 1	< 0.06	< 0.00001	0.000008	0.009	1.43	0.00367	< 0.000007	0.0016	< 0.000007	< 0.000003	0.000185	0.00030	0.00168	0.009	4.78	0.000314	0.736	0.00447	0.00005	0.03	0.0012	< 0.003	0.00011	0.0104	0.00014	0.00999	0.00052	0.00018	< 0.000005	0.000008	0.00483	0.002
6	CA10061-OCT15	14-Oct-15	1000	995	7.49	< 2	11	29	2	2.02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10093-OCT15	21-Oct-15	1000	1016	7.56	< 2	11	29	1	2.14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10141-OCT15	28-Oct-15	1000	1005	7.79	< 2	11	30	1	2.31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10021-NOV15	4-Nov-15	1000	1002	7.76	< 2	11	30	1	2.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10051-NOV15	11-Nov-15	1000	1007	7.46	< 2	10	27	2	2.24	< 1	< 0.06	< 0.00001	0.000002	0.007	1.22	0.00335	< 0.000007	< 0.0002	< 0.000007	< 0.000003	0.000228	0.00015	0.00023	< 0.007	4.22	0.000332	0.696	0.00605	0.00003	<0.01	0.0017	0.008	< 0.00001	0.0091	0.00017	0.00880	0.00002	< 0.00005	0.000020	0.000004	0.00348	< 0.002
11	CA10082-NOV15	18-Nov-15	1000	964	7.68	< 2	10	27	2	1.91	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10113-NOV15	25-Nov-15	1000	930	7.52	< 2	8	25	2	1.79	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10021-DEC15	2-Dec-15	1000	917	7.48	< 2	11	24	2	1.86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10056-DEC15	9-Dec-15	1000	967	7.43	< 2	10	25	2	1.95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10093-DEC15	16-Dec-15	1000	978	7.33	< 2	10	26	2	1.87	< 1	< 0.06	< 0.00001	< 0.000002	0.005	1.05	0.00264	< 0.000007	0.0013	< 0.000007	0.000004	0.000165	0.00017	0.00020	< 0.007	3.80	0.000384	0.541	0.00376	0.00036	0.05	0.0009	< 0.003	< 0.00001	0.0070	0.00013	0.00621	0.00006	< 0.00005	0.000005	0.000003	0.00342	< 0.002
16	CA10129-DEC15	23-Dec-15	1000	970	7.47	< 2	9	24	2	1.95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	CA10162-DEC15	30-Dec-15	1000	984	7.52	< 2	10	26	2	1.70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	CA10024-JAN16	6-Jan-16	1000	966	7.21	< 2	9	22	2	1.59	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	CA10061-JAN16	13-Jan-16	1000	966	7.36	< 2	9	25	1	1.72	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	CA10102-JAN16	20-Jan-16	1000	935	7.50	< 2	10	26	2	1.75	< 1	< 0.06	< 0.00001	0.000002	0.005	1.12	0.00264	< 0.000007	< 0.002	< 0.000007	< 0.000003	0.000196	0.00018	0.00005	0.007	4.03	0.000400	0.518	0.00266	< 0.00001	<0.01	0.0009	0.003	< 0.00001	0.0051	0.00014	0.00612	0.00010	0.00006	0.000015	< 0.000002	0.00354	< 0.002
21	CA10145-JAN16	27-Jan-16	1000	994	7.49	< 2	9	25	2	2.04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	CA10027-FEB16	3-Feb-16	1000	1005	7.43	< 2	10	26	24	2.07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	CA10069-FEB16	10-Feb-16	1000	999	7.44	< 2	10	26	1	2.11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	CA10110-FEB16	17-Feb-16	1000	1001	7.33	< 2	9	24	1	2.06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	CA10154-FEB16	24-Feb-16	1000	1001	7.39	< 2	8	23	2	2.05	< 1	< 0.06	< 0.00001	< 0.000002	0.002	1.13	0.00340	< 0.000007	< 0.002	< 0.000007	< 0.000003	0.000320	< 0.00003	0.00037	< 0.007	2.20	0.000366	0.587	0.00370	< 0.00001	< 0.01	0.0020	< 0.003	< 0.00001	0.0047	0.00010	0.00670	0.00002	0.00005	0.000016	0.000002	0.00226	< 0.002
26	CA10024-MAR16	2-Mar-16	1000	1003	7.38	< 2	9	24	2	2.19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	CA10060-MAR16	9-Mar-16	1000	1004	7.38	< 2	8	23	2	2.28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28	CA10097-MAR16	16-Mar-16	1000	1000	7.12	< 2	7	18	1	2.45	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	CA10141-MAR16	23-Mar-16	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30	CA10176-MAR16	30-Mar-16	1000																																							
31	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
32	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
33	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
35	0	0-Jan-00	1000																																							
36	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
37	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
38	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
40	0	0-Jan-00	1000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Column Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: Large Column #1 Ultramafic (Oa)
Weight: 42.5kg
Cell Type Wasterock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	Sulphate	Calcium	Chloride	Fluoride	Mercury	Silver	Aluminum	Arsenic	Barium	Beryllium	Boron	Bismuth	Cadmium	Cobalt	Chromium	Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Strontium	Tin	Titanium	Thallium	Uranium	Vanadium	Zinc
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA101089-SEP15	30-Sep-15	4250	2136	8.45	< 2	30	183	28	10.4	15	0.08	0.00003	0.000022	0.013	0.267	0.0229	< 0.000007	0.0402	0.000102	0.000012	0.00131	0.00115	0.00541	0.018	21.4	0.00128	4.15	0.00875	0.00137	5.72	0.0128	0.039	0.00039	0.0075	0.00084	0.116	0.0001	0.00029	0.000023	0.000012	0.0047	< 0.002
1	CA10024-OCT15	7-Oct-15	4250	3680	8.26	< 2	50	400	88	21.8	33	0.15	< 0.00001	0.000018	0.006	11.4	0.0486	< 0.000007	0.163	0.000016	0.000014	0.00466	0.00045	0.00222	< 0.007	45.8	0.00406	11.7	0.0132	0.00364	12.8	0.0747	0.004	0.00028	0.141	0.00301	0.329	< 0.00001	0.00007	0.000058	0.000156	0.0208	< 0.002
2	CA10062-OCT15	14-Oct-15	4250	3863	8.09	< 2	49	384	96	24.0	12	0.12	< 0.00001	0.000006	0.005	14.8	0.0469	< 0.000007	0.128	< 0.000007	< 0.000003	0.00260	0.00032	0.00097	< 0.007	41.9	0.00402	11.5	0.0152	0.00283	9.52	0.0677	< 0.003	0.00010	0.141	0.00227	0.326	0.00006	0.00009	0.000082	0.000166	0.0221	< 0.002
3	CA10094-OCT15	21-Oct-15	4250	3950	8.02	< 2	47	333	84	20.3	5	0.14	< 0.00001	0.000005	0.007	16.1	0.0344	< 0.000007	0.106	< 0.000007	< 0.000003	0.00173	0.00029	0.00079	< 0.007	36.4	0.00427	11.3	0.0159	0.00192	7.11	0.0476	0.027	0.00003	0.129	0.00120	0.263	0.00005	0.00010	0.000078	0.000168	0.0204	< 0.002
4	CA10142-OCT15	28-Oct-15	4250	3982	8.15	< 2	48	295	67	19.3	2	0.13	< 0.00001	< 0.000002	0.007	16.3	0.0373	< 0.000007	0.0930	< 0.000007	0.000004	0.00134	0.00033	0.00079	0.037	33.2	0.00438	9.09	0.0130	0.00153	4.97	0.0362	< 0.003	< 0.00001	0.142	0.00213	0.260	< 0.00001	0.00033	0.000034	0.000165	0.0218	< 0.002
5	CA10022-NOV15	4-Nov-15	4250	4016	8.12	< 2	44	243	53	14.3	2	0.11	< 0.00001	< 0.000002	0.009	13.4	0.0297	< 0.000007	0.0548	< 0.000007	< 0.000003	0.00107	0.00026	0.00044	< 0.007	27.6	0.00257	8.07	0.0101	0.00331	3.54	0.0283	< 0.003	0.00001	0.127	0.00081	0.178	0.00006	0.00008	0.000064	0.000140	0.0210	< 0.002
6	CA10052-NOV15	11-Nov-15	4250	4024	8.05	< 2	42	190	43	14.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10083-NOV15	18-Nov-15	4250	3782	8.14	< 2	45	174	31	11.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10114-NOV15	25-Nov-15	4250	3790	7.97	< 2	36	157	29	11.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10022-DEC15	2-Dec-15	4250	3742	8.00	< 2	41	152	28	11.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10057-DEC15	9-Dec-15	4250	4039	8.13	< 2	38	157	26	11.3	< 1	0.09	< 0.00001	0.000013	0.012	9.02	0.0261	0.000009	0.0316	0.000009	0.000021	0.000534	0.00024	0.00015	0.009	18.8	0.00289	4.74	0.00765	0.00182	1.12	0.0086	< 0.003	< 0.00001	0.0880	0.00075	0.118	0.00009	0.00017	0.000042	0.000098	0.0194	< 0.002
11	CA10094-DEC15	16-Dec-15	4250	3930	8.14	< 2	35	130	22	9.47	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10130-DEC15	23-Dec-15	4250	3976	8.08	< 2	36	136	22	10.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10163-DEC15	30-Dec-15	4250	3930	8.06	< 2	36	137	23	10.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10025-JAN16	6-Jan-16	4250	3936	7.96	< 2	34	136	21	9.58	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10062-JAN16	13-Jan-16	4250	4062	8.00	< 2	35	134	20	9.54	< 1	0.07	< 0.00001	< 0.000002	0.010	6.63	0.0230	< 0.000007	0.0176	< 0.000007	< 0.000003	0.000494	0.00014	0.00010	0.008	13.8	0.00248	3.40	0.00725	0.00065	0.83	0.0056	< 0.003	< 0.00001	0.0635	0.00051	0.0939	0.00003	0.00007	0.000038	0.000073	0.0142	< 0.002
16	CA10103-JAN16	20-Jan-16	4250	3949	8.07	< 2	36	112	19	9.39	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	CA10146-JAN16	27-Jan-16	4250	3973	8.00	< 2	34	116	19	9.29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	CA10028-FEB16	3-Feb-16	4250	3979	7.91	< 2	33	122	18	8.72	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	CA10070-FEB16	10-Feb-16	4250	3956	8.08	< 2	33	123	19	9.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	CA10111-FEB16	17-Feb-16	750	776	8.06	< 2	64	236	42	19.8	< 1	0.10	< 0.00001	< 0.000002	0.006	12.6	0.0560	< 0.000007	0.026	< 0.000007	< 0.000003	0.000735	0.00011	0.00038	< 0.007	20.5	0.00478	6.71	0.0161	0.00072	0.59	0.0089	0.003	< 0.00001	0.101	0.00061	0.177	0.00006	< 0.00005	0.000055	0.000216	0.0158	< 0.002
21	CA10155-FEB16	24-Feb-16	750	728	8.13	< 2	69	280	49	25.3	< 1	0.11	< 0.00001	< 0.000002	0.007	15.1	0.0704	< 0.000007	0.028	< 0.000007	< 0.000003	0.00103	0.00012	0.00064	< 0.007	27.8	0.00607	9.25	0.0212	0.00098	0.78	0.0126	0.008	< 0.00001	0.127	0.00074	0.223	0.00002	< 0.00005	0.000086	0.000287	0.0199	< 0.002
22	CA10025-MAR16	2-Mar-16	750	737	7.51	< 2	56	345	68	27.8	< 1	0.12	< 0.00001	< 0.000002	0.006	18.1	0.0795	< 0.000007	0.032	< 0.000007	< 0.000003	0.00115	0.00013	0.00028	< 0.007	30.5	0.00627	10.3	0.0215	0.00082	0.88	0.0150	< 0.003	< 0.00001	0.140	0.00110	0.256	0.00001	< 0.00005	0.000079	0.000197	0.0215	< 0.002
23	CA10061-MAR16	9-Mar-16	12000 / flooded	11497	8.12	< 2	32	165	37	14.1	< 1	0.06	< 0.00001	< 0.000002	0.010	7.40	0.0292	0.000013	0.019	< 0.000007	0.000006	0.000796	0.00025	0.00055	0.057	17.9	0.00280	4.80	0.00983	0.00047	0.79	0.0095	< 0.003	0.00005	0.0632	0.00070	0.118	< 0.00001	0.00010	0.000077	0.000105	0.0161	0.002
24	CA10098-MAR16	16-Mar-16	4250	4303	8.00	< 2	36	135	24	11.8	< 1	0.07	< 0.00001	0.000002	0.011	7.11	0.0264	< 0.000007	0.017	< 0.000007	< 0.000003	0.000629	0.00017	0.00018	0.011	15.2	0.00270	3.81	0.00964	0.00024	0.50	0.0059	< 0.003	0.00004	0.0571	0.00051	0.107	< 0.00001	0.00028	0.000039	0.000076	0.0145	< 0.002
25	CA10142-MAR16	23-Mar-16	4250																																								
26			4250								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27			4250								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28			4250								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29			4250								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30			4250																																							
31			4250								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
32			4250								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
33			4250								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34			4250								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
35			4250																																							
36			4250								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
37			4250								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
38			4250								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39			4250								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
40			4250																																							

Column Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: Large Column #2 Ultramafic (Oa_alt)
Weight: 40kg
Cell Type Wasterock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	Sulphate	Calcium	Chloride	Fluoride	Mercury	Silver	Aluminum	Arsenic	Barium	Beryllium	Boron	Bismuth	Cadmium	Cobalt	Chromium	Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Strontium	Tin	Titanium	Thallium	Uranium	Vanadium	Zinc
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA101089-SEP15	30-Sep-15	4000	2073	8.50	< 2	38	207	28	8.98	15	0.10	0.00001	0.000016	0.035	0.242	0.00718	< 0.000007	0.0368	0.000068	< 0.000003	0.00025	0.00137	0.00021	0.017	26.4	0.00219	3.25	0.00401	0.00153	8.19	0.0086	0.011	0.00008	0.0128	0.0004	0.0609	0.00011	0.00021	0.000009	0.000019	0.00273	< 0.002
1	CA10024-OCT15	7-Oct-15	4000	3978	8.25	28	69	542	90	24.3	88	0.15	< 0.00001	0.000565	0.008	11.6	0.0228	< 0.000007	0.159	0.000105	< 0.000003	0.00298	0.00029	0.00083	< 0.007	61.2	0.00548	13.4	0.0225	0.00960	26.6	0.136	< 0.003	0.00011	0.252	0.00159	0.225	0.00005	0.00009	0.000009	0.000855	0.0157	< 0.002
2	CA10062-OCT15	14-Oct-15	4000	4193	8.12	< 2	63	468	110	25.7	22	0.13	< 0.00001	0.000036	0.008	15.3	0.0225	< 0.000007	0.134	< 0.000007	0.000055	0.00298	0.00017	0.000045	< 0.007	51.9	0.00518	12.2	0.0273	0.00774	20.2	0.112	< 0.003	0.00006	0.289	0.00294	0.219	0.00009	0.00007	0.000039	0.000859	0.0162	< 0.002
3	CA10094-OCT15	21-Oct-15	4000	4212	8.09	< 2	60	398	93	22.5	7	0.13	< 0.00001	0.000007	0.009	17.7	0.0157	< 0.000007	0.115	< 0.000007	0.000003	0.00251	0.00015	0.00039	< 0.007	43.0	0.00487	11.9	0.0323	0.00423	14.9	0.0880	0.049	< 0.00001	0.230	0.00092	0.170	0.00006	< 0.00005	0.000037	0.000744	0.0151	< 0.002
4	CA10142-OCT15	28-Oct-15	4000	4232	8.09	< 2	56	324	76	18.5	1	0.12	< 0.00001	< 0.000002	0.009	17.4	0.0160	< 0.000007	0.0768	< 0.000007	< 0.000003	0.00180	0.00015	0.00039	0.036	35.0	0.00442	8.85	0.0234	0.00283	10.4	0.0634	< 0.003	< 0.00001	0.235	0.00077	0.167	< 0.00001	0.00034	< 0.000005	0.000612	0.0151	< 0.002
5	CA10022-NOV15	4-Nov-15	4000	4249	8.19	< 2	54	286	66	15.1	< 1	0.11	< 0.00001	< 0.000002	0.012	14.8	0.0127	< 0.000007	0.0508	< 0.000007	< 0.000003	0.00138	0.00014	0.00005	< 0.007	30.7	0.00263	8.64	0.0181	0.00256	8.36	0.0486	< 0.003	< 0.00001	0.204	0.00081	0.121	0.00003	0.00008	0.000012	0.000547	0.0143	< 0.002
6	CA10052-NOV15	11-Nov-15	4000	4274	8.07	< 2	49	225	55	15.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10083-NOV15	18-Nov-15	4000	4157	8.14	< 2	46	247	58	15.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10114-NOV15	25-Nov-15	4000	4176	7.99	< 2	43	240	62	16.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10022-DEC15	2-Dec-15	4000	4118	8.14	< 2	43	225	61	16.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10057-DEC15	9-Dec-15	4000	4275	8.01	< 2	41	225	56	15.9	< 1	0.08	< 0.00001	0.000005	0.017	7.69	0.0122	0.000009	0.0348	0.000013	0.000009	0.000666	0.00015	0.00017	< 0.007	25.7	0.00348	6.34	0.0161	0.00177	3.57	0.0137	< 0.003	0.00002	0.124	0.00075	0.105	0.00013	0.00011	< 0.000005	0.000362	0.0120	< 0.002
11	CA10094-DEC15	16-Dec-15	4000	4161	8.10	< 2	38	189	49	13.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10130-DEC15	23-Dec-15	4000	4221	8.01	< 2	38	216	57	15.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10163-DEC15	30-Dec-15	4000	4168	7.93	< 2	37	213	59	15.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10025-JAN16	6-Jan-16	4000	4136	8.02	< 2	38	229	61	16.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10062-JAN16	13-Jan-16	4000	4333	7.97	< 2	37	221	62	17.0	< 1	0.07	< 0.00001	< 0.000002	0.017	5.23	0.0139	< 0.000007	0.0200	< 0.000007	< 0.000003	0.000602	0.00005	< 0.00002	< 0.007	21.9	0.00336	5.13	0.0184	0.00076	2.24	0.0113	< 0.003	< 0.00001	0.0821	0.00038	0.103	< 0.00001	< 0.00005	0.000007	0.000276	0.00748	< 0.002
16	CA10103-JAN16	20-Jan-16	4000	4186	7.98	< 2	35	187	55	16.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	CA10146-JAN16	27-Jan-16	4000	4222	8.00	< 2	37	201	58	17.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	CA10028-FEB16	3-Feb-16	4000	4235	7.84	< 2	34	197	54	15.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	CA10070-FEB16	10-Feb-16	4000	4206	7.91	< 2	35	201	54	15.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	CA10111-FEB16	17-Feb-16	750	787	8.01	< 2	61	421	120	36.7	< 1	0.11	< 0.00001	< 0.000002	0.014	9.16	0.0353	< 0.000007	0.029	< 0.000007	< 0.000003	0.00104	0.00008	0.00031	< 0.007	34.6	0.00638	10.5	0.0387	0.00156	2.45	0.0203	< 0.003	< 0.00001	0.133	0.00062	0.203	0.00008	< 0.00005	0.000013	0.000681	0.00746	< 0.002
21	CA10155-FEB16	24-Feb-16	750	731	8.11	< 2	68	487	120	45.6	< 1	0.12	< 0.00001	< 0.000002	0.013	10.1	0.0460	< 0.000007	0.032	< 0.000007	< 0.000003	0.00143	< 0.00003	0.00045	< 0.007	45.4	0.00771	13.3	0.0510	0.00200	3.19	0.0286	0.003	< 0.00001	0.156	0.00071	0.244	0.00008	< 0.00005	0.000022	0.000688	0.00887	< 0.002
22	CA10025-MAR16	2-Mar-16	750	724	8.01	< 2	64	532	180	50.2	< 1	0.14	< 0.00001	< 0.000002	0.012	11.6	0.0531	< 0.000007	0.038	< 0.000007	< 0.000003	0.00166	0.00003	0.00026	< 0.007	50.9	0.00813	15.1	0.0550	0.00222	3.51	0.0358	< 0.003	0.00002	0.175	0.00111	0.281	0.00002	< 0.00005	0.000017	0.000610	0.00953	< 0.002
23	CA10061-MAR16	9-Mar-16	12000 / flooded	11721	8.09	< 2	33	211	55	18.8	< 1	0.06	< 0.00001	< 0.000002	0.019	5.28	0.0145	< 0.000007	0.016	< 0.000007	< 0.000003	0.000728	0.00006	0.00066	0.010	22.3	0.00341	5.23	0.0196	0.00071	1.54	0.0125	< 0.003	< 0.00001	0.0722	0.00034	0.0982	< 0.00001	< 0.00005	0.000017	0.000255	0.00776	< 0.002
24	CA10098-MAR16	16-Mar-16	4000	4496	7.85	< 2	40	189	48	17.5	< 1	0.08	< 0.00001	0.000003	0.020	5.67	0.0140	< 0.000007	0.017	< 0.000007	< 0.000003	0.000535	0.00010	0.00007	< 0.007	21.5	0.00369	4.42	0.0179	0.00053	1.30	0.0083	< 0.003	0.00004	0.0717	0.00034	0.0932	< 0.00001	< 0.00005	< 0.000005	0.000295	0.00738	< 0.002
25	CA10142-MAR16	23-Mar-16	4000																																								
26	0	0-Jan-00	4000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	0	0-Jan-00	4000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28	0	0-Jan-00	4000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	0	0-Jan-00	4000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30	0	0-Jan-00	4000																																							
31	0	0-Jan-00	4000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
32	0	0-Jan-00	4000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
33	0	0-Jan-00	4000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34	0	0-Jan-00	4000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
35	0	0-Jan-00	4000																																							
36	0	0-Jan-00	4000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
37	0	0-Jan-00	4000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
38	0	0-Jan-00	4000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39	0	0-Jan-00	4000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
40	0	0-Jan-00	4000																																							

Column Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: Large Column #3 Greywacke (Inside Ore)
Weight: 45kg
Cell Type Wasterock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	Sulphate	Calcium	Chloride	Fluoride	Mercury	Silver	Aluminum	Arsenic	Barium	Beryllium	Boron	Bismuth	Cadmium	Cobalt	Chromium	Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Strontium	Tin	Titanium	Thallium	Uranium	Vanadium	Zinc
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10189-SEP15	30-Sep-15	4500	1678	7.79	< 2	48	562	140	27.4	18	0.29	0.00002	0.000007	0.118	0.0287	0.017	< 0.000007	0.0286	0.000037	< 0.000003	0.000282	0.00006	0.00106	0.033	69.2	0.0156	4.2	0.0859	0.00338	23.3	0.0051	0.012	0.00004	0.0019	0.00242	0.102	0.0104	0.00019	0.000022	0.00271	0.00021	< 0.002
1	CA10024-OCT15	7-Oct-15	4500	4267	8.08	< 2	87	1430	550	70.4	34	0.58	< 0.00001	0.000018	0.037	0.0324	0.0465	< 0.000007	0.140	< 0.000007	0.000034	0.000993	< 0.00003	0.00075	0.009	208	0.0149	18.9	0.178	0.0206	79.9	0.0116	< 0.003	0.00027	0.0159	0.00975	0.369	0.00449	0.00014	0.000019	0.0333	0.00049	< 0.002
2	CA10162-OCT15	14-Oct-15	4500	4460	7.92	< 2	73	1040	390	61.2	7	0.52	< 0.00001	0.000006	0.042	0.0245	0.0304	< 0.000007	0.121	< 0.000007	0.000025	0.000729	< 0.00003	0.00062	< 0.007	142	0.0117	15.4	0.150	0.0202	52.4	0.0073	< 0.003	0.00014	0.0097	0.00853	0.287	0.00317	0.00014	0.000040	0.0280	0.00048	< 0.002
3	CA10094-OCT15	21-Oct-15	4500	4499	7.90	< 2	60	763	270	44.5	2	0.56	< 0.00001	0.000006	0.054	0.0261	0.0156	< 0.000007	0.104	< 0.000007	0.000014	0.000468	< 0.00003	0.00055	< 0.007	93.7	0.00975	12.8	0.0992	0.0155	34.4	0.0043	0.022	0.00004	0.0075	0.00417	0.181	0.00238	< 0.00005	0.000039	0.0208	0.00047	< 0.002
4	CA10142-OCT15	28-Oct-15	4500	4508	8.08	< 2	61	603	200	37.8	< 1	0.54	< 0.00001	< 0.000002	0.047	0.0289	0.0156	< 0.000007	0.0703	< 0.000007	0.000011	0.000395	0.00005	0.00081	0.082	68.5	0.00872	8.49	0.0742	0.0134	23.0	0.0035	< 0.003	0.00004	0.0092	0.00294	0.194	0.00262	0.00087	< 0.000005	0.0164	0.00065	< 0.002
5	CA10022-NOV15	4-Nov-15	4500	4528	8.07	< 2	57	494	140	31.3	< 1	0.51	< 0.00001	< 0.000002	0.068	0.0260	0.0125	< 0.000007	0.0471	< 0.000007	0.000008	0.000299	< 0.00003	0.00051	0.010	55.4	0.00499	7.97	0.0620	0.0102	18.4	0.0018	< 0.003	0.00003	0.0072	0.00223	0.118	0.00270	0.00012	0.000010	0.0130	0.00056	< 0.002
6	CA10052-NOV15	11-Nov-15	4500	4568	8.03	< 2	59	449	150	39.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10083-NOV15	18-Nov-15	4500	4464	8.02	< 2	59	674	240	67.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10114-NOV15	25-Nov-15	4500	4493	7.73	< 2	57	832	360	107	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10022-DEC15	2-Dec-15	4500	4517	7.87	< 2	56	869	400	129	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10057-DEC15	9-Dec-15	4500	4595	7.89	< 2	53	869	370	120	< 1	0.34	< 0.00001	0.000010	0.030	0.0423	0.0280	0.000011	0.0402	0.000011	0.000056	0.00150	< 0.00003	0.00054	< 0.007	56.4	0.00908	12.4	0.341	0.00578	10.9	0.0031	< 0.003	0.00004	0.0032	0.00163	0.293	0.00295	< 0.00005	0.000008	0.0160	0.00027	< 0.002
11	CA10094-DEC15	16-Dec-15	4500	4473	7.69	< 2	46	702	330	97.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10130-DEC15	23-Dec-15	4500	4525	7.74	< 2	48	741	330	114	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10163-DEC15	30-Dec-15	4500	4446	7.74	< 2	44	704	320	97.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10025-JAN16	6-Jan-16	4500	4458	7.80	< 2	46	729	320	105	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10062-JAN16	13-Jan-16	4500	4640	7.79	< 2	48	722	310	103	< 1	0.28	< 0.00001	< 0.000002	0.026	0.00906	0.0166	< 0.000007	0.0247	< 0.000007	0.000031	0.00106	< 0.00003	0.00033	< 0.007	32.1	0.00567	6.85	0.295	0.00446	5.33	0.0019	< 0.003	< 0.00001	0.0019	0.00076	0.194	0.00155	< 0.00005	0.000009	0.00881	0.00015	< 0.002
16	CA10103-JAN16	20-Jan-16	4500	4479	7.78	< 2	45	623	300	107	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	CA10146-JAN16	27-Jan-16	4500	4512	7.83	< 2	42	658	290	112	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	CA10028-FEB16	3-Feb-16	4500	4512	7.74	< 2	44	651	290	101	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	CA10070-FEB16	10-Feb-16	4500	4485	7.67	< 2	43	668	270	109	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	CA10111-FEB16	17-Feb-16	750	779	7.95	< 2	66	1110	500	202	< 1	0.34	< 0.00001	< 0.000002	0.013	0.0117	0.0268	< 0.000007	0.031	< 0.000007	0.000038	0.00109	< 0.00003	0.00034	< 0.007	28.6	0.00532	9.74	0.317	0.00896	4.44	0.0029	< 0.003	< 0.00001	0.0016	0.00099	0.326	0.00322	< 0.00005	0.000011	0.0147	0.00015	< 0.002
21	CA10155-FEB16	24-Feb-16	750	745	8.01	< 2	64	1490	680	324	< 1	0.34	< 0.00001	< 0.000002	0.014	0.0119	0.0433	< 0.000007	0.038	< 0.000007	0.000056	0.00164	< 0.00003	0.00074	< 0.007	43.0	0.00682	16.0	0.455	0.0124	6.79	0.0044	< 0.003	0.00003	0.0018	0.00135	0.497	0.00442	< 0.00005	0.000026	0.0201	0.00013	0.002
22	CA10025-MAR16	2-Mar-16	750	755	7.88	< 2	63	1760	930	401	< 1	0.33	< 0.00001	0.000002	0.012	0.0094	0.0550	< 0.000007	0.044	< 0.000007	0.000064	0.00194	< 0.00003	0.00053	< 0.007	48.9	0.00697	18.3	0.493	0.0146	7.47	0.0061	< 0.003	0.00002	0.0022	0.00192	0.610	0.00446	< 0.00005	0.000018	0.0207	0.00013	0.003
23	CA10061-MAR16	9-Mar-16	10000 / flooded	9820	7.77	< 2	44	939	430	194	< 1	0.29	< 0.00001	< 0.000002	0.021	0.0095	0.0234	< 0.000007	0.030	< 0.000007	0.000044	0.00121	< 0.00003	0.00057	< 0.007	32.4	0.00522	9.89	0.218	0.00693	4.96	0.0028	< 0.003	0.00002	0.0014	0.00084	0.285	0.00194	< 0.00005	0.000014	0.00839	0.00011	< 0.002
24	CA10098-MAR16	16-Mar-16	4500	4752	7.75	< 2	48	672	310	128	< 1	0.28	< 0.00001	0.000002	0.024	0.0107	0.0141	< 0.000007	0.026	< 0.000007	0.000035	0.000653	< 0.00003	0.00026	< 0.007	23.2	0.00413	5.70	0.102	0.00675	3.33	0.0015	< 0.003	0.00002	0.0013	0.00084	0.200	0.00139	< 0.00005	< 0.000005	0.006522	0.00013	< 0.002
25	CA10142-MAR16	23-Mar-16	4500																																							
26	0	0-Jan-00	4500								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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40	0	0-Jan-00	4500																																							

Column Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: Large Column #4 Greywacke (Outside Ore)
Weight: 60kg
Cell Type Wasterock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	Sulphate	Calcium	Chloride	Fluoride	Mercury	Silver	Aluminum	Arsenic	Barium	Beryllium	Boron	Bismuth	Cadmium	Cobalt	Chromium	Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Strontium	Tin	Titanium	Thallium	Uranium	Vanadium	Zinc
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA101089-SEP15	30-Sep-15	6000	2597	7.94	< 2	38	304	73	19.6	14	0.21	0.00003	< 0.000002	0.04	0.0159	0.0308	< 0.000007	0.0225	< 0.000007	0.000011	0.000242	0.00039	0.00139	0.007	30.4	0.00375	5.52	0.00928	0.00548	8.22	0.0027	0.011	0.00038	0.0025	0.00158	0.108	0.00046	0.0003	0.000028	0.000781	0.00178	< 0.002
1	CA10024-OCT15	7-Oct-15	6000	5555	8.15	< 2	58	564	180	48.4	20	0.36	< 0.00001	0.000041	0.038	0.0343	0.0590	< 0.000007	0.0733	0.000013	0.000060	0.000792	0.00007	0.00227	< 0.007	47.0	0.0119	16.4	0.0598	0.0203	14.1	0.0082	< 0.003	0.00130	0.0077	0.00365	0.301	0.00036	0.00007	0.000065	0.0189	0.00262	< 0.002
2	CA10062-OCT15	14-Oct-15	6000	5929	8.00	< 2	54	459	140	41.7	7	0.35	< 0.00001	0.000003	0.042	0.0464	0.0460	< 0.000007	0.0649	< 0.000007	0.000065	0.000760	0.00007	0.00157	< 0.007	37.1	0.00976	12.5	0.0523	0.0197	9.99	0.0057	< 0.003	0.00066	0.0060	0.00361	0.244	0.00039	0.00012	0.000073	0.0159	0.00281	< 0.002
3	CA10094-OCT15	21-Oct-15	6000	5999	7.90	< 2	47	338	96	28.5	3	0.38	< 0.00001	< 0.000002	0.058	0.0357	0.0266	< 0.000007	0.0634	< 0.000007	0.000020	0.000421	0.00006	0.00096	< 0.007	27.2	0.00850	9.76	0.0388	0.0135	6.91	0.0041	0.055	0.00025	0.0049	0.00166	0.149	0.00026	0.00014	0.000063	0.0107	0.00279	< 0.002
4	CA10142-OCT15	28-Oct-15	6000	6010	8.14	< 2	46	259	64	22.1	1	0.37	< 0.00001	< 0.000002	0.056	0.0431	0.0275	< 0.000007	0.0369	< 0.000007	0.000013	0.000320	0.00009	0.00099	0.040	22.6	0.00719	6.23	0.0277	0.0101	4.75	0.0025	< 0.003	0.00017	0.0051	0.00134	0.139	0.00008	0.00040	0.000024	0.00590	0.00320	< 0.002
5	CA10022-NOV15	4-Nov-15	6000	6019	8.14	< 2	46	223	54	17.6	< 1	0.35	< 0.00001	< 0.000002	0.079	0.0427	0.0242	< 0.000007	0.0239	< 0.000007	0.000017	0.000273	< 0.00003	0.00046	< 0.007	19.5	0.00388	5.82	0.0218	0.00819	3.90	0.0017	< 0.003	0.00014	0.0049	0.00212	0.100	0.00020	0.00009	0.000032	0.00490	0.00333	< 0.002
6	CA10052-NOV15	11-Nov-15	6000	6044	8.03	< 2	42	198	52	19.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10083-NOV15	18-Nov-15	6000	5753	8.10	< 2	43	229	60	21.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10114-NOV15	25-Nov-15	6000	5746	7.89	< 2	46	318	100	34.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10022-DEC15	2-Dec-15	6000	5742	7.85	< 2	46	386	130	48.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10057-DEC15	9-Dec-15	6000	6045	7.87	< 2	44	390	130	44.6	< 1	0.24	< 0.00001	0.000007	0.059	0.0633	0.0534	0.000008	0.0218	0.000011	0.000015	0.000605	0.00004	0.00067	< 0.007	25.8	0.00826	9.25	0.0494	0.00482	2.19	0.0017	< 0.003	0.00011	0.0043	0.00101	0.242	0.00034	0.00008	0.000044	0.0186	0.00282	< 0.002
11	CA10094-DEC15	16-Dec-15	6000	5902	7.85	< 2	39	278	96	32.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10130-DEC15	23-Dec-15	6000	5969	7.92	< 2	39	271	87	31.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10163-DEC15	30-Dec-15	6000	5856	7.87	< 2	40	257	84	26.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10025-JAN16	6-Jan-16	6000	5913	7.91	< 2	38	245	72	25.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10062-JAN16	13-Jan-16	6000	6177	7.90	< 2	40	234	69	23.7	< 1	0.21	< 0.00001	< 0.000002	0.071	0.0632	0.0266	< 0.000007	0.0128	< 0.000007	0.000006	0.000264	0.00004	0.00016	< 0.007	16.2	0.00510	3.86	0.0200	0.00255	1.22	0.0006	< 0.003	0.00003	0.0028	0.00062	0.128	0.00015	0.00012	0.000024	0.00651	0.00260	< 0.002
16	CA10103-JAN16	20-Jan-16	6000	5966	7.89	< 2	36	185	58	22.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	CA10146-JAN16	27-Jan-16	6000	5887	7.89	< 2	37	190	57	21.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	CA10028-FEB16	3-Feb-16	6000	6010	7.73	< 2	47	191	52	20.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	CA10070-FEB16	10-Feb-16	6000	5968	7.87	< 2	37	192	53	20.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	CA10111-FEB16	17-Feb-16	750	785	7.95	< 2	57	346	96	39.4	< 1	0.27	< 0.00001	< 0.000002	0.041	0.0805	0.0493	< 0.000007	0.014	< 0.000007	0.000011	0.000257	0.00004	0.00049	< 0.007	20.3	0.00617	5.97	0.0235	0.00482	1.19	0.0007	< 0.003	0.00004	0.0032	0.00088	0.215	0.00034	< 0.00005	0.000045	0.0153	0.00259	< 0.002
21	CA10155-FEB16	24-Feb-16	750	748	8.15	< 2	66	493	130	65.8	< 1	0.29	< 0.00001	< 0.000002	0.037	0.0757	0.115	< 0.000007	0.028	< 0.000007	0.000012	0.000458	0.00003	0.00089	< 0.007	30.0	0.0119	10.1	0.0395	0.00783	1.90	0.0011	< 0.003	0.00013	0.0058	0.00116	0.339	0.00098	< 0.00005	0.000113	0.0431	0.00288	< 0.002
22	CA10025-MAR16	2-Mar-16	750	742	8.01	< 2	65	572	220	78.9	< 1	0.29	< 0.00001	< 0.000002	0.033	0.0858	0.0996	< 0.000007	0.024	< 0.000007	0.000024	0.000407	0.00004	0.00174	< 0.007	35.0	0.00896	12.6	0.0373	0.00950	2.30	0.0014	< 0.003	0.00009	0.0043	0.00230	0.421	0.00066	< 0.00005	0.000080	0.0368	0.00298	< 0.002
23	CA10061-MAR16	9-Mar-16	13500 / flooded	13076	7.95	< 2	38	304	94	38.4	< 1	0.22	< 0.00001	< 0.000002	0.067	0.0915	0.0385	< 0.000007	0.012	< 0.000007	0.000010	0.000303	0.00009	0.00049	0.007	20.1	0.00579	5.92	0.0137	0.00443	1.08	0.0008	< 0.003	0.00006	0.0026	0.00073	0.193	0.00013	0.00025	0.000049	0.0136	0.00289	< 0.002
24	CA10098-MAR16	16-Mar-16	6000	6412	7.68	< 2	40	195	55	24.1	< 1	0.22	< 0.00001	< 0.000002	0.081	0.104	0.0261	< 0.000007	0.013	< 0.000007	< 0.000003	0.000180	0.00009	0.00025	< 0.007	16.2	0.00464	3.44	0.00650	0.00329	0.75	0.0005	< 0.003	0.00012	0.0026	0.00063	0.127	0.00005	0.00029	0.000034	0.005673	0.00320	< 0.002
25	CA10142-MAR16	23-Mar-16	6000																																							
26	0	0-Jan-00	6000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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34	0	0-Jan-00	6000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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36	0	0-Jan-00	6000								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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40	0	0-Jan-00	6000																																							

Column Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: Large Column #5 Ultramafic (Ob)
Weight: 26.4kg
Cell Type Wasterock

Analyte			Leachate Volume	Leachate Volume	pH	Acidity	Alkalinity	Conductivity	Sulphate	Calcium	Chloride	Fluoride	Mercury	Silver	Aluminum	Arsenic	Barium	Beryllium	Boron	Bismuth	Cadmium	Cobalt	Chromium	Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Strontium	Tin	Titanium	Thallium	Uranium	Vanadium	Zinc
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10149-OCT15	28-Oct-15	2640	754	8.39	< 2	40	320	85	22.3	12	0.15	< 0.00001	0.000006	0.024	0.069	0.0904	< 0.000007	0.0225	< 0.000007	< 0.000003	0.000223	0.00046	0.00086	0.07	33.7	0.00518	7.9	0.0114	0.00704	5.82	0.0042	0.005	0.00013	0.0046	0.00227	0.185	0.00252	0.00046	0.000033	0.000568	0.00316	< 0.002
1	CA10023-NOV15	4-Nov-15	2640	2456	8.10	< 2	75	714	210	50.1	30	0.23	< 0.00001	0.000095	0.016	0.676	0.0879	< 0.000007	0.0541	0.000023	0.000011	0.00188	0.00015	0.00083	< 0.007	66.0	0.00997	25.1	0.0507	0.0236	13.7	0.0356	< 0.003	0.00035	0.0137	0.00470	0.370	0.00051	0.00006	0.000104	0.00997	0.00668	< 0.002
2	CA10053-NOV15	11-Nov-15	2640	2681	8.06	< 2	69	612	230	53.5	11	0.22	< 0.00001	< 0.000002	0.020	1.06	0.0526	< 0.000007	0.0508	0.000008	0.000021	0.00245	0.00011	0.00052	< 0.007	62.1	0.0147	22.4	0.0673	0.0181	10.2	0.0341	0.005	0.00016	0.0146	0.00399	0.383	0.00030	0.00006	0.000115	0.0130	0.00882	< 0.002
3	CA10084-NOV15	18-Nov-15	2640	2710	8.12	< 2	61	527	160	40.9	5	0.30	< 0.00001	0.000004	0.023	1.52	0.0405	< 0.000007	0.0493	0.000008	0.000010	0.00183	0.00012	0.00050	< 0.007	48.4	0.0141	17.0	0.0494	0.0170	6.83	0.0236	0.006	0.00006	0.0160	0.00279	0.261	0.00030	0.00018	0.000104	0.00859	0.0110	< 0.002
4	CA10115-NOV15	25-Nov-15	2640	2580	7.94	< 2	55	417	120	32.6	2	0.20	< 0.00001	< 0.000002	0.029	2.08	0.0432	< 0.000007	0.0391	< 0.000007	0.000003	0.00150	0.00013	0.00054	< 0.007	41.6	0.0112	12.9	0.0373	0.0131	4.62	0.0167	< 0.003	0.00004	0.0143	0.00191	0.219	0.00024	0.00009	0.000098	0.00588	0.0141	< 0.002
5	CA10023-DEC15	2-Dec-15	2640	2737	8.06	< 2	52	315	96	25.9	1	0.18	< 0.00001	< 0.000002	0.036	2.09	0.0398	< 0.000007	0.0328	< 0.000007	0.000008	0.00119	0.00015	0.00050	< 0.007	36.9	0.0102	10.7	0.0315	0.00820	3.54	0.0110	< 0.003	0.00007	0.0136	0.00250	0.180	0.00033	0.00012	0.000087	0.00441	0.0143	< 0.002
6	CA10058-DEC15	9-Dec-15	2640	2557	8.08	< 2	49	274	76	20.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10095-DEC15	16-Dec-15	2640	2678	7.92	< 2	44	222	62	16.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10131-DEC15	23-Dec-15	2640	2600	7.98	< 2	44	211	52	16.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10164-DEC15	30-Dec-15	2640	2692	8.09	< 2	47	206	50	14.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10026-JAN16	6-Jan-16	2640	2664	8.01	< 2	42	193	41	13.2	< 1	0.13	< 0.00001	< 0.000002	0.039	1.84	0.0348	< 0.000007	0.0114	< 0.000007	< 0.000003	0.000543	0.00019	0.00012	< 0.007	19.4	0.00598	4.79	0.0155	0.00283	0.90	0.0031	< 0.003	< 0.00001	0.0079	0.00093	0.0924	0.00003	0.00025	0.000022	0.00239	0.0120	< 0.002
11	CA10063-JAN16	13-Jan-15	2640	2650	7.93	< 2	47	194	39	12.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10104-JAN16	20-Jan-16	2640	2694	8.08	< 2	48	182	36	13.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10147-JAN16	27-Jan-16	2640	2663	7.96	< 2	43	149	33	12.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10028-FEB16	3-Feb-16	2640	2628	7.98	< 2	43	155	30	11.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10071-FEB16	10-Feb-16	2640	2652	8.08	< 2	42	162	30	11.6	< 1	0.10	< 0.00001	< 0.000002	0.042	1.99	0.0354	< 0.000007	0.009	< 0.000007	< 0.000003	0.000424	0.00012	0.00027	< 0.007	17.0	0.00502	4.07	0.0131	0.00185	0.51	0.0018	< 0.003	0.00001	0.0072	0.00106	0.0805	0.00038	0.00023	0.000041	0.00220	0.0114	< 0.002
16	CA10112-FEB16	17-Feb-16	750	760	7.99	< 2	58	232	48	18.2	< 1	0.13	< 0.00001	< 0.000002	0.025	2.87	0.0659	< 0.000007	0.014	< 0.000007	0.000006	0.000762	0.00014	0.00036	< 0.007	21.9	0.00706	6.43	0.0202	0.00321	0.71	0.0034	0.004	0.00002	0.0098	0.00124	0.127	0.00011	< 0.00005	0.000049	0.00463	0.0115	< 0.002
17	CA10116-FEB16	24-Feb-16	750	772	8.16	< 2	64	262	48	22.2	< 1	0.13	< 0.00001	< 0.000002	0.028	3.04	0.0748	< 0.000007	0.012	< 0.000007	< 0.000003	0.000944	0.00015	0.00046	< 0.007	26.7	0.00794	7.95	0.0249	0.00380	0.84	0.0040	< 0.003	0.00001	0.0114	0.00197	0.144	0.00008	0.00028	0.000069	0.00584	0.0128	< 0.002
18	CA10026-MAR16	2-Mar-16	750	765	8.06	< 2	61	281	63	22.9	< 1	0.14	< 0.00001	< 0.000002	0.028	3.33	0.0820	< 0.000007	0.013	< 0.000007	0.000005	0.000997	0.00015	0.00028	< 0.007	28.3	0.00820	8.69	0.0258	0.00478	0.91	0.0046	< 0.003	0.00003	0.0116	0.00159	0.156	0.00007	0.00012	0.000061	0.00617	0.0132	< 0.002
19	CA10062-MAR16	9-Mar-16	4000 / flooded	3999	8.07	< 2	36	144	26	12.2	< 1	0.07	< 0.00001	< 0.000002	0.048	2.23	0.0359	< 0.000007	0.008	< 0.000007	< 0.000003	0.000498	0.00030	0.00025	0.014	17.2	0.00486	4.14	0.0124	0.00188	0.43	0.0023	0.004	0.00004	0.0063	0.00085	0.0795	0.00002	0.00064	0.000042	0.00220	0.0119	< 0.002
20	CA10099-MAR16	16-Mar-16	2640	2750	8.06	< 2	42	147	25	12.1	< 1	0.09	< 0.00001	< 0.000002	0.047	2.31	0.0366	< 0.000007	0.010	< 0.000007	< 0.000003	0.000444	0.00018	0.00010	0.008	17.4	0.00485	3.83	0.0124	0.00168	0.41	0.0017	< 0.003	0.00002	0.0067	0.00088	0.0832	< 0.00001	0.00025	0.000035	0.00232	0.0114	< 0.002
21	CA10143-MAR16	23-Mar-16	2640								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22			2640								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23			2640								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24			2640								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25			2640																																							

Column Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: Large Column #6 Greywacke (S10e)
Weight: 28.8kg
Cell Type Wasterock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	Sulphate	Calcium	Chloride	Fluoride	Mercury	Silver	Aluminum	Arsenic	Barium	Beryllium	Boron	Bismuth	Cadmium	Cobalt	Chromium	Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Strontium	Tin	Titanium	Thallium	Uranium	Vanadium	Zinc
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10149-OCT15	28-Oct-15	2880	670	8.31	< 2	50	521	140	19.4	29	0.29	< 0.00001	0.000014	0.02	0.0336	0.0155	< 0.000007	0.0523	0.000024	0.000003	0.000164	0.00013	0.00057	0.048	57.6	0.00363	4.67	0.0172	0.00356	38.1	0.0037	0.004	0.00017	0.0072	0.00159	0.123	0.00504	0.0008	< 0.000005	0.00121	0.00034	< 0.002
1	CA10023-NOV15	4-Nov-15	2880	2639	8.19	< 2	120	1430	460	48.0	42	0.63	< 0.00001	0.000039	0.019	0.105	0.0483	< 0.000007	0.137	0.000010	0.000020	0.00122	< 0.00003	0.00031	< 0.007	133	0.00536	19.4	0.114	0.0146	148	0.0265	< 0.003	0.00017	0.0212	0.00531	0.261	0.00070	0.00006	0.000015	0.0146	0.00033	< 0.002
2	CA10053-NOV15	11-Nov-15	2880	2944	8.10	< 2	99	1480	700	78.1	18	0.71	< 0.00001	0.000003	0.023	0.0941	0.0389	< 0.000007	0.145	0.000009	0.000010	0.00209	< 0.00003	0.00023	< 0.007	147	0.00961	25.5	0.222	0.0123	140	0.0314	0.009	0.00008	0.0148	0.00499	0.378	0.00037	< 0.00005	0.000022	0.0159	0.00030	< 0.002
3	CA10084-NOV15	18-Nov-15	2880	2967	8.08	< 2	90	1400	610	80.4	9	0.74	< 0.00001	0.000003	0.024	0.107	0.0321	0.000008	0.132	0.000012	0.000011	0.00226	< 0.00003	0.00036	< 0.007	127	0.0102	23.9	0.197	0.0115	109	0.0284	0.003	0.00003	0.0118	0.00386	0.332	0.00035	0.00013	0.000022	0.0108	0.00031	< 0.002
4	CA10115-NOV15	25-Nov-15	2880	2815	7.92	< 2	72	1190	490	82.3	4	0.69	< 0.00001	0.000002	0.027	0.118	0.0284	< 0.000007	0.113	< 0.000007	0.000014	0.00248	< 0.00003	0.00035	< 0.007	105	0.00945	20.8	0.192	0.00961	77.7	0.0250	< 0.003	0.00004	0.0089	0.00246	0.319	0.00026	< 0.00005	0.000036	0.00795	0.00035	< 0.002
5	CA10023-DEC15	2-Dec-15	2880	3009	8.00	< 2	69	1010	430	82.4	2	0.72	< 0.00001	< 0.000002	0.029	0.109	0.0253	< 0.000007	0.100	< 0.000007	0.000028	0.00234	< 0.00003	0.00034	< 0.007	96.5	0.00917	20.3	0.213	0.00790	65.8	0.0214	< 0.003	0.00006	0.0076	0.00393	0.313	0.00034	< 0.00005	0.000034	0.00704	0.00038	< 0.002
6	CA10058-DEC15	9-Dec-15	2880	2772	7.98	< 2	75	1040	420	104	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	CA10095-DEC15	16-Dec-15	2880	2892	7.84	< 2	74	1010	440	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	CA10131-DEC15	23-Dec-15	2880	2871	7.78	< 2	72	1190	500	172	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	CA10164-DEC15	30-Dec-15	2880	2928	7.62	< 2	74	1370	680	204	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	CA10026-JAN16	6-Jan-16	2880	2894	7.81	< 2	65	1440	720	231	< 1	0.45	< 0.00001	< 0.000002	0.008	0.0150	0.0333	0.000009	0.0536	< 0.000007	0.000154	0.00724	< 0.00003	0.00018	< 0.007	63.1	0.0100	18.3	1.32	0.00203	21.7	0.0454	< 0.003	< 0.00001	0.0023	0.00088	0.650	0.00004	< 0.00005	< 0.000005	0.00667	0.00009	0.005
11	CA10063-JAN16	13-Jan-15	2880	2864	7.71	< 2	65	1480	690	232	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	CA10104-JAN16	20-Jan-16	2880	2900	7.66	< 2	66	1390	620	238	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	CA10147-JAN16	27-Jan-16	2880	2902	7.67	< 2	56	1130	640	227	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	CA10028-FEB16	3-Feb-16	2880	2856	7.78	< 2	61	1250	610	211	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	CA10071-FEB16	10-Feb-16	2880	2890	7.74	< 2	62	1250	570	216	< 1	0.41	< 0.00001	< 0.000002	0.006	0.0101	0.0228	< 0.000007	0.037	< 0.000007	0.000136	0.00529	< 0.00003	0.00042	< 0.007	47.5	0.00737	10.2	1.39	0.00170	10.4	0.0298	< 0.003	< 0.00001	0.0016	0.00145	0.566	0.00007	< 0.00005	0.000008	0.00306	0.00004	0.004
16	CA10112-FEB16	17-Feb-16	750	769	7.89	< 2	86	1630	1100	406	1	0.48	< 0.00001	< 0.000002	0.004	0.0098	0.0495	0.000007	0.061	< 0.000007	0.000261	0.0126	< 0.00003	0.00044	< 0.007	77.0	0.0122	19.4	3.15	0.00231	18.7	0.0710	< 0.003	< 0.00001	0.0016	0.00092	1.14	0.00006	< 0.00005	0.000017	0.00624	0.00005	0.011
17	CA10116-FEB16	24-Feb-16	750	738	7.95	< 2	90	2350	1200	527	< 1	0.51	< 0.00001	0.000002	0.005	0.0104	0.0607	0.000009	0.059	< 0.000007	0.000327	0.0156	< 0.00003	0.00078	0.021	99.6	0.0133	25.5	4.10	0.00263	23.8	0.0845	< 0.003	< 0.00001	0.0017	0.00270	1.42	0.00132	< 0.00005	0.000025	0.00669	0.00004	0.011
18	CA10026-MAR16	2-Mar-16	750	767	7.77	< 2	88	2470	1500	535	< 1	0.48	< 0.00001	0.000002	0.003	0.0089	0.0638	0.000008	0.068	< 0.000007	0.000313	0.0152	< 0.00003	0.00034	0.008	105	0.0136	25.7	4.21	0.00288	24.1	0.0876	< 0.003	0.00002	0.0016	0.00177	1.54	0.00005	< 0.00005	0.000019	0.00588	0.00004	0.011
19	CA10062-MAR16	9-Mar-16	4000 / flooded	3964	7.69	< 2	56	1260	640	273	< 1	0.44	< 0.00001	< 0.000002	0.007	0.0161	0.0256	0.000007	0.042	< 0.000007	0.000118	0.00604	0.00003	0.00027	0.017	59.2	0.00790	12.6	1.85	0.00195	11.1	0.0346	< 0.003	< 0.00001	0.0015	0.00126	0.680	< 0.00001	< 0.00005	0.000010	0.00250	0.00005	0.005
20	CA10099-MAR16	16-Mar-16	2880	2990	7.71	< 2	65	1200	620	335	< 1	0.49	< 0.00001	0.000007	0.005	0.0090	0.0265	< 0.000007	0.048	< 0.000007	0.000131	0.00561	< 0.00003	0.00023	< 0.007	55.4	0.00809	10.7	1.79	0.00194	9.83	0.0292	< 0.003	0.00006	0.0014	0.00260	0.671	0.00005	< 0.00005	0.000009	0.00254	0.00003	0.004
21	CA10143-MAR16	23-Mar-16	2880								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	0	0-Jan-00	2880								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	0	0-Jan-00	2880								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	0	0-Jan-00	2880								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	0	0-Jan-00	2880																																							

Column Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: Large Column #7 Whale Tail
Weight: 20.3kg
Cell Type Waste rock

Analyte			Leachate Volume Added (mL)	Leachate Volume Recovered (mL)	pH	Acidity	Alkalinity	Conductivity	Sulphate	Calcium	Chloride	Fluoride	Mercury	Silver	Aluminum	Arsenic	Barium	Beryllium	Boron	Bismuth	Cadmium	Cobalt	Chromium	Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Strontium	Tin	Titanium	Thallium	Uranium	Vanadium	Zinc
Week/Event	LIMS	Sample Date	mL	mL	units	mg/L as CaCO3	mg/L as CaCO3	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0	CA10036-JAN16	6-Jan-16	2030	269	7.42	< 2	31	289	92	33.0	3	0.20	< 0.00001	< 0.000002	0.03	0.0258	0.12	< 0.000007	0.0122	< 0.000007	0.000024	0.000401	0.0001	0.00113	< 0.007	25	0.00623	6.38	0.0275	0.00322	3.04	0.0029	0.01	0.00102	0.0014	0.00937	0.222	0.00287	0.00013	0.000058	0.000708	0.00297	0.002
1	CA10075-JAN16	13-Jan-16	2030	1372	7.83	< 2	41	526	180	48.0	9	0.25	< 0.00001	< 0.000002	0.016	0.103	0.0943	< 0.000007	0.0223	< 0.000007	0.000034	0.00104	0.00013	0.00253	< 0.007	33.5	0.0120	11.7	0.0276	0.0125	5.49	0.0102	< 0.003	0.00133	0.0037	0.0211	0.388	0.00152	0.00010	0.000055	0.00659	0.00904	< 0.002
2	CA10105-JAN16	20-Jan-16	2030	1989	7.90	< 2	54	821	300	79.7	9	0.37	< 0.00001	0.000011	0.013	0.260	0.0843	< 0.000007	0.038	< 0.000007	0.000026	0.00230	0.00014	0.00304	< 0.007	47.7	0.0193	22.1	0.0505	0.0158	8.21	0.0200	0.016	0.00083	0.0051	0.0305	0.659	0.00072	< 0.00005	0.000086	0.00133	0.0131	< 0.002
3	CA10148-JAN16	27-Jan-16	2030	2083	7.93	< 2	50	570	260	69.3	6	0.32	< 0.00001	0.000006	0.015	0.323	0.0705	< 0.000007	0.045	0.000009	0.000015	0.00197	0.00013	0.00206	< 0.007	43.6	0.0202	19.2	0.0432	0.0149	7.03	0.0185	0.012	0.00040	0.0049	0.0239	0.537	0.00052	< 0.00005	0.000072	0.0103	0.0145	< 0.002
4	CA10030-FEB16	3-Feb-16	2030	2082	7.89	< 2	50	468	160	42.4	3	0.31	< 0.00001	< 0.000002	0.018	0.389	0.0630	< 0.000007	0.029	< 0.000007	< 0.000003	0.00138	0.00017	0.00133	< 0.007	36.1	0.0148	13.2	0.0290	0.0136	4.93	0.0121	0.018	0.00018	0.0051	0.0123	0.368	0.00044	0.00036	0.000067	0.00746	0.0170	< 0.002
5	CA10072-FEB16	10-Feb-16	2030	2016	8.02	< 2	47	366	100	30.9	2	0.30	< 0.00001	< 0.000002	0.024	0.430	0.0492	< 0.000007	0.025	< 0.000007	0.000003	0.000876	0.00020	0.00110	< 0.007	29.2	0.0119	8.71	0.0218	0.0111	3.41	0.0076	0.012	0.00013	0.0051	0.00772	0.267	0.00029	0.00013	0.000050	0.00546	0.0175	< 0.002
6	CA10113-FEB16	17-Feb-16	750	750	8.04	< 2	69	486	150	43.7	2	0.45	< 0.00001	< 0.000002	0.012	0.669	0.0575	< 0.000007	0.034	< 0.000007	0.000009	0.00134	0.00030	0.00138	< 0.007	36.7	0.0166	11.8	0.0291	0.0184	4.26	0.0117	0.014	0.00017	0.0072	0.00951	0.409	0.00034	0.00012	0.000068	0.0101	0.0183	< 0.002
7	CA10157-FEB16	24-Feb-16	750	752	8.17	< 2	72	449	110	41.7	1	0.45	< 0.00001	< 0.000002	0.015	0.752	0.0565	< 0.000007	0.032	< 0.000007	0.000015	0.00122	0.00034	0.00134	< 0.007	38.6	0.0168	11.5	0.0279	0.01745	4.35	0.0103	0.019	0.00015	0.0082	0.00899	0.373	0.00028	0.00030	0.000075	0.00903	0.0220	< 0.002
8	CA10027-MAR16	2-Mar-16	750	781	8.03	< 2	68	440	130	41.7	1	0.46	< 0.00001	< 0.000002	0.017	0.896	0.0546	< 0.000007	0.034	< 0.000007	0.000011	0.00121	0.00041	0.00128	0.008	41.8	0.0167	12.1	0.0275	0.0182	4.46	0.0107	0.020	0.00017	0.0083	0.00902	0.386	0.00036	0.00027	0.000067	0.00836	0.0230	< 0.002
9	CA10063-MAR16	9-Mar-16	Flooded / 4000	3865	8.15	< 2	51	238	55	22.5	< 1	0.32	< 0.00001	< 0.000002	0.029	0.862	0.0673	< 0.000007	0.023	< 0.000007	0.000004	0.000572	0.00041	0.00077	0.011	27.5	0.0110	6.17	0.0139	0.00816	2.24	0.0047	0.020	0.00010	0.0065	0.00455	0.209	0.00019	0.00050	0.000042	0.00336	0.0239	< 0.002
10	CA10100-MAR16	16-Mar-16	2030	2190	8.05	< 2	60	236	58	21.7	< 1	0.40	< 0.00001	0.000002	0.026	0.996	0.0825	< 0.000007	0.027	< 0.000007	< 0.000003	0.000530	0.00045	0.00114	0.010	28.6	0.0111	5.70	0.0148	0.00744	2.14	0.0039	0.022	0.00010	0.0069	0.00482	0.223	0.00017	0.00036	0.000039	0.00374	0.0260	< 0.002
11	CA10144-MAR16	23-Mar-16	2030								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12			2030								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13			2030								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14			2030								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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16			2030								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17			2030								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18			2030								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19			2030								---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20			2030																																							

Submerged Column Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: Large Column #8 Whale Tail Submerged
Weight: 41.5kg (11 inches of material)
Column specs: Grey PVC, 13.5" ID and 36" height
Water Cover: 24"
Sample Location: Port 1 (bottom) - below rock/water interface via porous cup

Total Metals

Analyte			Leachate Volume Collected (mL)	pH	Conductivity	Alkalinity	Acidity	Fluoride	Chloride	Sulphate	Nitrite (as N)	Nitrate (as N)	Mercury	Silver	Aluminum	Arsenic	Barium	Beryllium	Boron	Bismuth	Calcium	Cadmium	Cobalt	Chromium	Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Silicon	Tin	Titanium	Thallium	Uranium	Vanadium	Zinc
Sample Event	LIMS	Sample Date	mL	units	uS/cm	mg/L as CaCO3	mg/L as CaCO3	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Day 1	CA10073-JAN16	13-Jan-16	717	8.13	177	36	< 2	0.11	11	22	< 0.03	< 0.06	< 0.00001	0.000009	0.032	1.55	0.0026	< 0.000007	0.0504	0.000031	7.29	< 0.000003	0.000339	0.00102	0.00058	0.008	20.6	0.16	3.58	0.00111	0.0107	6.06	0.0112	0.019	0.00021	0.0451	0.00053	3.56	0.00031	0.0006	0.000008	0.000333	0.167	0.004
Day 3	CA10074-JAN16	15-Jan-16	788	8.45	157	37	< 2	0.12	9	20	< 0.03	< 0.06	< 0.00001	0.000011	0.042	2.32	0.00748	< 0.000007	0.0668	< 0.000007	8.71	0.000011	0.000379	0.00091	0.00048	0.445	22.9	0.0196	3.91	0.00509	0.00397	5.05	0.0097	0.017	0.00054	0.0581	0.00054	4.36	0.00019	0.00048	< 0.000005	0.000582	0.0339	0.006
Day 6	CA10076-JAN16	18-Jan-16	777	8.02	159	39	< 2	0.13	7	23	< 0.03	< 0.06	< 0.00001	0.000004	0.035	2.05	0.0110	< 0.000007	0.0551	< 0.000007	8.58	0.000005	0.000419	0.00076	0.00033	0.028	20.4	0.0115	3.52	0.00232	0.00308	4.31	0.0060	0.009	0.00039	0.0513	0.00051	4.33	0.00014	0.00039	0.000012	0.000688	0.023	< 0.002
Day 10	CA10077-JAN16	22-Jan-16	770	7.96	150	37	< 2	0.13	5	21	< 0.03	< 0.06	< 0.00001	0.000004	0.037	2.00	0.0136	< 0.000007	0.0534	< 0.000007	8.93	0.000006	0.000501	0.00015	0.00062	0.010	19.0	0.00997	3.60	0.00279	0.00326	3.89	0.0053	0.008	0.00013	0.0502	0.00041	4.33	0.00007	0.00022	0.000013	0.000802	0.0207	0.013
Day 15	CA10141-JAN16	27-Jan-16	725	7.95	135	39	< 2	0.15	4	20	< 0.03	< 0.06	< 0.00001	< 0.0000002	0.038	1.89	0.0155	< 0.000007	0.052	< 0.000007	8.89	< 0.000003	0.000468	0.00012	0.00059	< 0.007	18.0	0.00855	3.53	0.00386	0.00282	3.60	0.0041	0.006	0.00007	0.0398	0.00034	4.13	0.00005	0.00011	< 0.000005	0.000771	0.0143	< 0.002
Day 20	CA10000-FEB16	1-Feb-16	726	7.88	142	41	< 2	0.12	3	15	< 0.03	< 0.06	< 0.00001	< 0.0000002	0.039	1.66	0.0159	< 0.000007	0.048	0.000009	8.72	< 0.000003	0.000447	0.00022	0.00017	0.010	16.6	0.00764	3.40	0.00489	0.00278	3.27	0.0038	0.004	0.00004	0.0225	0.00035	3.94	0.00006	0.00018	0.000008	0.000697	0.0114	< 0.002
Day 27	CA10042-FEB16	8-Feb-16	788	8.01	146	43	< 2	0.12	3	18	< 0.03	< 0.06	< 0.00001	< 0.0000002	0.043	1.51	0.0163	< 0.000007	0.047	< 0.000007	9.60	0.000004	0.000435	0.00028	< 0.00002	0.015	16.8	0.00734	3.38	0.00591	0.00291	3.14	0.0038	0.010	0.00003	0.0114	0.00020	3.93	0.00008	0.00042	< 0.000005	0.000695	0.0095	< 0.002
Week 5	CA10107-FEB16	17-Feb-16	728	7.92	143	43	< 2	0.11	3	17	< 0.03	< 0.06	< 0.00001	< 0.0000002	0.035	1.57	0.0181	< 0.000007	0.040	< 0.000007	10.2	0.000007	0.000450	0.00026	0.00010	0.010	16.0	0.00567	3.34	0.00683	0.00331	2.91	0.0041	0.007	0.00004	0.0096	0.00021	3.25	< 0.000001	0.00021	0.000006	0.000842	0.00846	< 0.002
Week 7	CA10021-MAR16	2-Mar-16	707	8.17	156	46	< 2	0.11	2	16	< 0.03	< 0.06	< 0.00001	< 0.0000002	0.039	1.60	0.0193	< 0.000007	0.045	< 0.000007	11.2	0.000008	0.000428	0.00014	0.00015	< 0.007	16.7	0.00623	3.79	0.00798	0.00337	3.13	0.0037	0.005	0.00002	0.0086	0.00013	3.72	0.00006	0.00007	< 0.000005	0.000759	0.00854	< 0.002
Week 10	CA10153-MAR16	23-Mar-16	714	8.12	147	50	< 2	0.11	2	16	< 0.03	< 0.06	< 0.00001	< 0.0000002	0.037	1.68	0.0191	< 0.000007	0.044	< 0.000007	11.4	0.000010	0.000453	0.00022	0.00006	< 0.007	17.0	0.00581	3.81	0.00901	0.00337	3.20	0.0034	0.007	0.00003	0.0092	0.00009	3.46	0.00003	0.00015	0.000007	0.00082	0.00793	< 0.002
Week 15	CA10130-APR16	27-Apr-16	757	8.11	148	52	< 2	0.11	3	15	< 0.03	< 0.06	< 0.00001	0.000002	0.040	1.82	0.0214	< 0.000007	0.050	0.000007	12.7	0.000004	0.000458	0.00013	0.00018	0.022	17.5	0.00592	4.16	0.0101	0.00338	3.19	0.0035	0.007	0.00004	0.0103	0.00009	3.81	0.00010	0.00049	< 0.000005	0.00088	0.00837	< 0.002
Week 20	CA10000-JUN16	1-Jun-16																																									

Dissolved Metals

Analyte			---	---	---	---	---	---	---	---	---	---	---	Mercury	Silver	Aluminum	Arsenic	Barium	Beryllium	Boron	Bismuth	Calcium	Cadmium	Cobalt	Chromium	Copper	Iron	Potassium	Lithium	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorus	Lead	Antimony	Selenium	Silicon	Tin	Titanium	Thallium	Uranium	Vanadium	Zinc
Sample Event	LIMS	Sample Date	---	---	---	---	---	---	---	---	---	---	---	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Day 1	CA10073-JAN16	13-Jan-16	---	---	---	---	---	---	---	---	---	---	---	< 0.00001	0.000011	0.025	1.68	0.00239	< 0.000007	0.0466	0.000016	6.53	0.000006	0.000229	0.0011	0.00127	< 0.007	19.8	0.158	3.89	0.00068	0.0107	0.027	0.00011	0.0453	0.00085	3.19	0.00028	0.00018	< 0.000005	0.000305	0.16	0.004
Day 3	CA10074-JAN16	15-Jan-16	---	---	---	---	---	---	---	---	---	---	---	< 0.00001	0.000009	0.032	2.39	0.00695	< 0.000007	0.0467	< 0.000007	8.14	0.000010	0.000306	0.00048	0.00021	< 0.007	22.1	0.0192	3.70	0.00175	0.00331	4.70	0.0071	0.012	0.00013	0.0538	0.00161	4.18	0.00005	0.00016	< 0.000005	0.000549	0.033	< 0.002
Day 6	CA10076-JAN16	18-Jan-16	---	---	---	---	---	---	---	---	---	---	---	< 0.00001	0.000002	0.029	2.14	0.0102	< 0.000007	0.0540	< 0.000007	8.31	< 0.000003	0.000421	0.00012	0.00034	< 0.007	20.2	0.0113	3.56	0.00190	0.00274	4.34	0.0059	0.010	0.00012	0.0511	0.00067	4.18	0.00002	0.00025	0.000011	0.000641	0.0223	< 0.002
Day 10	CA10077-JAN16	22-Jan-16	---	---	---	---	---	---	---	---	---	---	---	< 0.00001	0.000004	0.032	2.22	0.01315	< 0.000007	0.0538	< 0.000007	8.89	< 0.000003	0.000472	< 0.00003	0.00046	< 0.007	18.2	0.00986	3.61	0.00240	0.00267	3.78	0.0050	0.009	0.00010	0.0522	0.00090	4.42	0.00007	< 0.00005	0.000010	0.000759	0.0199	< 0.002
Day 15	CA10141-JAN16	27-Jan-16	---	---	---	---	---	---	---	---	---	---	---	< 0.00001	0.000003	0.035	2.07	0.0139	< 0.000007	0.0516	0.000008	8.36	0.000004	0.000392	0.00005	0.00027	< 0.007	17.6	0.00902	3.55	0.00361	0.00427	3.47	0.0038	0.007	0.00004	0.0376	0.00066	4.03	0.00004	0.00008	0.000008	0.000938	0.0135	< 0.002
Day 20	CA10000-FEB16	1-Feb-16	---	---	---	---	---	---	---	---	---	---	---	< 0.00001	< 0.0000002	0.036	1.76	0.0151	< 0.000007	0.0464	< 0.000007	8.34	0.000004	0.000421	0.00007	< 0.00002	< 0.007	15.9	0.00746	3.26	0.00438	0.00253	3.14	0.0036	0.009	0.00005	0.0203	0.00045	3.77	0.00001	0.00005	0.000009	0.000681	0.0111	< 0.002
Day 25	CA10042-FEB16	8-Feb-16	---	---	---	---	---	---	---	---	---	---	---	< 0.00001	< 0.0000002	0.036	1.70	0.0158	< 0.000007	0.0463	< 0.000007	9.00	0.000003	0.000414	0.00005	0.00042	< 0.007	16.4	0.00720	3.33	0.00541	0.00286	3.00	0.0036	0.006	0.00003	0.0116	0.00038	3.85	0.00006	0.00008	< 0.000005	0.000672	0.0092	< 0.002
Week 5	CA10107-FEB16	17-Feb-16	---	---	---	---	---	---	---	---	---	---	---	< 0.00001	< 0.0000002	0.033	1.69	0.0180	< 0.000007	0.0387	< 0.000007	9.73	< 0.000003	0.000418	0.00006	0.00029	< 0.007	15.9	0.00556	3.37	0.00627	0.00316	2.82	0.0037	0.004	0.00004	0.0081	0.00028	3.16	< 0.000001	0.00006	< 0.000005	0.000812	0.00855	< 0.002
Week 7	CA10021-MAR16	2-Mar-16	---	---	---	---	---	---	---	---	---	---	---	< 0.00001	< 0.0000002	0.038	1.53	0.0182	< 0.000007	0.0481	< 0.000007	10.4	0.000007	0.000407	0.00006	0.00009	< 0.007	16.8	0.00662	3.81	0.00760	0.00314	3.12	0.0035	0.007	0.00002	0.0078	0.00022	3.45	0.00005	0.00005	< 0.000005	0.000712	0.00854	< 0.002
Week 10	CA10153-MAR16	23-Mar-16	---	---	---	---	---	---	---	---	---	---	---	< 0.00001	< 0.0000002	0.033	1.71	0.0187	< 0.000007	0.0402	< 0.000007	11.7	0.000006	0.000458	0.00005	0.00004	< 0.007	16.5	0.00573	3.74	0.00871	0.00328	3.14	0.0034	0.004	0.00003	0.0101	0.00017	3.69	< 0.000001	0.00010	0.000005	0.000753	0.00812	< 0.002
Week 15	CA10130-APR16	27-Apr-16	---	---	---	---	---	---	---	---	---	---	---	< 0.00001	0.000003	0.034	2.03	0.0199	< 0.000007	0.0435	< 0.000007	11.8	0.000009	0.000458	0.00007	0.00060	< 0.007	16.8	0.00574	4.05	0.00986	0.00305	3.13	0.0034	0.006	0.00009	0.0091	0.00011	3.74	< 0.000001	0.00005	< 0.000005	0.000776	0.00809	< 0.002
Week 20	CA10000-JUN16	1-Jun-16	---	---	---	---	---	---	---	---	---	---	---	---																														

Submerged Column Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: Large Column #8 Whale Tail Submerged
Weight: 41.5kg (11 inches of material)
Column specs: Grey PVC, 13.5" ID and 36" height
Water Cover: 24"
Sample Location: Port 2 (middle) - just above rock/water interface

| | | | | | | | | | | | | | Total Metals | | | | | | | | | | | | |

Submerged Column Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: Large Column #8 Whale Tail Submerged
Weight: 41.5kg (11 inches of material)
Column specs: Grey PVC, 13.5" ID and 36" height
Water Cover: 24"
Sample Location: Port 2 (middle) Duplicate

| | | | | | | | | | | | | | Total Metals | | | | | | | | | | | | |

Submerged Column Results
Customer: Agnico Eagle (Amaruq)
Project Manager: Serge Ouellet
SGS Contact: Brian Graham

Humidity Cell: Large Column #8 Whale Tail Submerged
Weight: 41.5kg (11 inches of material)
Column specs: Grey PVC, 13.5" ID and 36" height
Water Cover: 24"
Sample Location: Port 3 (top) - 30cm above rock/water interface

| | | | | | | | | | | | | | Total Metals | | | | | | | | | | | | |

As a global, employee-owned organisation with over 50 years of experience, Golder Associates is driven by our purpose to engineer earth's development while preserving earth's integrity. We deliver solutions that help our clients achieve their sustainable development goals by providing a wide range of independent consulting, design and construction services in our specialist areas of earth, environment and energy.

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