September 21st 2016

Manager of Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU
X0B 1J0

Re: Water License 2AM-MEL1631 Part D, Items 1&2 - Submission of Final Design and Construction Drawings for Berm 3 and Channel 5

Madam, Sir,

Agnico Eagle Mines Limited (Agnico Eagle) is developing the Meliadine Gold Project (the project). The mine is located approximately 25 km north from Rankin Inlet, and 80 km southwest from Chesterfield Inlet in the Kivalliq Region of Nunavut. A new Type "A" Water Licence (No. 2AM-MEL1631) was recently awarded to Agnico Eagle for the development of the project. Agnico Eagle is developing the mine towards proposed production in 2020.

As per Water Licence 2AM-MEL1631, several berms and channels are required to manage the site contact water during pre-production, operation, and interim mine closure. Berm 3 and Channel 5 are two of the water management infrastructures required to be constructed before the spring freshet of 2017.

Proposed Channel5 is required to divert the runoff from the A12 catchment area into the proposed water collection pond CP5, from where the water will be further pumped to the final water collection pond CP1 for treatment and discharge when the water quality meets discharge criteria. Channel5 is also required to avoid the upstream runoff water flowing into the proposed Tiri_1000_01 open pit when the pit development starts in Year 2 (2021).

Proposed Berm3 is required to temporarily retain the water under an extreme rainfall event when the water cannot be entirely passed through Channel5 during the short period of the peak flooding event or when the water level in CP5 is temporarily high.

In accordance with Water License 2AM-MEL1631, Part D, Items 1 and 2, please find enclosed with this letter, a copy of the final design and construction drawings for Berm 3 and Channel 5. Agnico Eagle is planning to start building D-CP1 and D-CP5 upon Board's approval.

Should you have any questions regarding this submission, please contact me or Jamie Quesnel.

Regards,

Agnico Eagle Mines Limited – Meliadine Division

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AGNICO EAGLE

DESIGN REPORT FOR BERM3 AND CHANNEL5

Meliadine Gold Project, NU

SEPTEMBER 20, 2016
ISSUED FOR USE
FILE: E14103230-01.021

TETRA TECH EBA

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EXECUTIVE SUMMARY

Agnico Eagle Mines Limited (Agnico Eagle) is developing the Meliadine Gold Project (the project). The mine is located approximately 25 km north from Rankin Inlet, and 80 km southwest from Chesterfield Inlet in the Kivalliq Region of Nunavut. A new Type “A” Water Licence (No. 2AM-MEL1631) was recently awarded to Agnico Eagle for the development of the project.

Agnico Eagle retained Tetra Tech EBA Inc. (Tetra Tech EBA) to conduct a detailed design of the water management infrastructures for the project. Several infrastructure components such as water retention dikes, berms, culverts, channels, collection ponds, and pumping stations are required to manage the site contact water during pre-production, operation, and interim mine closure.

Two water management components, designated as Berm3 and Channel5, are required to be constructed this fall and be in use before the 2017 spring freshet. This report presents the site conditions, design basis and considerations, engineering design, and construction drawings for those water management components.

Proposed Channel5 is required to divert the runoff from the A12 catchment area into the proposed water collection pond CP5, from where the water will be further pumped to the final water collection pond CP1 for treatment and discharge when the water quality meets discharge criteria. Without the diversion, the water would naturally flow into A11, A10, A9 and A8. Channel5 is also required to avoid the upstream runoff water flowing into the proposed Tiri_1000_01 open pit when the pit development starts in Year 2 (2021).

Proposed Berm3 is required to temporarily retain the water under an extreme rainfall event when the water cannot be entirely passed through Channel5 during the short period of the peak flooding event or when the water level in CP5 is temporarily high.

TABLE OF CONTENTS

EXECUTIVE SUMMARY i

1.0 INTRODUCTION 1

2.0 GENERAL SITE CONDITIONS 1
2.1 Climate and Meteorology 1
2.2 Topography and Lakes 2
2.3 Permafrost 2
2.4 Seismic Zone 2
2.5 Other Relevant Data 2

3.0 DESIGN BASIS 3
3.1 Channel5 and Berm3 3
3.2 Water Management in Areas around Channel5 and Berm3 3
3.3 Relevant Parameters for Channel5 and Berm3 Design 3
3.4 Original Ground Geotechnical Information 4
3.5 Geochemical Characteristics of Overburden and Rock 5
3.6 Construction Materials and Schedule 5

4.0 DESIGN OF BERM3 5

5.0 DESIGN OF CHANNEL5 6

6.0 CONSTRUCTION 6
6.1 Construction Material Quantities 6
6.2 General Construction Material Specifications 7
6.2.1 Run-of-Mine 7
6.2.2 Selected Unfrozen Till Fill 7
6.2.3 Rip-rap 8
6.2.4 Geotextile 8
6.2.5 Key Trench Excavation 8
6.3 Construction Quality Control/Assurance and Survey 8
6.4 Monitoring, inspection, and Reporting 9

7.0 LIMITATIONS OF REPORT 9

8.0 CLOSURE 10

FIGURES

Figure 1 General Project Location Plan
Figure 2 Proposed Layout Plan for Channel5 and Berm3 (Current Site Condition)
Figure 3 General Site Layout Plan for Proposed Infrastructure during Mine Operation (Year 7)

APPENDICES

Appendix A Construction Drawings
Appendix B General Conditions

1.0 INTRODUCTION

Agnico Eagle Mines Limited (Agnico Eagle) is developing the Meliadine Gold Project (the project). The mine is located approximately 25 km north from Rankin Inlet, Nunavut. Situated on the western shore of Hudson Bay, the proposed project site is located on the peninsula between the east, south, and west basins of Meliadine Lake (63°01'23.8"N, 92°13'6.42"W). A general location plan for the project is shown in Figure 1.

The current project focuses on the development of the Tiriganiaq gold deposit which will be mined using conventional open-pit and underground mining operations. Proposed site facilities will include: plant site and accommodation complex buildings, ore stockpiles, waste rock storage facilities, a dry stack tailings storage facility, and water management systems including collection ponds, water retention dikes, water diversion berms, channels, culverts, an effluent water treatment plant, and many pipelines.

A new Type “A” Water Licence (No. 2AM-MEL1631) was recently awarded to Agnico Eagle for the development of the project.

Agnico Eagle retained Tetra Tech EBA Inc. (Tetra Tech EBA) to undertake the following tasks associated with Berm3 and Channel5:

- Conduct the detailed design of Berm3 and Channel5 to produce construction drawings; and
- Prepare the design report for Berm3 and Channel5, in accordance with the requirements in the Type “A” Water License (No. 2AM-MEL1631).

This report summarizes the site conditions, design basis, engineering design, and presents the detailed design of Berm3 and Channel5, including construction drawings.

2.0 GENERAL SITE CONDITIONS

2.1 Climate and Meteorology

The project site lies within the Southern Arctic Climatic Region where daylight reaches a minimum of 4 hours per day in winter and a maximum of 20 hours per day in summer. The nearest weather station is Rankin Inlet A (Station 2303401), located approximately 25 km south of the project site. The closest long-term regional evaporation station operated by Environment Canada is in Churchill, Manitoba.

The monthly mean air temperature is typically above 0°C for the months of June to September, and is below 0°C between October and May. July is typically the warmest month and January the coldest. Winters are typically long and cold, while summers are short and cool. Spring and autumn are short. The mean annual temperature for the period of record from 1981 to 2009 was -10.4°C.

The annual average total precipitation at the project site is 405 mm/year and falls almost equally as snow and rainfall (Golder, 2013). Average annual evaporation for small waterbodies in the project area is estimated to be 323 mm between June and September. The average annual loss of snowpack to sublimation and snow redistribution is estimated to vary between 46% and 52% of the total precipitation for the winter period and occurs between October and May (Golder, 2013).

The region is known for high winds, which are due in part to the broad, flat, uninterrupted expanses offered to moving air masses. The wind blows from the north and north-northwest direction more than 30% of the time. The mean values for wind speed show that the north-northwest, together with north and northwest winds, have the

highest speeds and tend to be the strongest. Mean monthly wind speeds are typically between 19 km/hour and 27 km/hour.

The climate in the project region is projected to be warmer for the 2020s, 2050s, and 2080s time horizons when compared to the observed historic values (Agnico Eagle and Golder, 2014). Precipitation shows an increase compared to historical values, but the majority of projections are not significantly different from the annual recorded precipitation values.

2.2 Topography and Lakes

The dominant terrain in the project area comprises glacial landforms such as drumlins (glacial till), eskers (gravel and sand), and lakes. A series of low relief ridges are composed of glacial deposits, oriented in a northwest-southeast direction, which control the regional surface drainage patterns. The property is about 60 metres above sea level (masl) in low-lying topography with numerous lakes. Surface waters are usually frozen by early October and remain frozen until early June.

The surveyed lake surface elevations in the project area range from about 51 masl at Meliadine Lake to about 74 masl for local small perched lakes. Lakes formed by glaciofluvial processes or glacial processes, are common throughout the project area. Most of the perched lakes at the project site are relatively shallow (less than 2.0 m water depth). Late-winter ice thicknesses on freshwater lakes in the project area range between 1.0 m and 2.3 m with an average thickness of 1.7 m. Ice cover usually appears by the end of October and is completely formed in early November. The spring freshet typically begins in mid-June and is complete by early July (Golder, 2012a).

2.3 Permafrost

The project site is located within the Southern Arctic terrestrial eco-zone, one of the coldest and driest regions of Canada, in a zone of continuous permafrost. Continuous permafrost to depths of between 360 m to 495 m is expected based on historical and recent ground temperature data from thermistors installed near Tiriganiaq, F-Zone, and Discovery deposits (Golder, 2012b). The measured ground temperature data indicates that the active layer is 1.0 m to 3.0 m in areas of shallow soils and areas away from the influence of lakes. It is anticipated that the active layer adjacent to lakes or below a body of moving water such as a stream could be deeper. The typical permafrost ground temperatures at the depths of zero annual amplitude (typically at a depth of below 15 m) are in the range of -5.0°C to -7.5°C in the areas away from lakes and streams. The geothermal gradient ranges from 0.012°C/m to 0.02°C/m (Golder, 2012b).

2.4 Seismic Zone

The project site is situated in an area of low seismic risk. The peak ground acceleration (PGA) for the area was estimated from the 2015 National Building Code of Canada seismic hazard website (http://earthquakesscanada.nrcan.gc.ca). The estimated PGA is 0.022 g for a 5% in 50-year probability of exceedance (0.001 per annum or 1 in 1,000 year return) and 0.037 g for a 2% in 50-year probability of exceedance (0.000404 per annum or 1 in 2,475 year return) for the area.

2.5 Other Relevant Data

The raw land survey data, a 1-m contour digital map of the ground surface and 0.5 m contour lake bathymetric data for selected lakes at the project site were provided to Tetra Tech EBA by Agnico Eagle. Survey data for selected areas were recently provided to Tetra Tech EBA and were incorporated into the original digital map for the design of the saline water pond and berm in this study.

3.0 DESIGN BASIS

3.1 Channel5 and Berm3

Two water management infrastructure components, designated as Berm3 and Channel5, are required to be constructed this fall and be in use before the spring freshet of 2017. The proposed locations of Channel5 and Berm3 are shown on Figures 2 and 3.

Proposed Channel5 is required to divert the runoff from the A12 catchment area into the proposed water collection pond CP5, from where the water will be further pumped to the final water collection pond CP1 for treatment and discharge when the water quality meets discharge criteria. Without the diversion, the water would naturally flow into A11, A10, A9 and A8. Channel5 is also required to avoid the upstream runoff water flowing into the proposed Tiri_1000_01 open pit when the pit development starts in Year 2 (2021).

Proposed Berm3 is required to temporarily retain the water under an extreme rainfall event when the water cannot be entirely passed through Channel5 during the short period of the peak flooding event or when the water level in CP5 is temporarily high.

3.2 Water Management in Areas around Channel5 and Berm3

The water management plan for the project was presented to Agnico Eagle in 2015 (Agnico Eagle, 2015). Figure 2 presents a layout plan of the current site. Figure 3 presents a site layout plan during future mine operation (Year 7). A brief summary of the water management plan in the area associated with Channel5 and Berm3 is presented as follows:

- The existing Lake A54 will be dewatered in late fall 2016 to facilitate the construction of Dike D-CP5.
- The construction of D-CP5 will start this fall after the A54 lake dewatering is completed.
- After construction of D-CP5, a water collection pond, named CP5, will be established in the north portion of the former A54 Lake.
- A temporary pumping station and a pipeline that will be used for the A54 lake dewatering will be used to pump the water in CP5 to the final water collection pond CP1 during the period before a permanent pumping station in CP5 and an associated pipeline from CP5 to CP1 is installed in the summer of 2017.
- The water collected in CP5 will be actively pumped to CP1 during the open water season each year so that the CP5 pond will be nearly empty most of the time, except for several days (up to 3 days) during the early part of annual spring freshet while preparing the pump system or during an extreme rainfall event.
- CP5 will become nearly empty (except for the remaining water left in the bottom of CP5 North upstream of the natural saddle that separates CP5 North and CP5 South) before the CP5 pumping station is shut down by the end of the water pumping season (around end of October) each year until closure of the mine.

3.3 Relevant Parameters for Channel5 and Berm3 Design

The design of Channel5 and Berm3 was based on the relevant parameters listed in Table 3.1. The values were referred from the design report for D-CP5 (Tetra Tech EBA, 2016), the Water Management Plan (Agnico Eagle, 2015), and Golder (2008).

Table 3.1: Relevant Parameters for Design of Channel5 and Berm3

Item	Value
Estimated mine site extreme 24-hour rainfall for a 1 in 100 year return event	65 mm
Estimated mine site 24-hour rainfall for a 1 in 2 year return event	33 mm
Estimated extreme 5-min rainfall for a 1 in 100 year return event	9.2 mm
Estimated extreme 30-min rainfall for a 1 in 100 year return event	20.1 mm
Maximum water elevation under inflow design flood in CP5	66.3 m
Maximum operating water elevation during mean spring freshet in CP5	66.0 m
Maximum operating water elevation before and after each spring freshet in CP5	64.8 m
Maximum catchment area of Channel5	231,349 m^2

3.4 Original Ground Geotechnical Information

One borehole (BH16-12) was drilled within the proposed footprint of Berm3 during the 2016 site investigation (Tetra Tech EBA, 2016). Another borehole (GT14-35) was drilled at a location that was 100 m north of the proposed Channel5 during the 2014 site investigation (Tetra Tech EBA, 2014). Table 3.2 summarizes the key geotechnical information of the overburden soils.

Table 3.2: Geotechnical Information for Overburden Soils in the Area of Channel5 and Berm3

Borehole No.	Organic Layer Thickness (m)	Major Overburden Soil Types	Permafrost/Ground Ice Conditions	Depth to Bedrock (m)	Bedrock description
GT14-35	0.15	0.15 m peat over 2.75 m thick silt and sand over bedrock	Up to Vs 25%	2.9	Greywacke, strong
BH16-12	0.28	0.28 m peat over 1.72 m sand, 0.7 m sand and silt, 1.1 m sand and gravel over bedrock	Up to Vs 15%	3.8	Fresh, Greywacke, medium strong

3.5 Geochemical Characteristics of Overburden and Rock

A baseline geochemical characterization program for the Project was initiated in 2008 and consisted of static and kinetic testing methods to assess the chemical composition of the mine waste and overburden, its potential to generate acid rock drainage (ARD) and its potential for metal leaching (ML) upon exposure to ambient conditions.

Golder (2012c) documented the waste geochemical characterization programs carried out from 1998 to 2011 for the Project. The key findings of the study included the following:

- The waste rock from the Tiriganiaq deposit area is considered to be non-potentially acid generating (NPAG) and has a low potential for ML. Kinetic tests at various scales indicate that drainage water quality will meet MMER monthly mean effluent limits.
- The overburden at the site will be NPAG, and that leachate concentrations are generally lower than waste rock and will meet MMER monthly mean effluent limits. Waste rock and overburden have compatible geochemical characteristics such that these materials can be managed together in the same disposal facilities.

Therefore, the waste rock from the mine development, fill materials sourced from the rock, and overburden materials will be NPAG and have low potential of ML.

3.6 Construction Materials and Schedule

Based on discussion with Agnico Eagle, The following construction materials are available at the site for construction of Channel5 and Berm3:

- Run-of-mine rock from mine development;
- Rip-rap material;
- Selected unfrozen till stockpiled at the site; and
- Non-woven geotextile.

Agnico Eagle plans to construct Channel5 and Berm3 during the period from late October to early November 2016.

4.0 DESIGN OF BERM3

The construction drawings for Berm3 are presented in Appendix A of this report.

- Drawing 65-695-230-214 presents the site layout plan view for Berm3 as well as its profile.
- Drawing 65-695-230-215 presents the Berm3 sections.
- Drawing 65-695-230-216 presents the Berm3 sections and typical design section.

Table 4.1 presents the key design parameters for the berm.

Table 4.1: Key Information and Design Parameters for Berm3

Item	Berm3
Length (m)	319
Berm Maximum Height (m)	2.52
Side Slopes	3(H):1(V)
Berm Till Core Top Width (m)	4
Crest Minimum Elevation (m)	67.3

5.0 DESIGN OF CHANNEL5

The construction drawings for Channel5 are presented in Appendix A of this report.

- Drawing 65-695-230-211 presents the site layout plan view for Channel5 as well as its profile.
- Drawing 65-695-230-212 presents the Channel5 sections.
- Drawing 65-695-230-213 presents the Channel5 sections and typical design section.

Hydraulic analyses were carried out to determine the required geometry for the channel. Channel5 is an internal channel where any water overflowing the channel will be retained by Berm3. Hydraulic analyses indicated that a very wide channel is required to pass an extreme intensity flow under a 5-minute 1:100 return rainfall of 9.2 mm. As a result, this channel was designed to have a reasonable bottom width to pass a flow with lesser intensity, but the water overflowing the channels can be safely managed by Berm3.

Table 5.1 presents the key information and design parameters for the channel.

Table 5.1: Key Information and Design Parameters for Channel5

Item	Channel5
Total Length (m)	335
Channel Bottom Width (m)	3
Slide Slopes	2.5(H):1(V)
Rip-rap Thickness (m)	0.3
Minimum Bottom Slope Gradient (%)	0.14
Maximum Depth of Channel Excavation (m)	1.8

6.0 CONSTRUCTION

6.1 Construction Material Quantities

Tables 6.1 present the material quantities for Channel 5 and Berm3.

Table 6.1: Estimated In-Place Material Quantities for Berm3 and Channel5 Construction

Item	Berm3	Channel5
Run-of-mine or Quarry Rockfill (m^3)	1,585	-
Selected Unfrozen Till Fill (m^3)	5,820	-
Rip-rap Fill (m^3)	-	601
Non-Woven Geotextile (m^2)	-	2,737
Berm Key Trench Excavation (m^3)	2,160	-
Channel Excavation (m^3)		1,894

Note that the geotextile quantity does not include the material for overlapping and any waste during construction. These quantities were estimated based on the available geotechnical/topographic data and the following assumptions:

- Average depth of berm key trench excavation of 1.5 m;
- Berm key trench excavation sideslope of 2.0H:1V; and

It should be noted that the actual quantities could be different from those estimated due to the following reasons:

- The actual depth of key trench could vary and be different from the assumed;
- The key trench excavation sideslope will depend on the actual site conditions and excavation method adopted by the Contractor and could be different from the assumed; and
- The field observations during construction may lead to design and construction related modifications, which may in turn affect the quantities.

6.2 General Construction Material Specifications

6.2.1 Run-of-Mine

The run-of-mine rockfill can have a wide variation in gradation, with a maximum particle size of 600 mm. The lift of the rockfill should be no greater than 900 mm. The material shall be sourced from hard, durable, non-acid-generating rock. Any oversized boulders should be removed before the rockfill is placed into the earth structures.

6.2.2 Selected Unfrozen Till Fill

Till fill represents a wide range of natural overburden materials that are available at the Project site. The material shall be free of roots, organics, snow/ice, and other deleterious material. The material can have a wide variation in gradation with a maximum particle size of 300 mm. The selected unfrozen till material used for construction of Berm3 should have a fines (<0.075 mm in size) content of 20% to 60% by weight to have a relatively low hydraulic conductivity. The till fill should be placed in lifts no greater than 0.3 m thick and be compacted to a minimum of 90% of Maximum Dry Density (ASTM D698).

6.2.3 Rip-rap

Rip-rap shall be used as the erosion protection material for Channel5. The particle size specifications for the graded rip-rap materials are presented in Table 6.2. The material shall be free of roots, organics, and other deleterious material. Processing may be required to achieve the specified gradation. The material can be processed from hard, durable, non-acid-generating rock.

Table 6.2: Particle Size Specifications for Rip-rap Material

Rip-rap Types for Various Earth Structures	Minimum Particle Size (mm)	Median Particle Size (mm)	Maximum Particle Size (mm)
Rip-rap for Channel5	20	40 to 80	100 to 200

6.2.4 Geotextile

Nonwoven geotextile is planned to be placed under the rip-rap material for Channel5 to separate the rip-rap material from the excavated overburden surface and to protect the overburden soils from potential loss into the rip-rap material. Table 6.3 presents the geotextile specifications of the nonwoven, needle-punched geotextile to be used for Chaneel5 construction. Alternatives can be used with approval of the Design Engineer.

Table 6.3: Geotextile Specifications for Channel5

Parameter	Required Minimum Value
Nominal Thickness of Geotextile (ASTM D5199) (mm)	1.7
Typical Unit Weight (ASTM D5261) (g/m^2)	200
Puncture Resistance (ASTM D4833) (N)	380

6.2.5 Key Trench Excavation

The Berm3 design has a key trench to be excavated into the Berm3 foundation to remove the soils with high permeability. The depth of the key trench will vary with the actual field conditions. The key trench will reach the top of permafrost below the active layer, a layer (greater than 0.3 m thick) of unfrozen soils with more than 20% fines (<0.075 mm), or competent bedrock. The depth of the key trench will be determined during construction by the Engineer. Snow and ice must be removed from the key trench prior to fill placement.

6.3 Construction Quality Control/Assurance and Survey

A quality control/assurance program is required during construction of each of the infrastructure components to ensure that construction-sensitive features of the design are achieved.

Upon the completion of the construction activities, an as-built construction report will be prepared and submitted to the regulators within 90 days after construction is completed. The construction report should provide all relevant supporting documentation.

Surveying should be carried out to document the as-built conditions of excavations and fills including different material boundaries and facilitate the preparation of the as-built report.

6.4 Monitoring, inspection, and Reporting

Performance monitoring is an integral part of the operation of any water management structure, particularly in an arctic environment. The performance of the channel and berm will need to be monitored throughout their construction and operating life.

Visual inspection and monitoring can provide early warning of many conditions that can contribute to berm failures and incidents. Monitoring and inspection during construction and operation may include, but not be limited to, settlement/movement, seepage, and surface erosion. Agnico Eagle should regularly undertake a visual inspection of the berm and channel, especially during spring and summer periods. Agnico Eagle should note any water seepage through the berm, unusual settlement/deformation, cracks and should contact Tetra Tech if noted. Any monitoring data should be sent to Tetra Tech for review and evaluation.

An annual site inspection will be carried out by a qualified geotechnical engineer to evaluate the continual performance of the pond and channel. The annual inspection report can be included in Meliadine's global annual report or submitted to the regulators as a separate report.

7.0 LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of Agnico Eagle Mines Ltd. and their agents. Tetra Tech EBA Inc. (Tetra Tech EBA) does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than Agnico Eagle Mines Ltd., or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this report is subject to the terms and conditions stated in Tetra Tech EBA's Services Agreement. Tetra Tech EBA's General Conditions are provided in Appendix B of this report.

8.0 CLOSURE

We trust this report meets your present requirements. If you have any questions or comments, please contact the undersigned.

Respectfully submitted,
Tetra Tech EBA Inc.

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REFERENCES

Agnico Eagle and Golder, 2014. Volume 5.0 – Atmospheric Environment and Impact Assessment, Final Environmental Impact Statement (FEIS) – Meliadine Gold Project, Nunavut (Doc. 288-1314280007 Ver 0 submitted to NIRB).

Agnico Eagle, 2015. Meliadine Gold Project Water Management Plan. April 2015, Version 1, 6513-MPS-11. CDA, 2007 (with 2013 revision). Dam Safety Guidelines. Canadian Dam Association, 2007, p.82.

Golder 2008. Meliadine Project Hydrology Baseline Studies 2008, Technical Report Submitted to Comaplex Minerals Corporation by Golder Associates Ltd., November, 2008.

Golder, 2012a. Tailings Storage Facility Preliminary Design – Meliadine Gold Project, Nunavut. A Draft Report Submitted to Agnico Eagle Mines Ltd. by Golder, August 16, 2012.

Golder, 2012b. SD 6-1 Permafrost Thermal Regime Baseline Studies – Meliadine Gold Project, Nunavut, Canada. A Technical Report Submitted to Agnico Eagle Mines Ltd. by Golder Associates, September 25, 2012.

Golder, 2013. SD 2-6 Surface Water Management Plan. Final Report Submitted to Agnico Eagle Mines Limited., Project No. Doc 232-1013730076, January 2013.

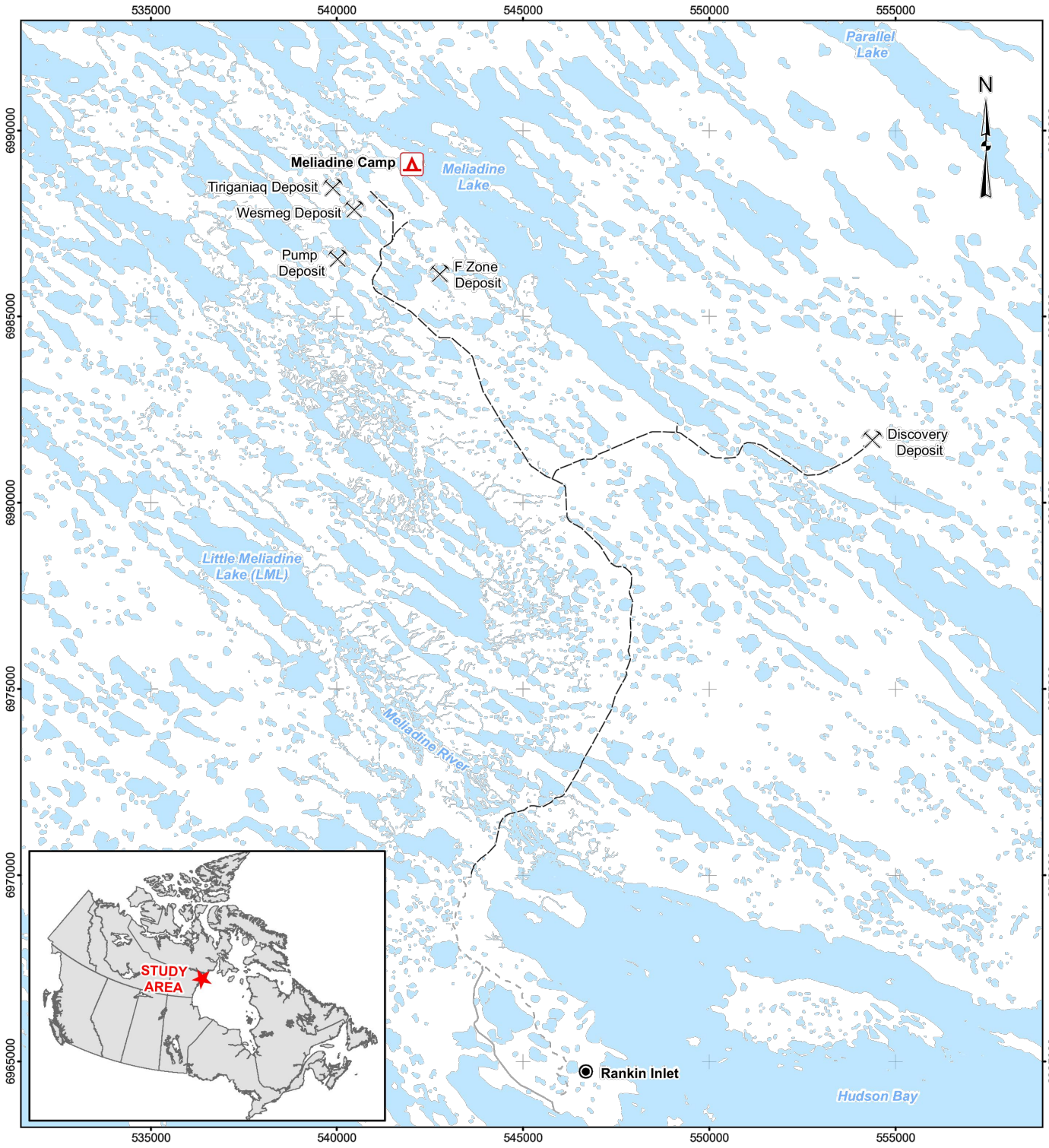
Tetra Tech EBA, 2014. Meliadine Project 2014 Geotechnical Investigation Data Report. Technical Report Submitted to Agnico Eagle Mines Ltd. by Tetra Tech EBA, EBA File: E14103181-01, May 2014.

Tetra Tech EBA, 2016. Meliadine Winter 2016 Geotechnical Site Investigation Data Report. Technical Report Submitted to Agnico Eagle Mines Ltd. by Tetra Tech EBA, EBA File: ENG.EARC03020-01, Agnico Eagle Report Number: 6515-E-132-007-141-GTI-001, July 14, 2016.

FIGURES

Figure 1 General Project Location Plan
Figure 2 Proposed Layout Plan for Channel5 and Berm3 (Current Site Condition)
Figure 3 General Site Layout Plan for Proposed Infrastructure during Mine Operation (Year 7)

FORMAT ANSI A–8.5x11



LEGEND

- Camp
- Proposed Mine Site
- All-weather Access Road (AWAR)
- Road - New
- Road - Existing
- Watercourse
- Waterbody

AGNICO EAGLE – MELIADINE DIVISION

AGNICO EAGLE

TETRA TECH EBA

AGNICO EAGLE – MELIADINE DIVISION

FIGURE 1 GENERAL PROJECT LOCATION PLAN

No. PROJET PROJECT No.		DATE	09–20–2016
DESSINÉ PAR DRAWN BY	EL		FEUILLE/SHT 1 / 1
APPROUVÉ PAR APPROVED BY	GZ		
NO. DESSIN DRAWING NO.			REVISION 0

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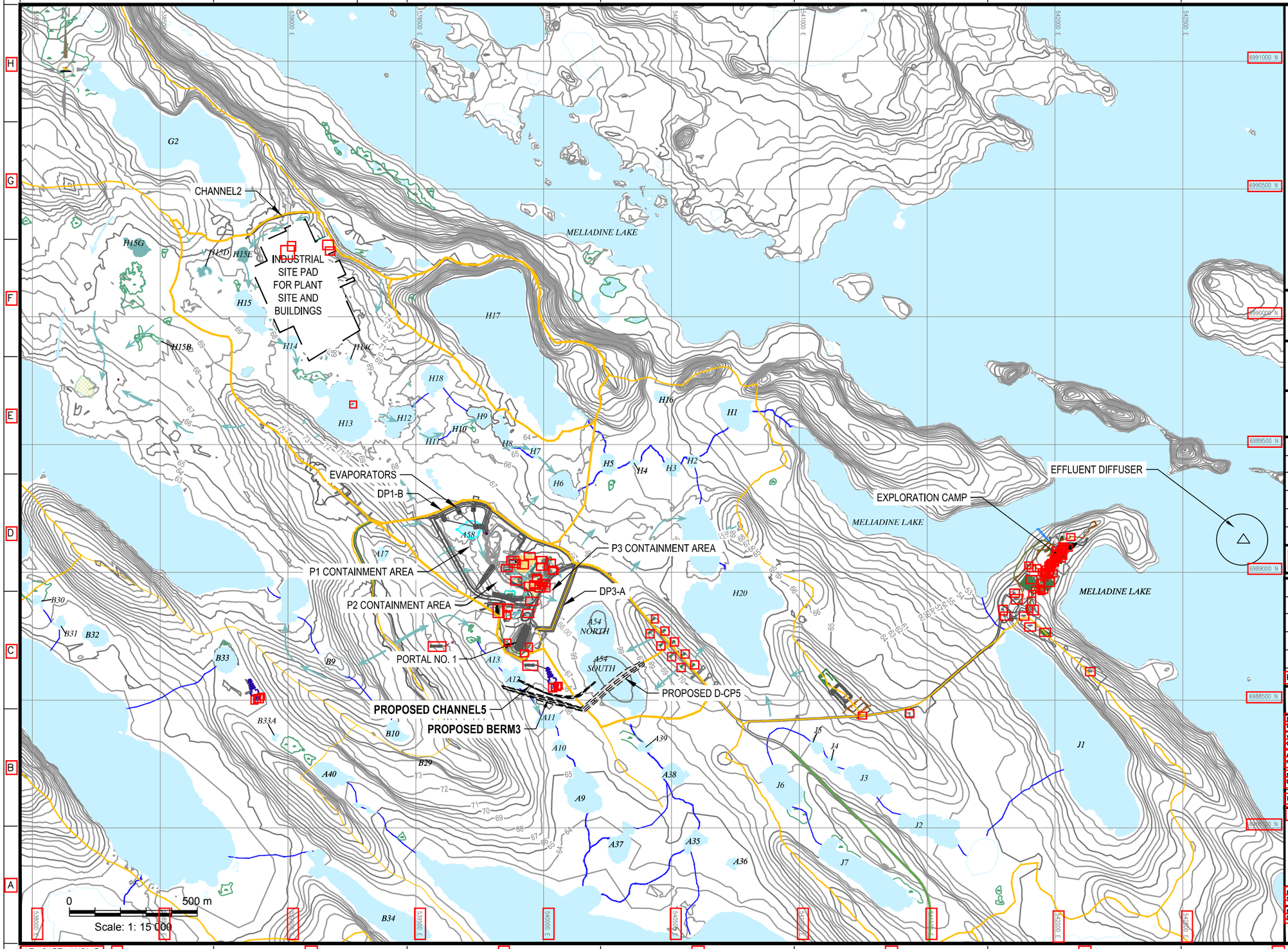

LEGEND

- CATCHMENT BOUNDARY (EXISTING GROUND)
- WATERBODY
- WATER FLOW DIRECTION
- STREAM
- INDUSTRIAL SITE PAD

AGNICO EAGLE

TETRA TECH EBA

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No. PROJET / PROJECT NO.	6515	
DATE		

TITRE / TITLE

AGNICO EAGLE MELIADINE GOLD PROJECT
FIGURE 2
PROPOSED LAYOUT PLAN
FOR CHANNEL5 AND BERM3
(CURRENT SITE CONDITION)

ÉCHELLE / SCALE | FICHIER / FILE

No. DESSIN / DRAWING NO. | REVISION 0 | FEUILLE/SHT 1 / 1

AE–CART–ANSI B

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NO. DESSIN
DRAWING NO.

FORMAT ANSI B–11x17

TEMPORARY OVERBURDEN STOCKPILE
CHANNEL2
INDUSTRIAL SITE PAD
FRESH WATER INTAKE CAUSEWAY
LANDFARM
WTP INTAKE CAUSEWAY
WATER TREATMENT PLANT
ORE STOCKPILE PAD
CHANNEL1
CP1
TAILINGS STORAGE FACILITY (TSF)
CULVERT1
CULVERT3
CULVERT2
ORE STOCKPILE PAD
CP3
D-CP3
LANDFILL
CULVERT4
CHANNEL3
CULVERT5
CHANNEL6
CHANNEL7
CHANNEL8
BERM1
CHANNEL4
WASTE ROCK & OVERBURDEN STORAGE FACILITY 2 (WRSF2)
WASTE ROCK & OVERBURDEN STORAGE FACILITY 1 (WRSF1)
D-CP1
D-CP6
CP6 JETTY
CP6
SALINE WATER STORAGE POND
WASTE ROCK & OVERBURDEN STORAGE FACILITY 3 (WRSF3)
D-CP4
CP4
CP5 NORTH
CP5 JETTY
CP5 SOUTH
D-CP5
CULVERT6
CHANNEL5
BERM3
TIRIGANIAQ PIT 2 (TIRI_1000_02)
TIRIGANIAQ PIT 1 (TIRI_1000_01)
EXPLORATION CAMP
EFFLUENT DIFFUSER
MELIADINE LAKE
BERM2

0 500 m
Scale: 1: 15 000

LEGEND

- CATCHMENT BOUNDARY
- SERVICE ROAD
- HAUL ROAD
- WATERBODY
- WATER COLLECTION POND
- DRAINED POND AREA
- OPEN PIT
- OVERBURDEN
- WASTE ROCK
- ORE
- TAILINGS
- INDUSTRIAL SITE PAD
- CONTACT WATER FLOW DIRECTION

AGNICO EAGLE

TETRA TECH EBA

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No. PROJET / PROJECT NO.	6515	
DATE		

TITRE / TITLE

AGNICO EAGLE – MELIADINE GOLD PROJECT
FIGURE 3 GENERAL SITE LAYOUT PLAN
FOR PROPOSED INFRASTRUCTURE
DURING MINE OPERATION (YEAR 7)

ÉCHELLE/SCALE	FICHIER/FILE	REVISION	FEUILLE/SHT
1:15000	.DWG	0	1 / 1

No. DESSIN/DRAWING NO.

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APPENDIX A
CONSTRUCTION DRAWINGS

Drawing 65-695-230-211	Channel 5 – Design Profile and Layout
Drawing 65-695-230-212	Channel 5 – Cross-sections
Drawing 65-695-230-213	Channel 5 – Typical Section and Cross-sections
Drawing 65-695-230-214	Berm 3 – Design Profile and Layout
Drawing 65-695-230-215	Berm 3 – Cross-sections
Drawing 65-695-230-216	Berm 3 – Typical Section and Cross-sections

NO. DESSIN
DRAWING NO. **65-695-230-211-213_CHANNEL5 - IFC**

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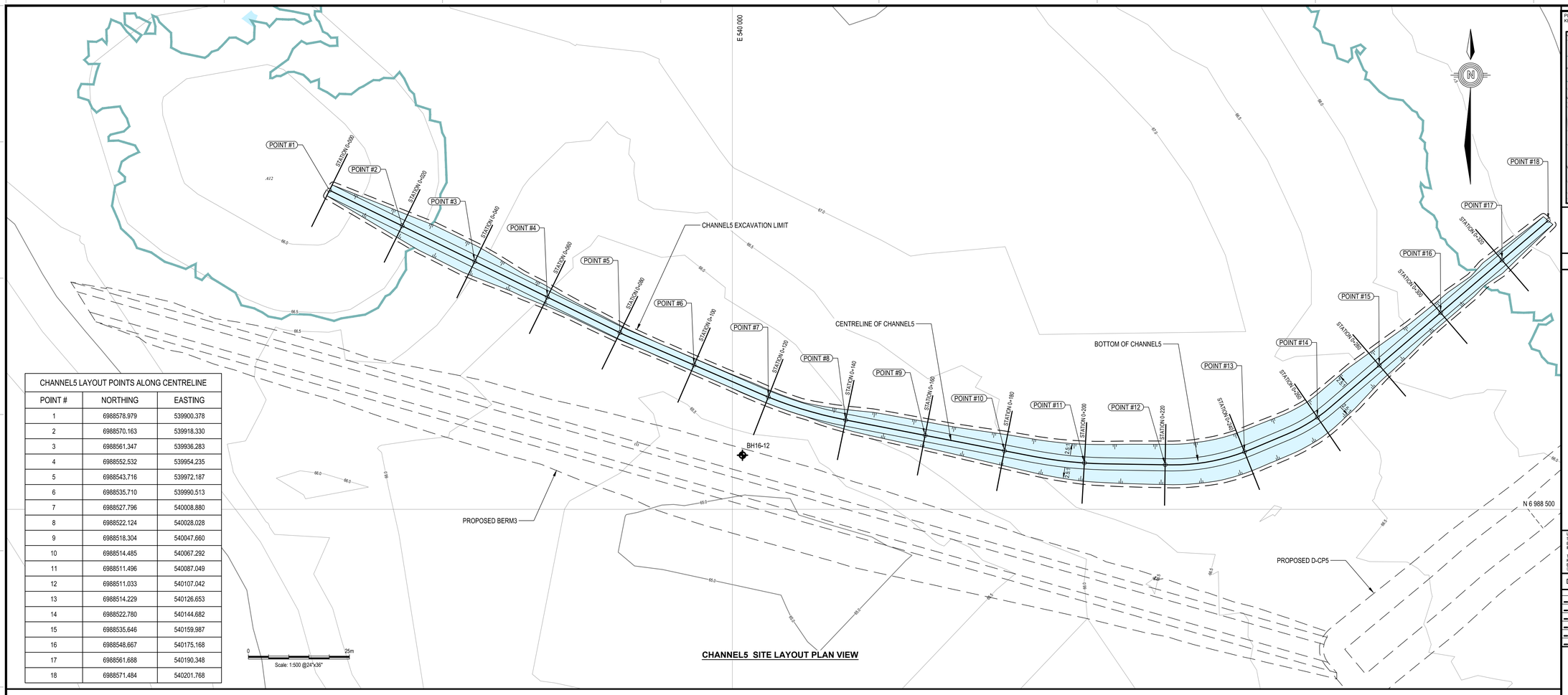
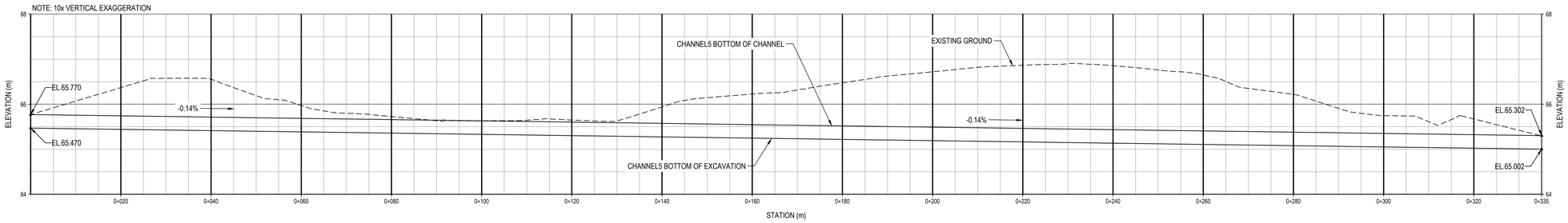


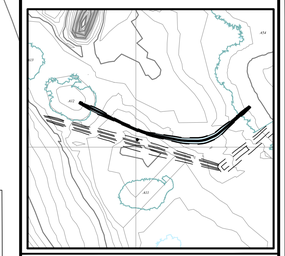
CHANNEL5 SITE LAYOUT PLAN VIEW

CHANNEL5 LAYOUT POINTS ALONG CENTRELINE		
POINT #	NORTHING	EASTING
1	6988578.979	539900.378
2	6988570.163	539918.330
3	6988561.347	539936.283
4	6988552.532	539954.235
5	6988543.716	539972.187
6	6988535.710	539990.513
7	6988527.796	540008.880
8	6988522.124	540028.028
9	6988518.304	540047.660
10	6988514.485	540067.292
11	6988511.496	540087.049
12	6988511.033	540107.042
13	6988514.229	540126.653
14	6988522.780	540144.682
15	6988535.646	540159.987
16	6988548.667	540175.168
17	6988561.688	540190.348
18	6988571.484	540201.768



PROFILE OF CHANNEL5 ALONG CENTRELINE

PLAN CLÉ
KEY PLAN



TETRA TECH EBA

NOTES GÉNÉRALES / GENERAL NOTES

NOTES:
1. ASSUMING CHANNEL5 WILL BE CONSTRUCTED IN OCTOBER AND EARLY NOVEMBER 2016
2. ASSUMING GEOTEXTILE THAT MEETS MATERIAL SPECIFICATIONS WILL BE AVAILABLE AT THE SITE FOR CHANNEL5 CONSTRUCTION

LEGEND

BOREHOLE

POUR CONSTRUCTION
FOR CONSTRUCTION
AGNICO EAGLE
DATE : 2016-09-20

PERMIT TO PRACTICE
TETRA TECH EBA INC.
Signature
Date SEPT. 20, 2016
PERMIT NUMBER: P 018
NT/NU Association of Professional Engineers and Geoscientists

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REVISIONS

REGISTERED PROFESSIONAL ENGINEER — G. ZHANG — LICENSEE — NWT/NU

REGISTERED PROFESSIONAL ENGINEER — RYAN M. JONES — License — NWT

TITRE / TITLE
AGNICO EAGLE MELIADINE GOLD PROJECT

CHANNEL5 LAYOUT PLAN AND PROFILE

DESSINÉ PAR / DRAWN BY	DBD	DATE 2016-09-20
VERIFIÉ PAR / CHECKED BY	GZ	2016-09-20
APPROUVÉ PAR / APPROVED BY	KJ	2016-09-20
ÉCHELLE / SCALE		DATE 2016-09-20
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NO. PROJET / PROJECT NO. 6515	REVISION 0	FEUILLE / SHT 1 / 3

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FILE NO. **65-695-230-211-213_CHANNEL5 - IFC.dwg**

NO. DESSIN
DRAWING NO. **65-695-230-211-213_CHANNEL5 - IFC**

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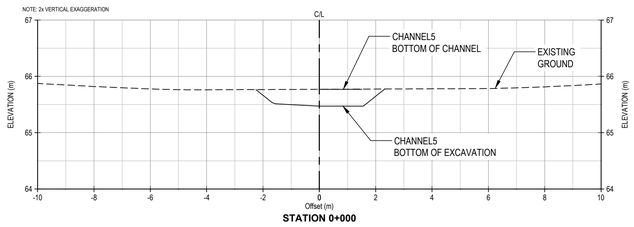

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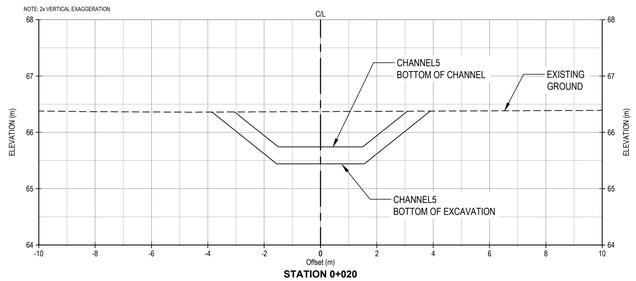

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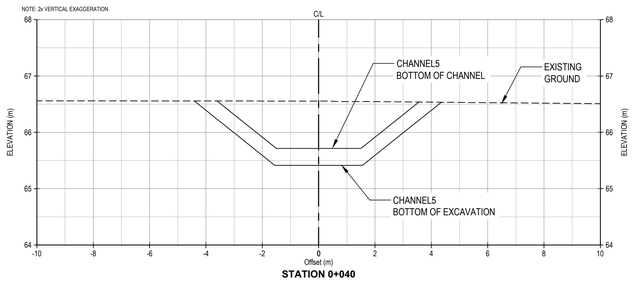

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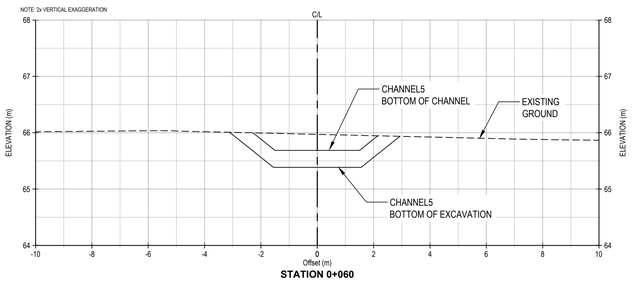

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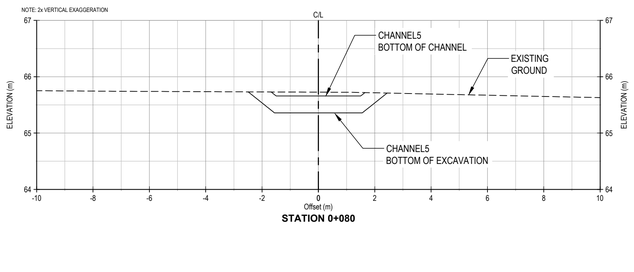

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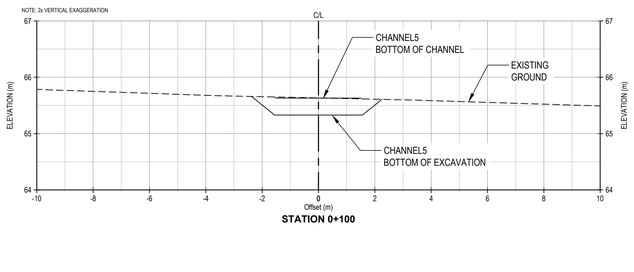

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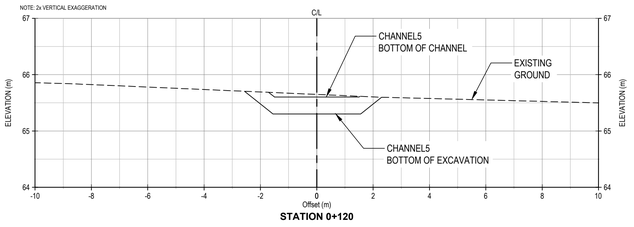

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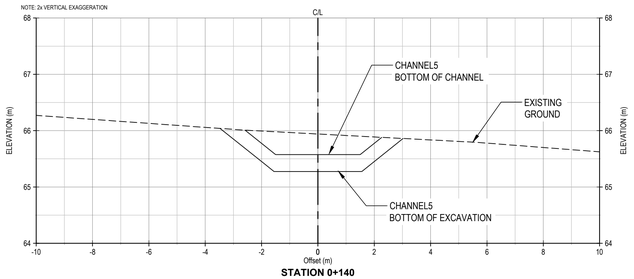

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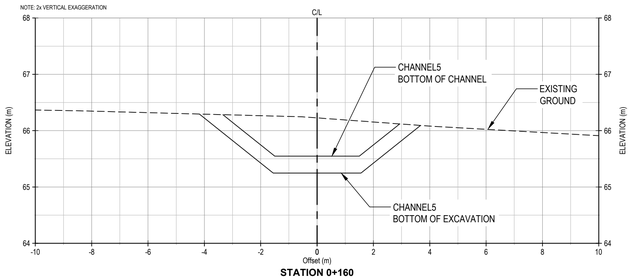

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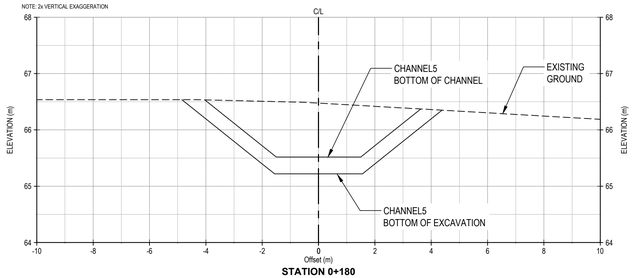

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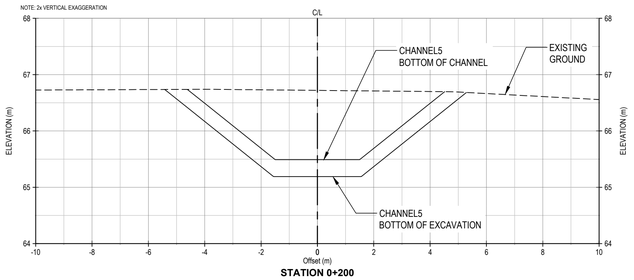

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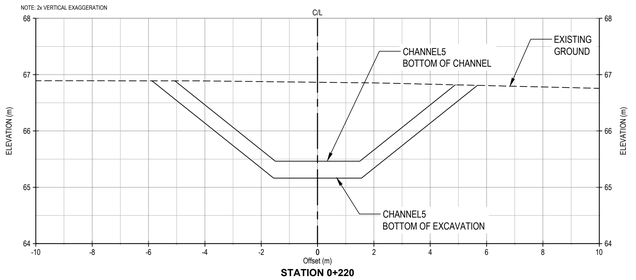

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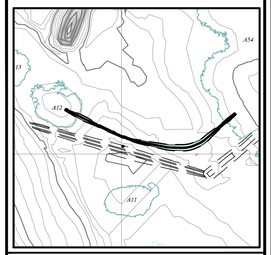
KEY PLAN



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NOTES GÉNÉRALES / GENERAL NOTES

NOTES:
1. IF THE EXCAVATION IS CONDUCTED WHEN THE OVERBURDEN SOILS ARE FROZEN, BEDDING MATERIAL MAY BE REQUIRED TO BE PLACED OVER THE EXCAVATED SURFACE TO FORM SMOOTH SURFACE FOR GEOTEXTILE INSTALLATION

POUR CONSTRUCTION
FOR CONSTRUCTION
AGNICO EAGLE
DATE : 2016-09-20

PERMIT TO PRACTICE
TETRA TECH EBA INC.
Signature
Date SEPT. 20, 2016
PERMIT NUMBER: P 018
NT/NU Association of Professional Engineers and Geoscientists

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REVISIONS

REGISTERED PROFESSIONAL ENGINEER G. ZHANG LICENSEE NWT/NU

REGISTERED PROFESSIONAL ENGINEER RYAN M. JONES License NWT

TITRE / TITLE
AGNICO EAGLE MELIADINE GOLD PROJECT

CHANNEL5 DESIGN SECTIONS

DESSINÉ PAR / DRAWN BY	DBD	DATE 2016-09-20
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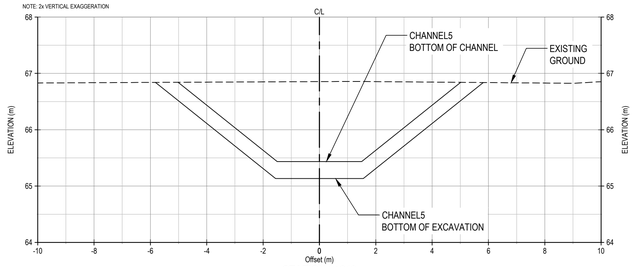

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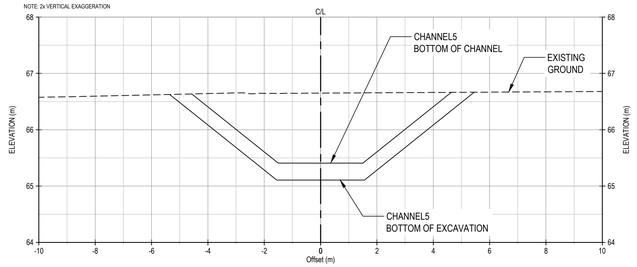

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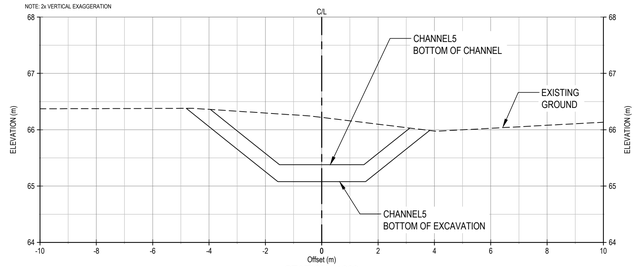

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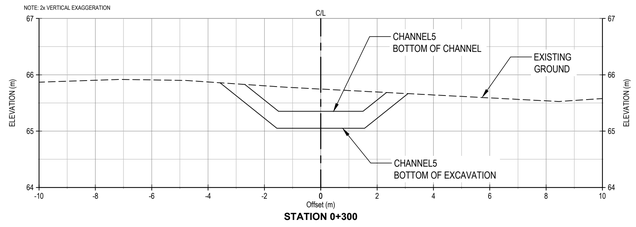

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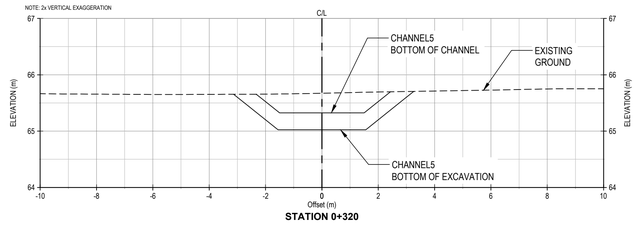

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CHANNEL5 DESIGN CROSS-SECTIONS

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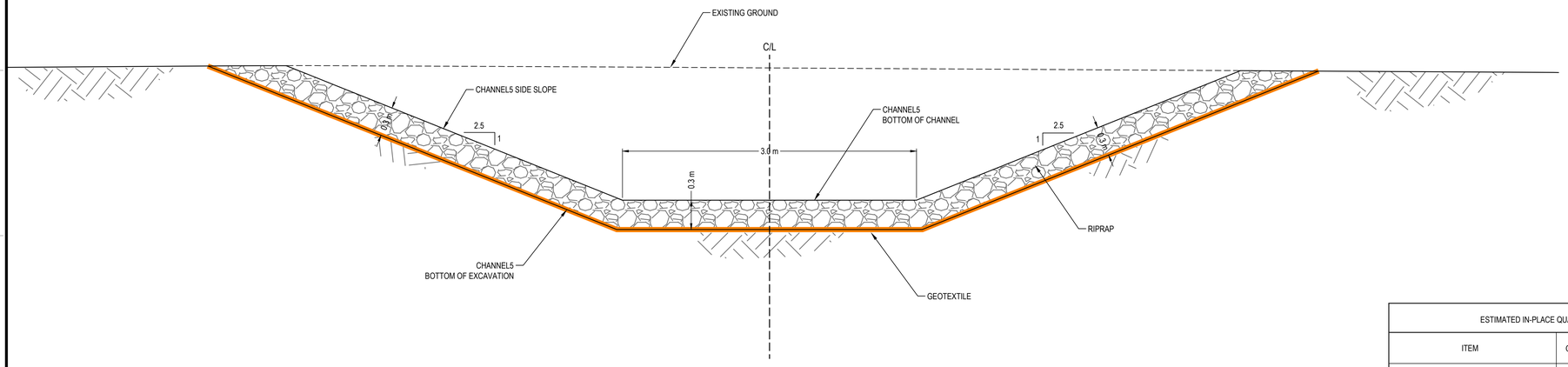
Scale: 1:100 @ 24"x36"



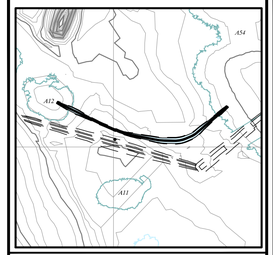
CHANNEL5 TYPICAL DESIGN CROSS-SECTION

0 1m
Scale: 1:25 @ 11"x17"

ESTIMATED IN-PLACE QUANTITIES FOR CHANNEL5 CONSTRUCTION		
ITEM	QUANTITIES [a]	NOTES
TOTAL EXCAVATION	1,894 cu.m.	ASSUMING EXCAVATION IN UNFROZEN CONDITION
RIPRAP	601 cu.m.	20 mm TO 200 mm OR 50 mm TO 300 mm
GEOTEXTILE [b]	2,737 sq.m.	TO BE PROVIDED BY AGNICO EAGLE

[a] MATERIAL QUANTITIES WERE ESTIMATED BASED ON THE ASSUMPTION OF 2.5H TO 1V EXCAVATION SIDE SLOPE
[b] MATERIAL QUANTITIES FOR GEOTEXTILES DOES NOT INCLUDE OVERLAPS OR EXCESS

PLAN CLÉ
KEY PLAN



TETRA TECH EBA

NOTES GÉNÉRALES / GENERAL NOTES

NOTES:
1. IF THE EXCAVATION IS CONDUCTED WHEN THE OVERBURDEN SOILS ARE FROZEN, BEDDING MATERIAL MAY BE REQUIRED TO BE PLACED OVER THE EXCAVATED SURFACE TO FORM SMOOTH SURFACE FOR GEOTEXTILE INSTALLATION

POUR CONSTRUCTION
FOR CONSTRUCTION
AGNICO EAGLE
DATE : 2016-09-20

PERMIT TO PRACTICE
TETRA TECH EBA INC.
Signature
Date SEPT. 20, 2016
PERMIT NUMBER: P 018
NT/NU Association of Professional Engineers and Geoscientists

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AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT
0	2016-09-20	ISSUED FOR CONSTRUCTION	EL	GZ	
A	2016-09-15	ISSUED FOR REVIEW	DBD	GZ	

REVISIONS

REGISTERED PROFESSIONAL ENGINEER G. ZHANG LICENSEE NWT/NU
REGISTERED PROFESSIONAL ENGINEER RYAN M. JONES LICENSEE NWT

TITRE / TITLE
AGNICO EAGLE MELIADINE GOLD PROJECT
CHANNEL5 TYPICAL AND DESIGN SECTIONS

DESSINÉ PAR / DRAWN BY	DBD	DATE 2016-09-20
VERIFIÉ PAR / CHECKED BY	GZ	2016-09-20
APPROUVÉ PAR / APPROVED BY	KJ	2016-09-20
ÉCHELLE / SCALE		DATE 2016-09-20

NO. DESSIN / DRAWING NO. 65-695-230-213

NO. PROJET / PROJECT NO.	REVISION	FEUILLE / SHT
6515	0	3 / 3

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FILE NO. **65-695-230-211-213_CHANNEL5 - IFC.dwg**

NO. DESSIN
DRAWING NO. **65-695-230-214-216_BERM3 – IFC**

FORMAT ARCHD

BERM3 LAYOUT POINTS ALONG CENTRELINE		
POINT #	NORTHING	EASTING
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2	6988545.911	539858.719
3	6988540.463	539877.963
4	6988535.015	539897.207
5	6988529.567	539916.450
6	6988524.119	539935.694
7	6988518.671	539954.938
8	6988513.223	539974.181
9	6988507.775	539993.425
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11	6988496.879	540031.912
12	6988491.431	540051.156
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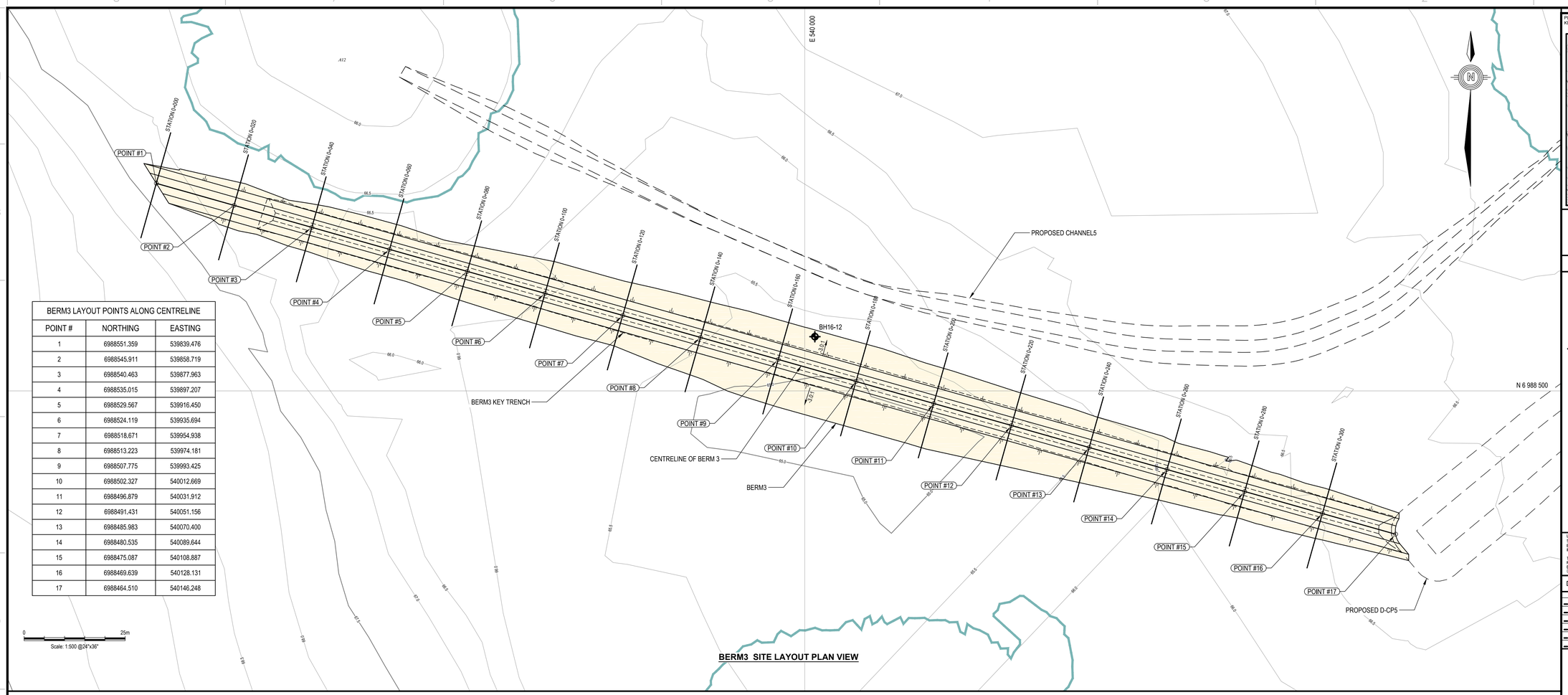
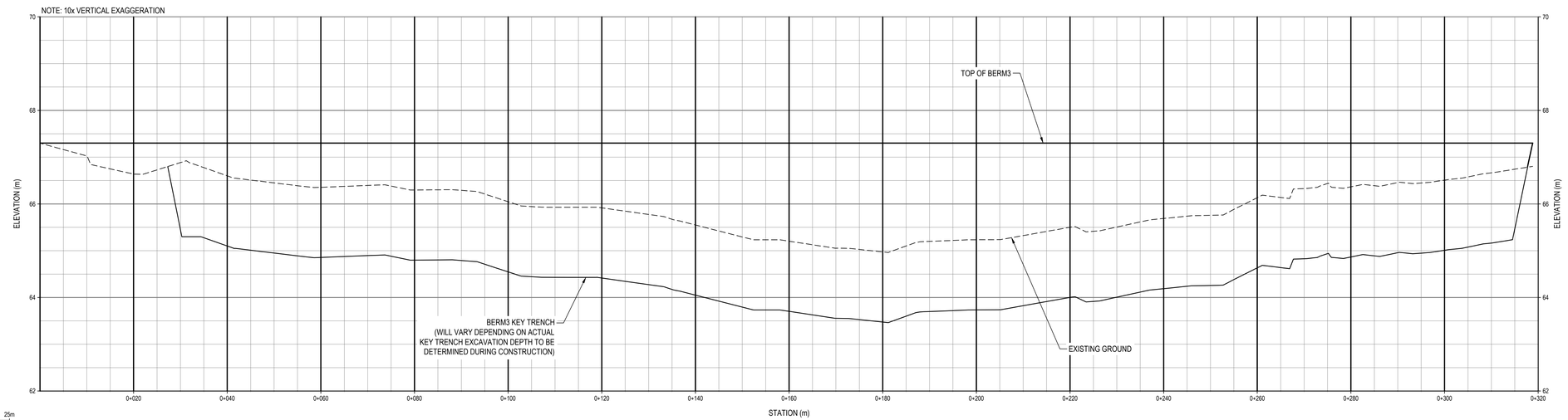
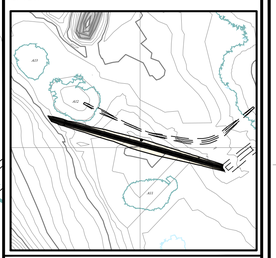


BERM3 SITE LAYOUT PLAN VIEW



PROFILE OF BERM3 ALONG CENTRELINE

PLAN CLÉ
KEY PLAN



TETRA TECH EBA

NOTES GÉNÉRALES / GENERAL NOTES

NOTES:
1. ASSUMING BERM3 WILL BE CONSTRUCTED IN OCTOBER AND EARLY NOVEMBER 2016
2. ASSUMING SELECTED UNFROZEN TILL FILL THAT MEETS MATERIAL SPECIFICATIONS WILL BE AVAILABLE AT THE SITE FOR BERM3 CONSTRUCTION

LEGEND

BOREHOLE

POUR CONSTRUCTION
FOR CONSTRUCTION
AGNICO EAGLE
DATE : 2016-09-20

PERMIT TO PRACTICE
TETRA TECH EBA INC.
Signature
Date SEPT. 20, 2016
PERMIT NUMBER: P 018
NT/NU Association of Professional Engineers and Geoscientists

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A	2016-09-15	ISSUED FOR REVIEW	DBD	GZ	

REVISIONS

REGISTERED PROFESSIONAL ENGINEER
G. ZHANG
LICENSEE
NWT/NU

REGISTERED PROFESSIONAL ENGINEER
KEVIN M. JONES
NWT

TITRE / TITLE
AGNICO EAGLE MELIADINE GOLD PROJECT

BERM3 LAYOUT PLAN AND PROFILE

DESSINÉ PAR / DRAWN BY	DBD	DATE 2016-09-20
VERIFIÉ PAR / CHECKED BY	GZ	2016-09-20
APPROUVÉ PAR / APPROVED BY	KJ	2016-09-20
ÉCHELLE / SCALE		DATE 2016-09-20
NO. DESSIN / DRAWING NO.	65-695-230-214	
NO. PROJET / PROJECT NO. 6515	REVISION 0	FEUILLE / SHT 1 / 3

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FILE NO. **65-695-230-214-216_BERM3 – IFC.dwg**

NO. DESSIN
DRAWING NO. **65-695-230-214-216_BERM3 – IFC**

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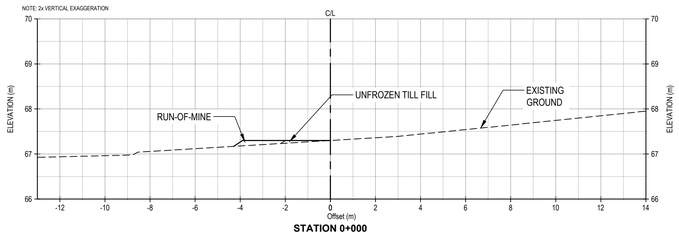

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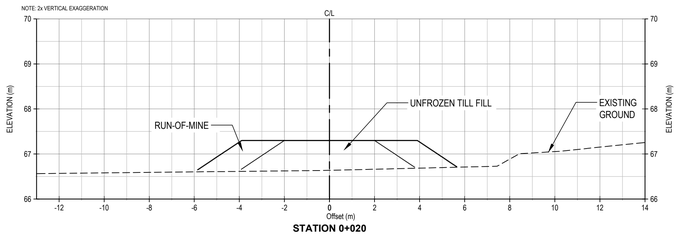

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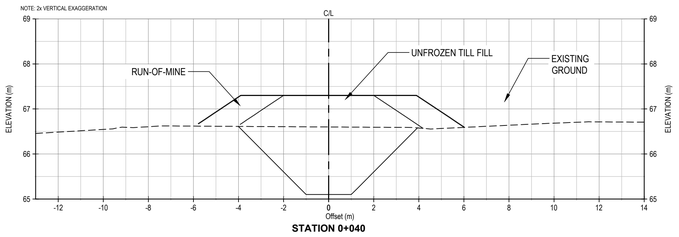

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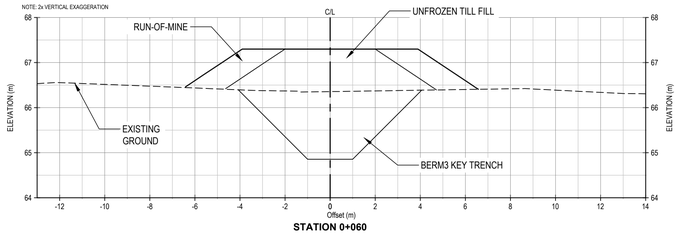

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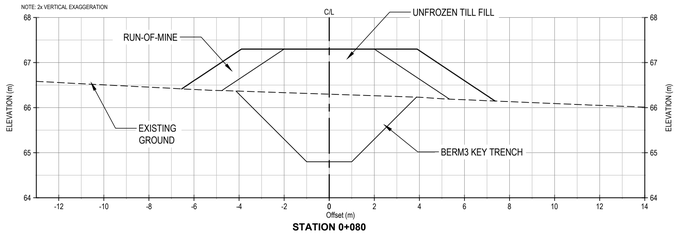

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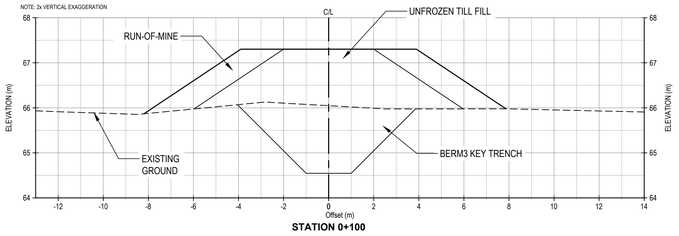

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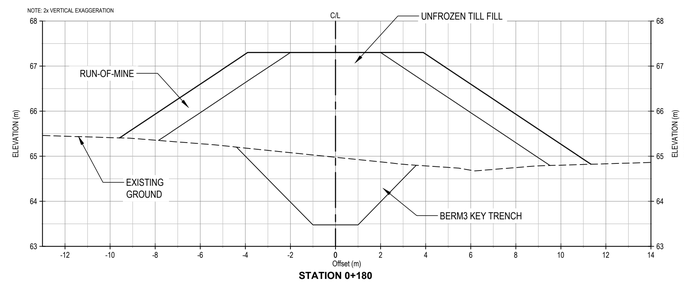
STATION 0+120

STATION 0+140

STATION 0+160



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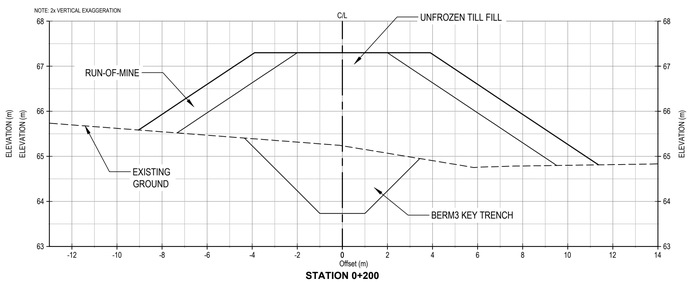

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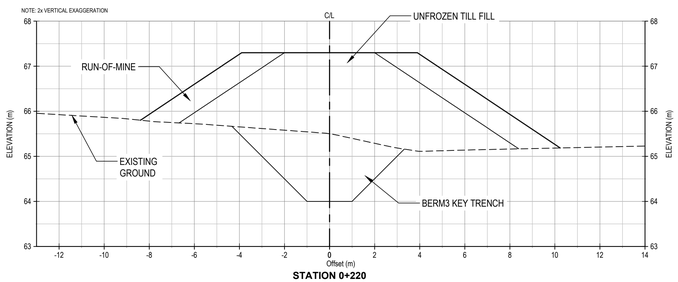

STATION 0+220

0 5m
Scale: 1:125 @ 24"x36"

PLAN CLÉ
KEY PLAN

TETRA TECH EBA

NOTES GÉNÉRALES / GENERAL NOTES

POUR CONSTRUCTION
FOR CONSTRUCTION
AGNICO EAGLE
DATE : 2016-09-20

PERMIT TO PRACTICE
TETRA TECH EBA INC.
Signature
Date SEPT. 20, 2016
PERMIT NUMBER: P 018
NT/NU Association of Professional Engineers and Geoscientists

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AGNICO EAGLE

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A	2016-09-15	ISSUED FOR REVIEW	DBD	GZ	

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — G. ZHANG — LICENSEE — NWT/NU

REGISTERED PROFESSIONAL ENGINEER — RYAN M. JONES — Licensee — NWT

TITRE / TITLE
AGNICO EAGLE MELIADINE GOLD PROJECT

BERM3 DESIGN SECTIONS

DESSINÉ PAR / DRAWN BY	DBD	DATE 2016-09-20
VERIFIÉ PAR / CHECKED BY	GZ	2016-09-20
APPROUVÉ PAR / APPROVED BY	KJ	2016-09-20
ÉCHELLE / SCALE		DATE 2016-09-20

NO. DESSIN / DRAWING NO.
65-695-230-215

NO. PROJET / PROJECT NO.	REVISION	FEUILLE / SHT
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FILE NO. **65-695-230-214-216_BERM3 – IFC.dwg**

NO. DESSIN
DRAWING NO. **65-695-230-214-216_BERM3 – IFC**

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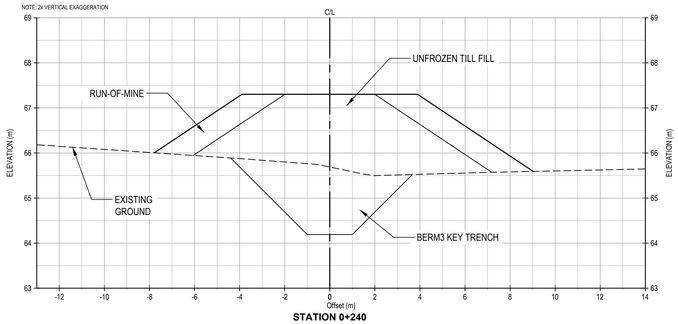

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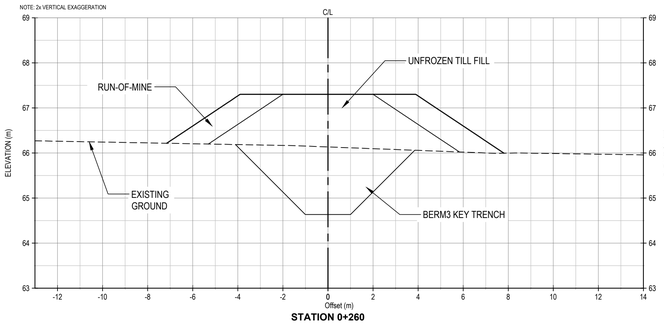

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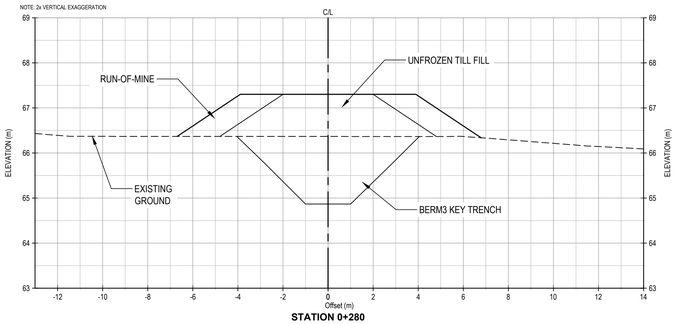

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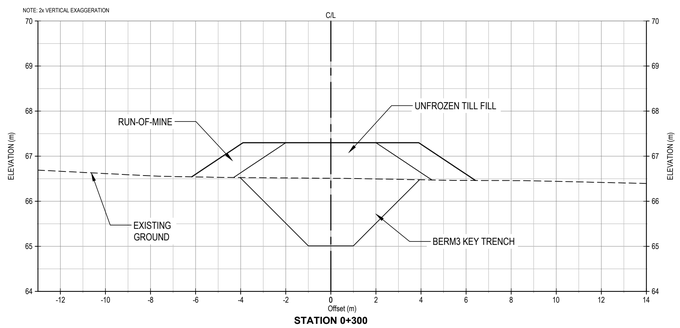

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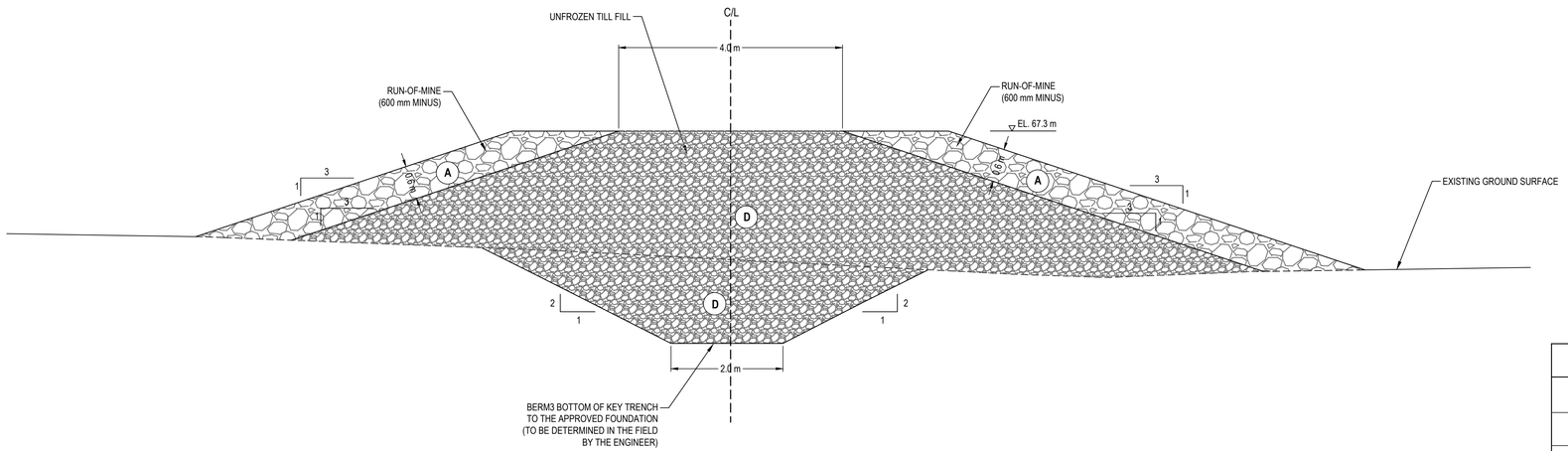
0 5m
Scale: 1:125 @ 24"x36"

BERM 3 DESIGN CROSS SECTIONS



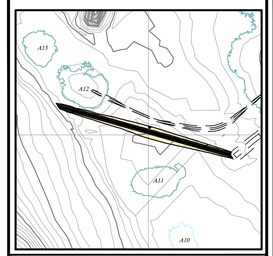
BERM3 TYPICAL DESIGN CROSS SECTION

0 2.5m
Scale: 1:50 @ 11"x17"

ESTIMATED IN-PLACE QUANTITIES FOR BERM3 CONSTRUCTION		
ITEM	QUANTITIES	NOTES
TOTAL EXCAVATION [a]	2,160 cu.m.	ASSUMING EXCAVATION IN UNFROZEN CONDITION
SELECTED UNFROZEN TILL FILL (TYPE D) [a]	5,820 cu.m.	0-300 mm, NON-ORGANIC SANDY/GRAVELLY TILL WITH 20% TO 60% FINES (<0.075 mm)
RUN-OF-MINE (TYPE A)	1,585 cu.m.	0-600 mm RUN-OF-MINE ROCK

[a] MATERIAL QUANTITIES WERE ESTIMATED BASED ON THE ASSUMPTION OF 1.5 m KEY TRENCH EXCAVATION. THE ACTUAL DEPTH MAY VARY.

PLAN CLÉ
KEY PLAN



TETRA TECH EBA

NOTES GÉNÉRALES / GENERAL NOTES

POUR CONSTRUCTION
FOR CONSTRUCTION
AGNICO EAGLE
DATE : 2016-09-20

PERMIT TO PRACTICE
TETRA TECH EBA INC.
Signature
Date SEPT. 20, 2016
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A	2016-09-15	ISSUED FOR REVIEW	DBD	GZ	

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — G. ZHANG — LICENSEE — NWT/NU
REGISTERED PROFESSIONAL ENGINEER — KEVIN K. JONES — License — NWT

TITRE / TITLE
AGNICO EAGLE MELIADINE GOLD PROJECT

BERM3 TYPICAL AND DESIGN SECTIONS

DESSINÉ PAR / DRAWN BY	DBD	DATE 2016-09-20
VÉRIFIÉ PAR / CHECKED BY	GZ	2016-09-20
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FILE NO. **65-695-230-214-216_BERM3 – IFC.dwg**

APPENDIX B
GENREAL CONDITIONS

GENERAL CONDITIONS

GEOTECHNICAL REPORT

This report incorporates and is subject to these “General Conditions”.

1.0 USE OF REPORT AND OWNERSHIP

This geotechnical report pertains to a specific site, a specific development and a specific scope of work. It is not applicable to any other sites nor should it be relied upon for types of development other than that to which it refers. Any variation from the site or development would necessitate a supplementary geotechnical assessment.

This report and the recommendations contained in it are intended for the sole use of Tetra Tech EBA’s Client. Tetra Tech EBA does not accept any responsibility for the accuracy of any of the data, the analyses or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than Tetra Tech EBA’s Client unless otherwise authorized in writing by Tetra Tech EBA. Any unauthorized use of the report is at the sole risk of the user.

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2.0 ALTERNATE REPORT FORMAT

Where Tetra Tech EBA submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed Tetra Tech EBA’s instruments of professional service), only the signed and/or sealed versions shall be considered final and legally binding. The original signed and/or sealed version archived by Tetra Tech EBA shall be deemed to be the original for the Project.

Both electronic file and hard copy versions of Tetra Tech EBA’s instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except Tetra Tech EBA. Tetra Tech EBA’s instruments of professional service will be used only and exactly as submitted by Tetra Tech EBA.

Electronic files submitted by Tetra Tech EBA have been prepared and submitted using specific software and hardware systems. Tetra Tech EBA makes no representation about the compatibility of these files with the Client’s current or future software and hardware systems.

3.0 ENVIRONMENTAL AND REGULATORY ISSUES

Unless stipulated in the report, Tetra Tech EBA has not been retained to investigate, address or consider and has not investigated, addressed or considered any environmental or regulatory issues associated with development on the subject site.

4.0 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

Classification and identification of soils and rocks are based upon commonly accepted systems and methods employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system or method prevail, they are specifically mentioned.

Classification and identification of geological units are judgmental in nature as to both type and condition. Tetra Tech EBA does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

Where subsurface conditions encountered during development are different from those described in this report, qualified geotechnical personnel should revisit the site and review recommendations in light of the actual conditions encountered.

5.0 LOGS OF TESTHOLES

The testhole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive. Any circumstance which requires precise definition of soil or rock zone transition elevations may require further investigation and review.

6.0 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of testholes and/or soil/rock exposures. Stratigraphy is known only at the locations of the testhole or exposure. Actual geology and stratigraphy between testholes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historic environment. Tetra Tech EBA does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional investigation and review may be necessary.

7.0 PROTECTION OF EXPOSED GROUND

Excavation and construction operations expose geological materials to climatic elements (freeze/thaw, wet/dry) and/or mechanical disturbance which can cause severe deterioration. Unless otherwise specifically indicated in this report, the walls and floors of excavations must be protected from the elements, particularly moisture, desiccation, frost action and construction traffic.

8.0 SUPPORT OF ADJACENT GROUND AND STRUCTURES

Unless otherwise specifically advised, support of ground and structures adjacent to the anticipated construction and preservation of adjacent ground and structures from the adverse impact of construction activity is required.

9.0 INFLUENCE OF CONSTRUCTION ACTIVITY

There is a direct correlation between construction activity and structural performance of adjacent buildings and other installations. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer when the final design and construction techniques are known.

10.0 OBSERVATIONS DURING CONSTRUCTION

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, as well as the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations may then serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein.

11.0 DRAINAGE SYSTEMS

Where temporary or permanent drainage systems are installed within or around a structure, the systems which will be installed must protect the structure from loss of ground due to internal erosion and must be designed so as to assure continued performance of the drains. Specific design detail of such systems should be developed or reviewed by the geotechnical engineer. Unless otherwise specified, it is a condition of this report that effective temporary and permanent drainage systems are required and that they must be considered in relation to project purpose and function.

12.0 BEARING CAPACITY

Design bearing capacities, loads and allowable stresses quoted in this report relate to a specific soil or rock type and condition. Construction activity and environmental circumstances can materially change the condition of soil or rock. The elevation at which a soil or rock type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geological materials of the type and in the condition assumed. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions assumed in this report in fact exist at the site.

13.0 SAMPLES

Tetra Tech EBA will retain all soil and rock samples for 30 days after this report is issued. Further storage or transfer of samples can be made at the Client's expense upon written request, otherwise samples will be discarded.

14.0 INFORMATION PROVIDED TO TETRA TECH EBA BY OTHERS

During the performance of the work and the preparation of the report, Tetra Tech EBA may rely on information provided by persons other than the Client. While Tetra Tech EBA endeavours to verify the accuracy of such information when instructed to do so by the Client, Tetra Tech EBA accepts no responsibility for the accuracy or the reliability of such information which may affect the report.