



December 20<sup>th</sup>, 2016

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

Kofi Boa-Antwi  
Technical Advisor II  
Nunavut Impact Review Board  
29 Mitik Street, Cambridge Bay, X0B 0C0

**Re: Water License 2BB-MEL1424 Part E, Item 6/NIRB Project Certificate 006 Condition 18-  
Submission of Construction Summary Report for the Exploration Landfill**

Mr. Kharatyan, Mr. Boa-Antwi,

In accordance with Water License 2BB-MEL1424, Part E, Item 6, and Project Certificate 006 Condition 18, please find enclosed with this letter a copy of the Construction Summary Report for the exploration landfill. Agnico Eagle is planning to start building the permanent landfill approved under water license 2AM-MEL1631 in July 2017.

Should you have any questions regarding this submission, do not hesitate to contact me.

Best regards,

**Agnico Eagle Mines Limited – Meliadine Division**

A handwritten signature in blue ink, appearing to read "Manon Turmel".

Manon Turmel  
manon.turmel@agnicoeagle.com  
819-759-3555 x8025  
Environmental Compliance Counselor

cc: *Jamie Quesnel, Agnico Eagle Mines*  
*Ian Parsons, Indigenous and Northern Affairs Canada*  
*Luis Manzo, Kivalliq Inuit Association*

# CONSTRUCTION SUMMARY (AS-BUILT) REPORT FOR EXPLORATION LANDFILL CELL (STAGE 1) MELIADINE GOLD PROJECT



PRESENTED TO  
**AGNICO EAGLE MINES LIMITED**

DECEMBER 19, 2016  
ISSUED FOR USE  
FILE: 704-E14103230-01 TASK 025

AGNICO EAGLE DOCUMENT NUMBER: 6515-E-132-007-132-REP-007

REVISION: 1

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## EXECUTIVE SUMMARY

Tetra Tech EBA Inc. (Tetra Tech) was retained by Agnico Eagle Mines Limited (Agnico Eagle) to prepare a construction summary (as-built) report for the Exploration Landfill Cell (stage 1) at the Meliadine Gold Project, Nunavut. Tetra Tech previously prepared the design drawing for construction of the exploration landfill cell (stage 1) in July 2016.

Tetra Tech was not involved in the construction of the exploration landfill cell (stage 1). The information presented in this report was provided by Agnico Eagle.

The construction of the exploration landfill cell (stage 1) started on October 4, 2016 and was completed on October 15, 2016. The construction monitoring was managed by Agnico Eagle.

This report summarizes the construction as-built information for the exploration landfill cell (stage 1).

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### APPENDICES

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## 1.0 INTRODUCTION

Tetra Tech EBA Inc. (Tetra Tech) was retained by Agnico Eagle Mines Limited (Agnico Eagle) to prepare a construction summary (as-built) report for the exploration landfill cell (stage 1) at the Meliadine Gold Project, Nunavut. Tetra Tech previously prepared the design drawing for construction of the exploration landfill cell (stage 1) in July 2016. The exploration landfill is located around a UTM (NAD83, Zone 15) coordinate of 539,425E and 6,989,250N.

Tetra Tech was not involved in the construction of the exploration landfill cell (stage 1). The information presented in this report was provided by Agnico Eagle.

This report is prepared to meet the requirements in the Water Licence 2BB-MEL1424 – Agnico Eagle Mines Limited for the Meliadine Gold Project.

## 2.0 CONSTRUCTION SCHEDULE AND MONITORING

The construction of the exploration landfill cell (stage 1) started on October 4, 2016 and was completed on October 15, 2016. The exploration landfill construction schedule is attached in Appendix A. The construction monitoring was managed by Agnico Eagle.

Appendix B presents photos taken after the completion of the construction of the exploration landfill cell (stage 1).

## 3.0 AS-BUILT DRAWING AND MATERIAL QUANTITIES

The as-built drawing for the exploration landfill cell (stage 1) is presented in Appendix C.

Table 1 summarizes the design and as-built construction material quantities.

**Table 1: Construction Material Quantities**

Item	Design Quantity (m <sup>3</sup> )	As-built Quantity (m <sup>3</sup> )
Excavation	2,672	332
Natural Till Fill	1,894	1,684
Transition (0 - 200 mm) Fill	409	415
Rockfill (0 - 30 mm)	109	89

## 4.0 CONSTRUCTION DEVIATIONS FROM DESIGN

The construction of the exploration landfill cell (stage 1) generally followed the design drawing, except for the following:

- The sub-excavation below the landfill footprint during the construction was shallower than that shown on the design drawing; and
- The as-built landfill floor elevation is approximately 0.4 m higher than shown on the design drawing.

## 5.0 LIMITATIONS

This report and its contents are intended for the sole use of Agnico Eagle Mines Limited (Agnico Eagle) and their agents. Tetra Tech EBA Inc. (Tetra Tech) 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 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. Tetra Tech's General Conditions are provided in Appendix D of this report.



## 6.0 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.



Reviewed by:  
Guangwen (Gordon) Zhang, Ph.D., P.Eng.  
Principal Specialist, Arctic Region  
Direct Line: 780.451.2130 x501  
GuangwenGordon.Zhang@tetrattech.com



Reviewed by:  
Kevin Jones, P.Eng.  
Vice President, Arctic Development  
Direct Line: 780.451.2130 x271  
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/jf

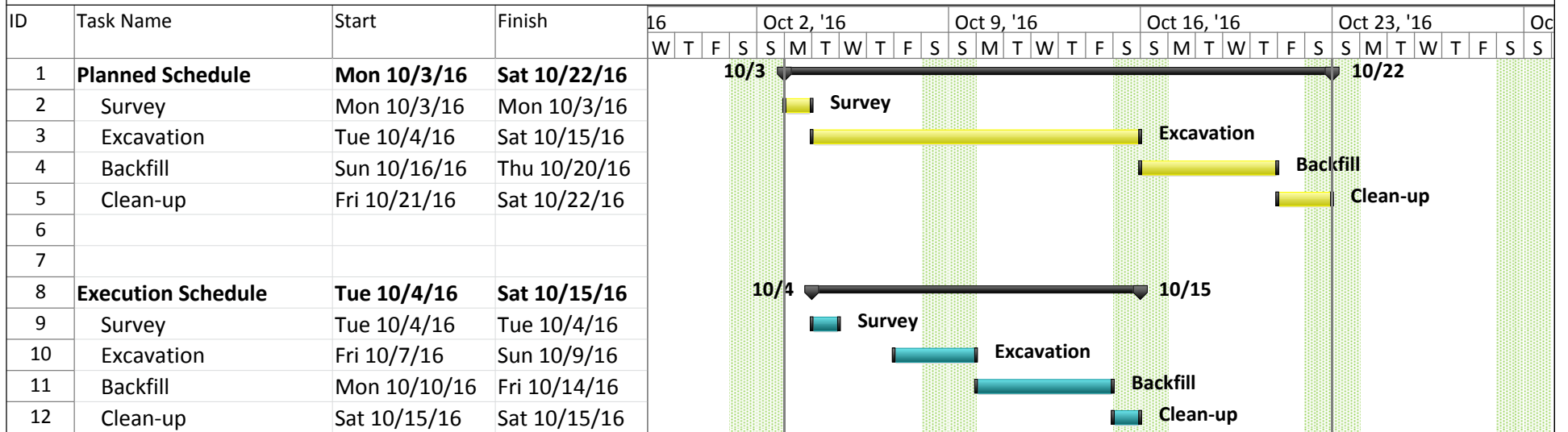


# APPENDIX A

## EXPLORATION LANDFILL CONSTRUCTION SCHEDULE

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## Exploration Landfill Construction



# APPENDIX B

## EXPLORATION LANDFILL PHOTOS

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**Photo 1:** Exploration Landfill Cell (Stage 1) - View from South



**Photo 2:** Exploration Landfill Cell (Stage 1) - View from South





**Photo 3:** Exploration Landfill Cell (Stage 1) - View from Southeast



**Photo 4:** Exploration Landfill Cell (Stage 1) - View from Southwest



**Photo 5:** Exploration Landfill Cell (Stage 1) - View from Southwest



**Photo 6:** Exploration Landfill Cell (Stage 1) - View from Northeast

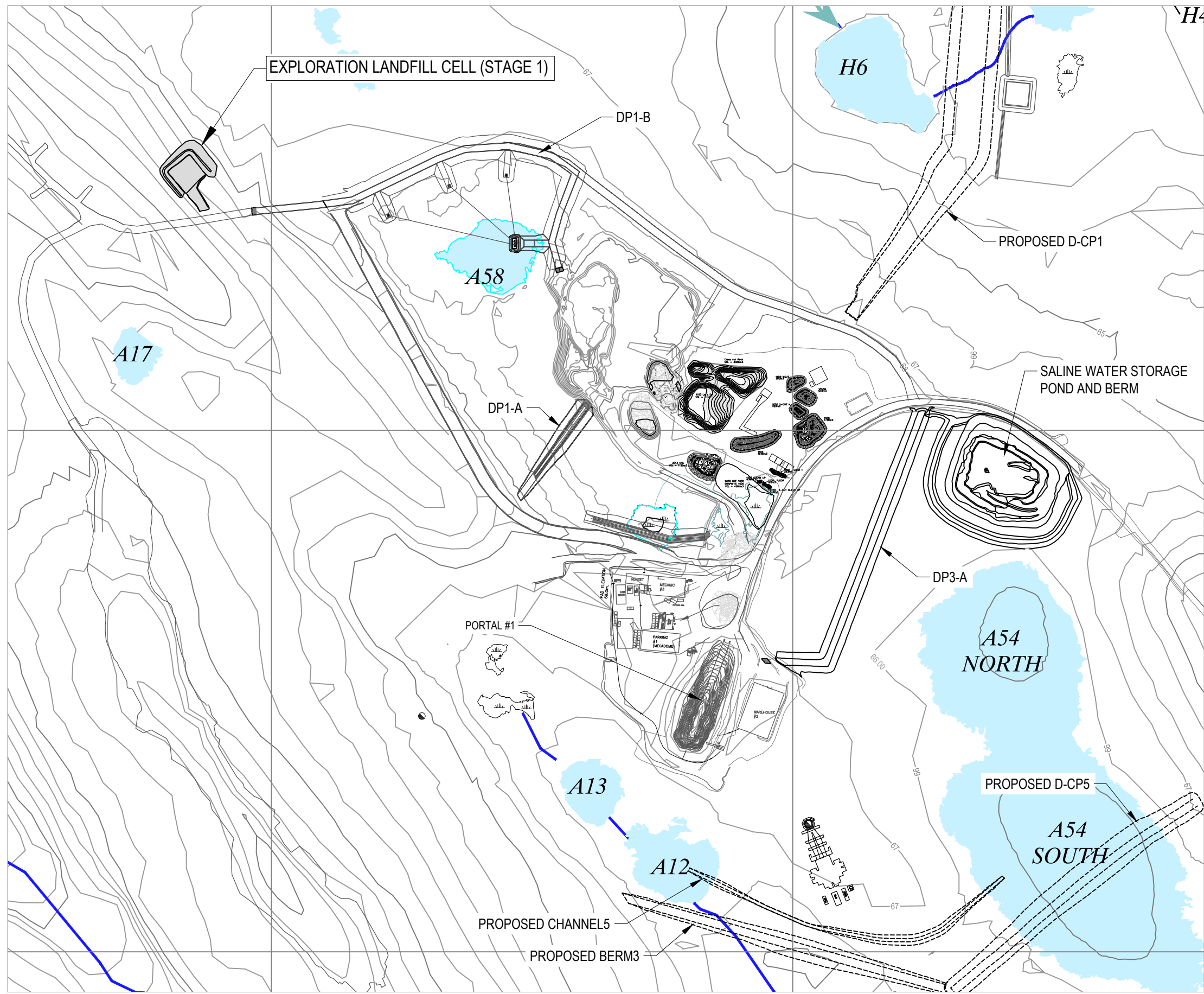


# APPENDIX C

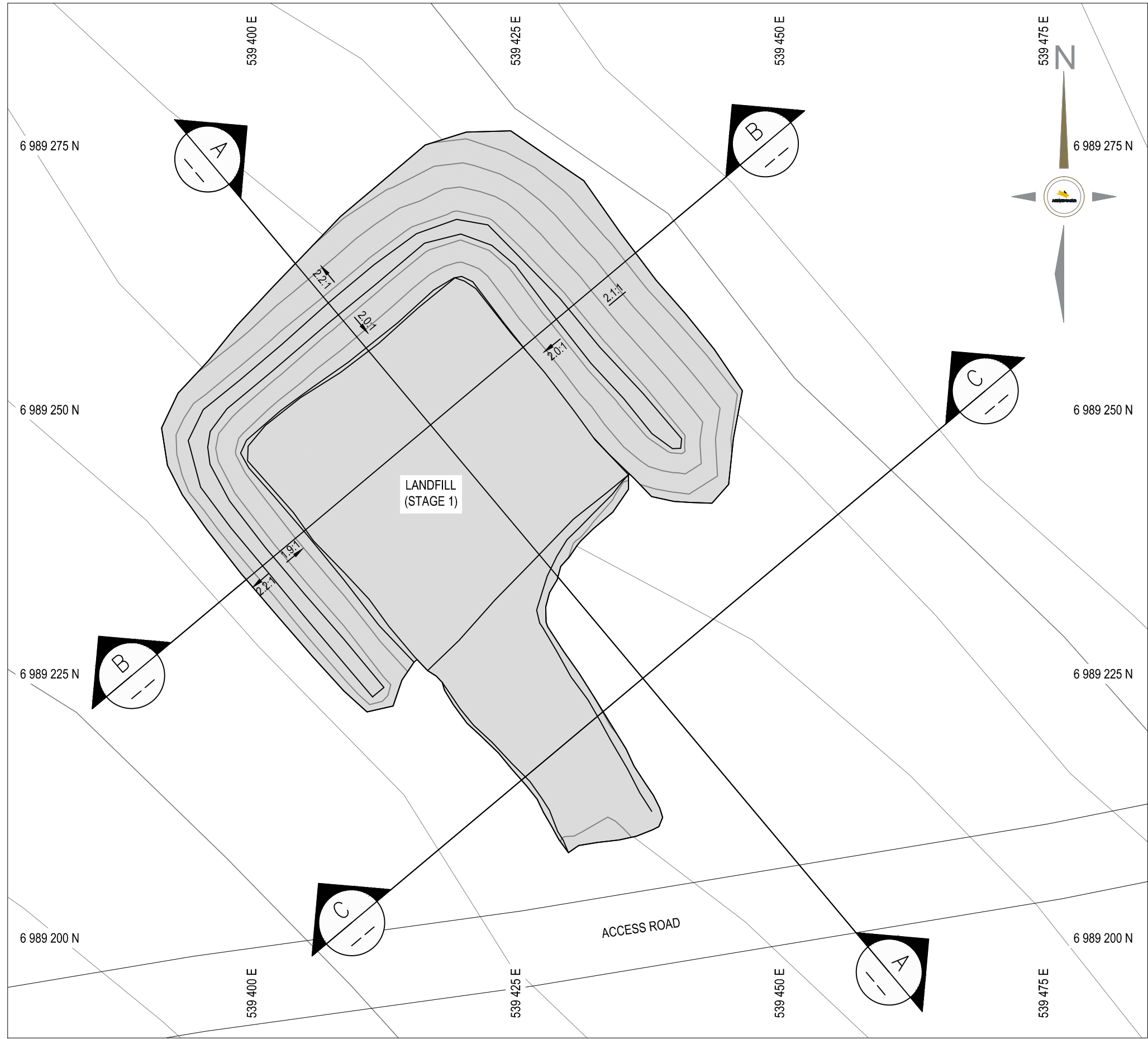
## EXPLORATION LANDFILL CELL (STAGE 1) AS-BUILT DRAWING

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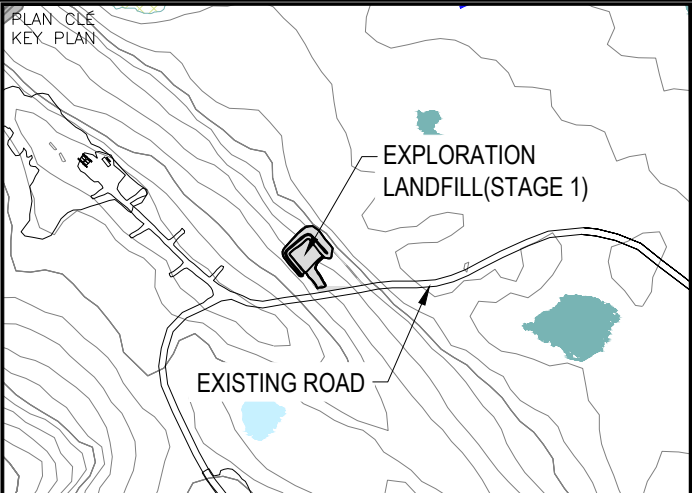
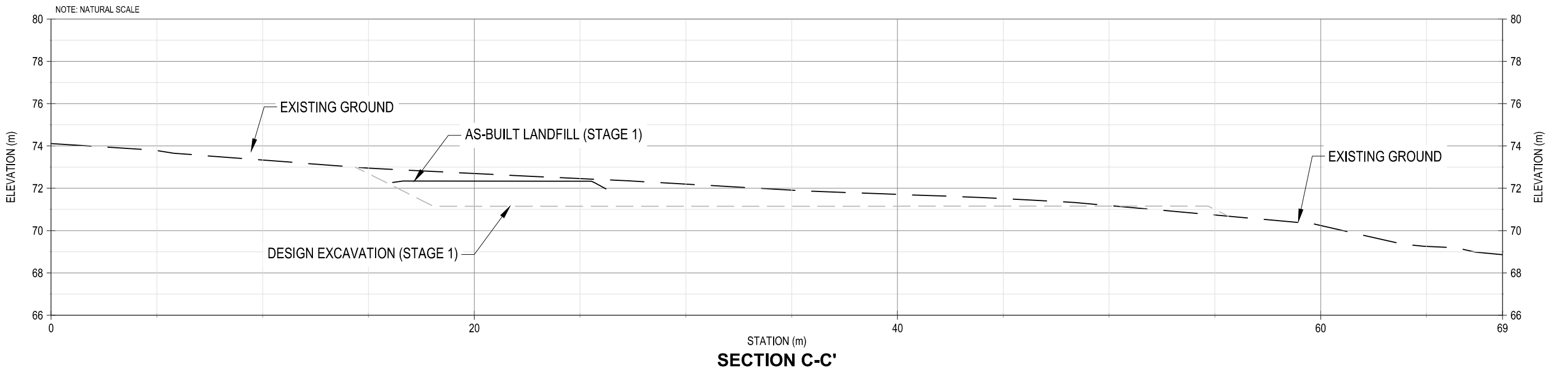
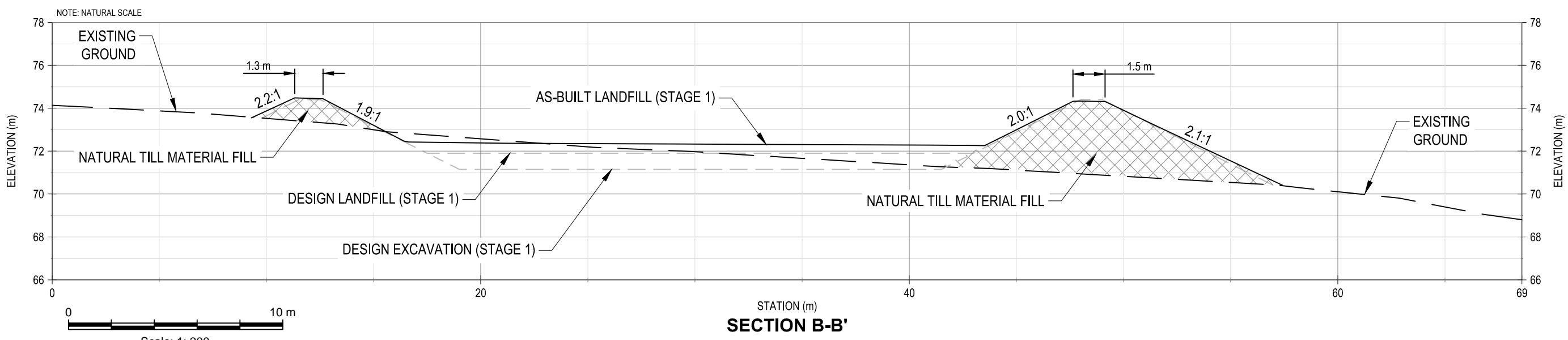
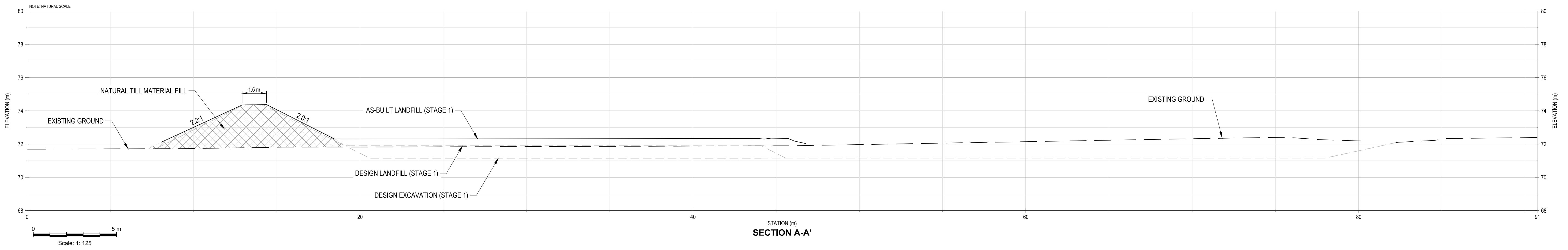




OVERALL LOCATION PLAN FOR EXPLORATION LANDFILL STAGE 1  
SCALE: N.T.S.



AS-BUILT SITE PLAN SHOWING STAGE 1 DEVELOPMENT  
SCALE: 1:400



NOTES GÉNÉRALES / GENERAL NOTES

- AS-BUILT SURVEY DATA PROVIDED BY AGNICO EAGLE ON NOVEMBER 10, 2016.

PERMIT TO PRACTICE  
TETRA TECH EBA INC.  
Signature: [Signature]  
Date: December 19, 2016  
PERMIT NUMBER: P 018  
NT/NU Association of Professional  
Engineers and Geoscientists

TEL QUE CONSTRUIT  
AS BUILT  
AGNICO EAGLE  
DATE: 2016-12-16

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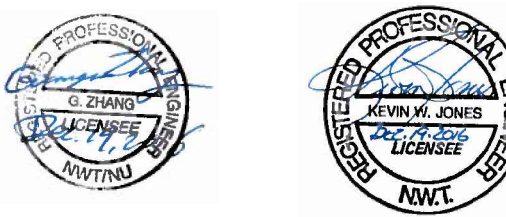
DESSINS EN REFERENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG



REV.	DATE	DESCRIPTION	PAR/APP.	CLIENT
1	2016-12-19	RE-ISSUED FOR RECORD	GZ	KJ
0	2016-12-16	ISSUED FOR RECORD	GZ	KJ
A	2016-12-15	ISSUED FOR REVIEW	GZ	KJ

REVISIONS



TITRE / TITLE  
AGNICO EAGLE MELIADINE GOLD PROJECT

EXPLORATION LANDFILL CELL (STAGE 1)  
AS-BUILT

DESSINÉ PAR DRAWN BY	EL	DATE 2016-12-19
VÉRIFIÉ PAR CHECKED BY	GZ	2016-12-19
APPROUVÉ PAR APPROVED BY	KJ	2016-12-19

ÉCHELLE  
SCALE AS SHOWN DATE 2016-12-19

NO. DESSIN  
DRAWING NO. 65-697-230-202

NO. PROJET PROJECT NO.	REVISION	FEUILLE / SHET
6515	1	1 / 1

# APPENDIX D

## TETRA TECH'S GENERAL CONDITIONS

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# GENERAL CONDITIONS

## GEOTECHNICAL REPORT

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This report incorporates and is subject to these "General Conditions".

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### 1.1 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's Client. TETRA TECH 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's Client unless otherwise authorized in writing by TETRA TECH. Any unauthorized use of the report is at the sole risk of the user.

This report is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of TETRA TECH. Additional copies of the report, if required, may be obtained upon request.

### 1.2 ALTERNATE REPORT FORMAT

Where TETRA TECH submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed TETRA TECH'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 shall be deemed to be the original for the Project.

Both electronic file and hard copy versions of TETRA TECH'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. TETRA TECH's instruments of professional service will be used only and exactly as submitted by TETRA TECH.

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

### 1.3 ENVIRONMENTAL AND REGULATORY ISSUES

Unless stipulated in the report, TETRA TECH 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.

### 1.4 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 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.

### 1.5 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.

### 1.6 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 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.

### **1.7 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.

### **1.8 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.

### **1.9 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.

### **1.10 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.

### **1.11 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.

### **1.12 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.

### **1.13 SAMPLES**

TETRA TECH 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.

### **1.14 INFORMATION PROVIDED TO TETRA TECH BY OTHERS**

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