



Sustainable Mine Development
Global Mining & Metallurgy
360, St-Jacques Street
Montreal (Quebec)
Canada H2Y 1P5

Telephone: (514) 393-1000
Fax: (514) 390-2765
www.snc-lavalin.com

APPROBATION FORM

PROJECT : Construction of Vault Dike
PROJECT #: 6116/4 DATE: 2013-03-12
DOCUMENT #: 2013 0312 - 01 CLIENT: OEM
(YYYYMMDD-D1)

APPROBATION FOR : ☐ Foundation Approval (Footprint)
☐ Foundation Approval (Key Trench)
☐ Fill Placement ()
☒ Other Liner

LOCATION	PREVIOUS APPROVATIONS
FROM STATION: 40 to 73 \$ 113 to 191 ELEVATION: ☒ VARIES m	FROM: _____ TO: _____

RESPECT TO THE SPECIFICATIONS ACCORDING TO:

1. Quotes and lines respected
2. Liner has no cracks or rips
3. Liner is smooth and flat (no waves or bumps)
4. Welding done properly
5. As built survey completed
6. Patches done?
7. Liner QC tests done?
8. _____
9. _____

VERIFICATIONS MADE BY:				
QA		QC		N/A
Y	N	Y	N	
☒	☐	☐	☐	☐
☒	☐	☐	☐	☐
☐	☐	☐	☐	☒
☒	☐	☐	☐	☐
☒	☐	☐	☐	☐
☒	☐	☐	☐	☐
☐	☐	☐	☐	☐
☐	☐	☐	☐	☐

DETAILS (REFER TO NUMBER ABOVE)

ITEM

_____	_____
_____	_____
_____	_____
_____	_____

APPROVED BY:

QA	QC
☐	☐
☐	☐
☐	☐

APPROVED BY: QA REPRESENTATIVE
QC REPRESENTATIVE
OWNER REPRESENTATIVE
LINER QC REPRESENTATIVE

SIGNATURE
Kramer SH
Melissa Laporte Boobier
T. W. W. W.
DATE
2013-03-12
2013-03-12

Approved Area

Station: 0+073 to station: 0+040

Station: 0+113 to station: 0+191

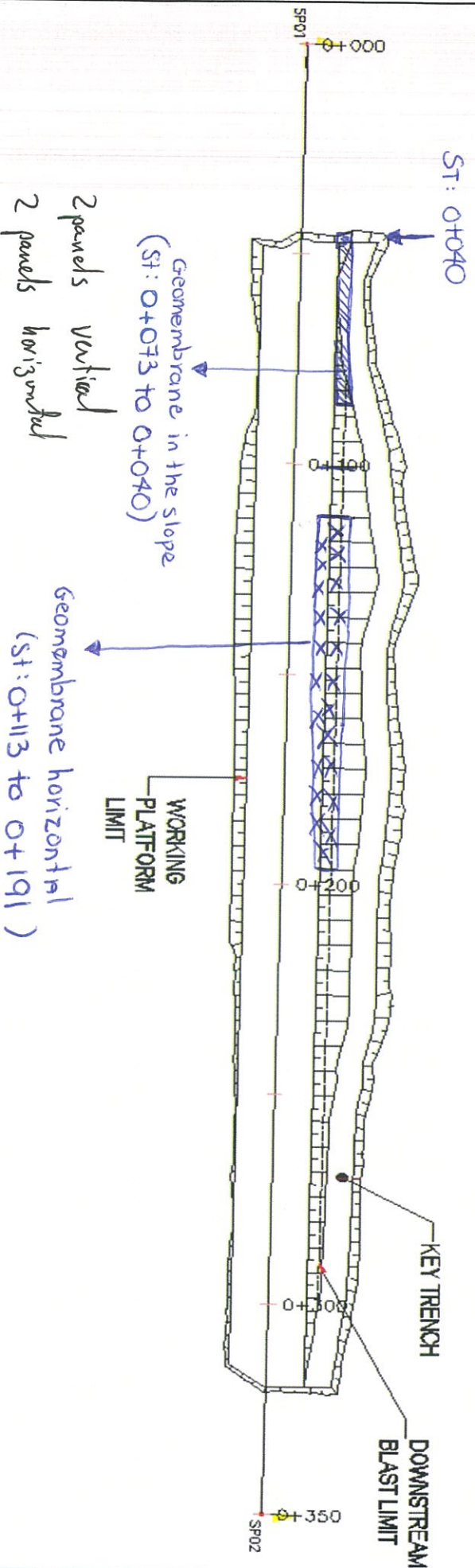


Figure 1 - Approximate approved liner area

Date:

2013 - 03 - 2

Sketch by (Initial):

mta

LINER PREPARATION AND ACCEPTANCE

CERTIFICATE OF ACCEPTANCE OF LINER CONDITION - VAULT DIKE

Acceptance No.:

LINER-VD-

08

Date:

2013-03-13

This Certificate of Acceptance includes the following items, reviewed and accepted by the undersigned:

- 1) Foundation and Key Trench Preparation and Excavation Checklist (from SNC);
- 2) Sketch of the approximate accepted area, incl. Station and Offset (according to Vault Dike Stations);
- 3) Photo of the accepted area, at the moment of the acceptance;
- 4) Any other relevant documentation complementary to this approval.

The area has been inspected and accepted by authorised personnel representing Quality Control (QC) Program, Quality Assurance (QA) Program, Liner Quality Control (Texel) and the Owner Representative.

Topography of the approved liner surface has been surveyed for documentation and as-built purposes, as confirmed by the undersigned surveyor.

The area is accepted as per the liner conditions at the time of the inspection and the condition of the liner is required to be maintained prior to and during fill placement.

Owner Representative

Name:

Position:

AEM-

QC Representative

Name:

INSP-EC-SOL-

Liner Quality Control Rep

Name:

TEXEL-

QA Engineer

Name:

Position:

SNC-

Surveyor

Name:

Position:

FGL-

NOTES: 1. Original signed certificate must be given to the Owner Representative for documentation records. 2. Survey files from the approved area must be saved in appropriate location as required by the Owner Representative. 3. Photos of approved area must be saved in appropriate location as required by the Owner Representative.



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APPROBATION FORM

PROJECT : Construction of Vault Dike
PROJECT #: 611614 DATE: 2013-03-13
DOCUMENT #: 20130313-01 (YYYYMMDD-01) CLIENT: AEM

APPROBATION FOR :
☐ Foundation Approval (Footprint)
☐ Foundation Approval (Key Trench)
☐ Fill Placement ()
☒ Other Liner

LOCATION	PREVIOUS APPROVATIONS
FROM STATION: 191	FROM:
TO: 298	TO:
ELEVATION: ☒ VARIES m	

RESPECT TO THE SPECIFICATIONS ACCORDING TO:

1. Quotes and lines respected
2. Liner has no cracks or rips
3. Liner is smooth and flat (no waves or bumps)
4. Welding done properly
5. As built survey completed
6. Patches done?
7. Liner QC tests done?
- 8.
- 9.

VERIFICATIONS MADE BY:				
QA		QC		N/A
Y	N	Y	N	
☒	☐	☐	☐	☐
☒	☐	☐	☐	☐
☐	☐	☐	☐	☒
☒	☐	☐	☐	☐
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☒	☐	☐	☐	☐
☐	☐	☐	☐	☐
☐	☐	☐	☐	☐

DETAILS (REFER TO NUMBER ABOVE)

ITEM

APPROVED BY:

QA	QC
☐	☐
☐	☐
☐	☐

APPROVED BY:
QA REPRESENTATIVE
QC REPRESENTATIVE
OWNER REPRESENTATIVE
LINER QC REPRESENTATIVE

SIGNATURE
Kramon S.H.
Melissa Lapointe Dgahon
Tulima
DATE
2013-03-13
2013-03-13
v v

Approved Area

Station: 0+191 (~~Offset~~): _____ To Station: 0+298 (Offset): _____

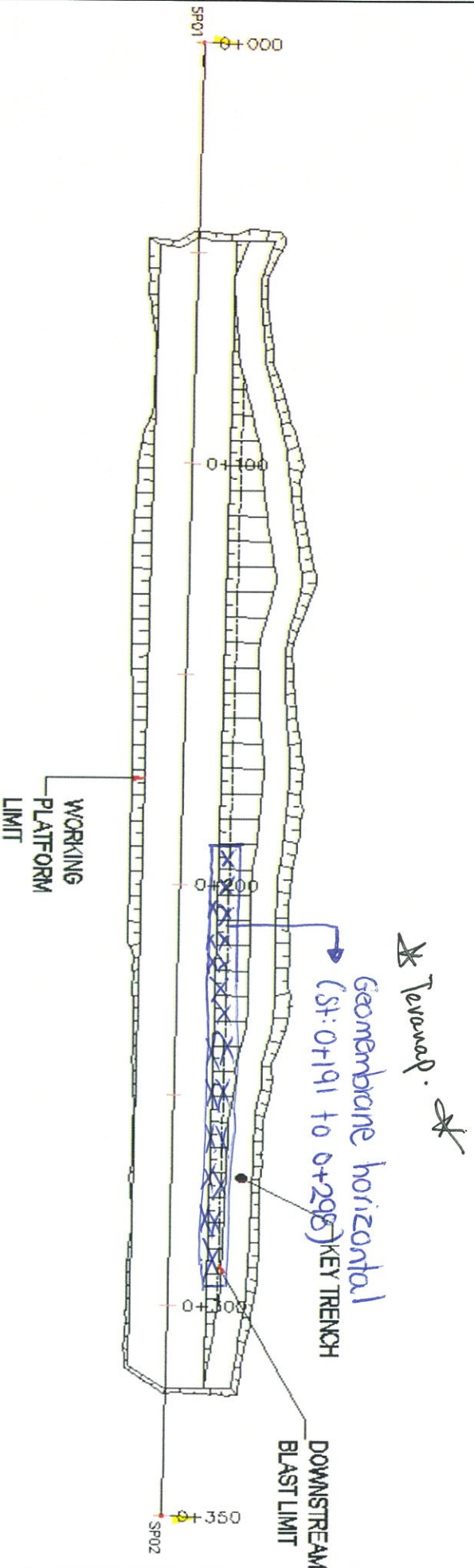


Figure 1 - Approximate approved foundation area

Date:

2013-03-13

Sketch by (Initial):

mf

APPENDIX E3.
Geomembrane

**AGNICO-EAGLE, MEADOWBANK VAULT DIKE
ANICO-EAGLE MINE LIMITED
Baker Lake, Nunavut
Texel Geosol Project No. C12259**

**QUALITY CONTROL FINAL REPORT
BY TEXEL GEOSOL INC.**

Prepared for:

AGNICO-EAGLE MINE LIMITED

By:



April, 2013

**AGNICO-EAGLE, MEADOWBANK VAULT DIKE
AGNICO-EAGLE MINE LIMITED
Baker Lake, Nunavut
Texel Geosol Project No. C12259**

**QUALITY CONTROL FINAL REPORT
BY TEXEL GEOSOL INC.**

Prepared for:

**AGNICO-EAGLE MINE LIMITED
MEADOWBANK DIVISION
10 200, route de Preissac
Rouyn-Noranda, Québec
J0Y 1C0**

By:

**TEXEL GEOSOL INC.
2954 Laurier Boul., Bur 790
Québec, Québec
G1V 4T2**

April, 2013

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1. INTRODUCTION

The following report was prepared by Texel Geosol, for Agnico-Eagle Mine Limited.

This report contains a description as well as a certification of all work conducted by Texel Geosol, installer of the bituminous geomembrane. It also contains the record drawing of the geomembrane. All installation work conducted on the bituminous geomembrane took place between 26-February-2013 and 13-March-2013.

2. HUMAN RESOURCES

The following list identifies the key personnel involved with the physical realization of this project

TEXEL GEOSOL INC. (Geosynthetic Installer)

- Mr. François Thivierge, Construction Manager
- Mr. Jacques St-Gelais, Operation Manager
- Mr. Daniel Brousseau, Project Manager
- Mr. Lucien Perry, Site Foreman and QC inspector

AGNICO-EAGLE MINE LIMITED (General Contractor)

- Mr. Thomas Lépine, Geotechnical Engineer
- Mme. Erika Voyer, Geotechnical Engineer

SNC LAVALLIN (Quality Assurance)

- Mr. Jean-François St-Laurent, Site Inspector

3. GEOMEMBRANE INSTALLATION

This section includes a description of the work and the installation procedures used during the deployment of the bituminous geomembrane. Also, the manufacturing quality control and construction quality control procedures are detailed in this section

3.1. Description of the work

The scope of the installation was to completely cover a Vault dike with a bituminous geomembrane liner. Texel Geosol supplied and installed approximately 2826.9 sq.m. of bituminous geomembrane Coletanche (ES2 – ES3) and Teranap. All the installation, seaming and repair procedures were conducted according to the project plans and specifications, and manufacturer's recommendations.

3.2. Installation Procedures

The bituminous geomembrane rolls were deployed and installed by Texel Geosol as prescribed in the specifications. Panels were placed to minimize seams across the side slope and the tie-in seams. The panels were overlapped about 200 mm, allowing adequate welding and leaving enough material to perform shear tests on seam samples (see section 3.3.1.2 for a description of these tests).

All seams between panels were made using a manual fusion process, the fusion being obtained using a propane torch and a roll pressure of 15 kg.

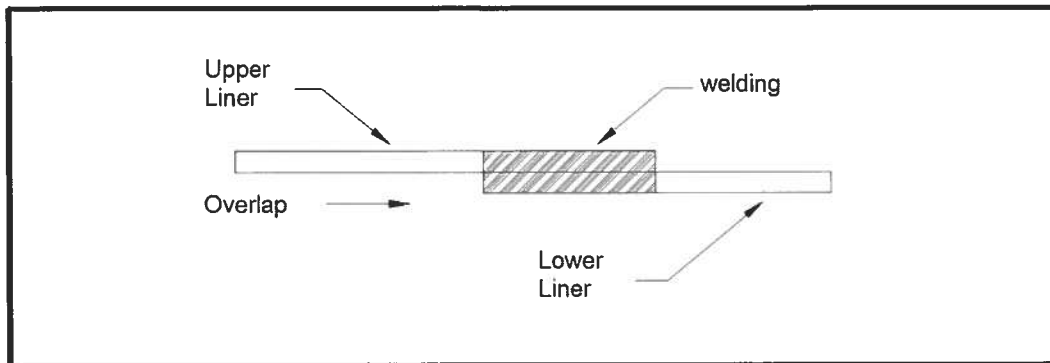


Figure 1 – Bituminous Geomembrane Weld

3.3. Quality controls

3.3.1. On-site geomembrane installation

All site welds were visually inspected and finalized by heating the ends of the overlap to create a concave angle. Also all seams have been tested with an air lance to detect any suspect area to be repaired. Also, a statistical control of seam was complete by Ultrasonic testing.

For each weld, the quality controller recorded the following information: date and dimensions of welds and the names of welders, the location of non-destructive testing and the values obtained in shear. All results of these tests are also presented in Appendix I.

3.3.1.1 On-site non-destructive testing

The seams were verified at the critical spot by non-destructive methods. These methods include the air lance test and the Ultrasonic test. Any seam that failed one of these tests was rebuilt or repaired until a satisfactory result was obtained. All the results of these tests are included in Appendix I of this report.

a) Air lance Testing

This test consists in check the sealing and quality of the weld. With an air lance of a jet of air is fed to the edge of the weld. If the weld is continuous and free of defects (air bubbles, dirt) the air will not detach the membrane. In the case of a defect, the air jet will detach the membrane. If there are any leaks, they will be located and repaired. All seams (100 % in length) was verify by the air lance method.

b) Ultrasonic test (ultrasounds)

In random spot check (150m of seam) Ultrasonic test was used. This test consist in emitting ultrasonic pulse on the surface of the upper geomembrane. The echoes of entry and exit will be detected when the welding is correctly carried out, and when it has a continuity of matter, and thus of acoustic impedance. If a defect prevents this continuity of the weld an intermediate echo will be detected. It will appear on the ecograph screen. The operator scan the geomembrane with a transducer to identify weakness areas. The surfaces must be wet for a good signal.

3.3.1.2 On-site destructive tests

Finally, a destructive testing program was applied, where seam samples taken from the installed geomembrane were tested for shear strength on a calibrated, portable tensiometer. On each sample, one shear tests were performed. All the results from these tests are included in Appendix I of this report.

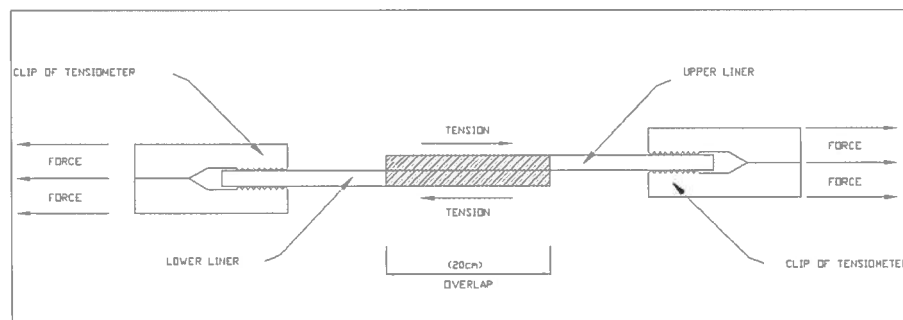


Figure 2 - Shear Test

3.4. Repair Procedures

All materials were visually inspected for blemishes, punctures and other defects or damages that may have occurred during transport or panel placement. Any defect or damage was repaired as per the procedures described in this section.

Demobilization was not authorized until Texel Geosol, Agnico-Eagle Mine Limited and SNC-Lavallin completed a last visual inspection of the installation work. Any defect revealed by any step of the Quality Control Program was repaired and verified according to the prescribed procedures:

- All punctures, holes, tears, etc., were repaired with manual process fusion patches;
- Any seam revealed as defective by the CQC or CQA Programs was entirely rebuilt through a fusion and seaming process.

All repairs were visually inspected and verified by a non-destructive testing method, as described in section 3.3.1.2.

3.5. Record Drawing

The record drawing of the geomembrane installation, showing all panels, panel identification, pipe penetrations, repairs and destructive test locations, is included in Appendix III of this report.

4. CERTIFICATION

Texel Geosol certifies having installed all geosynthetic materials according to the project plans and specifications provided by the consultant SNC-Lavalin recommendation, for Agnico-Eagle Mine Limited. All installation work conducted by Texel Geosol meets or exceeds the standards of the geosynthetic industry.



Daniel Brousseau, Eng., Project administrator
TEXEL GEOSOL INC.

05/06/2013
Date
(mm-dd-yy)

APPENDIX I

**QUALITY CONTROL PROCEDURES CONDUCTED ON SITE BY
TEXEL GEOSOL INC.**

Seaming Procedures Procédures de Soudures

Project Name / Nom de Projet: Agnico-Eagle, Meadowbank, Vault dike **QC Inspector / Inspecteur CQ:** Lucien Perry

Project No. / No. de Projet: C-12259

Seaming Procedures / Procédures de Soudures						Non-Destructive Testing / Essai Non-Destructif						Approved (Yes/Non) Approuvé (Oui/Non)		
Seam No. No. de Soudure	Date of Seaming (mm/dd/yy)	Time of Seaming Heure de Soudure	Seam Length (m)	Trial Test No. No. Calibration	Technician-Welder Soudeur	Test Date (mm/dd/yy)	Time Heure	Ultrasons	Air Lance Lance à air	Visual inspection Inspection visuelle	Essai Destructif		Testing Details/Location de l'essai/Localisation	Détails
1-2	03-03-13	N/A	2,5	N/A	L.P	03-13-13			X	X		Full seam		Y
1-3	03-04-13	N/A	26,5	N/A	L.P	03-04-13			X	X		Full seam		Y
3-4	03-05-13	N/A	4	N/A	L.P	03-05-13			X	X		Full seam		Y
2-4	03-05-13	N/A	39,5	N/A	L.P	03-05-13		X	X	X	X	Full seam		Y
3-5	03-05-13	N/A	4	N/A	L.P	03-05-13			X	X		Full seam		Y
1-5	03-05-13	N/A	3,5	N/A	L.P	03-05-13			X	X		Full seam		Y
5-6	03-06-13	N/A	7,83	N/A	L.P	03-06-13			X	X		Full seam		Y
6-7	03-06-13	N/A	7,83	N/A	L.P	03-06-13			X	X		Full seam		Y
7-8	03-06-13	N/A	7	N/A	L.P	03-06-13			X	X		Full seam		Y
8-9	03-06-13	N/A	6,4	N/A	L.P	03-06-13			X	X		Full seam		Y
9-10	03-06-13	N/A	6,5	N/A	L.P	03-06-13			X	X		Full seam		Y
10-11	03-07-13	N/A	6,5	N/A	L.P	03-07-13			X	X		Full seam		Y
11-12	03-07-13	N/A	6,5	N/A	L.P	03-07-13			X	X		Full seam		Y

**Seaming Procedures
Procédures de Soudures**

Project Name / Nom de Projet: Agnico-Eagle, Meadowbank, Vault dike **QC Inspector / Inspecteur CQ:** Lucien Perry

Project No. / No. de Projet: C-12259

Seaming Procedures / Procédures de Soudures						Non-Destructive Testing / Essai Non-Destructif							Approved (Yes/No) Approuvé (Oui/Non)	
Seam No. No. de Soudure	Date of Seaming (mm/dd/yy)	Time of Seaming	Seam Length (m)	Trial Test No. No. Calibration	Technician-Welder Soudeur	Test Date (mm/dd/yy)	Time	Ultrasons	Air Lance Lance à air	Visual inspection Inspection visuelle	Essai Destructif	Testing Details/Location de l'essai/Localisation		Détails
12-13	03-07-13	N/A	6,5	N/A	L.P	03-07-13		X	X	X	X	Full seam		Y
13-14	03-07-13	N/A	6,5	N/A	L.P	03-07-13			X	X		Full seam		Y
14-15	03-07-13	N/A	6,5	N/A	L.P	03-07-13		X	X	X		Full seam		Y
15-16	03-08-13	N/A	6,8	N/A	L.P	03-08-13			X	X		Full seam		Y
16-17	03-08-13	N/A	6,8	N/A	L.P	03-08-13			X	X		Full seam		Y
17-18	03-08-13	N/A	6,8	N/A	L.P	03-08-13			X	X		Full seam		Y
18-19	03-08-13	N/A	6,5	N/A	L.P	03-08-13			X	X		Full seam		Y
19-20	03-09-13	N/A	5,3	N/A	L.P	03-09-13			X	X		Full seam		Y
21-22	03-09-13	N/A	5,3	N/A	L.P	03-09-13			X	X		Full seam		Y
22-23	03-09-13	N/A	4,5	N/A	L.P	03-09-13			X	X		Full seam		Y
23-24	03-09-13	N/A	4,5	N/A	L.P	03-09-13			X	X		Full seam		Y
24-25	03-09-13	N/A	4,5	N/A	L.P	03-09-13			X	X		Full seam		Y
25-26	03-09-13	N/A	4,5	N/A	L.P	03-09-13			X	X		Full seam		Y

Seaming Procedures Procédures de Soudures

Project Name / Nom de Projet: Agnico-Eagle, Meadowbank, Vault dike **QC Inspector / Inspecteur CQ:** Lucien Perry

Project No. / No. de Projet: C-12259

Seaming Procedures / Procédures de Soudures						Non-Destructive Testing / Essai Non-Destructif							Approved (Yes/No) Approuvé (Oui/Non)	
Seam No. No. de Soudure	Date of Seaming (mm/dd/yy)	Time of Seaming Heure de Soudure	Seam Length (m)	Trial Test No. No. Calibration	Technician-Welder Soudeur	Test Date (mm/dd/yy)	Time	Ultrasons	Air Lance Lance à air	Visual inspection Inspection visuelle	Essai Destructif	Testing Details/Location de l'essai/Localisation		Détails
26-27	03-09-13	N/A	4,5	N/A	L.P	03-09-13			X	X	X	Full seam		Y
27-28	03-09-13	N/A	7,9	N/A	L.P	03-09-13			X	X		Full seam		Y
28-29	03-09-13	N/A	7,9	N/A	L.P	03-09-13			X	X		Full seam		Y
29-30	03-10-13	N/A	7,9	N/A	L.P	03-10-13			X	X		Full seam		Y
30-31	03-10-13	N/A	7,5	N/A	L.P	03-10-13			X	X		Full seam		Y
2-32	03-10-13	N/A	4,8	N/A	L.P	03-10-13			X	X		Full seam		Y
4-32	03-10-13	N/A	4,8	N/A	L.P	03-10-13			X	X		Full seam		Y
32-33	03-10-13	N/A	8,2	N/A	L.P	03-10-13			X	X	X	Full seam		Y
33-34	03-10-13	N/A	10	N/A	L.P	03-10-13			X	X		Full seam		Y
34-35	03-10-13	N/A	9,7	N/A	L.P	03-10-13			X	X		Full seam		Y
35-36	03-10-13	N/A	9,6	N/A	L.P	03-10-13		X	X	X		Full seam		Y
36-37	03-10-13	N/A	9,6	N/A	L.P	03-10-13			X	X		Full seam		Y
37-38	03-10-13	N/A	9,2	N/A	L.P	03-10-13			X	X	X	Full seam		Y

Seaming Procedures
Procédures de Soudures

Project Name / Nom de Projet: Agnico-Eagle, Meadowbank, Vault dike **QC Inspector / Inspecteur CQ:** Lucien Perry

Project No. / No. de Projet: C-12259

Seaming Procedures / Procédures de Soudures						Non-Destructive Testing / Essai Non-Destructif							Approved (Yes/No) Approuvé (Oui/Non)	
Seam No. No. de Soudure	Date of Seaming (mm/dd/yy)	Time of Seaming Heure de Soudure	Seam Length (m)	Trial Test No. No. Calibration	Technician-Welder Soudeur	Test Date (mm/dd/yy)	Time Heure	Ultrasons	Air Lance Lance à air	Visual inspection Inspection visuelle	Essai Destructif	Testing Details/Location de l'essai/Localisation		Détails
38-39	03-10-13	N/A	7,8	N/A	L.P	03-10-13			X	X		Full seam		Y
39-40	03-10-13	N/A	7,8	N/A	L.P	03-10-13		X	X	X		Full seam		Y
40-41	03-10-13	N/A	6,1	N/A	L.P	03-10-13			X	X		Full seam		Y
41-42	03-12-13	N/A	5,8	N/A	L.P	03-12-13			X	X		Full seam		Y
42-43	03-12-13	N/A	5,2	N/A	L.P	03-12-13			X	X		Full seam		Y
43-44	03-12-13	N/A	5,2	N/A	L.P	03-12-13			X	X		Full seam		Y
44-45	03-12-13	N/A	9	N/A	L.P	03-12-13			X	X		Full seam		Y
45-46	03-12-13	N/A	8,2	N/A	L.P	03-12-13			X	X		Full seam		Y
33-349	03-12-13	N/A	5	N/A	L.P	03-12-13			X	X		Full seam		Y
34-47	03-12-13	N/A	5	N/A	L.P	03-12-13			X	X		Full seam		Y
32-47	03-12-13	N/A	5	N/A	L.P	03-12-13			X	X		Full seam		Y
4-47	03-12-13	N/A	4,1	N/A	L.P	03-12-13			X	X		Full seam		Y
47-48	03-12-13	N/A	5	N/A	L.P	03-12-13			X	X		Full seam		Y

Seaming Procedures
Procédures de Soudures

Project Name / Nom de Projet: Agnico-Eagle, Meadowbank, Vault dike **QC Inspector / Inspecteur CQ:** Lucien Perry

Project No. / No. de Projet: C-12259

Seaming Procedures / Procédures de Soudures						Non-Destructive Testing / Essai Non-Destructif							Approved (Yes/No) Approuvé (Oui/Non)	
Seam No. No. de Soudure	Date of Seaming (mm/dd/yy)	Time of Seaming Heure de Soudure	Seam Length (m)	Trial Test No. No. Calibration	Technician-Welder Soudeur	Test Date (mm/dd/yy)	Time Heure	Ultrasons	Air Lance Lance à air	Inspection visuelle	Essai Destructif	Testing Details/Location de l'essai/Localisation	Détails	Approved (Yes/No) Approuvé (Oui/Non)
3-48	03-12-13	N/A	26	N/A	L.P	03-12-13			X	X		Full seam		Y
4-48	03-12-13	N/A	35	N/A	L.P	03-12-13			X	X		Full seam		Y

Destructive Testing Essai Destructif

Project Name / Nom de Projet: **Murdochville-Xstrata**

Project No. / No. de Projet: **Q-11195**

QC Inspector / Inspecteur CQ: **Eric Bourdages**

Destructive Test No. No. Essai Destructif	Seam No. No. de Soudure	Date (mm/dd/yy)	Sample Location Localisation de l'échantillon	Peel Resistance Résistance Pelage (ppi)	Peel Type of Break Type de Brisure	Peel Resistance Résistance Pelage (ppi)	Peel Type of Break Type de Brisure	Shear Resistance Résist. Cisaillement (ppi)	Shear Type of Break Type de Brisure	Date Repaired Date Réparée (mm/dd/yy)	Date Repair Verified Date Réparée Vérifiée (mm/dd/yy)	Lab. Testing (P/F) Lab. Indép. (A/R)	Tensimeter No. No. Tensiomètre
DT-1	2-4	03-05-13	At 1m of SEOS	N/A	N/A	N/A	N/A	310	BRK	03-05-13	03-05-13	N/A	Leister-1
DT-2	12-13	03-07-13	At 1m of SEOS	N/A	N/A	N/A	N/A	336	BRK	03-07-13	03-07-13	N/A	Leister-1
DT-3	26-27	03-09-13	At 1m of SEOS	N/A	N/A	N/A	N/A	274	BRK	03-09-13	03-09-13	N/A	Leister-1
DT-4	32-33	03-10-13	At 1m of SEOS	N/A	N/A	N/A	N/A	405	BRK	03-10-13	03-11-13	N/A	Leister-1
DT-5	37-38	03-10-13	At 1m of SEOS	N/A	N/A	N/A	N/A	310	BRK	03-10-13	03-11-13	N/A	Leister-1
DT-6	6-48	03-13-13	At 1m of int. 6-7-48	N/A	N/A	N/A	N/A	238	BRK	03-13-13	03-13-13	N/A	Leister-1
DT-7	49-50	03-13-13	At 3.5m of int. 23-49-50	N/A	N/A	N/A	N/A	294	BRK	03-13-13	03-13-13	N/A	Leister-1
DT-8	6-49	03-13-13	At 1m of int. 6-48-49	N/A	N/A	N/A	N/A	250	BRK	03-13-13	03-13-13	N/A	Leister-1
UL-1	2-4	03-05-13	At 11m of 3-4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TUL-01
UL-2	2-4	03-05-13	At 31m of 3-4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TUL-01
UL-3	12-13	03-07-13	At 3m of South	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TUL-01
UL-4	14-15	03-08-13	At 2m of South	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TUL-01
UL-5	14-15	03-08-13	At 4m of South	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TUL-01
UL-6	35-36	03-10-13	At 5m of South	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TUL-01
UL-7	39-40	03-10-13	At 3m of South	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TUL-01
UL-8	39-40	03-10-13	At 4.5m of South	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TUL-01

Repair Report Rapport de Réparation

Project Name / Nom de Projet:

Murdochville-Xstrata

Project No. / No. de Projet:

Q-11195

QC Inspector / Inspecteur CQ:

Eric Bourdages

Repair No. No. Réparation	Type & Dimensions Type et Dimensions			Location of Repair Localisation de la Réparation				Date Repaired Date Réparée (mm/dd/yy)	Date Repair Verified Date Réparée Vérifiée (mm/dd/yy)	Approved (Yes/No) Approuvé (Oui/Non)
	Patch Empiècement	Extrusion Weld or Bead Soudure Extrusion	Pipe Boot Manchon d'étanchéité	On Panel No. Sur Panneau No.	On Seam No. Sur Soudure No.	Intersection of Panels Intersection des Panneaux	Sample Location Localisation de l'échantillon			
R-1	P3			1			At 1m of 3-4 and 1.5m of 1-3	03-03-13	03-04-13	Y
R-2	P3			1			At 3m of 3-4 and 1.5m of 1-3	03-03-13	03-04-13	Y
R-3	P3			1			At 5m of 3-4 and 1.5m of 1-3	03-03-13	03-04-13	Y
R-4	P2			1			At 7m of 1-2 and 1.5m of 1-3	03-03-13	03-04-13	Y
R-5	P1			3			At 3m of 1-3 and 1.8m 3-5	03-04-13	03-04-13	Y
R-6	P1			3			At 3m of 1-3 and 3.9m of 3-5	03-04-13	03-04-13	Y
R-7	P1			3			At 3m of 1-3 and 5.7m of 3-5	03-04-13	03-04-13	Y
R-8	P1			3			At 3m of 1-3 and 7.9m of 3-5	03-04-13	03-04-13	Y
R-9	P1			3			At 3m of 1-3 and 9.7m of 3-5	03-04-13	03-04-13	Y
R-10	P1			3			At 3m of 1-3 and 11.8m of 3-5	03-04-13	03-04-13	Y
R-11	P1			3			At 3m of 1-3 and 13.7m of 3-5	03-04-13	03-04-13	Y
R-12	P1			3			At 3m of 1-3 and 15.4m of 3-5	03-04-13	03-04-13	Y
R-13	P1			3			At 3m of 1-3 and 17.3m of 3-5	03-04-13	03-04-13	Y
R-14	P1			3			At 3m of 1-3 and 18.9m of 3-5	03-04-13	03-04-13	Y
R-15	P1					2-3-4		03-04-13	03-04-13	Y
R-16	P1			4			At 1.8m of 3-4 and 1m of 2-4	03-05-13	03-05-13	Y
R-17	P1			4			At 3.4m of 3-4 and 1m of 2-4	03-05-13	03-05-13	Y
R-18	P1			4			At 5.1m of 3-4 and 1m of 2-4	03-05-13	03-05-13	Y
R-19	P1			4			At 6.5m of 3-4 and 1m 2-4	03-05-13	03-05-13	Y
R-20	P1				2-4		At 9m of int. 2-3-4	03-05-13	03-05-13	Y
R-21	P1			5			At 1m of South and 0.5m of 3-5	03-05-13	03-05-13	Y
R-22	P1			5			At 4.5m of South and 0.5m of 3-5	03-05-13	03-05-13	Y

Repair Report Rapport de Réparation

Project Name / Nom de Projet: Murdochville-Xstrata

Project No. / No. de Projet: Q-11195

QC Inspector / Inspecteur CQ: Eric Bourdages

Repair No. No. Réparation	Type & Dimensions Type et Dimensions			Location of Repair Localisation de la Réparation				Date Repaired Date Réparée (mm/dd/yy)	Date Repair Verified Date Réparée Vérifiée (mm/dd/yy)	Approved (Yes/No) Approuvé (Oui/Non)
	Patch Empiècement	Extrusion Weld or Bead Soudure Extrusion	Pipe Boot Manchon d'étanchéité	On Panel No. Sur Panneau No.	On Seam No. Sur Soudure No.	Intersection of Panels Intersection des Panneaux	Sample Location Localisation de l'échantillon			
R-23	P1			5			At 5.4m of South and 0.5m of 3-5	03-05-13	03-05-13	Y
R-24	P1			5			At 7.1m of South and 0.5m of 3-5	03-05-13	03-05-13	Y
R-25	P1			6			At 1.6m of South and 0.5m of 5-6	03-05-13	03-05-13	Y
R-26	P1			6			At 1.6m South and 0.5m of 5-6	03-05-13	03-05-13	Y
R-27	P1			28			At 1m of 28-29 and 0.8m of South	03-09-13	03-09-13	Y
R-28	P1			28			At 1m of 28-29 and 3.9m of South	03-09-13	03-09-13	Y
R-29	P1			28			At 1m of 28-29 and 4.7m of of South	03-09-13	03-09-13	Y
R-30	P1			28			At 0.8m of 27-28 and 0.8m of South	03-09-13	03-09-13	Y
R-31	P1			28			At 0.8m of 27-28 and 2.7m of South	03-10-13	03-10-13	Y
R-32	P1			28			At 1m of 27-28 and 5m of South	03-10-13	03-10-13	Y
R-33	P1			32			At 1m of South and 0.5m of 32-33	03-10-13	03-10-13	Y
R-34	P1			39			At 1m of 39-40 and 0.5m of South	03-10-13	03-10-13	Y
R-35	P1			39			At 1.5m of South and 2.5m of 39-40	03-10-13	03-10-13	Y
R-36	P1			39			At 2.5m of 39-40 and 3m of South	03-10-13	03-10-13	Y
R-37	P1			39			At 1.5m of 39-40 and 3.5m of South	03-10-13	03-10-13	Y

CHARTRE/CHART : Empiècement/Patch (P1 0.3m à/to 0.6m; P2 0.6m à/to 1m; P3 over 1m et plus), Extrusion (E), Embout/Pipe Boot (B), Cap strip (CS), Doublure/Reinforcement (DB) et/and Reconstruction

APPENDIX II

FIELD MEMOS AND COMMUNICATIONS



CERTIFICAT D'ACCEPTATION DES ASSISES
SUBGRADE ACCEPTATION CERTIFICATE

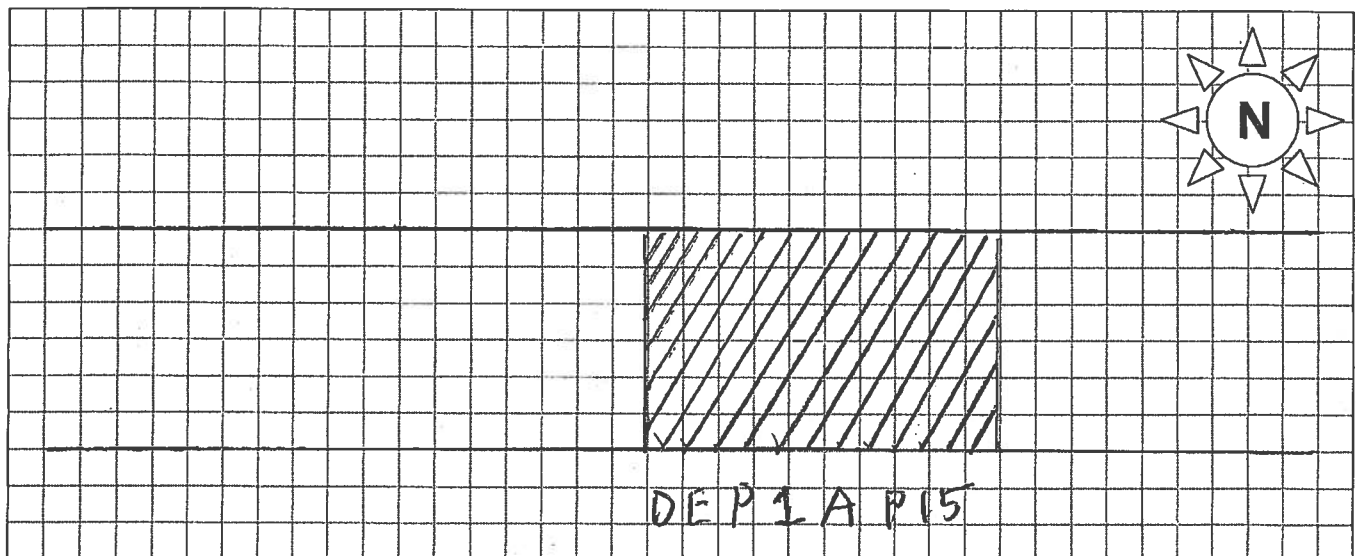
Nom du projet / Project name : VAULT DIKE - MEADOWBANK

N° du projet / Project # : C12259

Endroit / Location : AGNICO-EAGLE MEADOWBANK

CROQUIS / SKETCH

- ☒ ACCEPTATION PARTIELLE / PARTIAL ACCEPTATION
☐ ACCEPTATION COMPLÈTE / COMPLETE ACCEPTATION



REMARQUES / COMMENTS :

Je, soussigné et représentant officiel de Texel Géosol, accepte et juge adéquat la préparation de la surface des assises telles que localisée au croquis ci-dessus. /
I, the Texel Geosol's official representative, find acceptable for deployment the surface conditions of the area described above.

Nom / Name	Signature / Signature	Titre / Title	Date / Date
LUCIEN PERRY	<i>Lucien Perry</i>	CONTRÔLEUR QUALITÉ	7 MARS 2013

Nom en lettres moulées / Name in square letters

Lucien Perry
Texel Geosol
(BLANCHE / WHITE)

Entrepreneur / Contractor
(JAUNE / YELLOW)

Grégoire
Propriétaire / Owner
(ROSE / PINK) 11/03/2013

Kumari SK
Ingénieur / Engineer
(OR / GOLD) 11/03/2013

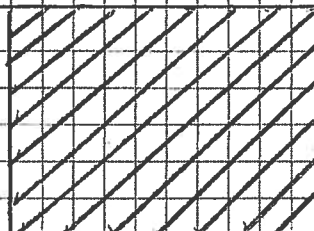
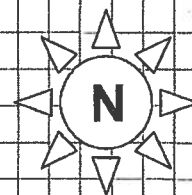


**CERTIFICAT D'ACCEPTATION
PROVISOIRE
PROVISIONAL ACCEPTATION
CERTIFICATE**

Nom du projet /
Project name : VAULT-DIKE
N° du projet /
Project # : C12259
Endroit / Location : AGNICO-EAGLE
MEADOWBANK
% des travaux exécutés /
% of completion : _____

MATÉRIAU / MATERIAL	QUANTITÉ / QUANTITY	DESCRIPTION / DESCRIPTION
COLETANCHE ES 3	859 m ²	R1 A P-13
COLETANCHE ES 2	65 m ²	P-14 - P-15

CROQUIS / SKETCH



Je, soussigné, représentant dûment autorisé de (Client) : _____, accepte, par la présente, les travaux décrits ci-haut et confirme, qu'au meilleur de ma connaissance, ces travaux ont été complétés selon les spécifications, termes et conditions du contrat et qu'il n'y a pas de dommage apparent aux matériaux utilisés. Le site a été nettoyé de tous les déchets à la satisfaction de l'entrepreneur. Texel Géosol s'engage à réparer tout dommage provenant de matériaux défectueux ou d'installation défectueuse en accord avec les garanties du contrat. / I, the undersigned, duly authorized representative of (Client) : _____, do hereby take over and accept the work described above from the date hereof and confirm to the best of my knowledge the work has been completed in accordance with specifications and the terms and conditions of the contract. There is no apparent damage to the plastic lining nor any unacceptable interference within or without the surrounding works. Scrap and offcuts have been removed and the works left in a clean and tidy condition to the contractors satisfaction. Texel Geosol undertakes to rectify any damage resulting from defective materials or workmanship within compliance of contract guarantees.

Nom / Name	Signature / Signature	Titre / Title	Date / Date
------------	-----------------------	---------------	-------------

Certificat accepté par le représentant de Texel Géosol. / Certificate accepted by Texel Geosol representative.

Nom en lettres moulées / Name in square letters

LUCIEN PEARCY
Lucien Percy
Texel Geosol
(BLANCHE / WHITE)
Entrepreneur / Contractor
(JAUNE / YELLOW)

[Signature]
11/03/2012
Propriétaire / Owner
(ROSE / PINK)

[Signature]
11/03/2012
Ingénieur / Engineer
(OR / GOLD)



**CERTIFICAT D'ACCEPTATION DES ASSISES
SUBGRADE ACCEPTATION CERTIFICATE**

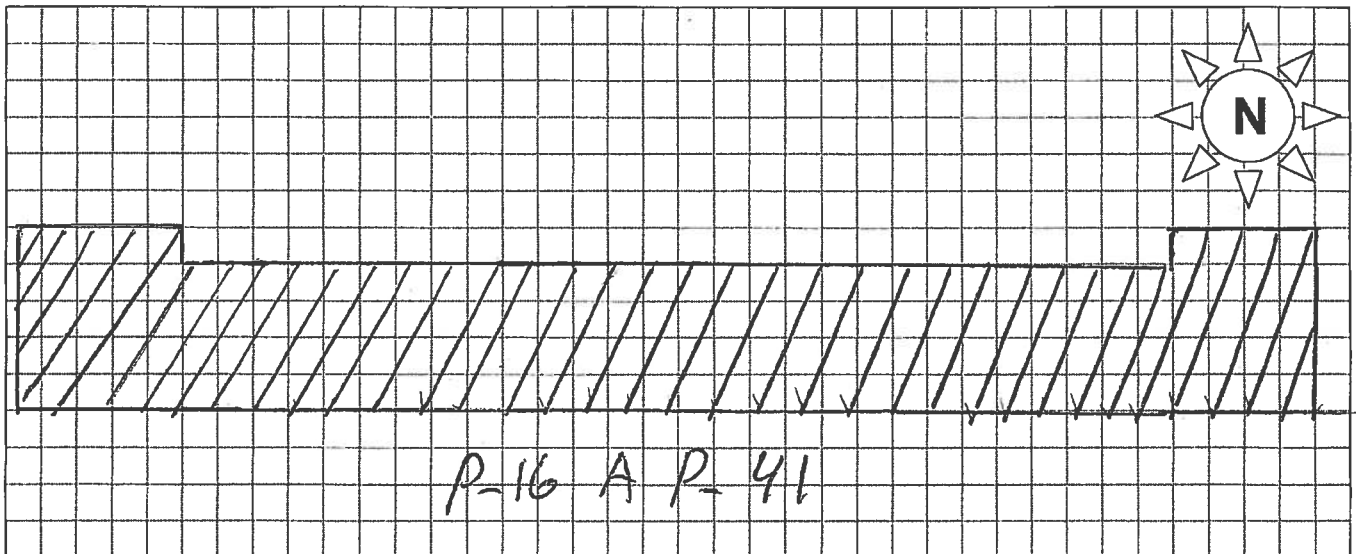
Nom du projet / Project name : VAULT DIKE

N° du projet / Project # : C12259

Endroit / Location : AGNICO EAGLE - MEADOWBANK

CROQUIS / SKETCH

- ☒ ACCEPTATION PARTIELLE / PARTIAL ACCEPTANCE
☐ ACCEPTATION COMPLÈTE / COMPLETE ACCEPTANCE



REMARQUES / COMMENTS :

Je, soussigné et représentant officiel de Texel Géosol, accepte et juge adéquat la préparation de la surface des assises telles que localisée au croquis ci-dessus. /
I, the Texel Geosol's official representative, find acceptable for deployment the surface conditions of the area described above.

Nom / Name	Signature / Signature	Titre / Title	Date / Date
LUCIEN PERRY	<i>Lucien Perry</i>	CONTRÔLEUR QUALITÉ	11 MARS 2013

Nom en lettres moulées / Name in square letters

Lucien Perry
Texel Geosol (BLANCHE / WHITE)
Entrepreneur / Contractor (JAUNE / YELLOW)

Geosol
Propriétaire / Owner (ROSE / PINK)

Francis
Ingénieur / Engineer (OR / GOLD)
11/03/2013



**CERTIFICAT D'ACCEPTATION
PROVISOIRE**

**PROVISIONAL ACCEPTATION
CERTIFICATE**

Nom du projet /
Project name : VAULT DIKE

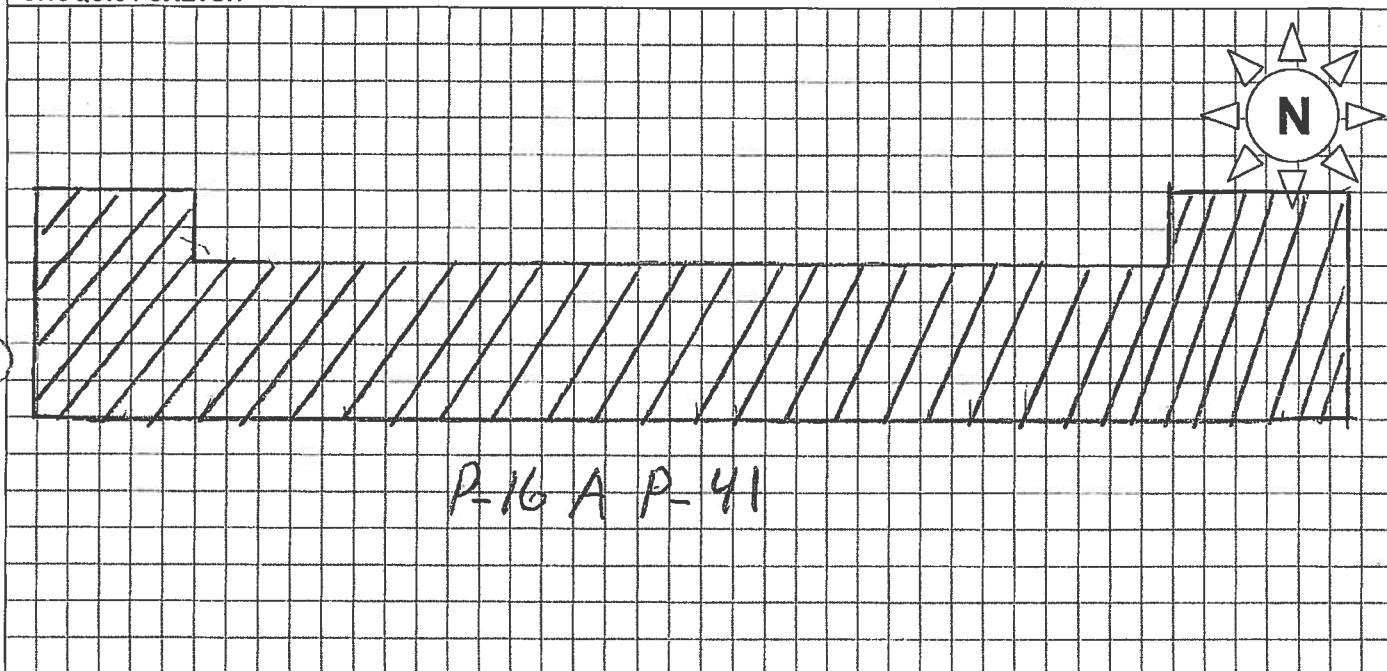
N° du projet /
Project # : C12259

Endroit / Location : AGNICO - EAGLE
MEADOWBANK

% des travaux exécutés /
% of completion : _____

MATÉRIAU / MATERIAL	QUANTITÉ / QUANTITY	DESCRIPTION / DESCRIPTION
ES3	576.77 m ²	P-28 A P-41
ES2	324.12 m ²	P-16 A P-27

CROQUIS / SKETCH



Je, soussigné, représentant dûment autorisé de (Client) : _____, accepte, par la présente, les travaux décrits ci-haut et confirme, qu'au meilleur de ma connaissance, ces travaux ont été complétés selon les spécifications, termes et conditions du contrat et qu'il n'y a pas de dommage apparent aux matériaux utilisés. Le site a été nettoyé de tous les déchets à la satisfaction de l'entrepreneur. Texel Géosol s'engage à réparer tout dommage provenant de matériaux défectueux ou d'installation défectueuse en accord avec les garanties du contrat. / I, the undersigned, duly authorized representative of (Client) : _____, do hereby take over and accept the work described above from the date hereof and confirm to the best of my knowledge the work has been completed in accordance with specifications and the terms and conditions of the contract. There is no apparent damage to the plastic lining nor any unacceptable interference within or without the surrounding works. Scrap and offcuts have been removed and the works left in a clean and tidy condition to the contractors satisfaction. Texel Geosol undertakes to rectify any damage resulting from defective materials or workmanship within compliance of contract guarantees.

Nom / Name	Signature / Signature	Titre / Title	Date / Date
------------	-----------------------	---------------	-------------

Certificat accepté par le représentant de Texel Géosol. / Certificate accepted by Texel Geosol representative.

Nom en lettres moulées / Name in square letters

LUCIEN PERRY

Texel Geosol
(BLANCHE / WHITE)

Entrepreneur / Contractor
(JAUNE / YELLOW)

11/03/2013
Propriétaire / Owner
(ROSE / PINK)

11/03/2013
Ingénieur / Engineer
(OR / GOLD)



CERTIFICAT D'ACCEPTATION DES ASSISES
SUBGRADE ACCEPTATION CERTIFICATE

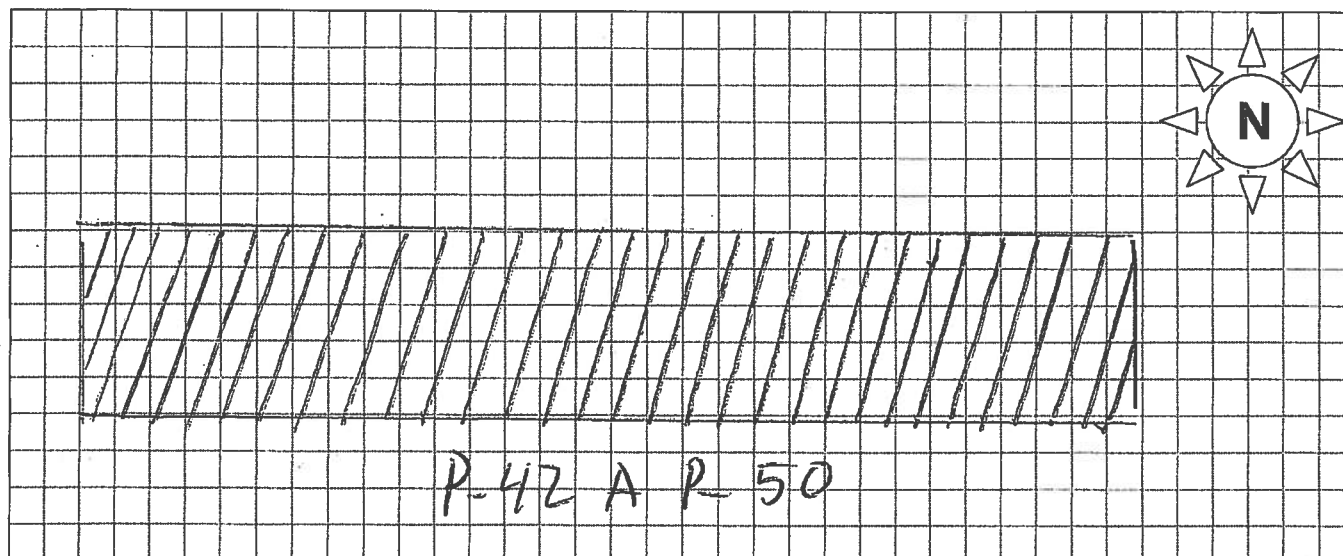
Nom du projet / Project name : VAULT - DIKE MEADOWBANK

N° du projet / Project # : C12259

Endroit / Location : AGNICO EAGLE MEADOWBANK

CROQUIS / SKETCH

☐ ACCEPTATION PARTIELLE / PARTIAL ACCEPTATION
☒ ACCEPTATION COMPLÈTE / COMPLETE ACCEPTATION



REMARQUES / COMMENTS :

Je, soussigné et représentant officiel de Texel Géosol, accepte et juge adéquat la préparation de la surface des assises telles que localisée au croquis ci-dessus. /
I, the Texel Geosol's official representative, find acceptable for deployment the surface conditions of the area described above.

Nom / Name	Signature / Signature	Titre / Title	Date / Date
LUCIEN PERRY	<i>Lucien Perry</i>	CONTRÔLEUR QUALITÉ	14 MARS 2013

Nom en lettres moulées / Name in square letters

Lucien Perry
Texel Geosol
(BLANCHE / WHITE)

Entrepreneur / Contractor
(JAUNE / YELLOW)

Propriétaire / Owner
(ROSE / PINK)

W. Morris
Ingénieur / Engineer
(OR / GOLD)



**CERTIFICAT D'ACCEPTATION
PROVISOIRE**

**PROVISIONAL ACCEPTATION
CERTIFICATE**

Nom du projet /
Project name : VAULT-DIKE

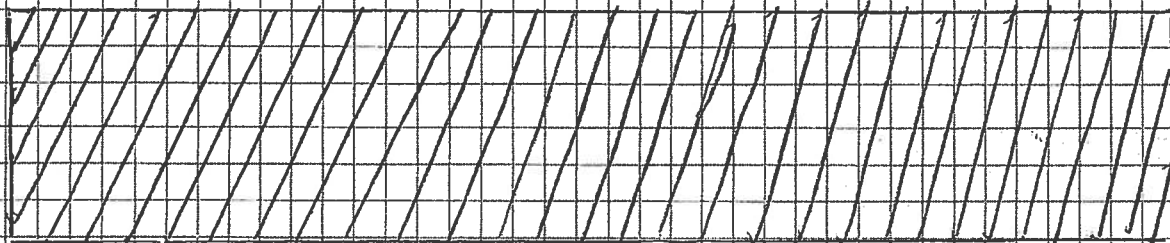
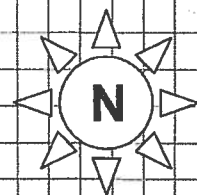
N° du projet /
Project # : C12259

Endroit / Location : AGNICO-EAGLE
MEADOWBARK

% des travaux exécutés /
% of completion : 100%

MATÉRIAU / MATERIAL	QUANTITÉ / QUANTITY	DESCRIPTION / DESCRIPTION
COLETANCHE	1002.02 m ²	P-42 A P-50

CROQUIS / SKETCH



Je, soussigné, représentant dûment autorisé de (Client) : Thomas Lévesque, accepte, par la présente, les travaux décrits ci-haut et confirme, qu'au meilleur de ma connaissance, ces travaux ont été complétés selon les spécifications, termes et conditions du contrat et qu'il n'y a pas de dommage apparent aux matériaux utilisés. Le site a été nettoyé de tous les déchets à la satisfaction de l'entrepreneur. Texel Géosol s'engage à réparer tout dommage provenant de matériaux défectueux ou d'installation défectueuse en accord avec les garanties du contrat. / I, the undersigned, duly authorized representative of (Client) : Thomas Lévesque, do hereby take over and accept the work described above from the date hereof and confirm to the best of my knowledge the work has been completed in accordance with specifications and the terms and conditions of the contract. There is no apparent damage to the plastic lining nor any unacceptable interference within or without the surrounding works. Scrap and offcuts have been removed and the works left in a clean and tidy condition to the contractors satisfaction. Texel Geosol undertakes to rectify any damage resulting from defective materials or workmanship within compliance of contract guarantees.

Nom / Name <u>Thomas Lévesque</u>	Signature / Signature <u>[Signature]</u>	Titre / Title <u>Owner Rep.</u>	Date / Date <u>14-03-2013</u>
--------------------------------------	---	------------------------------------	----------------------------------

Certificat accepté par le représentant de Texel Géosol. / Certificate accepted by Texel Geosol representative.

Nom en lettres moulées / Name in square letters

LUCIEN PERRY
[Signature]
Texel Geosol
(BLANCHE / WHITE)

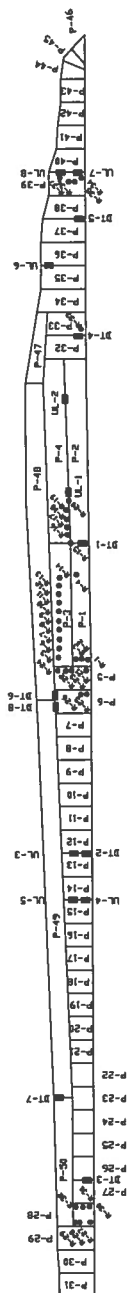
Entrepreneur / Contractor
(JAUNE / YELLOW)

Thomas Lévesque
[Signature]
Propriétaire / Owner
(ROSE / PINK)

J-FRANÇOIS ST-LAURENT
[Signature]
Ingénieur / Engineer
(OR / GOLD)

APPENDIX III

RECORD DRAWING



Parcours No. Parcel No.	Roadway No. Rail No.	Parcours No. Parcel No.	Roadway No. Rail No.	Parcours No. Parcel No.	Roadway No. Rail No.	Parcours No. Parcel No.	Roadway No. Rail No.		
1	06-M919 A	11	06-M125 G	21	N/D E32 H	31	N/D E33 D	41	06-M977 G
2	06-M919 B	12	06-M125 J	22	N/D E32 I	32	N/D E33 E	42	06-M979 B
3	06-M92A A	13	06-M125 I	23	N/D E32 J	33	06-M977 A	43	06-M979 C
4	06-M92A B	14	N/D E32 A	24	N/D E32 K	34	06-M977 B	44	06-M979 D
5	06-M925 A	15	N/D E32 B	25	N/D E32 L	35	06-M977 C	45	06-M979 E
6	06-M925 B	16	N/D E32 C	26	N/D E32 M	36	06-M977 D	46	06-M979 F
7	06-M925 C	17	N/D E32 D	27	N/D E32 N	37	06-M977 E	47	06-M979 G
8	06-M925 D	18	N/D E32 E	28	N/D E33 A	38	06-M977 F	48	06-M979 H
9	06-M925 E	19	N/D E32 F	29	N/D E33 B	39	06-M979 A	49	TER999 A
10	06-M925 F	20	N/D E32 G	30	N/D E33 C	40	N/D E33 F	50	TER999 A

Légende / Legend	
③	Manchon tuyau/Pipe band
•	Epilicement/Patch
⊗	Destructive and Ultrasonic
⊕	Soudure Extrusion/Extrusion
1	Panneau No./Panel No.
20472	Recherche No./Ball No.

Acquisto / Legend

Manchao tuyuu/pipe boat

Exploitation/Patch

Destructive and Ultrasonics

Soudure Extrusion/Extrusion

Panel No./Panel No.

Roll No./Roll No.

Tavel

LOWE'S

مكتبة جامعة القاهرة

2554 boul. Laurier Iperville IV
Bur. 790, Québec, QC, Canada
G1V 4T2

AGNICO-EAGLE MINE

(AGNICO-EAGLE, MEADOWBANK, VAULT DIKE)

APPROVAL PHASE
APPROVED BY:
D.B
PROJECT NO:
C-12259
PROJECT NAME
SCHOOL

DATE 11-28-66)X	FIGURES AUTOCARD	EXAMINER
DATE (dd-mm-yy)X	AUTOCARD FILE	DEFENSE

03-04-2013 C-1225Hambull

VALUET DRKE LINDS
As-Built

FOR
X
L

PRODUCTS