

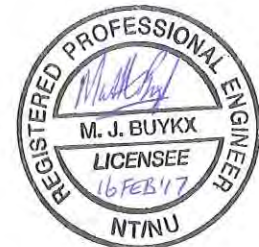
APPENDIX C.1
CONSTRUCTION SUMMARY REPORTS



Baffinland Iron Mines Corporation - Mary River Project
Construction Summary Report: Mine Site Waste Rock Sedimentation Pond and Drainage Ditch - January 24, 2017

**Baffinland Iron Mines Corporation
Mary River Project**

**Construction Summary Report: Mine Site Waste Rock Sedimentation
Pond and Drainage Ditch**



2017-01-24	0	Approved for Use	M. Buykx	T. Bruce	T. Bruce	J. Millard
Date	Rev.	Status	Prepared By	Checked By	Approved By	Approved By
HATCH						Client

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1. Facility Description

1.1 Purpose and Design Basis

The Mine Site waste rock sedimentation pond retains runoff water from the waste rock stockpile and allows solids suspended in the water to settle. Each summer a portable pump will be set up at the pond, and following water testing to confirm the water satisfies the discharge criteria, the water will be pumped over the pond wall in to a ditch. The ditch is 1.25km long and directs the water to a natural stream system that is non-fish bearing. The non-fish bearing stream eventually discharges to Mary River.

The pond is sized to hold water generated from the waste rock stockpile area under normal operations, based on an annual pond pump out after the freshet. The diversion ditch will receive water flows during normal pump discharge and also if the pond overflows due to exceedance of its available storage capacity.

The as built storage capacity for the empty pond is 9,200m³ based on information provided by the Civil contractor.

1.2 Location and Base Elevations

The waste rock sedimentation pond is located between Northing N 7 916 650 and N 7 916 850, and Easting E 562 800 and E 563 200. The pond bottom elevation varies between EL. 573m and 576m. The berm top elevation is at EL. 577m.

The waste rock pond overflow ditch is located between Northing N 7916 800 and N 7 917 200, and Easting E 562 800 and E 563 800. The elevation at the bottom of the ditch varies between EL. 576.2m and 568m.

1.3 Geometry and Access

The pond is constructed with a curved berm with design side slopes not steeper than 3H:1V and the berm top width is 8.4m. The overflow weir design slopes are 5H:1V exiting the pond.

1.4 Earthworks Materials Details

The ponds bottom is built up above the elevation of the original ground and the berm is constructed with raised earthworks. The pond has been sealed with exposed HDPE liner material for storage of the runoff water and sediments.

2. Construction Activity Summary

Construction activities on the Mine Site Waste Rock Sedimentation Pond and Drainage Ditch started in September 2015 and carried on through to August 2016. Installation of the pond liner took place in May 2016.

The following summarizes the construction activities for the pond:

- a. Construct berm
- b. Clear original ground inside berm
- c. Excavate key ditches
- d. Place crushed rock over original ground inside berm
- e. Install non-woven geotextile layer
- f. Install HDPE geo-membrane liner
- g. Backfill key trenches
- h. Place riprap

The following summarizes the construction activities for the ditch:

- a. Excavate trench
- b. Place rip rap

QA/QC

The quality assurance and quality control (QA/QC) conducted by Layfield documents the preparation of the subgrade, installation and final inspection of the completed liner (Appendix A).

- a. An inspection of the soil subgrade was conducted prior to installation of geo-membrane and a Certificate of Acceptance of Soil Subgrade Surface was signed by the project coordinator and Layfield Environmental supervisor.
- b. Daily Installation Reports prepared by Layfield describe the work performed, labour on site and weather conditions each day.
- c. A certificate of final inspection and acceptance was signed by Layfield and the Baffinland project coordinator.

3. Photographic Records



Figure 1: Aerial View of Waste Rock Stockpile, Pond and Ditch



Figure 2: Fill Placement for Berm Construction



Figure 3: Berm after Fill Placement



Figure 4: Liner Installation Started



Figure 5: Liner Placement



Figure 6: Liner Installation Nearing Completion



Figure 7: Seam Welding Liner

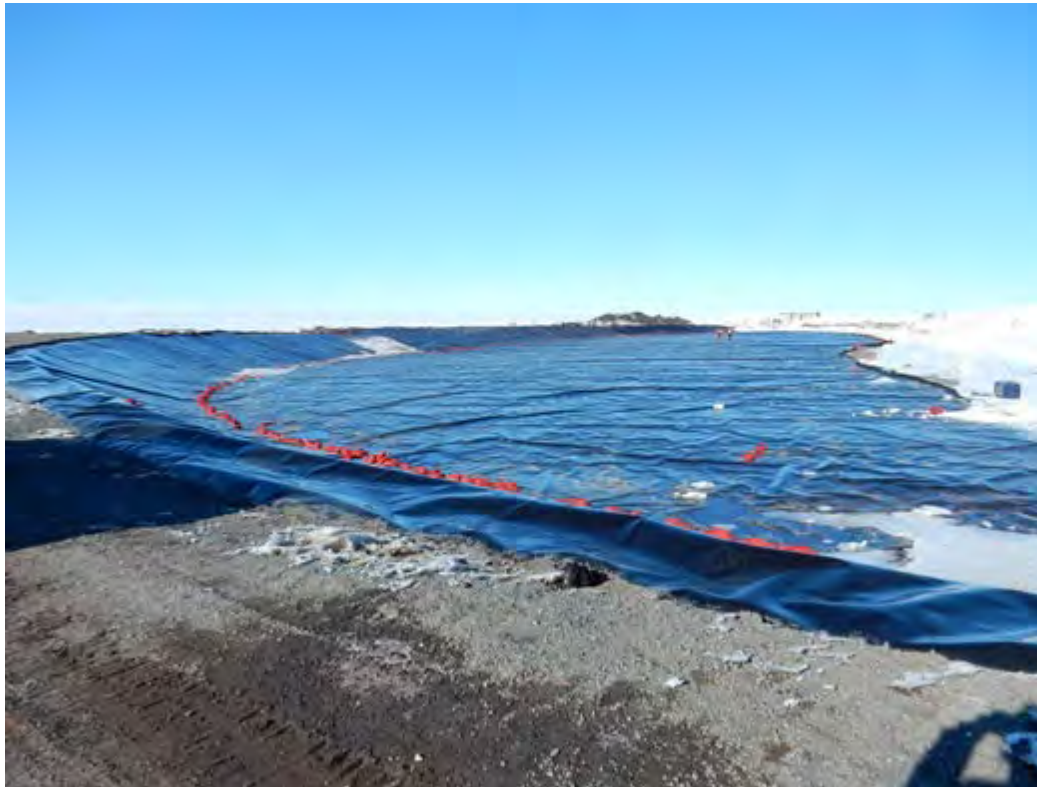


Figure 8: Liner Installation Complete



Figure 9: Ditch Excavation



Figure 10: Ditch After Excavation



Figure 11: Clearing Snow from Ditch

4. As-Built Drawings

The as-built drawings incorporate contractor provided and satellite survey data and contractor supplied field sketches. The as-built drawings are attached in Appendix B.

Table 4-1: Waste Rock Sedimentation Pond and Drainage Ditch As-Built Drawing List

Drawing Number	Title	Revision
H349000-4230-10-035-0001	Mine Site Waste Rock Sedimentation Pond Earthworks & Drainage – Plan	1
H349000-4230-10-035-0002	Mine Site Waste Rock Sedimentation Pond Earthworks & Drainage – Sections	1
H349000-4230-10-035-0003	Mine Site Waste Rock Drainage – Diversion Ditch Plan and Profile	0

5. Field Decisions

The following section describes field decisions made during construction:

- In some areas the design slope of 2:1 on the ditch walls was found to be too steep for the original ground material and the walls were collapsing during construction. A field decision was made to increase the slope up to 3:1 to achieve a stable ditch wall.
- The drainage slope of the ditch was reduced in the field due to differences in design topography data and that found in the field. As a result of this slope reduction the original ground was built up in some areas to achieve the bottom of ditch elevation. Ditch walls were built up from the elevation of the raised ditch bottom.
- In August 2017, after construction of the pond and ditch was completed, three additional ditches were dug upstream of the pond to direct water in to the pond, one in the centre of the pond and one at each end.

6. Performance Evaluation

The following issues have occurred with performance of the pond and ditch after completion of construction.

- The perimeter key that is designed to retain the pond liner on the upstream side of the pond collapsed due to poor ground conditions. As a result of this collapse, the liner lifted and allowed water under the liner. To remediate this issue, the liner was cut back and re-buried.
- There is a concern that water may be migrating underneath the liner in one location. Baffinland's Environmental Department is investigating this issue.

7. Vibration Monitoring and Quarrying Activity

No vibration monitoring was conducted during the construction of the Mine Site Waste Rock Sedimentation Pond and Drainage Ditch as it was not deemed necessary based on the scope of activities required for construction.

Control for quarrying activity was conducted as per the project's specific management plans:

- BAF-PH1-830-P16-0040 (H349000-4100-07-245-0001): Quarry Management Plan Mine Site Quarry (QMR2).
- BAF-PH1-830-P16-0004 (H349000-1000-07-126-0011): Borrow Pit and Quarry Management Plan

8. Environmental Monitoring

Environmental monitoring during the construction of the Mine Site Waste Rock Sedimentation Pond and Drainage Ditch was conducted as per the Environmental Protection Plan (EPP), Baffinland document number BAF-PH1-830-P16-0008.

In addition to the EPP, construction follows the requirements of the Environmental Health and Safety Management Framework, Baffinland document number BAF-PH1-830-STD-0001. The Baffinland on-site Environmental Management Team was responsible for environmental monitoring at all sites during construction and following-up with the construction team(s) if there were any reported environmental incidents or non-conformances.

Mine Site Waste Rock Sedimentation Pond and Drainage Ditch construction was also required to follow the requirements of the Surface Water and Aquatic Ecosystems Management Plan, BAF-PH1-830-P16-0026. This Management Plan outlines the best management practices implemented to limit the potential for adverse impacts to receiving waters, aquatic ecosystems, fish and fish habitat used during construction. In addition this plan details the systems in place to mitigate and manage drainage and runoff at the building sites, address point and non-point discharges to surface waters and assess those discharges on water quality and quantity relative to their receiving water systems.

The Spill Contingency Plan, BAF-PH1-830-P16-0036, in conjunction with the Emergency Response Plan, BAF-PH1-830-P16-0007, provides guidance and instructions for first responders and Baffinland Management in the event of a spill event or other emergency such as fire or accident.

The risks to the water quality in the respective rivers and streams as a result of construction of the Mine Site Waste Rock Sedimentation Pond and Drainage Ditch would originate from the following sources based on construction methodology:

- Spills from equipment
- Increase in sediment load in the water

There were no recorded spills from equipment used at the construction site. During the period of construction, water quality monitoring conducted at downstream stations under Part D, Section 16 and Part I, of the Type "A" Water Licence 2AM-MRY1325 indicated total suspended solids (TSS) and other parameter at levels below the specified Water License criteria. The results for water quality monitoring were provided in monthly reports submitted to the Nunavut Water Board and other stakeholders. In consideration of the above, the environmental mitigation strategies were effective in maintaining runoff water quality.

9. Earthworks Data

The survey data collected has been included in Appendix C.

10. Unanticipated Observations

The following unanticipated observations were made during construction of the pond and ditch.

- Surface topography in the ditch construction area did not match the Lidar survey data used to design the ditch alignment.
- A large snow bank remained in the ditch construction area and prevented a field check of the existing survey data prior to construction starting.
- The water table was located at the surface in the ditch construction area.
- The natural ground conditions are very poor. During the summer construction periods the existing ground turned to deep mud.
- Ditch side walls were collapsing during construction due to the poor ground conditions and high water table.
- Upon excavation of the existing ground, no permafrost was evident.
- A snowstorm in September 2016 prevented collection of final survey data. Data used to As Build the drawings is based on satellite survey data collected in August 2016.
- The liner key on the high side of the pond perimeter is built in to the original ground. During the 2016 summer, the liner key collapsed as a result of the poor ground conditions. To repair the pond, the liner was cut back and re-buried.
- In the summer 2015 construction period, the bottom of the ditch between 0+100 and 0+325 was over excavated and back filled. During the 2016 summer construction period, the back fill in this area became unstable and had to be removed and replaced with waste rock.

11. Surface Monitoring

Not conducted.

12. Required Maintenance

The following maintenance will be required for the pond and ditch.

- During construction of the ditch, the project ran out of rip rap, so one 125m long section of the ditch does not have rip rap installed. Rip rap will be installed in this section in 2017.
- An annual inspection and maintenance program for the ditch is recommended. The high volume of ground water and the poor quality of the original ground may result in movement of placed rip rap in to the original ground. The 50m section of ditch closest to the discharge point is of particular concern.

13. Adaptive Management

For discussion of adaptive management principles and practices applied during the Construction Phase of the Project and their overall effectiveness please refer to the 2015 Annual Report to the Nunavut Impact Review Board. Any additional adaptive management practices implemented as a result of works completed in 2016 will be reported in the updated 2016 Annual Report to the Nunavut Impact Review Board.

14. Concordance with Type “A” Water Licence

The Nunavut Water Board Type “A” Licence 2AM-MRY1325, Schedule D, outlines the requirements for Construction Monitoring Reports. The following table provides a concordance of the report, herein, with the requirements included in Part D.

Table 14-1: Table of Concordance for Schedule D

Schedule D Item No.	Schedule D Description	Corresponding Section in this Report
1a	description of all infrastructure and facilities designed and constructed to contain, withhold, divert or retain Water and/or Waste;	1
1b	a summary of construction activities including photographic records before, during and after construction of the facilities and infrastructure designed to contain, withhold, divert or retain Water and/or Waste;	2, 3
1c	as-built drawings and design for facilities and infrastructure, in Item 1(a) of this schedule, designed and constructed to contain, withhold, divert or retain Water and/or Waste;	4
1d	documentation of field decisions that deviate from the original plans and any data used to support or developed facilities and infrastructure to withhold, divert or retain Water and/or Waste;	5
1e	a comparison of measured versus predicted performance of infrastructure and facilities;	6
1f	any blast vibration monitoring and control for quarrying activity carried out in close proximity to fish bearing waters;	7
1g	monitoring conducted for sediment and explosives residue release from construction areas;	8
1h	monitoring undertaken in accordance with Part D of the during the Construction Phase of the Project;	8
1i	details confirming that the requirements of the CCME guidance document entitled "Aboveground Storage Tank Systems for Petroleum and Allied Petroleum Products (2003)" have been met by the Licensee;	N/A
1j	data collected from instrumentation used to monitor earthworks and the interpretation of that data;	9
1k	a discussion of any unanticipated observations including changes in risk and mitigation measures implemented to reduce risk during construction;	10
1l	an overview of any method including frequency used to monitor deformations, seepage and geothermal responses;	11
1m	a summary of maintenance work undertaken as a result of settlement or deformation of dikes and dams;	12
1n	a summary of adaptive management principles and practices applied during the relevant phases of the Project and their overall effectiveness.	13

Appendix A

Liner Data



CERTIFICATE OF ACCEPTANCE OF SOIL SUBGRADE SURFACE

PROJECT NAME: Baffinland waste Rock pond.
PROJECT NUMBER: C400071
OWNER: Bim
LOCATION: Mary River

I, the undersigned, a duly appointed representative of Layfield Environmental Systems Ltd. (LESL), have visually observed the soil subgrade described below, and found it to be an acceptable surface on which to install geomembrane.

This certification is based on observations of the surface of the subgrade only. No subterranean inspections or tests have been performed by Layfield Environmental Systems, and LESL makes no representations or warranties regarding conditions which may exist below the surface of the subgrade. Layfield Environmental Systems accepts no responsibility for conformance of the subgrade to this project's specifications.

The soil subgrade accepted on this date refers to its present condition. Any changes in the subgrade condition that result from the effects of inclement weather and/or other forces beyond the control of Layfield Environmental Systems and remedial work to correct the resulting deficiencies, will be the direct responsibility of the General Contractor.

Area Being Accepted: waste Rock pond - 3/4 crush minor imperfections due to frozen ground, Area was Inspected and fixed as install took place 12,550 sq.m

LAYFIELD ENVIRONMENTAL SYSTEMS REPRESENTATIVE:

Date: May 18/2016
Signature: Matthew Bourne
Name: Matthew Bourne
Title: Supervisor

OWNERS REPRESENTATIVE:

Date: May 9, 2016
Signature: [Signature]
Name: Joel McLean
Title: Construction Manager
Company: OPC with to Baffinland



CERTIFICATE OF FINAL INSPECTION AND ACCEPTANCE

PROJECT NAME: Baffinland Waste Rock Pond
PROJECT NUMBER: CT-000071 DATE: May 18/2016
OWNER: BIM
LOCATION: Mary River

SCOPE OF INSTALLATION(S): THE WORK

Installation of LP7 on 3/4" crush and 12,550 Sq.m of 6060
Geomembrane. Installed tested and completed.
Gross Material used 13,208 Sq.m
Net used 12,550
Calculated waste 5%

Part 1 – LAYFIELD ENVIRONMENTAL SYSTEMS LTD.

I, Mathew Bourne, a duly appointed representative of Layfield Environmental Systems Ltd. (LESL), have visually observed the installations (as outlined above), and have found the Work to be complete and free of defects and declare that the Work was completed in accordance with the project specifications, Layfield Environmental Systems' QC program and the terms and conditions of the contract.

Layfield Environmental Systems Representative:

Name: Mathew Bourne
Title: Supervisor
Date: May 18/2016 Signature: Mathew Bourne

Part 2 – OWNER (or Representative)

I, David McLean, a duly appointed representative of Baffinland Iron Mines, do hereby take over and accept the installation(s) described above, and confirm that the work has been completed in accordance with the project specifications and the terms of the conditions of the contract.

I have evaluated and measured the work together with the Layfield Environmental Systems representative, and agree that the measurements shown are both true and correct, and that the installation has met our approval.

Owners Representative:

Name: David McLean
Title: Construction Manager
Company: Baffinland Iron Mines
Date: May 18/16 Signature: David McLean

Comments: _____

CERTIFICATE OF FINAL INSPECTION AND ACCEPTANCE

PROJECT NAME: Bassland waste Rock Pond
PROJECT NUMBER: CT-000071 DATE: May/08/2016
OWNER: BIM
LOCATION: Mary River

SCOPE OF INSTALLATION(S): **THE WORK**
Installation of LP7 on 3/4" crush and 12,550 Sq.m of 6060
Geomembrane installed tested and completed.
Gross Material used 13,208 Sq.m
Net used 12,550
Calculated waste 5%

Part 1 – LAYFIELD ENVIRONMENTAL SYSTEMS LTD.

I, Mathew Bourne, a duly appointed representative of Layfield Environmental Systems Ltd. (LESL), have visually observed the installations (as outlined above), and have found the Work to be complete and free of defects and declare that the Work was completed in accordance with the project specifications, Layfield Environmental Systems' QC program and the terms and conditions of the contract.

Layfield Environmental Systems Representative:

Name: Mathew Bourne
Title: Supervisor
Date: May/08/2016 Signature: Mathew Bourne

Part 2 – OWNER (or Representative)

I, Diana Williams, a duly appointed representative of Bathurst, do hereby take over and accept the installation(s) described above, and confirm that the work has been completed in accordance with the project specifications and the terms of the conditions of the contract.

I have evaluated and measured the work together with the Layfield Environmental Systems representative, and agree that the measurements shown are both true and correct, and that the installation has met our approval.

Owners Representative:

Name: Diana Williams
Title: Owner Representative
Company: Bathurst
Date: May/08/2016 Signature: Diana Williams

Comments: _____



Daily Installation Report

(revised Feb/08)

Supervisor : Matthew Bourne

Date : April 25 / 2016

Customer & Project Title : Bass Island

Job Number : CT000071 Weather : Overcast

morning

noon

night

Description of Work Performed

Started day at 10:00 (Matdosh) at the Shop
got everything Ready to go.
Thomas met up at 12:00
Drove to enterprise and Switched Driver Name into: thomas
Started are Travels.
Stopped for Gas at on the run + took lunch.
Continued on Route to Mirabel.
Arrived At Super 8 Mirabel at 8:00.
checked in and finished are day.

Mobilization # : _____

Labour

Name														
	Matthew Bourne	Joshua Bourne	Thomas Whelan	Kenny Teachen										
Total Hours	10	10	8	8										

Installation Production

Elapsed Calendar Days : 1

Elapsed Installation Days : 0

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date	0						
Cumulative							

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine	
Qty.	1	4800													

Job Materials

Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel	
Qty.															
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)	

Approved : T. Bourne

Signature : Matthew Bourne



Daily Installation Report

(revised Feb/08)

Supervisor : Matthew Bourne

Date : April 26/2016

Customer & Project Title : Baffin land

Job Number : 0000071

Weather : Sunny -1° Sunny 1° Overcast Snow -4
morning noon night

Description of Work Performed

Started day at 12:00
checked out of Hotel
Drove to Airport
checked in At Airport
waited for plane take off
flew to Igloolik and filled plane for fuel
waited for all clear to land for Mary River
got the go ahead and flew to Mary
landed and checked in
Met Tyler from Hatch
got are Bags and went to are tents
finished for the day at 10:30pm

Mobilization # : _____

Labour

Name															
	Joshua Bourne	Joshua Bourne	Matthew Bourne	hanny Tachon											
Total Hours	10.5	10.5	10.5	10.5											

Installation Production

Elapsed Calendar Days : 2

Elapsed Installation Days : 0

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date	0						
Cumulative							

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine	
Qty.															

Job Materials

Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel	
Qty.															
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)	

Approved : T. Bruce

Signature : Matthew Bourne



Daily Installation Report

(revised Feb/08)

Supervisor : Mathew Bourke

Date : April 17/2016

Customer & Project Title : Bass Island

Job Number : C1000071

Weather : Snowing
morning noon night

Description of Work Performed

Started are day At 6:00 Having are Morning talk
waited for Bus to pick us up to Drive to other camp for ~~orientation~~ orientation
got to other camp and waited for plane to come in due to instructor
Being on plane.
at 11:30 we Started training
Completed training 2:00
Had to Have crew tested for TTB After training
Got hold of But from and Made it back to camp
Got A Hold of Site contact and Drive up to see pond
once we looked over the Pond we Drive Back to camp to allow more Snow
Removal to Take place Night Shift will be clearing snow at night.

Mobilization # : _____

Labour

Name														
	Mathew Bourke	Joshua Bourke	Randy Henry	Travis Thomas	Whitney									
Total Hours	12	12	12	12										

Installation Production

Elapsed Calendar Days : 3

Elapsed Installation Days : 0

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date	<u>0</u>						
Cumulative							

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine
Qty.														

Job Materials

Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel
Qty.														
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)

Approved : D. N. Lane

Signature : [Signature]



Daily Installation Report

(revised Feb/08)

Supervisor : Mathew Bourne

Date : Apr 1/28/2016

Customer & Project Title : Bassland

Job Number : 01000071 Weather : Sun/Blue sky All day

morning

noon

night

Description of Work Performed

met up for 6:00 Had meeting with Dave and Super with Bassland
got on a bus to km 144 where we waited to be picked up
to go up km 110 where pond is located
we began setting up equipment and laying out panels
Completed Bag liner for liner install
all morning we cleaned snow with labour to have Adequate Subgrade
took lunch
After lunch we finish snow clearing to be able to start liner
we Deployed two panels and began welding seam
The light plant that was used did not generate enough power for welder
And Had Two Burn outs as a result we were able to use a welder generator
to finish the weld then completed air test we closed up & drove back to camp after
balancing liner in floor

Mobilization # : _____

Labour

Name														
	Mathew Bourne	Joshua Bourne	Thomas Wheeler	Kenny Teahen										
Total Hours	12	12	12	12										

Installation Production

Elapsed Calendar Days : 4

Elapsed Installation Days : 1

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date	1,074	1,074					
Cumulative	1,074	1,074					

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine	
Qty.						1		1							

Job Materials

Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel	
Qty.															
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)	

Approved : _____

Signature : Mathew Bourne



Daily Installation Report

(revised Feb/08)

Supervisor : Mathew Bourne

Date : Apr 1/29/2016

Customer & Project Title : Bassland

Job Number : CT-000071 Weather : Sun/Blue Sky All day
morning noon night

Description of Work Performed

Started our morning at 6:00 with safety meeting
Took Bus up to 104km where we waited pick up to pond
got to site and completed Tool Box/FIRA
Began Moving Bags for liner install
qualified welder + Began deploying panels
Install 2 Rolls + welded seams as we went
took lunch
qualified welder + continued Install
Installed 1 more Roll and Began Bagging liner down due to
Health + Safety meeting at 5:00
cleaned up and Drove to camp

Mobilization # : _____

Labour

Name														
	Mathew Bourne	Joshua Bourne	Thomas Bourne	Whaler	Kenny Trainor									
Total Hours	12	12	12	12										

Installation Production

Elapsed Calendar Days : 5

Elapsed Installation Days : 2

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date	3,222	3,222					
Cumulative	4,296	4,296					

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine	
Qty.						1		1							

Job Materials

Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel	
Qty.															
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)	

Approved : _____

Signature : Mathew Bourne



Daily Installation Report

(revised Feb/08)

Supervisor : Mathew Bourne

Date : Apr. 1/30/2016

Customer & Project Title : Bass Island

Job Number : C1000071 Weather : Sun / Blue sky all day
morning noon night

Description of Work Performed

Started are day with meeting at camp
Drove up to pond
Performed Toolbox/ILRA
Started Textile on west end of pond while josh performed qualification
Began Deploying Panels on floor
Completed 1 Roll and took lunch
Started Panels on slope
Tom air tested all seams
we preped and welded tie in
cleaned up site at 5:30
Traveled to camp
Arrived at camp for 6:00 And finished are day

Mobilization # : _____

Labour

Name														
	Mathew	Bourne	Joshua	Peck	Thomas	Whelan	Henry	Tran						
Total Hours	12	12	12	12										

Installation Production

Elapsed Calendar Days : 6

Elapsed Installation Days : 3

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date	2,148	2,148					
Cumulative	6,444	6,444					

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine	
Qty.						1		1							

Job Materials

Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel	
Qty.															
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)	

Approved : _____

Signature : Mathew Bourne



Daily Installation Report

(revised Feb/08)

Supervisor : Mathew Bourne

Date : May 10 / 2016

Customer & Project Title : ~~Basinland~~ Basinland

Job Number : C1000071 Weather : Overcast Light Snow all day
morning noon night

Description of Work Performed

Started our day at 6:00
Had weekly meeting till 6:30
Drove up to Waste Rock pond.
Completed Tool Box / FLRA qualified wedge welder
Started textile on west end where Night Shift Removed Ramp
Deployed Panels
Took lunch
Completed Tie-in and all Air tests
Began Deploying Textile on east side
Deployed one panel
Bagged down edge and Installed textile on Berm edge for Backfill
cleaned up and drove to camp for 6:00

Mobilization # : _____

Labour

Name														
	Mathew Bourne	Toshua Bourne	Thomas Wheeler	Kenny Travin										
Total Hours	12	12	12	12										

Installation Production

Elapsed Calendar Days : 7

Elapsed Installation Days : 4

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date	1,074	1,074					
Cumulative	7,518	7,518					

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine	
Qty.						1		1							

Job Materials

Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel	
Qty.															
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)	

Approved : _____

Signature : Mathew Bourne



Daily Installation Report

(revised Feb/08)

Supervisor : Matthew Bourke

Date : May/02/2016

Customer & Project Title : Baffinland

Job Number : 01000071 Weather : Overcast -15° 30k winds 45K gusts All day
morning noon night

Description of Work Performed

Started our day at 6:00
Had meeting
Travelled up to pond
High winds prevented us from installation
We cleaned up Curbage on site
Helped with backfill of trench
Received Sandbags
Cleared snow from tires
Left equipment we were able to fix
Drove down to truck
Drove to camp

Mobilization # : _____

Labour

Name														
	Matthew Bourke	James Brown	James Brown	James Brown	James Brown	James Brown	James Brown	James Brown	James Brown	James Brown	James Brown	James Brown	James Brown	James Brown
Total Hours	12	12	12	12										

Installation Production

Elapsed Calendar Days : 8

Elapsed Installation Days : 4

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date	0	0					
Cumulative	7,518	7,518					

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine	
Qty.															

Job Materials

Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel	
Qty.															
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)	

Approved : _____

Signature : Matthew Bourke



Daily Installation Report

(revised Feb/08)

Supervisor : Matthew Bourke

Date : May 10, 2005

Customer & Project Title : Bass Island

Job Number : C7000071 Weather : 50k wind 80k gust overcast All day
morning noon night

Description of Work Performed

Started air day at 6:00
the wind was so high and all clean up was done so we
sat at camp and waited for any break in weather
Got updated that the Road into the pond was snowed in
Nuna Had plan's to clear Road in am

Mobilization # : _____

Labour

Name														
	<u>Matthew Bourke</u>	<u>Joshua Bourke</u>	<u>Thomas Wheeler</u>	<u>Kenny Tachin</u>										
Total Hours	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>										

Installation Production

Elapsed Calendar Days : 9

Elapsed Installation Days : 4

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date	<u>0</u>	<u>0</u>					
Cumulative	<u>7,518</u>	<u>7,518</u>					

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine	
Qty.															

Job Materials

Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel	
Qty.															
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)	

Approved : _____

Signature : Matthew Bourke



Daily Installation Report

(revised Feb/08)

Supervisor : Mathew Bourde

Date : May 10/2016

Customer & Project Title : Bass Island

Job Number : 11000071

Weather : 30km winds 0° Sun/cloud
morning noon night

Description of Work Performed

Started our day at 6:00
was told the Road was going to be worked on to Access pond
Mathew drove up. But couldn't get down to pond
we waited to go up when Road was clear
Around 1300hrs we got the go ahead.
got Ready and travelled up to pond
Began doing Repairs with a wind Break in front of Gun
Worked till 5:30
cleaned up and returned to camp

Mobilization # : _____

Labour

Name														
Mathew Bourde	Joshua Bourde	Thomas Whittier	Ilenny Tachen											
Total Hours	12	12	12	12										

Installation Production

Elapsed Calendar Days : 10

Elapsed Installation Days : 4

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date	0	0					
Cumulative	7,518	7,518					

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine
Qty.														

Job Materials

Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel
Qty.														
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)

Approved : _____

Signature : Mathew Bourde



Daily Installation Report

(revised Feb/08)

Supervisor : Mathew Bourne

Date : May 10 5/2016

Customer & Project Title : Basseland

Job Number : 1000071 Weather : 0°C Sun + Blue sky All day

morning

noon

night

Description of Work Performed

Started all day at 6:00
Had meeting + traveled up to Pond
Performed tool Box / FLRA
Began doing Repairs on liner
Mathew + Labour Removed Snow to continue Deployment
Completed Repairs by 11:00
Started Installing Textile
Took lunch
Continued Textile and Deployed Panels
Completed 2 Rolls and Bagged liner down
cleaned up and Headed for camp
Had to wait for Blast to be done because were unable to complete weld before
last call to leave Mountain

Mobilization # : _____

Labour

Name														
	Mathew Bourne	Joshua Brown	Thomas Wheeler	Kenny Teahen										
Total Hours	12	12	12	12										

Installation Production

Elapsed Calendar Days : 11

Elapsed Installation Days : 5

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date	2,148	2,148					
Cumulative	9,666	9,666					

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine
Qty.						1	1	1			1			

Job Materials

Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel
Qty.														
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)

Approved : _____

Signature : Mathew Bourne



Daily Installation Report

(revised Feb/08)

Supervisor : Matthew Bourne

Date : May 10/2006

Customer & Project Title : Bass Island Waste Rock Pond

Job Number : C1000071

Weather : Overcast Sun/Clouds
morning noon night

Description of Work Performed

Started work day at 6:00
Had meeting
Traveled to pond
Completed Toolbox/FLRA
Began laying textile
Deployed Panels
Took lunch
~~Continued deployment~~
Continued deployment
Prepped Tie-in
Welded Tested Area
Bagged down liner cleaned up and headed to camp

Mobilization # : _____

Labour

Name														
	Matthew Bourne	Joshua Bourne	Thomas Wheeler	Army Truitt										
Total Hours	12	12	12	12										

Installation Production

Elapsed Calendar Days : 12

Elapsed Installation Days : 6

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date	2,148	2,148					
Cumulative	11,814	11,814					

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine	
Qty.						1	1	1							

Job Materials

Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel	
Qty.															
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)	

Approved : _____

Signature : Matthew Bourne



Daily Installation Report

(revised Feb/08)

Supervisor : Matthew Bourne

Date : May 10 7/2016

Customer & Project Title : Bass Island waste Rock pond

Job Number : CL-000071 Weather : Sun/Blue sky All day 15k with 20k wind at times
morning noon night

Description of Work Performed

Started at 6:00
Had meeting
Drove to site and prepared Tool Box/ELRA
Began textile area cleaned up and Had excavator Remove rest of Ramp
and Smoothed Subgrade
Installed floor panels
Completed Remainder of Textile
Deployed slope panels
Prepped Tie-in and completed
welded & tested
Walk Entire pond for Repairs
Completed waste Rock pond of Install & Repairs cleaned up and Moved to camp

Mobilization # : _____

Labour

Name														
	Matthew Bourne	Joshua Bourne	Thomas Wheeler	Kenny Taylor										
Total Hours	12	12	12	12										

Installation Production

Elapsed Calendar Days : 13

Elapsed Installation Days : 7

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date	1,394	1,394					
Cumulative	13,208	13,208	12,550				

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine	
Qty.						1	1	1							

Job Materials

Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel	
Qty.		125													
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)	

Approved : _____

Signature : _____



Daily Installation Report

(revised Feb/08)

Supervisor : Matthew Bourke

Date : May/08/2016

Customer & Project Title : Basinland

Job Number : C1000071

Weather : Sun/Blue sky All day
morning noon night

Description of Work Performed

Started all day at 6:00
went and had safety meeting till 6:30
Drove up to site
Cleared up all Garbage on site
Put left over material (Roll of Liner & Textile) in a pile
Began watching Backfill Take place as we cleared usable Sand Bags on
a Pallet (Taken from the Top of slope)
Remainder of Bags left on Joe for Ballast
loaded equipment into our Shipping Box and Drove it down to warehouse
Tom worked on QC all day
Matthew Helped with GPS (Survey) Map out Panel layout
Traveled Back to camp

Mobilization # : _____

Labour

Name																			
	Matthew Bourke	Joshua Bourke	Thomas Wheeler	Henry Tamm															
Total Hours	12	12	12	12															

Installation Production

Elapsed Calendar Days : 14

Elapsed Installation Days : 7

Material Production / Recap Info	Liner Installed (sq.m.) or (sq.ft.)	Liner Tested (sq.m.) or (sq.ft.)	Geotextile (sq.m.) or (sq.ft.)	Geonet (sq.m.) or (sq.ft.)	Other: (sq.m.) or (sq.ft.)	Wick Drain	
						(ft) or (m)	# of wicks
Today's date							
Cumulative							

Equipment

Type	Truck	Mileage	Flat Deck Trailer	Cargo Trailer	ATV	Wedge Welder	Extrusion Welder	Tensio-meter	Genset	Compres.	Leister	Hilti	Sewing Machine	Wick Machine	
Qty.															

Job Materials

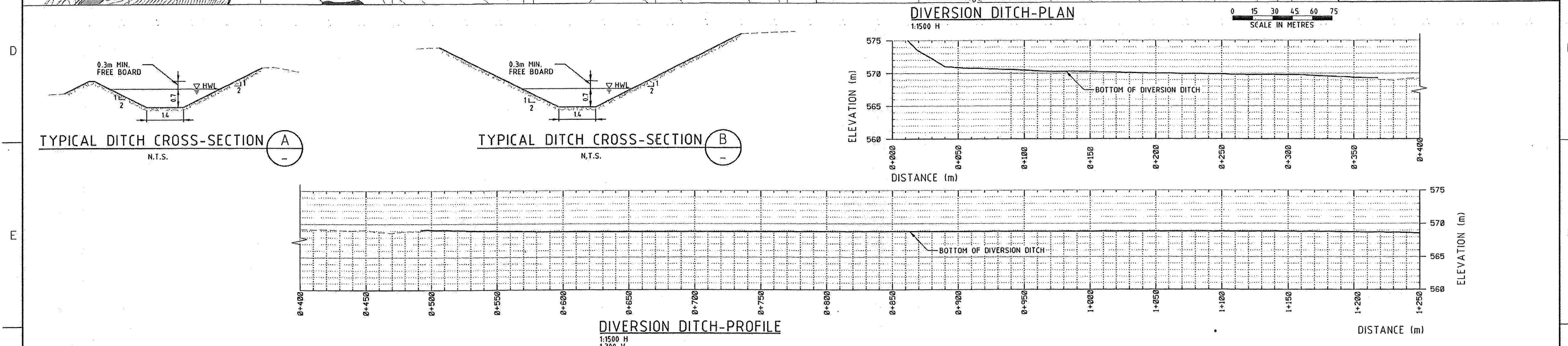
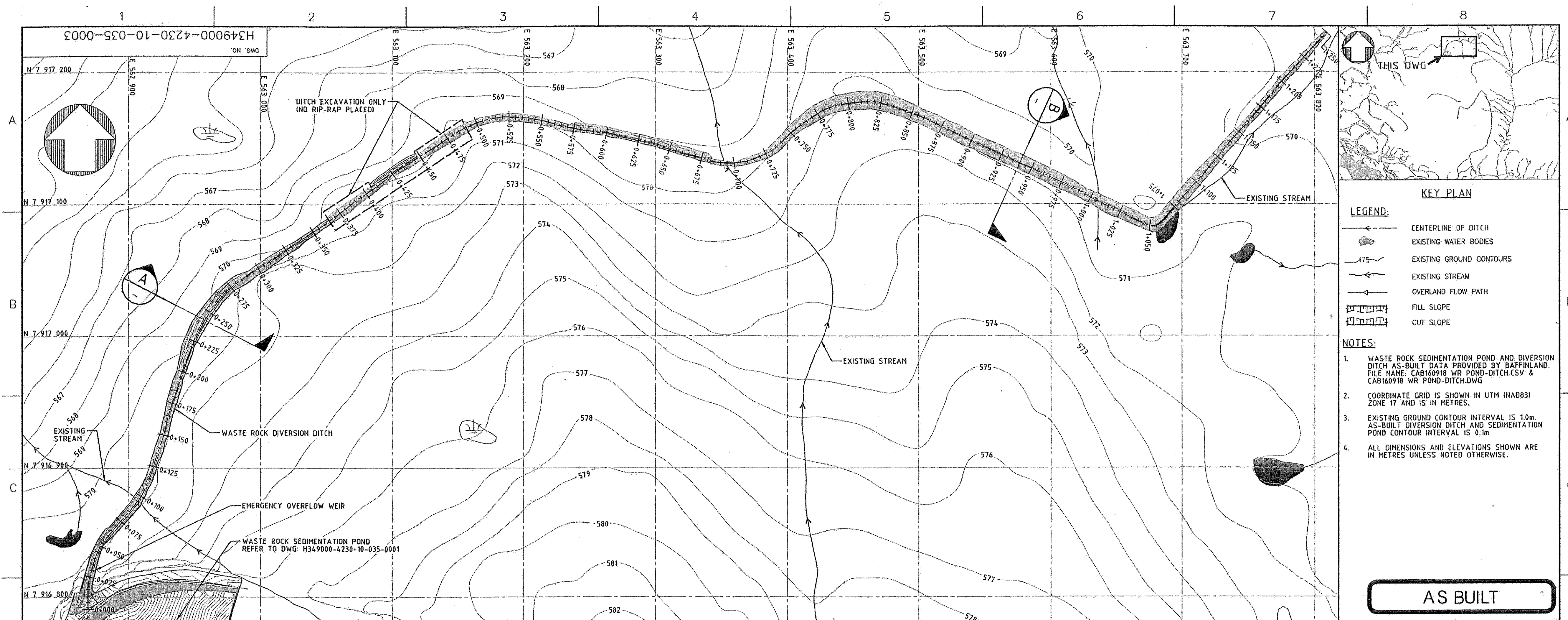
Type	Sand Bags	Welding Rod	Batten Bar	Anchor Bolts	Caulking	Gasket	Banding	THF	Rags	Thread	Wick Plates	Wick Rebar	Wick Shoes	Wick Mandrel	
Qty.															
	(ea)	(spool)	(lm)	(ea)	(tube)	(lm)	(lm)	(gal)	(box)	(spool)	(ea)	(ea)	(ea)	(ft)	

Approved : _____

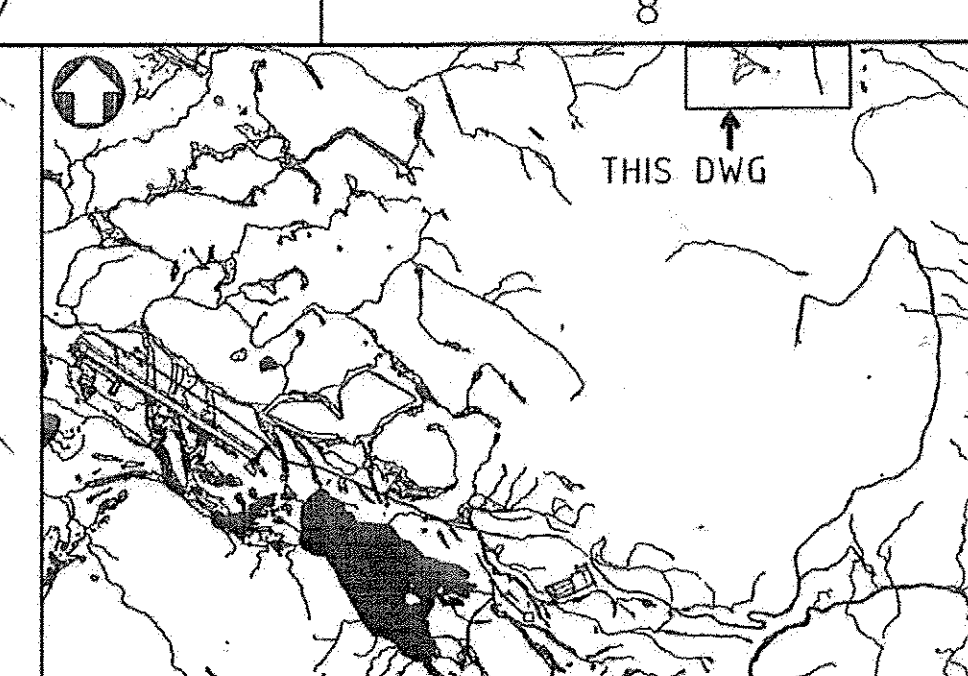
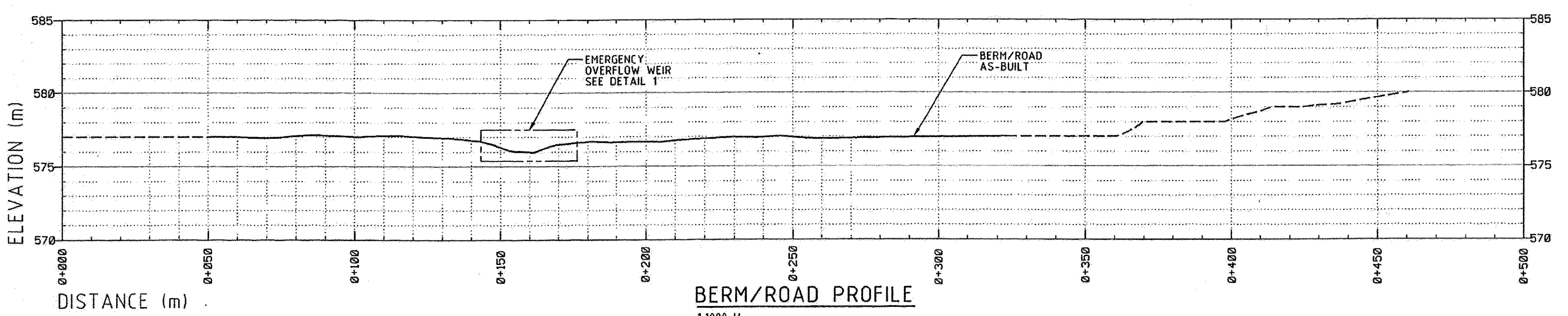
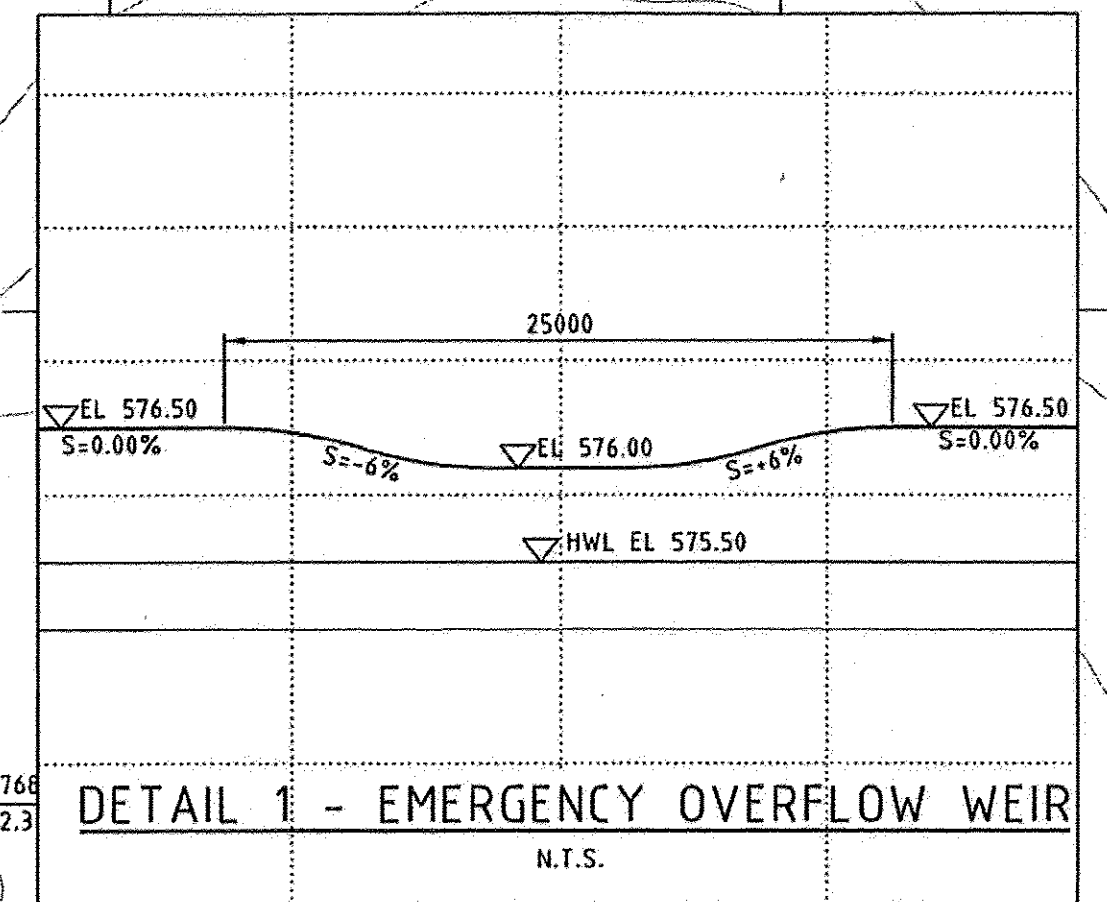
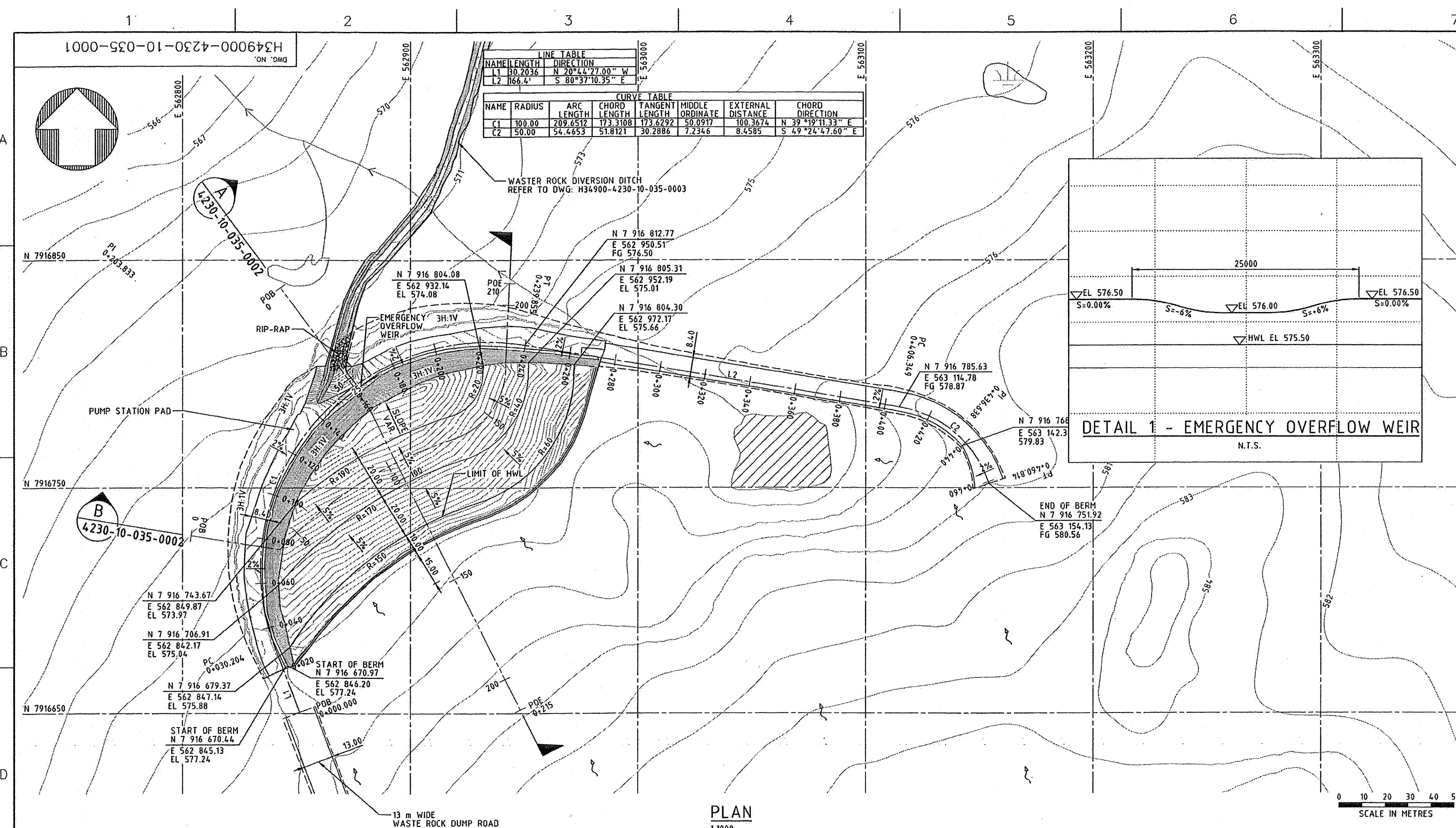
Signature : Matthew Bourke

Appendix B

As-Built Drawings



REFERENCE DRAWINGS		REVISIONS		ISSUE AUTHORIZATION		HATCH		Baffinland	
H349000-4320-10-035-0002 WASTE ROCK SEDIMENTATION POND-EARTHWORKS & DRAINAGE-SECTIONS		0 AS-BUILT		DESIGNED BY G. JOBINVILLE DATE 2014-03-19		DRAWN BY G. JOBINVILLE DATE 2014-03-19		MARY RIVER PROJECT	
H349000-4320-10-035-0001 WASTE ROCK SEDIMENTATION POND-EARTHWORKS & DRAINAGE-PLAN				CHECKED BY A. MOHEBKHANI DATE 2014-03-19		DISCIP. ENGR. S. HASSAN DATE 2014-03-19		MINE SITE	
H349000-4000-00-014-0001 MINE SITE - SITE LAYOUT				PROJ. DES. COORD. T. THIETELL DATE 2014-03-19		PROJ. ENGR. J. CLELAND DATE 2014-03-19		WASTE ROCK DRAINAGE - DIVERSION DITCH PLAN AND PROFILE	
DRAWING NO. H349000-4230-10-035-0003				PROJ. MGR. S. PERRY DATE 2014-03-19		SCALE 1:1500		DWG. NO. H349000-4230-10-035-0003	
						OR AS NOTED		REV. 0	
								ORIGINAL SHEET SIZE: ISO A1 (841 x 594)	



- LEGEND:**
- EXISTING WATER BODY
 - EXISTING DEPRESSION
 - EXISTING GROUND CONTOUR
 - FILL SLOPE
 - TOE OF SLOPE
 - GRADING SLOPE
 - FLOW DIRECTION
 - RIP RAP
 - CROSS SECTION DISTANCE
 - POINT OF TANGENT
 - POINT OF CURVE
 - POINT OF INTERSECTION
 - POINT OF BEGINNING
 - POINT OF END
 - HIGH WATER LEVEL
 - FREEBOARD

- NOTES:**
- WASTE ROCK SEDIMENTATION POND AND DIVERSION DITCH AS-BUILT DATA PROVIDED BY BAFFINLAND. FILE NAME: CAB160918 WR POND-DITCH.CSV & CAB160918 WR POND-DITCH.DWG
 - COORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METRES.
 - EXISTING GROUND CONTOUR INTERVAL IS 1.0m. AS-BUILT DIVERSION DITCH AND SEDIMENTATION POND CONTOUR INTERVAL IS 0.1m
 - ALL DIMENSIONS AND ELEVATIONS SHOWN ARE IN METRES UNLESS NOTED OTHERWISE.

AS BUILT

REFERENCE DRAWINGS	DRAWING NO.	DRAWING TITLE
H349000-4320-10-035-0003		WASTE ROCK DRAINAGE-DIVERSION DITCH PLAN & PROFILE
H349000-4320-10-035-0002		WASTE ROCK SEDIMENTATION POND-EARTHWORKS & DRAINAGE-SECTIONS
H349000-4000-00-014-0001		MINE SITE - SITE LAYOUT

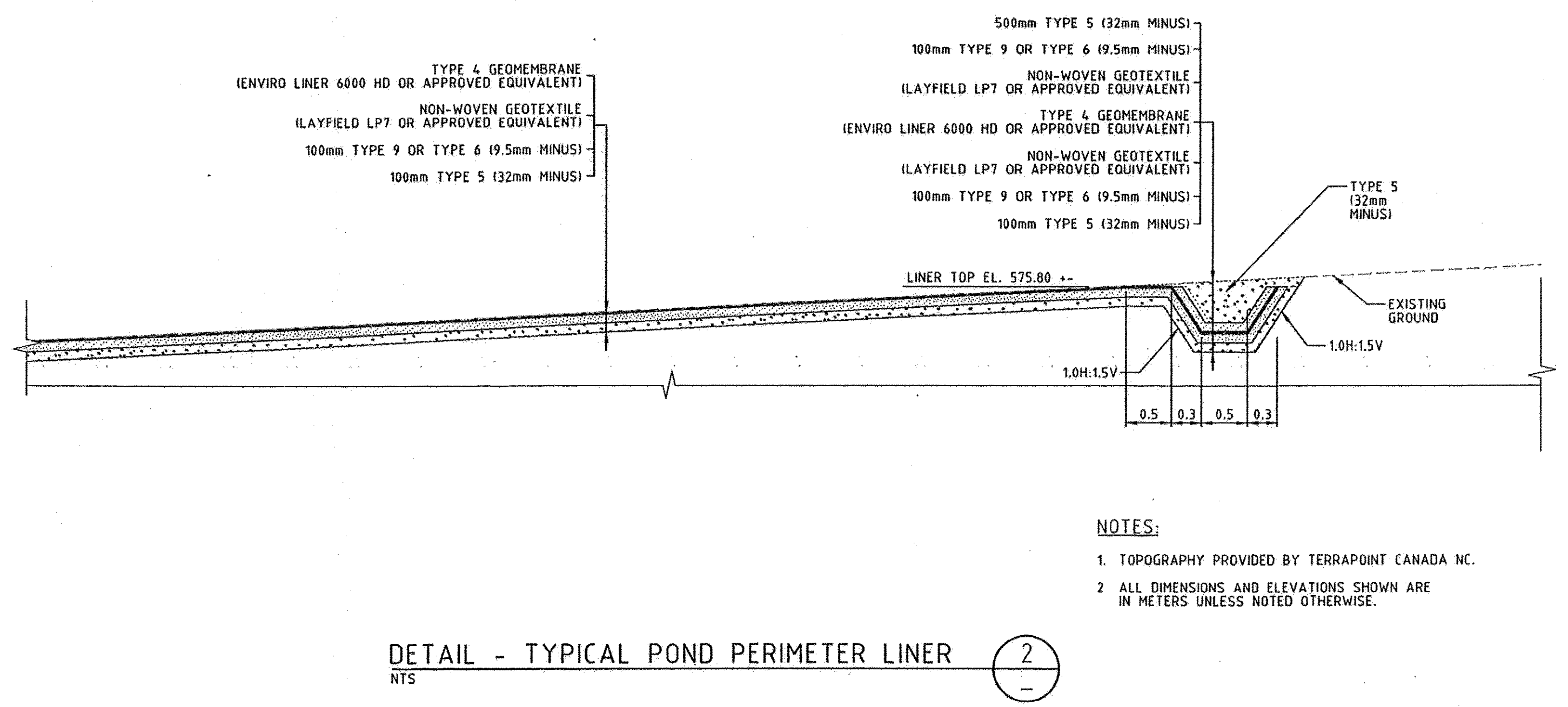
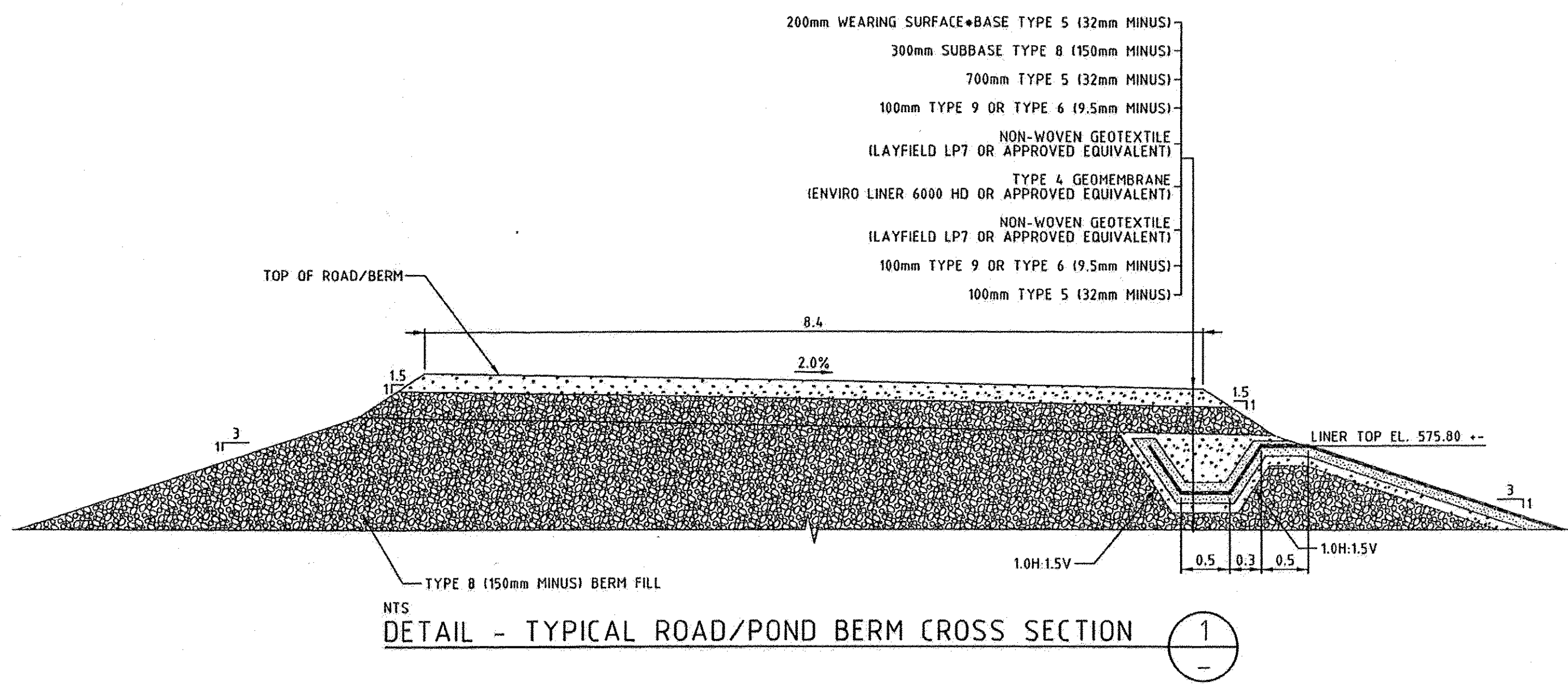
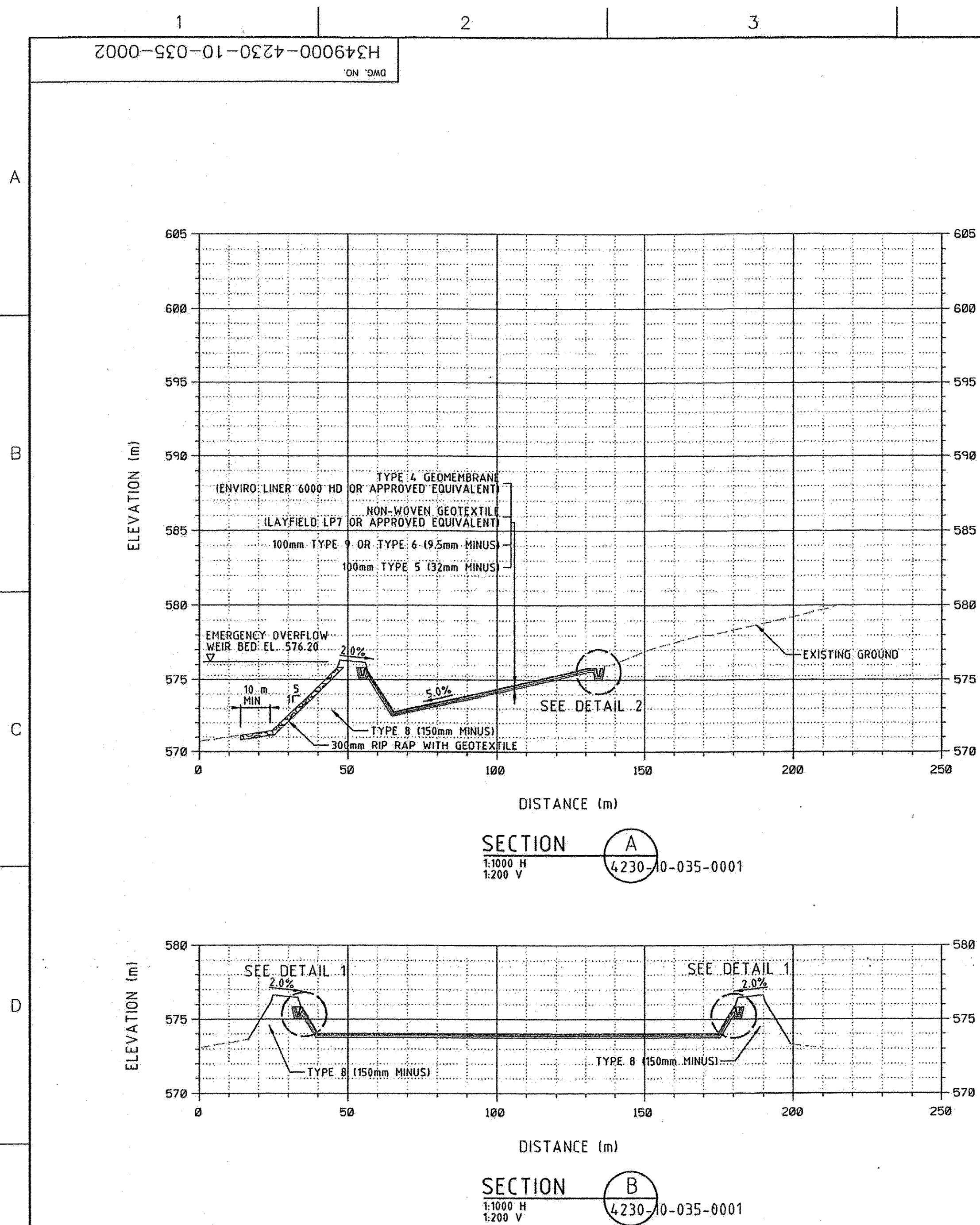
REVISIONS	NO.	DESCRIPTION	BY	CHK'D	APP'D	DATE
1	AS-BUILT		AM	LJ	MB	2017-01-23

ISSUE AUTHORIZATION	REV.	DATE	ISSUE FOR	AUTH. BY	DATE
1	AS-BUILT	2017-01-23			
0	CONSTRUCTION	2013-08-30			

DESIGNED BY	DRAWN BY
R. MANOOCHEHRI	R. MANOOCHEHRI
DATE 2013-08-26	DATE 2013-08-26
CHECKED BY	DISCIP. ENGR.
A. SAHELI	S. HASSAN
DATE 2013-08-30	DATE 2013-08-30
PROJ. DES. COORD.	PROJ. ENGR.
T. THERTELL	J. CLELAND
DATE 2013-08-30	DATE 2013-08-30
PROJ. MGR.	
S. PERRY	
DATE 2013-08-30	

SCALE	DWG. NO.	REV.
1:1000 OR AS NOTED	H349000-4230-10-035-0001	1
ORIGINAL SHEET SIZE: ISO A1 (841 x 594)		

USERS NAME \$
DATE \$
FILE \$



- NOTES:**
1. TOPOGRAPHY PROVIDED BY TERRAPOINT CANADA INC.
 2. ALL DIMENSIONS AND ELEVATIONS SHOWN ARE IN METERS UNLESS NOTED OTHERWISE.

AS BUILT

- LEGEND**
- % GRADING SLOPE
 - HWL HIGH WATER LEVEL
 - FB FREE BOARD

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Appendix C

Survey Data

CAB 160902 WRP Ditch Excavation

Point No.	Northing	Easting	Elevation	Location
1239055	7917178.513	563464.53	568.573	EXC TOE
1239058	7917132.118	563368.7183	568.673	EXC TOE
1239059	7917133.151	563368.3571	568.647	EXC TOE
1239060	7917133.376	563373.0869	568.638	EXC TOE
1239061	7917134.388	563372.831	568.645	EXC TOE
1239062	7917176.842	563475.0156	568.635	EXC TOE
1239063	7917130.658	563359.544	568.631	EXC TOE
1239064	7917131.653	563359.434	568.651	EXC TOE
1240012	7917135.882	563378.073	568.637	EXC TOE
1240013	7917134.836	563378.083	568.643	EXC TOE
1240015	7917140.46	563386.6885	568.644	EXC TOE
1240018	7917156.04	563405.863	568.63	EXC TOE
1240019	7917156.65	563405.09	568.629	EXC TOE
1240021	7917129.649	563355.028	569.118	EXC CREST
1240022	7917129.456	563357.768	569.17	EXC CREST
1240023	7917129.405	563360.643	569.233	EXC CREST
1240024	7917129.742	563363.61	569.113	EXC CREST
1240025	7917130.533	563365.366	569.054	EXC CREST
1240026	7917130.935	563368.339	569.134	EXC CREST
1240027	7917131.256	563369.192	569.057	EXC CREST
1240028	7917132.611	563353.041	568.979	EXC CREST
1240029	7917132.708	563355.215	569.143	EXC CREST
1240030	7917132.871	563357.46	569.209	EXC CREST
1240031	7917132.717	563358.712	569.132	EXC CREST
1240032	7917133.093	563361.177	569.224	EXC CREST
1240033	7917134.466	563366.625	569.429	EXC CREST
1240034	7917134.994	563368.529	569.419	EXC CREST
1240035	7917136.284	563372.267	569.53	EXC CREST
1240036	7917138.037	563377.182	569.691	EXC CREST
1240037	7917140.097	563381.713	569.85	EXC CREST
1240040	7917158.412	563408.771	568.613	EXC TOE
1240041	7917159.245	563408.303	568.635	EXC TOE
1240047	7917131.632	563373.294	569.461	EXC CREST
1240048	7917131.653	563373.294	569.458	EXC CREST
1240049	7917132.473	563376.023	569.457	EXC CREST
1240050	7917133.385	563379.453	569.538	EXC CREST
1240051	7917134.739	563381.557	569.421	EXC CREST
1240052	7917135.913	563385.623	569.608	EXC CREST
1240053	7917137.618	563388.45	569.72	EXC CREST
1240054	7917139.947	563392.277	569.949	EXC CREST
1240055	7917142.976	563395.071	569.871	EXC CREST
1240056	7917145.146	563397.894	569.963	EXC CREST
1240057	7917149.033	563401.267	569.965	EXC CREST
1240058	7917152.09	563404.747	569.96	EXC CREST
1240059	7917153.976	563407.162	570.126	EXC CREST

Baffinland Iron Mines Corporation - Mary River Project

Construction Summary Report: Mine Site Waste Rock Sedimentation Pond and Drainage Ditch - January 24, 2017

Point No.	Northing	Easting	Elevation	Location
1240060	7917155.541	563409.842	570.175	EXC CREST
1240061	7917157.677	563413.57	570.319	EXC CREST
1240062	7917160.319	563417.802	570.567	EXC CREST
1240066	7917147.121	563394.823	568.622	EXC TOE
1240067	7917153.797	563401.6178	568.634	EXC TOE
1240073	7917165.484	563418.776	568.635	EXC TOE
1240074	7917166.483	563418.197	568.643	EXC TOE
1240077	7917171.552	563426.2775	568.651	EXC TOE
1240079	7917175.241	563435.8535	568.605	EXC TOE
1240093	7917177.053	563445.4949	568.665	EXC TOE
1240096	7917177.19	563458.6374	568.816	ROCK
1240097	7917178.011	563453.7023	568.638	EXC TOE
1240098	7917178.241	563458.5274	568.62	EXC TOE
1241003	7917227.01	563806.479	568.57	TOE
1241004	7917224.918	563804.74	568.608	TOE
1241006	7917225.948	563804.342	568.577	EXC
1241007	7917221.509	563801.712	568.595	EXC
1241008	7917221.515	563801.713	568.551	EXCT
1241009	7917221.317	563800.237	568.616	EXCT
1241010	7917211.927	563789.942	569.09	EXCC
1241012	7917212.8	563795.655	568.839	EXC C
1241013	7917216.75	563799.035	568.773	EXC C
1241014	7917220.686	563802.317	568.809	EXC C
1241015	7917224.299	563806.049	568.771	EXC C
1241016	7917227.211	563809.133	568.717	EXC C
1241017	7917229.208	563811.153	568.693	EXC C
1241018	7917230.638	563811.695	568.614	EXC DL
1241019	7917230.749	563810.818	568.347	EXC DL
1241020	7917231.45	563810.842	568.512	EXC DL
1241021	7917232.023	563809.886	568.623	EXC DL
1241022	7917232.262	563808.39	568.617	EXC C
1241023	7917229.738	563805.819	568.705	EXC C
1241024	7917226.559	563803.281	568.774	EXC C
1241025	7917223.168	563799.805	568.89	EXC C
1241026	7917216.874	563797.698	568.521	EXC T
1241027	7917217.789	563797.078	568.501	EXC T
1241028	7917176.771	563617.216	569.284	NATURAL DRAIN
1241029	7917179.817	563613.179	569.281	NATURAL DRAIN
1241030	7917179.346	563610.506	569.225	NATURAL DRAIN
1241031	7917173.522	563609.968	569.268	NATURAL DRAIN
1241034	7917183.896	563769.039	568.551	EXC T
1241035	7917189.759	563773.6137	568.493	EXC T
1241036	7917193.602	563776.5841	568.479	EXC T
1241037	7917197.042	563780.012	568.493	EXC T
1241038	7917201.467	563783.9445	568.606	EXC T
1241039	7917205.867	563787.996	568.407	EXC T
1241040	7917209.685	563791.307	568.555	EXC T

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Point No.	Northing	Easting	Elevation	Location
1241041	7917214.843	563795.939	568.547	EXC T
1241042	7917213.555	563794.713	568.557	EXC T
1241043	7917208.429	563791.896	568.875	EXC C
1241044	7917205.042	563788.96	569.112	EXC C
1241045	7917200.794	563785.032	569.007	EXC C
1241046	7917195.715	563780.521	569.197	EXC C
1241047	7917192.367	563777.941	569.18	EXC C
1241048	7917188.541	563775.137	569.395	EXC C
1241049	7917182.289	563770.64	569.364	EXC C
1241050	7917178.093	563766.718	569.41	EXC C
1241051	7917179.292	563765.351	568.539	EXC T
1241052	7917163.979	563506.2257	568.659	EXC TOE
1241055	7917160.864	563500.397	571.078	EXC C
1241056	7917164.772	563491.588	570.872	EXC C
1241057	7917168.908	563493.589	568.643	EXC T
1241063	7917168.032	563482.249	570.993	EXC CREST
1241064	7917168.082	563482.273	571.002	EXC CREST
1241065	7917171.002	563472.85	571.113	EXC CREST
1241066	7917172.666	563464.674	571.12	EXC CREST
1241067	7917172.332	563455.082	571.063	EXC CREST
1241068	7917171.504	563445.634	571.094	EXC CREST
1241069	7917170.114	563437.005	571.002	EXC CREST
1241070	7917166.666	563428.993	570.676	EXC CREST
1241071	7917161.975	563420.25	570.506	EXC CREST
1241090	7917157.497	563749.009	569.453	EXC CREST
1241092	7917159.317	563747.838	568.575	EXC TOE
1241093	7917160.474	563747.394	568.501	EXC TOE
1241094	7917167.358	563755.03	568.424	EXC TOE
1241095	7917165.663	563756.589	569.399	EXC CREST
1241096	7917172.227	563759.2985	568.47	EXC TOE
1241097	7917170.395	563760.318	569.246	EXC CREST
1241104	7917148.648	563526.22	571.086	C
1241105	7917149.413	563535.439	568.613	EXC TOE
1241107	7917144.869	563533.571	571.063	EXC CREST
1241108	7917152.098	563518.801	571.118	EXC CREST
1241109	7917156.71	563509.937	571.096	EXC CREST
1242018	7917161.12	563512.1298	568.646	TOE
1242019	7917156.694	563520.9894	568.59	TOE
1242022	7917137.518	563550.494	570.755	EXC CREST
1242023	7917138.351	563558.393	568.614	EXC TOE
1242025	7917135.446	563554.735	570.865	EXC CREST
1242026	7917127.742	563572.108	570.774	EXC CREST
1242027	7917131.555	563573.431	568.537	EXC TOE
1242028	7917131.292	563564.01	570.82	EXC CREST
1242029	7917135.126	563565.9593	568.643	EXC TOE
1242030	7917126.685	563584.471	568.63	EXC TOE
1242032	7917123.137	563582.394	570.729	EXC CREST

Point No.	Northing	Easting	Elevation	Location
1242033	7917124.427	563589.297	568.589	EXC TOE
1242037	7917113.104	563603.272	570.661	EXC CREST
1242038	7917117.195	563604.242	568.627	EXC TOE
1242039	7917118.939	563591.712	570.504	EXC CREST
1242040	7917122.797	563592.903	568.553	EXC TOE
1242041	7917091.422	563640.475	569.911	FLOWH2O
1242042	7917091.593	563634.404	569.951	FLOWH2O
1242044	7917107.799	563614.926	570.379	EXC CREST
1242046	7917110.395	563609.903	570.297	EXC CREST
1242047	7917113.948	563611.383	568.543	EXC TOE
1242048	7917114.203	563600.389	570.632	EXC CREST
1242049	7917118.327	563602.321	568.638	EXC TOE
1242050	7917104.844	563701.759	568.618	EXC TOE
1242053	7917150.401	563740.4325	568.651	EXC TOE
1242054	7917145.863	563736.5723	568.608	EXC TOE
1242055	7917137.23	563729.306	568.651	EXC TOE
1242056	7917129.77	563723.393	568.635	EXC TOE
1242057	7917122.76	563715.5252	568.686	EXC TOE
1242058	7917121.996	563716.867	568.609	EXC TOE
1242059	7917114.582	563710.286	568.633	EXC TOE
1242060	7917080.63	563680.0566	569.188	EXC CREST
1242064	7917102.26	563633.27	568.464	EXC TOE
1242066	7917087.982	563687.683	568.658	EXC TOE
1242067	7917085.918	563689.337	570.121	EXC CREST
1242068	7917092.217	563695.544	570.27	EXC CREST
1242069	7917094.175	563692.9526	568.5501	TOE
1242070	7917099.167	563697.3553	568.625	TOE
1242071	7917098.4	563700.951	570.235	EXC CREST
1242072	7917103.133	563704.304	570.174	EXC CREST
1242073	7917111.829	563712.3	570.246	EXC CREST
1242074	7917120.598	563718.878	569.886	EXC CREST
1242075	7917128.053	563725.045	569.917	EXC CREST
1242076	7917135.629	563731.135	569.738	EXC CREST
1242143	7917083.038	563673.78	568.523	EXC TOE
1242144	7917080.381	563672.543	570.253	EXC CREST
1242146	7917084.574	563683.776	568.585	EXC TOE
1243027	7917174.782	563438.8383	568.415	EXC TOE
2243001	7917093.444	563645.722	570.057	EXC CREST
2243002	7917095.922	563646.879	568.621	EXC TOE
2243003	7917091.347	563656.062	568.617	EXC TOE
2243004	7917088.355	563654.517	570.396	EXC CREST
2243005	7917083.775	563663.534	570.476	EXC CREST
2243007	7917087.313	563664.832	568.577	EXC TOE
2243008	7917082.48	563679.835	568.555	EXC TOE
2243009	7917081.923	563685.682	570.105	EXC CREST
2243010	7917100.027	563637.7674	568.529	
2243011	7917100.078	563637.7919	568.529	EXC TOE

Point No.	Northing	Easting	Elevation	Location
2243012	7917097.363	563635.842	569.856	EXC CREST
2243013	7917101.289	563627.395	570.221	EXC CREST
2243014	7917104.47	563628.9132	568.487	EXC TOE
2243015	7917105.476	563617.786	570.462	EXC CREST
2243016	7917109.057	563620.1936	568.486	EXC TOE
2243017	7917143.576	563548.054	568.651	EXC TOE
2243018	7917139.81	563546.197	570.844	EXC CREST
2243019	7917147.842	563538.862	568.636	EXC TOE
2243020	7917143.547	563536.539	571.058	EXC CREST
2243021	7917152.326	563529.933	568.622	EXC TOE
2243022	7917147.911	563527.738	570.947	EXC CREST
2243023	7917165.279	563503.1224	568.61	EXC TOE
2243024	7917175.707	563474.828	568.671	EXC TOE
2243025	7917177.51	563465.1597	568.681	EXC TOE
2243026	7917176.03	563445.4244	568.653	EXC TOE
2243027	7917177.064	563455.4105	568.667	EXC TOE
2243028	7917174.044	563435.887	568.665	EXC TOE
2243029	7917170.546	563426.8057	568.627	EXC TOE
2243032	7917153.039	563402.574	568.612	EXC TOE
2243033	7917146.08	563395.684	568.649	EXC TOE
2243034	7917139.434	563387.567	568.657	EXC TOE
2243035	7917143.021	563384.766	569.834	EXC CREST
2243036	7917150.376	563391.57	569.851	EXC CREST
2243037	7917157.251	563398.047	569.759	EXC CREST
2243038	7917164.735	563406.145	570.23	EXC CREST
2243039	7917171.137	563414.033	570.648	EXC CREST
2243040	7917176.972	563423.11	570.827	EXC CREST
2243041	7917181.475	563432.992	571.063	EXC CREST
2243042	7917185.237	563444.332	571.344	EXC CREST
2243043	7917186.67	563454.605	571.466	EXC CREST
2243044	7917186.68	563465.669	571.342	EXC CREST
2243045	7917183.851	563477.702	571.231	EXC CREST
2243046	7917180.116	563487.814	571.131	EXC CREST
2243047	7917176.084	563496.814	570.945	EXC CREST
2243048	7917172.269	563505.759	570.759	EXC CREST
2243049	7917167.976	563515.045	570.811	EXC CREST
2243050	7917163.283	563524.048	570.946	EXC CREST
2243051	7917158.953	563533.181	570.906	EXC CREST
2243052	7917154.519	563542.122	570.865	EXC CREST
2243053	7917150.577	563550.942	570.851	EXC CREST
2243054	7917146.726	563560.009	570.853	EXC CREST
2243055	7917141.757	563568.695	570.856	EXC CREST
2243056	7917137.576	563577.979	570.786	EXC CREST
2243057	7917133.478	563587.144	570.699	EXC CREST
2243058	7917128.647	563596.158	570.727	EXC CREST
2243059	7917124.78	563605.003	570.878	EXC CREST
2243060	7917119.58	563614.42	570.529	EXC CREST

Point No.	Northing	Easting	Elevation	Location
2243061	7917114.409	563622.669	570.174	EXC CREST
2243062	7917109.962	563631.881	570.04	EXC CREST
2243063	7917106.192	563641.113	570.279	EXC CREST
2243064	7917102.055	563649.858	570.598	EXC CREST
2243065	7917097.669	563658.926	570.709	EXC CREST
2243066	7917093.893	563667.569	570.986	EXC CREST
2243067	7917089.228	563676.788	570.589	EXC CREST
2243068	7917089.592	563679.146	570.534	EXC CREST
2243069	7917096.023	563686.035	570.704	EXC CREST
2243070	7917103.631	563692.023	570.659	EXC CREST
2243071	7917110.727	563698.972	570.624	EXC CREST
2243072	7917118.551	563705.329	570.705	EXC CREST
2243073	7917125.841	563712.471	570.476	EXC CREST
2243074	7917133.234	563719.34	570.371	EXC CREST
2243075	7917140.426	563726.086	569.856	EXC CREST
2243076	7917148.395	563732.157	569.953	EXC CREST
2243077	7917155.442	563738.566	569.66	EXC CREST
2243200	7917215.583	563795.1244	568.54691	EXC TOE
2243201	7917214.298	563793.9014	568.55704	EXC TOE
2243202	7917210.409	563790.4786	568.555	EXC TOE
2243203	7917206.585	563787.1628	568.407	EXC TOE
2243204	7917202.219	563783.1107	568.61	EXC TOE
2243205	7917197.759	563779.1755	568.5271	EXC TOE
2243206	7917194.248	563775.6902	568.53	EXC TOE
2243207	7917190.552	563772.671	568.551	EXC TOE
2243208	7917184.602	563768.195	568.55112	EXC TOE
2243209	7917180.179	563764.2868	568.582	EXC TOE
2243210	7917172.994	563758.2831	568.498	EXC TOE
2243211	7917168.116	563754.2326	568.44162	EXC TOE
2243212	7917160.037	563747.0065	568.51498	EXC TOE
2243213	7917138.022	563728.3075	568.618	EXC TOE
2243214	7917130.569	563722.3344	568.614	EXC TOE
2243215	7917115.615	563708.9966	568.655	EXC TOE
2243216	7917105.659	563700.6433	568.635	EXC TOE
2243217	7917099.983	563695.8842	568.632	EXC TOE
2243218	7917095.076	563691.7503	568.642	EXC TOE
2243219	7917088.772	563686.9148	568.63719	EXC TOE
2243220	7917085.614	563683.2946	568.59591	EXC TOE
2243221	7917083.74	563679.5925	568.576	EXC TOE
2243222	7917084.211	563674.0108	568.55495	EXC TOE
2243223	7917088.311	563665.2955	568.563	EXC TOE
2243224	7917092.842	563656.9148	568.541	EXC TOE
2243225	7917097.39	563647.3653	568.598	EXC TOE
2243226	7917101.469	563638.497	568.575	EXC TOE
2243227	7917105.623	563629.853	568.499	EXC TOE
2243228	7917110.38	563621.0612	568.544	EXC TOE
2243229	7917115.425	563612.1622	568.591	EXC TOE

Point No.	Northing	Easting	Elevation	Location
2243230	7917119.711	563603.2661	568.587	EXC TOE
2243231	7917125.656	563589.9205	568.615	EXC TOE
2243232	7917127.614	563585.076	568.596	EXC TOE
2243233	7917132.46	563573.8629	568.625	EXC TOE
2243234	7917139.569	563559.3902	568.634	EXC TOE
2243235	7917144.57	563548.5252	568.622	EXC TOE
2243236	7917148.833	563539.3405	568.605	EXC TOE
2243237	7917153.482	563530.6792	568.598	EXC TOE
2243238	7917157.874	563521.7302	568.578	EXC TOE
2243239	7917162.387	563512.7456	568.617	EXC TOE
2243240	7917165.104	563506.658	568.596	EXC TOE
2243241	7917166.532	563503.4417	568.577	EXC TOE
2243242	7917169.848	563494.1863	568.617	EXC TOE
2244001	7917129.307	563347.79	569.146	EXC CREST
2244002	7917130.061	563347.655	568.637	EXC TOE
2244003	7917131.316	563347.996	568.624	EXC CL
2244004	7917132.021	563347.893	568.649	EXC TOE
2244005	7917132.876	563348	568.976	EXC CREST
2244006	7917132.228	563338.768	569.063	EXC CREST
2244007	7917132.554	563338.645	568.606	EXC TOE
2244008	7917133.737	563338.8	568.647	EXC CL
2244009	7917134.641	563339.045	568.713	EXC TOE
2244010	7917135.659	563339.17	569.003	EXC CREST
2244011	7917135.159	563329.211	568.987	EXC CREST
2244012	7917135.569	563329.35	568.666	EXC TOE
2244013	7917136.378	563329.431	568.659	EXC CL
2244014	7917137.173	563329.733	568.625	EXC TOE
2244015	7917137.98	563329.907	568.921	EXC CREST
2244016	7917138.826	563320.152	568.607	EXC CL
2244017	7917139.371	563320.213	568.622	EXC TOE
2244018	7917140.372	563320.476	568.953	EXC CREST
2244019	7917137.8	563319.83	568.671	EXC TOE
2244020	7917136.762	563319.381	569.006	EXC CREST
2244021	7917141.889	563310.581	568.69	EXC CL
2244022	7917142.435	563310.775	568.65	EXC TOE
2244023	7917143.565	563311.1	569.06	EXC CREST
2244024	7917141.24	563310.443	568.643	EXC TOE
2244025	7917140.544	563310.334	569.033	EXC CREST
2244027	7917145.117	563301.136	568.462	EXC CL
2244028	7917145.648	563301.341	568.555	EXC TOE
2244029	7917146.655	563301.579	568.793	EXC CREST
2244030	7917143.26	563300.901	568.919	EXC CREST
2244031	7917144.508	563301.178	568.608	EXC TOE
2244032	7917147.182	563291.489	568.545	EXC CL
2244033	7917147.819	563291.448	568.526	EXC TOE
2244034	7917148.877	563291.594	568.946	EXC CREST
2244035	7917146.466	563291.094	568.553	EXC TOE

Point No.	Northing	Easting	Elevation	Location
2244036	7917145.894	563290.974	568.879	EXC CREST
2244037	7917149.368	563281.736	568.535	EXC CL
2244038	7917149.998	563281.875	568.569	EXC TOE
2244039	7917151.062	563282.135	568.845	EXC CREST
2244040	7917148.956	563281.692	568.572	EXC TOE
2244041	7917148.189	563281.607	568.974	EXC CREST
2244042	7917151.749	563271.859	568.606	EXC CL
2244043	7917152.264	563272.048	568.601	EXC TOE
2244044	7917153.28	563272.099	568.921	EXC CREST
2244045	7917150.951	563271.641	568.613	EXC TOE
2244046	7917150.414	563271.409	568.892	EXC CREST
2244047	7917154.149	563262.221	568.514	EXC CL
2244048	7917154.645	563262.274	568.505	EXC TOE
2244049	7917155.767	563262.209	568.86	EXC CREST
2244050	7917153.341	563262.014	568.538	EXC TOE
2244051	7917152.735	563262.033	568.884	EXC CREST
2244052	7917155.534	563252.501	568.631	EXC CL
2244053	7917155.914	563252.484	568.636	EXC TOE
2244054	7917156.723	563252.428	568.863	EXC CREST
2244055	7917154.86	563252.21	568.665	EXC TOE
2244056	7917153.943	563252.198	568.965	EXC CREST
2244057	7917156.125	563242.215	568.667	EXC TOE
2244058	7917157.23	563242.572	568.706	EXC TOE
2244059	7917156.755	563242.412	568.671	EXC CL
2244060	7917154.915	563242.088	569.068	EXC CREST
2244061	7917158.33	563242.429	569.103	EXC CREST
2244062	7917157.936	563232.588	568.599	EXC TOE
2244063	7917159.039	563232.767	568.672	EXC TOE
2244064	7917160.677	563233.019	569.16	EXC CREST
2244065	7917156.315	563232.382	569.284	EXC CREST
2244066	7917158.471	563232.792	568.684	EXC CL
2244067	7917160.759	563223.141	568.634	EXC TOE
2244068	7917161.891	563223.261	568.668	EXC TOE
2244069	7917163.257	563223.594	569.336	EXC CREST
2244070	7917161.332	563223.127	568.644	EXC CL
2244071	7917158.318	563222.619	569.895	EXC CREST
2244072	7917164.121	563213.479	568.78	EXC TOE
2244073	7917163.229	563213.316	568.803	EXC TOE
2244074	7917163.767	563213.45	568.768	EXC CL
2244075	7917165.804	563214.043	569.565	EXC CREST
2244076	7917160.253	563212.738	570.049	EXC CREST
2244077	7917165.468	563203.624	568.828	EXC CL
2244078	7917164.517	563203.636	568.848	EXC TOE
2244079	7917165.86	563203.616	568.828	EXC TOE
2244080	7917167.871	563203.964	569.704	EXC CREST
2244081	7917161.418	563202.867	570.173	EXC CREST
2244082	7917162.433	563193.358	570.103	EXC CREST

Point No.	Northing	Easting	Elevation	Location
2244083	7917165.372	563193.54	568.771	EXC TOE
2244084	7917166.867	563193.615	568.843	EXC TOE
2244085	7917166.436	563193.634	568.77	EXC CL
2244086	7917168.877	563193.857	569.587	EXC CREST
2244087	7917168.872	563183.411	569.61	EXC CREST
2244088	7917166.98	563183.6	568.875	EXC TOE
2244089	7917165.544	563183.81	568.88	EXC TOE
2244090	7917166.422	563183.662	568.791	EXC CL
2244091	7917163.42	563184.004	569.999	EXC CREST
2244092	7917162.165	563174.211	569.851	EXC CREST
2244093	7917164.214	563173.926	568.906	EXC TOE
2244094	7917165.694	563173.662	569.043	EXC TOE
2244095	7917165.17	563173.766	568.9	EXC CL
2244096	7917166.817	563173.504	569.492	EXC CREST
2244097	7917164.53	563163.476	569.722	EXC CREST
2244098	7917162.768	563164	568.818	EXC TOE
2244099	7917161.55	563164.506	568.793	EXC TOE
2244100	7917162.239	563164.394	568.678	EXC CL
2244101	7917158.918	563165.309	570.019	EXC CREST
2244102	7917154.845	563157.21	570.384	EXC CREST
2244103	7917157.392	563155.813	568.967	EXC TOE
2244104	7917158.851	563154.876	568.945	EXC TOE
2244105	7917158.507	563155.119	568.839	EXC CL
2244106	7917160.709	563153.599	569.89	EXC CREST
2245002	7916864.019	562895.289	570.934	EXC CREST
2245004	7916863.412	562896.9	570.208	EXC TOE
2245006	7916862.639	562897.933	570.06	EXC CL
2245007	7916861.709	562898.504	570.093	EXC TOE
2245008	7916861.122	562899.439	570.67	EXC CREST
2245009	7916868.235	562906.229	570.856	EXC CREST
2245010	7916869.537	562904.758	570.131	EXC TOE
2245011	7916870.431	562903.507	570.181	EXC CL
2245012	7916870.86	562902.485	570.225	EXC TOE
2245013	7916873.157	562900.042	570.941	EXC CREST
2245014	7916880.902	562904.449	570.807	EXC CREST
2245015	7916880.917	562904.451	570.812	EXC CREST
2245016	7916879.938	562906.763	570.249	EXC TOE
2245017	7916879.373	562908.015	570.158	EXC
2245018	7916878.959	562908.787	570.188	EXC CL
2245019	7916878.112	562910.057	570.164	EXC TOE
2245020	7916877.642	562911.734	570.696	EXC CREST
2245021	7916886.405	562916.745	570.832	EXC CREST
2245022	7916887.115	562914.699	570.202	EXC
2245023	7916887.611	562913.664	570.081	EXC CL
2245024	7916888.25	562913.074	570.189	EXC CL
2245025	7916888.26	562913.067	570.189	EXC TOE
2245026	7916889.382	562910.321	570.742	EXC CREST

Point No.	Northing	Easting	Elevation	Location
2245027	7916897.83	562913.631	570.781	EXC CREST
2245028	7916897.09	562915.901	570.075	EXC TOE
2245029	7916896.95	562917.176	570.055	EXC CL
2245030	7916896.618	562917.567	569.847	EXC TOE
2245031	7916896.273	562918.687	570.3	EXC
2245032	7916896.08	562920.627	570.878	EXC CREST
2245033	7916907.204	562925	571.148	EXC CREST
2245034	7916908.784	562922.256	570.051	EXC
2245035	7916909.216	562920.946	570.007	EXC CL
2245036	7916909.881	562919.975	570.051	EXC TOE
2245037	7916909.847	562919.936	570.056	EXC TOE
2245038	7916909.86	562918.334	570.597	EXC CREST
2245040	7916918.278	562920.024	570.62	EXC CREST
2245041	7916917.551	562922.103	569.992	EXC TOE
2245042	7916917.122	562923.118	569.98	EXC CL
2245043	7916916.671	562924.213	569.986	EXC TOE
2245044	7916916.175	562926.737	570.826	EXC CREST
2245045	7916925.566	562929.335	570.833	EXC CREST
2245046	7916926.539	562927.275	569.959	EXC TOE
2245047	7916926.854	562926.929	569.928	EXC CL
2245048	7916927.416	562926.163	570.041	EXC TOE
2245049	7916927.789	562924.304	570.352	EXC CREST
2245050	7916937.832	562926.047	570.75	EXC CREST
2245051	7916937.747	562928.909	569.923	EXC TOE
2245052	7916937.386	562929.294	569.924	EXC CL
2245053	7916937.207	562930.047	569.972	EXC TOE
2245054	7916935.963	562932.575	570.881	EXC CREST
2245055	7916943.305	562933.893	570.59	EXC CREST
2245056	7916942.68	562935.122	570.917	OG CREST
2245059	7916944.279	562932.142	569.889	EXC TOE
2245060	7916944.44	562931.632	569.882	EXC CL
2245061	7916944.75	562931.085	569.914	EXC TOE
2245062	7916946.058	562929.044	570.562	EXC CREST
2245063	7916955.154	562932.464	570.222	EXC CREST
2245064	7916954.61	562934.194	569.855	EXC TOE
2245065	7916954.363	562934.679	569.809	EXC CL
2245066	7916954.139	562935.586	569.827	EXC TOE
2245067	7916953.495	562937.367	570.296	EXC CREST
2245068	7916953.289	562938.389	570.72	OG CREST
2245069	7916963.388	562940.968	570.513	EXC CREST
2245070	7916963.782	562939.537	570.224	EXC CREST
2245071	7916964.632	562938.173	569.803	EXC TOE
2245072	7916964.759	562937.693	569.794	EXC CL
2245073	7916965.054	562937.276	569.883	EXC TOE
2245074	7916966.287	562934.86	570.463	EXC CREST
2245075	7916970.324	562936.778	570.372	EXC CREST
2245076	7916969.164	562939.123	569.701	EXC TOE

Baffinland Iron Mines Corporation - Mary River Project

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Point No.	Northing	Easting	Elevation	Location
2245077	7916969.107	562939.492	569.728	EXC CL
2245078	7916968.924	562940.151	569.795	EXC TOE
2245079	7916968.064	562941.35	570.183	EXC CREST
2245080	7916967.792	562942.612	570.538	OG CREST
2245081	7916982.107	562946.869	570.216	EXC CREST
2245082	7916982.918	562944.934	569.647	EXC TOE
2245083	7916983.216	562944.487	569.64	EXC CL
2245084	7916983.765	562943.799	569.65	EXC TOE
2245085	7916984.888	562941.88	569.917	EXC CREST
2245086	7916993.104	562946.472	569.962	EXC CREST
2245087	7916992.8	562947.226	569.687	EXC TOE
2245088	7916992.566	562947.829	569.696	EXC CL
2245089	7916992.411	562948.707	569.679	EXC TOE
2245090	7916991.946	562949.687	569.954	EXC CREST
2245091	7917000.543	562953.689	569.919	EXC CREST
2245092	7917001.385	562952.368	569.617	EXC TOE
2245093	7917001.587	562951.765	569.67	EXC CL
2245094	7917001.661	562951.403	569.66	EXC TOE
2245095	7917002.196	562950.382	569.879	EXC CREST
2245096	7917010.941	562954.997	569.857	EXC CREST
2245097	7917010.071	562956.178	569.55	EXC TOE
2245098	7917009.909	562956.708	569.562	EXC CL
2245099	7917009.37	562957.597	569.552	EXC TOE
2245100	7917008.368	562958.702	569.82	EXC CREST
2245101	7917017.111	562964.533	569.971	EXC CREST
2245102	7917018.142	562963.442	569.518	EXC TOE
2245103	7917018.555	562962.938	569.516	EXC CL
2245104	7917018.996	562962.482	569.567	EXC TOE
2245105	7917019.897	562961.052	569.911	EXC CREST
2245106	7917027.979	562966.078	569.918	EXC CREST
2245107	7917026.775	562967.54	569.569	EXC TOE
2245108	7917026.062	562968.395	569.545	EXC CL
2245109	7917025.498	562968.987	569.523	EXC TOE
2245110	7917024.879	562970.02	569.909	EXC CREST
2245111	7917032.534	562976.248	570.115	EXC CREST
2245112	7917031.099	562977.447	570.555	OG CREST
2245113	7917036.48	562985.926	571.219	OG CREST
2245114	7917038.137	562984.835	570.774	EXC CREST
2245115	7917044.058	562992.945	570.879	EXC CREST
2245116	7917042.569	562994.11	571.556	OG CREST
2245117	7917047.053	563002.374	571.675	OG CREST
2245118	7917049.014	563001.186	570.958	EXC CREST
2245119	7917054.67	563008.335	570.306	EXC CREST
2245120	7917051.869	563009.77	571.433	OG CREST
2245121	7917057.663	563018.589	570.511	OG CREST
2245122	7917060.985	563016.632	569.796	EXC CREST
2245123	7917066.894	563024.489	569.661	EXC CREST

Point No.	Northing	Easting	Elevation	Location
2245124	7917064.28	563026.145	570.221	OG CREST
2245125	7917072.253	563033.092	569.726	EXC CREST
2245126	7917070.961	563034.049	569.996	OG CREST
2245127	7917072.369	563031.437	569.302	EXC TOE
2245128	7917075.314	563030.759	569.939	EXC CREST
2245129	7917069.85	563022.445	569.806	EXC CREST
2245130	7917064.795	563013.614	569.905	EXC CREST
2245131	7917059.865	563005.213	570.094	EXC CREST
2245132	7917054.52	562996.74	570.29	EXC CREST
2245133	7917048.424	562988.304	570.229	EXC CREST
2245134	7917042.666	562980.256	570.311	EXC CREST
2245135	7917035.769	562972.396	570.053	EXC CREST
2245136	7917034.532	562973.661	569.551	EXC TOE
2245137	7917033.746	562974.369	569.504	EXC CL
2245138	7917032.935	562974.852	569.506	EXC TOE
2245139	7917039.663	562982.775	569.612	EXC TOE
2245140	7917040.414	562982.525	569.51	EXC CL
2245141	7917041.099	562981.712	569.532	EXC TOE
2245142	7917047.031	562990.132	569.532	EXC TOE
2245143	7917046.135	562990.638	569.53	EXC CL
2245144	7917045.394	562991.235	569.558	EXC TOE
3245588	7917153.384	563146.222	568.837	EXC TOE
3245589	7917152.598	563146.87	568.977	EXC TOE
3245590	7917152.921	563146.536	568.948	EXC CL
3245591	7917149.533	563148.909	570.296	EXC CREST
3245592	7917156.186	563144.05	570.138	EXC CREST
3245593	7917151.136	563136.416	569.852	EXC CREST
3245594	7917147.985	563138.397	568.602	EXC TOE
3245595	7917147.237	563138.797	568.718	EXC TOE
3245596	7917147.638	563138.645	568.698	EXC CL
3245597	7917144.43	563140.468	570.058	EXC CREST
3245598	7917139.543	563131.63	569.75	EXC CREST
3245599	7917141.541	563130.412	568.857	EXC TOE
3245600	7917142.582	563129.955	568.88	EXC TOE
3245601	7917142.113	563130.192	568.703	EXC CL
3245602	7917144.634	563128.196	569.756	EXC CREST
3245603	7917138.254	563119.997	569.549	EXC CREST
3245604	7917136.979	563121.114	569.167	EXC TOE
3245605	7917136.207	563121.6	569.061	EXC TOE
3245606	7917136.592	563121.218	569.112	EXC CL
3245607	7917134.197	563122.833	569.463	EXC CREST
3245608	7917128.465	563114.046	569.495	EXC CREST
3245609	7917130.518	563113.009	568.929	EXC TOE
3245610	7917131.388	563112.468	569.06	EXC TOE
3245611	7917130.965	563112.779	569.078	EXC CL
3245612	7917133.086	563111.552	569.359	EXC CREST
3245613	7917127.461	563103.301	569.447	EXC CREST

Point No.	Northing	Easting	Elevation	Location
3245614	7917126.319	563104.032	569.09	EXC TOE
3245615	7917125.298	563104.581	569.082	EXC TOE
3245616	7917125.72	563104.38	569.061	EXC CL
3245617	7917123.942	563105.413	569.597	EXC CREST
3245618	7917118.323	563097.515	569.591	EXC CREST
3245619	7917119.513	563096.994	569.144	EXC TOE
3245620	7917120.48	563096.395	569.222	EXC TOE
3245621	7917119.962	563096.688	569.152	EXC CL
3245622	7917121.806	563095.58	569.453	EXC CREST
3245623	7917116.569	563087.787	569.738	EXC CREST
3245624	7917114.821	563088.877	569.21	EXC TOE
3245625	7917113.778	563089.509	569.096	EXC TOE
3245626	7917114.244	563089.232	569.136	EXC CL
3245627	7917112.292	563090.279	569.752	EXC CREST
3245628	7917106.383	563082.875	570.042	EXC CREST
3245629	7917108.28	563080.981	569.112	EXC TOE
3245630	7917109.335	563080.203	569.309	EXC TOE
3245631	7917108.889	563080.773	569.279	EXC TOE
3245632	7917111.206	563079.018	570.107	EXC CREST
3245633	7917105.079	563070.448	570.276	EXC CREST
3245634	7917103.54	563071.742	569.267	EXC TOE
3245635	7917102.12	563072.801	569.183	EXC TOE
3245636	7917102.573	563072.329	569.246	EXC CL
3245637	7917099.948	563074.057	570.075	EXC CREST
3245638	7917093.561	563066.853	570.339	EXC CREST
3245639	7917096.049	563064.756	568.995	EXC TOE
3245640	7917097.074	563064.117	568.907	EXC TOE
3245641	7917096.806	563064.428	568.878	EXC CL
3245642	7917099.948	563062.803	570.291	EXC CREST
3245643	7917091.499	563056.076	569.019	EXC TOE
3245644	7917090.287	563057.009	569.036	EXC TOE
3245645	7917090.69	563056.517	569.04	EXC CL
3245646	7917088.336	563057.848	569.895	EXC CREST
3245647	7917093.516	563053.366	570.043	EXC CREST
3245648	7917087.153	563047.132	569.921	EXC CREST
3245649	7917085.196	563048.263	569.165	EXC CL
3245650	7917085.645	563047.694	569.189	EXC TOE
3245651	7917084.467	563048.482	569.133	EXC TOE
3245652	7917082.893	563049.631	569.757	EXC CREST
3245653	7917081.129	563039.027	569.75	EXC CREST
3245654	7917080.017	563039.899	569.294	EXC TOE
3245655	7917078.821	563041.066	569.214	EXC TOE
3245656	7917079.359	563040.391	569.093	EXC CL
3245657	7917077.051	563041.899	569.82	EXC CREST
3245658	7917073.687	563032.052	569.28	EXC TOE
3245659	7917073.237	563032.194	569.275	EXC TOE
3245660	7917074.362	563031.589	569.242	EXC TOE

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Point No.	Northing	Easting	Elevation	Location
3245661	7917068.998	563023.048	569.561	EXC TOE
3245662	7917067.785	563023.712	569.307	EXC TOE
3245663	7917068.228	563023.292	569.281	EXC CL
3245664	7917063.212	563015.077	569.399	EXC CL
3245665	7917062.637	563015.623	569.461	EXC TOE
3245666	7917063.548	563014.791	569.444	EXC TOE
3245667	7917057.987	563006.473	569.4	EXC TOE
3245668	7917056.832	563007.183	569.359	EXC TOE
3245669	7917057.226	563006.819	569.23	EXC CL
3245670	7917052.548	562998.049	569.541	EXC TOE
3245671	7917051.192	562999.015	569.417	EXC TOE
3245672	7917051.57	562998.498	569.203	EXC CL