Baffinland Iron Mines Corporation
Mary River Project

Construction Summary Report: Milne Port Landfarm Package

PERMIT TO PRACTICE
HATCH LTD.
Signature
Date 18 DEC 14
PERMIT NUMBER: P 512
The Association of Professional Engineers, Geologists and Geophysicists of NWT/NU

REGISTERED PROFESSIONAL ENGINEER
M. J. BUYKX
LICENSEE
12 DEC 14
NT/NU

2014-12-08	0	Approved for Use	S. Hess	S. Ranger	J. Cleland	D. Matthews
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 Milne Port landfarm package includes the landfarm containment area and the contaminated snow containment area constructed south of the accommodation camp, near the Milne Inlet Quarry (Q1). The landfarm containment area was constructed to store/remediate the petroleum hydrocarbon (PHC) contaminated sand/gravel materials removed from the old bulk fuel bladder farm during decommissioning, and for storage of contaminated soils during continuing mining operations. This remediation occurs through volatilization and natural biological processes. The contaminated snow containment area was constructed as a storage location for contaminated snow removed from the tank farm's berm containment areas and subsequent snow contaminated during mine operations. The landfarm containment area grade slopes towards the sump in the southwest corner to facilitate draining of the soil material.

The design basis for the landfarm containment area water capacity is 3,383m3 with 0.3m of design freeboard. The design basis for the contaminated snow containment area water capacity storage is 929m3 with 0.3m of design freeboard.

1.2 Location and Base Elevations

The landfarm package is located between northing N7975467 and N7975599 and easting E503696 and E503898. The low point in the landfarm sump is at EL. 50.5m. The landfarm containment area berm elevation is EL. 53.0m near the sump. The low point in the contaminated snow containment area is EL. 54.0m. The contaminated snow containment area berm elevation is EL. 56.0m.

1.3 Geometry and Access

The landfarm and contaminated snow containment has been constructed as primarily rectangular in shape to optimize the earthworks materials (granular fills and liner installation). The berms have side slopes not steeper than 2H:1V and a 1.0m wide horizontal liner length for appropriate liner anchoring in the outer berm. Access to the landfarm package is from the old Tote Road just north of the Q1 quarry site to the south side. The access road contains a 500mm diameter culvert crossing over a seasonal drainage that is not fish habitat.

1.4 Earthworks Materials Details

The landfarm package was constructed using raised earthworks. All earth fill materials used during construction were compacted during above-freezing summer temperatures to achieve the design compaction required. Both the soil containment and the snow containment compartments were sealed with HDPE liner material for storage of the runoff/seepage, and covered with a layer of fill material. Trucks deposit contaminated soils and snow inside each compartment by driving inside the appropriate area and dumping into the surface gravels as called for in the design.

2. Construction Activity Summary

Construction activities on the landfarm package started in January 2014. The structure was in-use September 2014. As of the data collection cut-off date for this report (October 5, 2014) a portion of cover was required for installation on a small section of the landfarm dyke to complete construction of the system as designed. This minor work on the dyke is scheduled for completion by March 2015.

The following summarizes the construction activities:

a. Crushed blast rock and fill material was quarried, crushed, screened, and hauled from the nearby Milne Inlet Quarry (Q1) crusher site for use in the earthworks. All earth fill used during construction was crushed and screened to meet the design soil gradations.

b. Areas were cleared and graded to prepare the sub-base for the containment area

c. Constructed the access road with culvert crossing

d. Constructed the pad and berms

e. Installed fill material layers

f. Installed non-woven geotextile

g. Installed liner

h. Installed second layer of non-woven geotextile

i. Installed fill material finish layer and ramp inside each compartment for truck access.

2.1 Quality Assurance/Quality Control

The quality assurance and quality control (QA/QC) was conducted by Layfield, including documents accepting the preparation of the subgrade, installation and testing of the membrane with a final inspection of the completed liner. See Appendix A for the following:

a. A certificate of acceptance of the soil subgrade for installation of the liner was verified and signed by the Hatch project coordinator and Layfield Environmental supervisor.

b. A geomembrane deployment log describes the location, size, temperature when placed, visually observed and initialled that the panel had been checked.

c. A geomembrane trial seam log tested the welding before the entire installation proceeded.

d. An air lance test log had been completed for each seam.

e. Layout drawings show all of the panel numbers, as described in the log documents.

f. A certificate of final inspection and acceptance was signed by Layfield and Hatch representatives.

3. Photographic Records

Figure 1: Pre-construction of the landfarm package (Q1 shown in foreground) [northwest view].

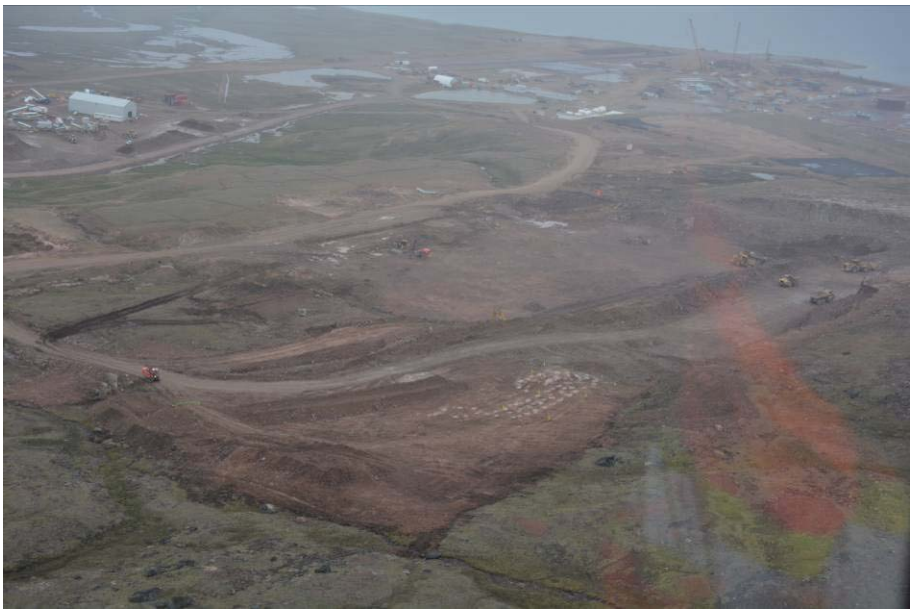

Figure 2: Landfarm package earthworks in-progress, preparing sub-base [northwest view].

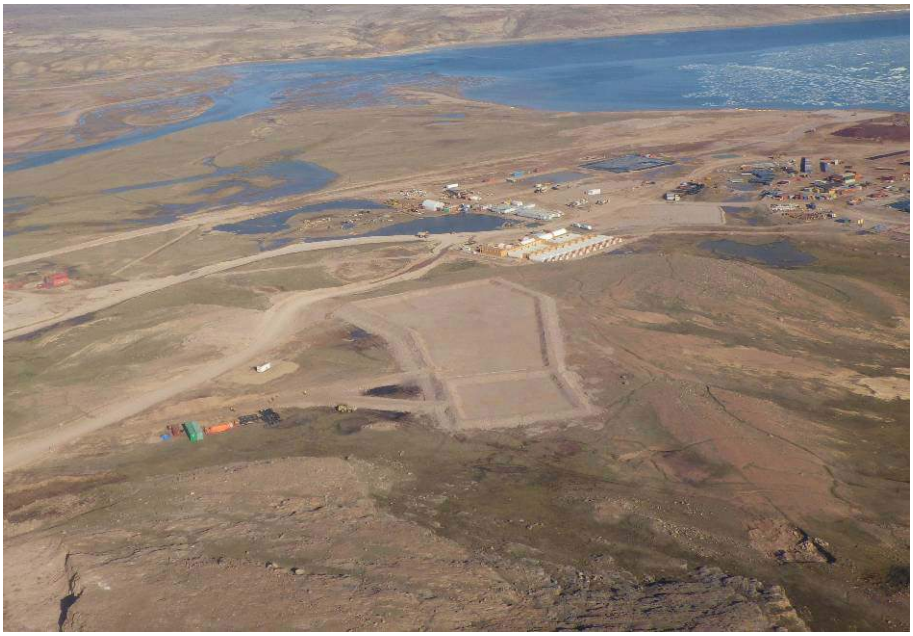

Figure 3: Landfarm package earthworks complete, pre-liner installation [northwest view].

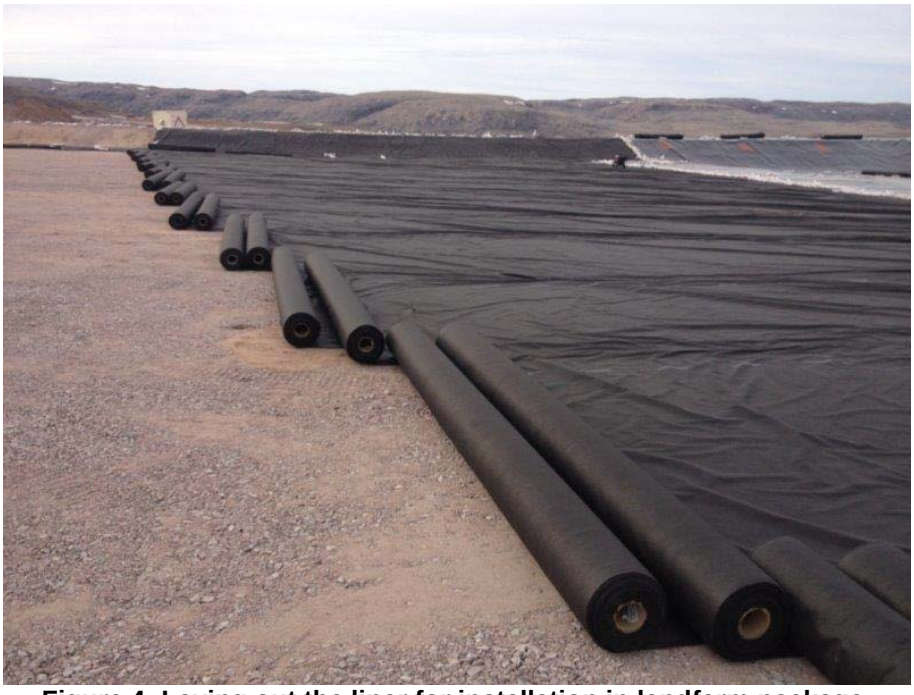

Figure 4: Laying out the liner for installation in landfarm package.

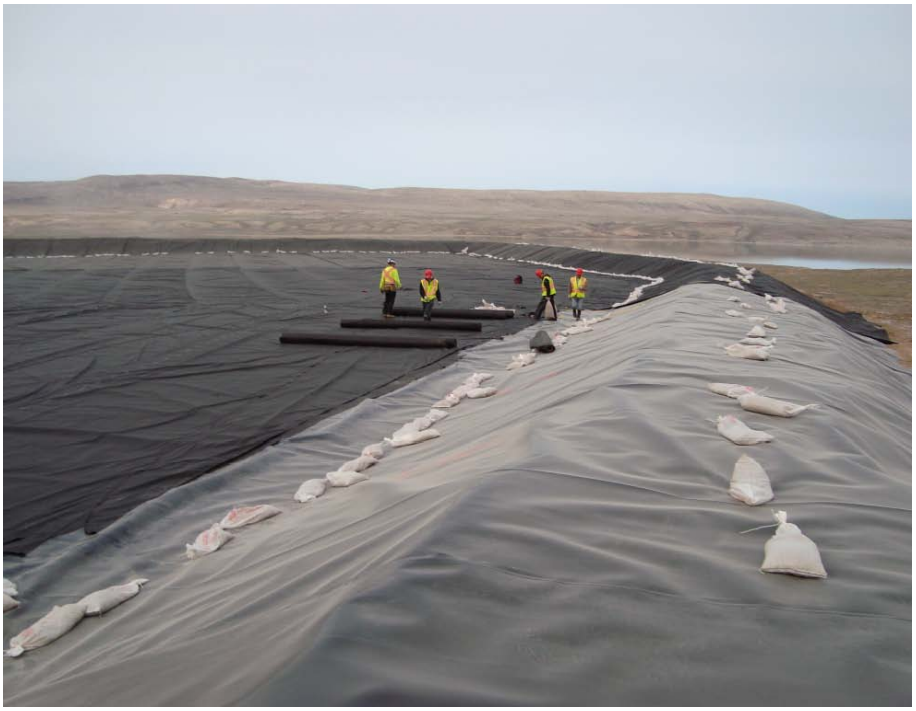

Figure 5: Liner seam marking and sealing in landfarm package.

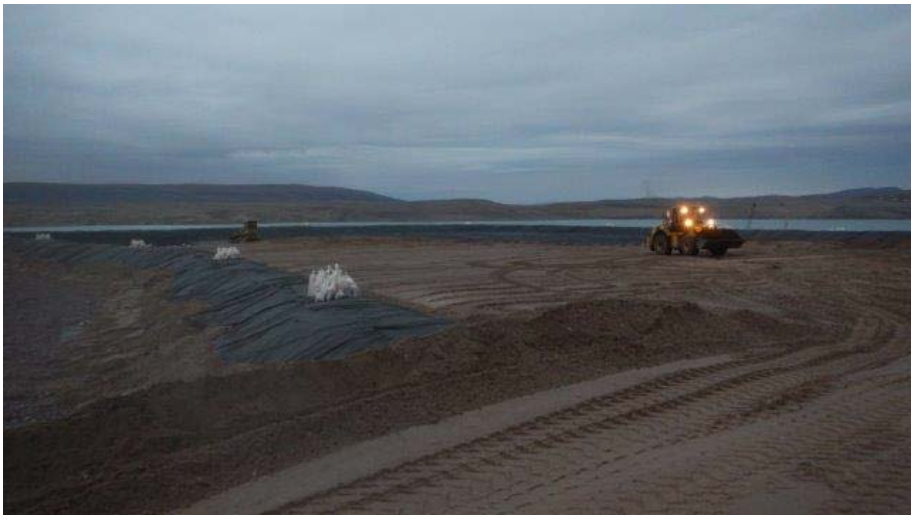

Figure 6: Landfarm – Installation of fill layer on top of installed liner layers.

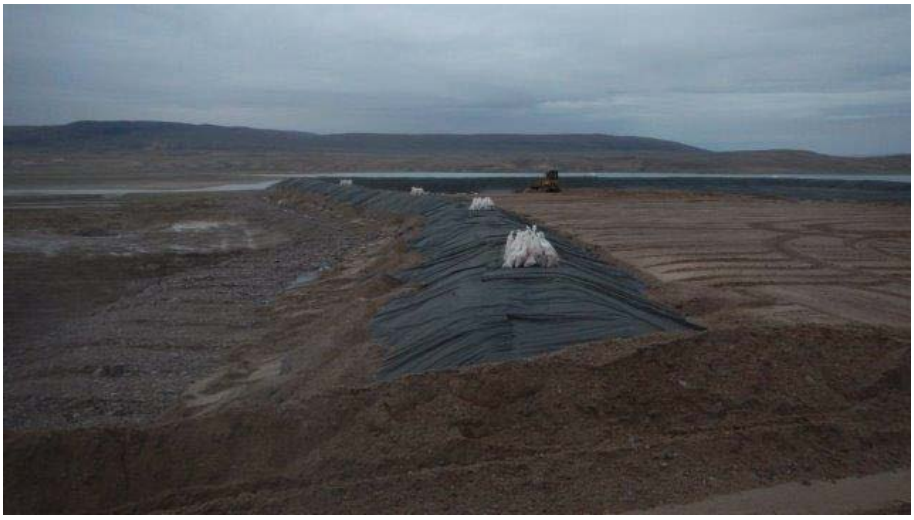

Figure 7: Landfarm – Finishing installation of fill layer on top of liner layers (showing berm between landfarm and contaminated snow area).

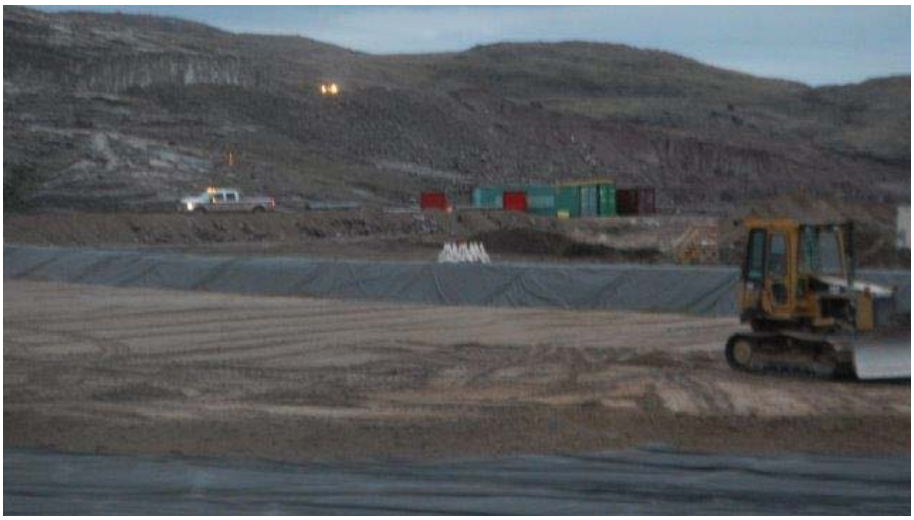

Figure 8: Landfarm - Smoothing fill layer.

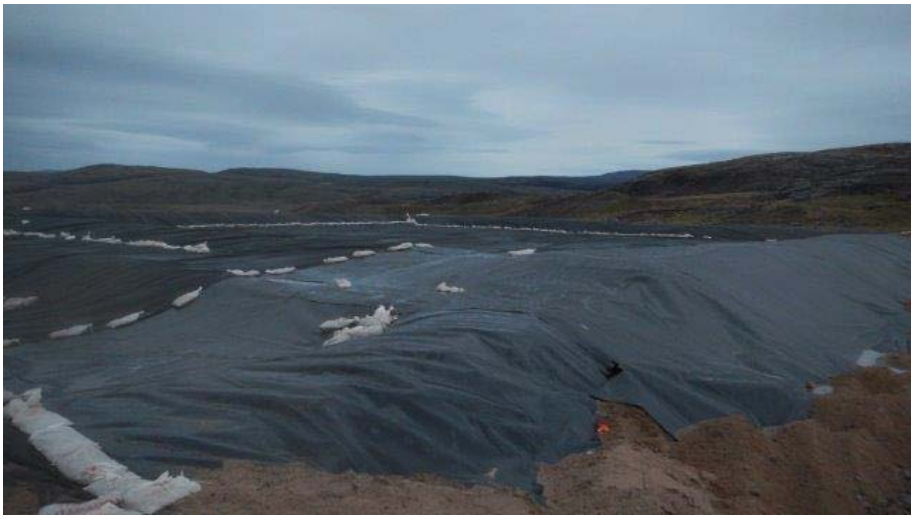

Figure 9: Contaminated Snow Containment - Liner ballasted in place with sand bags ready for seam sealing.

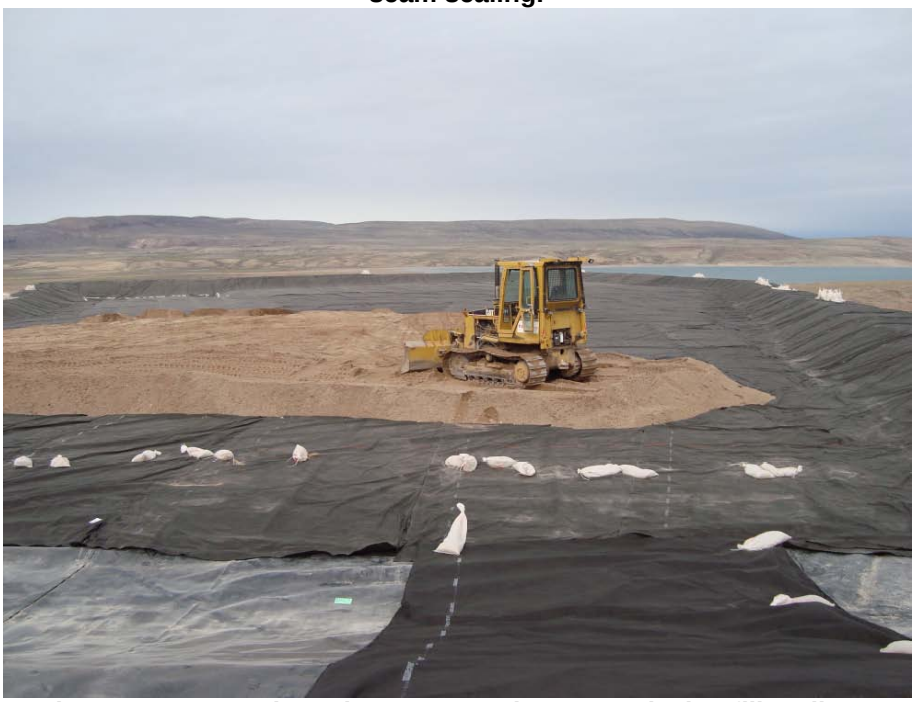

Figure 10: Contaminated Snow Containment – Placing fill on liner.

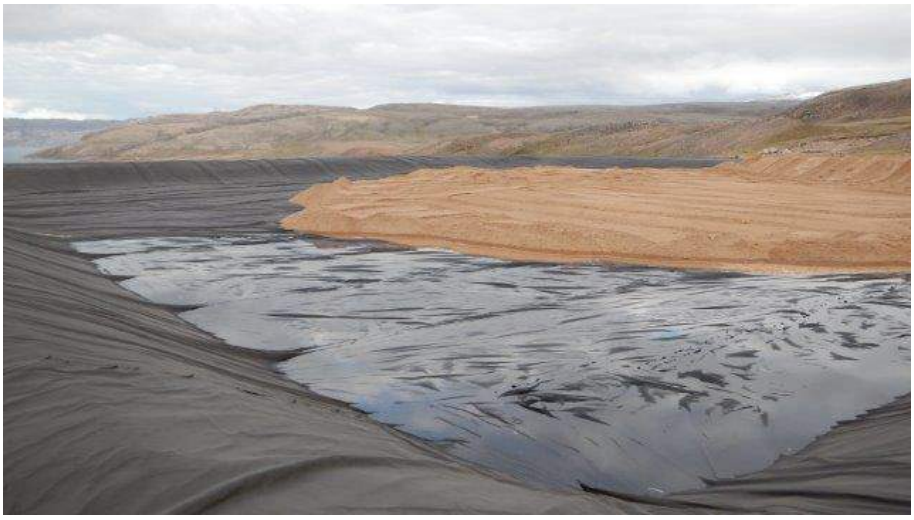

Figure 11: Contaminated Snow Containment - Liner installation complete.

Figure 12: Landfarm Package - Construction Complete [south view].

4. As-Built Drawings

The as-built drawings incorporate contractor red line markups, field instructions, requests for information, field sketches, and all other inputs provided by the field engineering team. The as-built drawings are attached in Appendix B.

Table 4-1: Landfarm Package 'As-Built' Drawing List

Drawing Number	Title	Revision
H349000-2550-10-042-0001	Milne Inlet Landfarm Design Plan and Layout As Built	0
H349000-2550-10-042-0002	Milne Inlet Landfarm Design Sections As Built	0

5. Field Decisions

The following sections describe the most relevant field decisions made during construction:

a. Rock anchors were added to the top of the berm separating the landfarm and the snow containment cell to hold the liner in place. These rocks will not impact the system's operation since the top of the berm was not backfilled.

b. Due to limited material availability on site, material substitutions were made for run of quarry granular fill.

c. Liner anchoring detail was changed due to limited equipment availability at site. Additional liner was lapped over the berm and backfilled on the outside of the berm to anchor the liner in place instead of excavating the key trench shown in the anchoring detail.

6. Performance Evaluation

The landfarm area has been filled with the contaminated soil removed from the old bulk fuel bladder farm during decommissioning. As of the data collection cut-off date for this report (October 5, 2014) there have been no adverse observations in operational performance of the landfarm package.

7. Vibration Monitoring and Quarrying Activity

No vibration monitoring was conducted during the construction of the Milne Port landfarm package as it was not deemed necessary based on scope of activities required for construction. The nearest fish-bearing water body is Milne Inlet, approximately 800 m to the north.

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

- BAF-PH1-830-P16-0040 (H349000-1000-07-126-0013): Quarry Management Plan Milne Inlet Quarry (Q1)
- 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 Milne Port landfarm package was conducted as per the BAF-PH1-830-P16-0008 Environmental Protection Plan (EPP) recently updated in July 2014.

In addition to the EPP, BIM self-performed earthworks construction follows the requirements of the BAF-PH1-830-STD-0001 Environmental Health and Safety Management Framework issued December 2010. 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.

Landfarm construction was also required to follow the requirements of the Surface Water and Aquatic Ecosystems Management Plan (March 2014), 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 (March 2014), BAF-PH1-830-P16-0036, in conjunction with the Emergency Response Plan (March 2014), 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 landfarm package would originate from the following sources based on construction methodology:

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

There was no fish habitat in the vicinity of the construction site, the nearest fish habitat being Milne Inlet, a distance of approximately 800 m.

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 Licence 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.

Two geotechnical inspections (early August and late September) were conducted in 2014 by a 3rd party, independent, Nunavut certified engineer under Part D, Section 19 of Type "A" Water Licence 2AM-MRY1325. The inspection is inclusive of waste containment structures at the Mary River Mine Site and Milne Port site including the new landfarm package. At the time of the early August geotechnical inspection the landfarm construction was in progress, and during the September inspection the landfarm construction had been largely completed. The inspector noted in Section 4.10 (Landfarm) and 4.11 (Contaminated Snow Containment) of his report that it appears as though the structures have been "constructed in accordance with good construction practice for structures of this type". The Annual Geotechnical Investigation Report – 2014 Inspections is provided in Appendix D.

10. Unanticipated Observations

There were no unanticipated observations during construction of the landfarm package.

11. Surface Monitoring

Not conducted.

12. Required Maintenance

None conducted to-date.

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 2013 Annual Report to the Nunavut Impact Review Board. Any additional adaptive management practices implemented as a result of works completed in 2014 will be reported in the updated 2014 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	1

	and constructed to contain, withhold, divert or retain Water and/or Waste;	
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

A.1 E349000-CC004-02-198-0001-004Sub01 Project Completion QA/QC Package III – Landfarm ***[68 pages]***

A.2 E349000-CC004-02-198-0001-005 Sub01 Project Completion QA/QC Package IV – Snow Containment ***[26 pages]***

A.3 E349000-CC004-02-198-0001-010 Sub01 Project Completion QA/QC Package IX – Installation Warranty ***[1 page]***

HATCH VENDOR DATA REVIEW

Doc Number	E349000-CC004-02-198-0001-004	Sub	01
Date Received			

Review Grade	Next Submittal Status
☐ C1 – Proceed to next submission & status	☐ Internal Review ☐ Certified Final ☐ Final ☐ As-Built
☐ C2 – Proceed with exceptions as noted to next submission & status	Next Submittal Date:
☐ C3 – Do not proceed, revise as noted & resubmit	
☐ C4 - No further submission required - Complete ☐ No further submission required - Cancelled ☐ No further submission required - Superseded ☐	

Package Coordinator: Name, signature and Date:

REVIEWED ONLY FOR GENERAL CONFORMITY WITH THE SPECIFICATIONS. ACCEPTANCE BY THE ENGINEER DOES NOT WARRANT OR REPRESENT THAT THE INFORMATION CONTAINED ON THIS DRAWING/DOCUMENT IS EITHER ACCURATE OR COMPLETE. THE SOLE RESPONSIBILITY FOR CORRECT DESIGN, DETAILS & DIMENSIONS SHALL REMAIN WITH THE PARTY SUBMITTING THE DRAWING/DOCUMENT.

LAYFIELD

CERTIFICATE OF ACCEPTANCE OF SOIL SUBGRADE SURFACE

PROJECT NAME: Mary River Project
PROJECT NUMBER: CT 000071
OWNER: Baffinland Iron Mine Corporation
LOCATION: Land farm.

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: Land Farm. "11637 m² all the floor up to the crown." is acceptable to install liner with two layers of LP 7 Geo textile." out side slopes 15 racks out of the Containment System.

LAYFIELD ENVIRONMENTAL SYSTEMS REPRESENTATIVE:

Date: 16 July 2014
Signature:
Name: Yonatan Espindola
Title: Supervisor.

OWNERS REPRESENTATIVE:

Date: 16-July-2014
Signature:
Name: SHAWN TUCKER
Title: Construction Manager Hatch.
Company: Hatch.

GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

GEOMEMBRANE **SECONDARY** **PRIMARY** **CLOSURE** **OTHER**

SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE):

REMARKS: **DATE:** 15-Jul-14

SHEET NUMBER: 1

DEPLOYMENT EQUIPMENT:

	PANEL LOCATION REFERENCE NUMBER P1	PANEL LOCATION REFERENCE NUMBER P2	PANEL LOCATION REFERENCE NUMBER P3
PANEL/ROLL NUMBER	P27	R27	R27
DEPLOYMENT LENGTH	39m	39m	39m
AMBIENT AIR TEMP.	12	12	12
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P2 S=	N= P3 S= P1	N= P4 S= P2
	E= W=	E= W=	E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P4	PANEL LOCATION REFERENCE NUMBER P5	PANEL LOCATION REFERENCE NUMBER P6
PANEL/ROLL NUMBER	R27	R30	R30
DEPLOYMENT LENGTH	39m	39m	15m
AMBIENT AIR TEMP.	12	12	18
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P5 S= P3	N= P6 S= P4	N= P1 S= P7
	E= W=	E= W=	E= P9 W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P7	PANEL LOCATION REFERENCE NUMBER P8	PANEL LOCATION REFERENCE NUMBER P9
PANEL/ROLL NUMBER	R30	P30	R30
DEPLOYMENT LENGTH	15m	16m	16m
AMBIENT AIR TEMP.	18	18	18
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P6 S=	N= P1 S=	N= P1 S=
	E= P9 W=	E= P9 W= P7	E= P10 W= P8

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P10	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER	R30		
DEPLOYMENT LENGTH	16m		
AMBIENT AIR TEMP.	18		
VISUAL OBSERVATION	OK		
OBSERVED OVERLAP	6 INCH		
CHECKED BY	TW		
ADJACENT PANEL	N= P1 S=	N= S=	N= S=
	E= W= P9	E= W=	E= W=

SUBMITTED BY: TW

DATE: 15-Jul-14

GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

GEOMEMBRANE **SECONDARY** **PRIMARY** **CLOSURE** **OTHER**

SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE):

REMARKS: **DATE:** 16-Jul-14

SHEET NUMBER: 2

DEPLOYMENT EQUIPMENT:

	PANEL LOCATION REFERENCE NUMBER P11	PANEL LOCATION REFERENCE NUMBER P12	PANEL LOCATION REFERENCE NUMBER P13
PANEL/ROLL NUMBER	R34	R34	R34
DEPLOYMENT LENGTH	39m	39m	39m
AMBIENT AIR TEMP.	9	9	9
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P12 S= P5 E= W=	N= P13 S= P11 E= W=	N= P14 S= P12 E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P14	PANEL LOCATION REFERENCE NUMBER P15	PANEL LOCATION REFERENCE NUMBER P16
PANEL/ROLL NUMBER	R34	R30	R20
DEPLOYMENT LENGTH	39m	39m	14m
AMBIENT AIR TEMP.	13	13	17
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P15 S= P13 E= W=	N= P16-P21 S= P14 E= W=	N= S= P15 E= P17 W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P17	PANEL LOCATION REFERENCE NUMBER P18	PANEL LOCATION REFERENCE NUMBER P19
PANEL/ROLL NUMBER	R20	R20	R20
DEPLOYMENT LENGTH	14m	14m	14m
AMBIENT AIR TEMP.	17	17	17
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= S= P15 E= P18 W= P16	N= S= P15 E= P19 W= P17	N= S= P15 E= P20 W= P18

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P20	PANEL LOCATION REFERENCE NUMBER P21	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER	R20	R20	
DEPLOYMENT LENGTH	14m	14m	
AMBIENT AIR TEMP.	17	17	
VISUAL OBSERVATION	OK	OK	
OBSERVED OVERLAP	6 INCH	6 INCH	
CHECKED BY	TW	TW	
ADJACENT PANEL	N= S= P15 E= P21 W= P19	N= S= P15 E= W= P20	N= S= E= W=

SUBMITTED BY: TW

DATE: 16-Jul-14

GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

GEOMEMBRANE **SECONDARY** **PRIMARY** **CLOSURE** **OTHER**

SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE):

REMARKS: **DATE:** 22-Jul-14

SHEET NUMBER: 3A

DEPLOYMENT EQUIPMENT:

	PANEL LOCATION REFERENCE NUMBER P22	PANEL LOCATION REFERENCE NUMBER P23	PANEL LOCATION REFERENCE NUMBER P24
PANEL/ROLL NUMBER	R20	R20	R10
DEPLOYMENT LENGTH	36m	17m	97m
AMBIENT AIR TEMP.	10	10	10
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P23, P24 S=	N= P24 S= P22	N= P25, P26 S= P23
	E= W=	E= W=	E= W=

	PANEL LOCATION REFERENCE NUMBER P25	PANEL LOCATION REFERENCE NUMBER P26	PANEL LOCATION REFERENCE NUMBER P27
PANEL/ROLL NUMBER	R10	R25	R25
DEPLOYMENT LENGTH	61m	36m	97m
AMBIENT AIR TEMP.	10	10	10
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P27 S= P24	N= P27 S= P24	N= P28, P29 S= P25, P26
	E= P26 W=	E= W= P25	E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P28	PANEL LOCATION REFERENCE NUMBER P29	PANEL LOCATION REFERENCE NUMBER P30
PANEL/ROLL NUMBER	R25	R8	R8
DEPLOYMENT LENGTH	25m	72m	86m
AMBIENT AIR TEMP.	10	10	12
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P30 S= P27	N= P30, P31 S= P27	N= P32 S= P28, P29
	E= P29 W=	E= W= P28	E= P31 W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P31	PANEL LOCATION REFERENCE NUMBER P32	PANEL LOCATION REFERENCE NUMBER P33
PANEL/ROLL NUMBER	R31	R31	R31
DEPLOYMENT LENGTH	11m	97m	50m
AMBIENT AIR TEMP.	12	12	12
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P32 S= P29	N= P33, P34 S= P30, P31	N= P35, P36 S= P32
	E= W= P30	E= W=	E= P34 W=

SUBMITTED BY: TW

DATE: 22-Jul-14

GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

GEOMEMBRANE **SECONDARY** **PRIMARY** **CLOSURE** **OTHER**

SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE):

REMARKS: **DATE:** 22-Jul-14

SHEET NUMBER: 3B

DEPLOYMENT EQUIPMENT:

	PANEL LOCATION REFERENCE NUMBER P34	PANEL LOCATION REFERENCE NUMBER P35	PANEL LOCATION REFERENCE NUMBER P36
PANEL/ROLL NUMBER	R7	R7	R7
DEPLOYMENT LENGTH	47m	48m	50m
AMBIENT AIR TEMP.	15	15	15
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P36 S= P32 E= W= P33	N= P37, P38, P39 S= P33 E= P36 W=	N= S= P33, P34 E= W= P35

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P37	PANEL LOCATION REFERENCE NUMBER P38	PANEL LOCATION REFERENCE NUMBER P39
PANEL/ROLL NUMBER	R7	R20	R20
DEPLOYMENT LENGTH	13m	17.5m	17.5m
AMBIENT AIR TEMP.	15	15	15
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= S= P35 E= P38 W=	N= S= P35 E= P39 W= P37	N= S= P35 E= W= P38

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= S= E= W=	N= S= E= W=	N= S= E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= S= E= W=	N= S= E= W=	N= S= E= W=

SUBMITTED BY: TW

DATE: 22-Jul-14

GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

GEOMEMBRANE **SECONDARY** **PRIMARY** **CLOSURE** **OTHER**

SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE):

REMARKS: **DATE:** 23-Jul-14

SHEET NUMBER: 4A

DEPLOYMENT EQUIPMENT:

	PANEL LOCATION REFERENCE NUMBER P40	PANEL LOCATION REFERENCE NUMBER P41	PANEL LOCATION REFERENCE NUMBER P42
PANEL/ROLL NUMBER	R4	R4	R4
DEPLOYMENT LENGTH	13m	12m	12m
AMBIENT AIR TEMP.	11	11	11
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P22 S=	N= P22 S=	N= P22 S=
	E= P41 W= P10	E= P42 W= P40	E= P43 W= P41

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P43	PANEL LOCATION REFERENCE NUMBER P44	PANEL LOCATION REFERENCE NUMBER P45
PANEL/ROLL NUMBER	R4	R4	R4
DEPLOYMENT LENGTH	12m	12m	6.6m
AMBIENT AIR TEMP.	11	11	11
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P22 S=	N= P22 S=	N= P24 S=
	E= P44 W= P42	E= P45 W= P43	E= P46 W= P44

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P46	PANEL LOCATION REFERENCE NUMBER P47	PANEL LOCATION REFERENCE NUMBER P48
PANEL/ROLL NUMBER	R4	R4	R4
DEPLOYMENT LENGTH	12m	12m	12m
AMBIENT AIR TEMP.	11	11	11
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P24 S=	N= P24 S=	N= P24 S=
	E= P47 W= P45	E= P48 W= P46	E= P49 W= P47

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P50	PANEL LOCATION REFERENCE NUMBER P51	PANEL LOCATION REFERENCE NUMBER P52
PANEL/ROLL NUMBER	R4	R4	R4
DEPLOYMENT LENGTH	12m	12m	12m
AMBIENT AIR TEMP.	13	13	13
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P24 S=	N= P24 S=	N= P24 S=
	E= P51 W= P49	E= P52 W= P50	E= P53 W= P51

SUBMITTED BY: TW

DATE: 23-Jul-14

GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

GEOMEMBRANE **SECONDARY** **PRIMARY** **CLOSURE** **OTHER**

SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE):

REMARKS: **DATE:** 23-Jul-14

SHEET NUMBER: 4B

DEPLOYMENT EQUIPMENT:

	PANEL LOCATION REFERENCE NUMBER P53	PANEL LOCATION REFERENCE NUMBER P54	PANEL LOCATION REFERENCE NUMBER P55
PANEL/ROLL NUMBER	R4	R20	R4
DEPLOYMENT LENGTH	12m	12m	12m
AMBIENT AIR TEMP.	13	13	13
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P24 S=	N= P24 S=	N= P24 S=
	E= P54 W= P52	E= P55 W= P53	E= W= P54

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= S=	N= S=	N= S=
	E= W=	E= W=	E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= S=	N= S=	N= S=
	E= W=	E= W=	E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= S=	N= S=	N= S=
	E= W=	E= W=	E= W=

SUBMITTED BY: TW

DATE: 23-Jul-14

July 23B

GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

GEOMEMBRANE **SECONDARY** **PRIMARY** **CLOSURE** **OTHER**

SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE):

REMARKS: **DATE:** 24-Jul-14

SHEET NUMBER: 5A

DEPLOYMENT EQUIPMENT:

	PANEL LOCATION REFERENCE NUMBER P56	PANEL LOCATION REFERENCE NUMBER P57	PANEL LOCATION REFERENCE NUMBER P58
PANEL/ROLL NUMBER	R7	R9	R9
DEPLOYMENT LENGTH	4m	14m	16m
AMBIENT AIR TEMP.	9	9	9
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= S= P37 E= W=	N= S= E= P58 W= P21	N= S= E= P59 W= P57

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P59	PANEL LOCATION REFERENCE NUMBER P60	PANEL LOCATION REFERENCE NUMBER P61
PANEL/ROLL NUMBER	R9	R9	R9
DEPLOYMENT LENGTH	16m	16m	16m
AMBIENT AIR TEMP.	9	9	9
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= S= E= P59 W= P58	N= S= E= P61 W= P59	N= S= E= P62 W= P60

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P62	PANEL LOCATION REFERENCE NUMBER P63	PANEL LOCATION REFERENCE NUMBER P64
PANEL/ROLL NUMBER	R9	R9	R9
DEPLOYMENT LENGTH	16m	16m	16m
AMBIENT AIR TEMP.	9	11	11
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= S= E= P63 W= P61	N= S= E= P64 W= P62	N= S= E= P65 W= P63

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P65	PANEL LOCATION REFERENCE NUMBER P66	PANEL LOCATION REFERENCE NUMBER P67
PANEL/ROLL NUMBER	R9	R9	R24
DEPLOYMENT LENGTH	16m	16m	16m
AMBIENT AIR TEMP.	11	11	11
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= S= E= P66 W= P64	N= S= E= P67 W= P65	N= S= E= P68 W= P66

SUBMITTED BY: TW

DATE: 24-Jul-14

GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

GEOMEMBRANE **SECONDARY** **PRIMARY** **CLOSURE** **OTHER**

SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE):

REMARKS: **DATE:** 24-Jul-14

SHEET NUMBER: 5B

DEPLOYMENT EQUIPMENT:

	PANEL LOCATION REFERENCE NUMBER P68	PANEL LOCATION REFERENCE NUMBER P69	PANEL LOCATION REFERENCE NUMBER P70
PANEL/ROLL NUMBER	R24	R24	R24
DEPLOYMENT LENGTH	16m	16m	16m
AMBIENT AIR TEMP.	11	11	11
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= S= E= P69 W= P67	N= S= E= P70 W= P68	N= S= E= P70 W= P69

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P71	PANEL LOCATION REFERENCE NUMBER P72	PANEL LOCATION REFERENCE NUMBER P73
PANEL/ROLL NUMBER	R24	R24	R24
DEPLOYMENT LENGTH	16m	16m	16m
AMBIENT AIR TEMP.	11	11	11
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= S= E= P72 W= P70	N= S= E= P73 W= P71	N= S= E= P74 W= P72

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P74	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER	R24		
DEPLOYMENT LENGTH	16m		
AMBIENT AIR TEMP.	11		
VISUAL OBSERVATION	OK		
OBSERVED OVERLAP	6 INCH		
CHECKED BY	TW		
ADJACENT PANEL	N= S= E= W= P73	N= S= E= W=	N= S= E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= S= E= W=	N= S= E= W=	N= S= E= W=

SUBMITTED BY: TW

DATE: 24-Jul-14

LAYFIELD GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

GEOMEMBRANE **SECONDARY** **PRIMARY** **CLOSURE** **OTHER**

SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE):

REMARKS: **DATE:** 27-Jul-14

SHEET NUMBER: 6

DEPLOYMENT EQUIPMENT:

	PANEL LOCATION REFERENCE NUMBER P75	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER	R2		
DEPLOYMENT LENGTH	12m		
AMBIENT AIR TEMP.	10		
VISUAL OBSERVATION	OK		
OBSERVED OVERLAP	6 INCH		
CHECKED BY	TW		
ADJACENT PANEL	N= S= E= P74 W=	N= S= E= W=	N= S= E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= S= E= W=	N= S= E= W=	N= S= E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= S= E= W=	N= S= E= W=	N= S= E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= S= E= W=	N= S= E= W=	N= S= E= W=

SUBMITTED BY: TW

DATE: 27-Jul-14

July 27

GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

GEOMEMBRANE **SECONDARY** **PRIMARY** **CLOSURE** **OTHER**

SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE):

REMARKS: **DATE:** 28-Jul-14

SHEET NUMBER: 7

DEPLOYMENT EQUIPMENT:

	PANEL LOCATION REFERENCE NUMBER P76	PANEL LOCATION REFERENCE NUMBER P77	PANEL LOCATION REFERENCE NUMBER P78
PANEL/ROLL NUMBER	R6	R6	R6
DEPLOYMENT LENGTH	10m	10m	10m
AMBIENT AIR TEMP.	8	8	8
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P75 S= P77 E= W=	N= P76 S= P78 E= W=	N= P77 S= P79 E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P79	PANEL LOCATION REFERENCE NUMBER P80	PANEL LOCATION REFERENCE NUMBER P81
PANEL/ROLL NUMBER	R6	R11	R2
DEPLOYMENT LENGTH	10m	10m	10m
AMBIENT AIR TEMP.	10	10	10
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= P78 S= P80 E= W=	N= P79 S= P81 E= W=	N= P80 S= P82 E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P82	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER	R3		
DEPLOYMENT LENGTH	10m		
AMBIENT AIR TEMP.	10		
VISUAL OBSERVATION	OK		
OBSERVED OVERLAP	6 INCH		
CHECKED BY	TW		
ADJACENT PANEL	N= P81 S= E= W= P55	N= S= E= W=	N= S= E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= S= E= W=	N= S= E= W=	N= S= E= W=

SUBMITTED BY: TW

DATE: 28-Jul-14

GEOMEMBRANE TRIAL SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm **SHEET NUMBER:** 1

____ **TF - # FUSION** **X** **TX - # = EXTRUSION** **TS - # = SOLVENT**

SAMPLE NUMBER	APPROX. TIME & DATE	WELDING MACHINE NUMBER	WELD TECH.	TEMPERATURES				TEST RESULTS													PASS OR RE - TEST	CH'KD BY	REMARKS
				AMBIENT AIR TEMP.	PREHEAT OR MACHINE SPEED	EXTRUDER	WEDGE TEMP. Deg F	INSIDE PEEL MODE ---------- STRENGTH					OUTSIDE PEEL MODE ---------- STRENGTH						SHEAR MODE ---------- STRENGTH				
TX 1	4:27 15-Jul	PX 6234	MB	18	480	500							118	102	108	103	100	115	121	P	TW	
TX 2	2:00 16-Jul	PX 6234	MB	17	485	500							102	92	102	96	105	125	121	P	TW	
TX 3	12:00 17-Jul	PX 6234	MB	9	485	500							91	114	110	105	103	126	129	P	TW	
TX 4	3:30 22-Jul	PX 6234	MB	15	485	500							105	105	101	95	104	113	111	P	TW	
TX 5	1:00 23-Jul	PX 6234	MB	16	485	500							107	106	107	105	103	118	120	P	TW	
TX 6	4:00 24-Jul	PX 6234	MB	12	485	500							114	103	117	114	113	112	118	P	TW	
TX 7	7:30 25-Jul	PX 6234	MB	12	485	500							111	105	92	113	112	123	120	P	TW	
TX 8	8:00 28-Jul	PX 6234	MB	10	485	500							100	88	93	97	81	114	118	P	TW	
TX 9	7:30 29-Jul	PX 6234	MB	9	485	500							98	92	95	93	104	118	124	P	TW	

SUBMITTED BY: TW

DATE:

GEOMEMBRANE TRIAL SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm **SHEET NUMBER:** 1

X **TF - # FUSION** **TX - # = EXTRUSION** **TS - # = SOLVENT**

SAMPLE NUMBER	APPROX. TIME & DATE	WELDING MACHINE NUMBER	WELD TECH.	TEMPERATURES				TEST RESULTS												PASS OR RE - TEST	CH'KD BY	REMARKS
				AMBIENT AIR TEMP.	PREHEAT OR MACHINE SPEED	EXTRUDER	WEDGE TEMP. Deg F	INSIDE PEEL MODE ---------- STRENGTH				OUTSIDE PEEL MODE ---------- STRENGTH				SHEAR MODE ---------- STRENGTH						
TF 12	7:15 28-Jul	PW 3370	JB	8	60%		850	107	105	106	110	106	105	107	103	103	108	123	124	P	TW	
TF 13	12:30 28-Jul	PW 3370	JB	10	60%		850	111	109	112	110	110	107	106	110	110	109	118	117	P	TW	

SUBMITTED BY: TW

LS FORM 3 LAYFIELD ENVIRONMENTAL SYSTEMS DATE: 28-Jul

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land farm

PASSING TRIAL SEAMS

	NO.	TIME		TECH ID
X FUSION	TF 1	8:20	15-Jul-14	JB
	TF 2	11:55	15-Jul-14	JB
EXTRUSION				
SOLVENT				

SHEET NUMBER: 1

DATE: 15-Jul-14

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	MACHINE TEMPERATURES INDICATOR WEDGE OR BARREL	APPROX. LENGTH WELDED (M)	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE TEST DATE	NON-DESTRUCTIVE CHECKED BY
P1 / P2	EEOS-WEOS		9:25	12	JB	60%	850		39m				15-Jul-14	TW
P2 / P3	EEOS-WEOS		10:15	12	JB	60%	850		39m				15-Jul-14	TW
P3 / P4	EEOS-WEOS		10:50	12	JB	60%	850		39m				15-Jul-14	TW
P4 / P5	EEOS-WEOS		11:15	12	JB	60%	850		39m	DT-1	TW	PASS	15-Jul-14	TW
P6 / P7	WEOS-EEOS		3:45	18	JB	60%	850		15m				16-Jul-14	TW
P6 P7 P8	NEOS-SEOS		4:09	18	JB	60%	850		16m				16-Jul-14	TW
P8 / P9	SEOS-NEOS		4:20	18	JB	60%	850		16m				16-Jul-14	TW
P9 / P10	SEOS-NEOS		4:30	18	JB	60%	850		16m				16-Jul-14	TW
/														
/														
/														
							DAILY TOTAL		219m					

** REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: TW

DATE: 15-Jul-14

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land farm

PASSING TRIAL SEAMS

	NO.	TIME		TECH ID
X FUSION	TF 3	7:50	16-Jul-14	JB
	TF 4	12:30	16-Jul-14	JB
EXTRUSION				
SOLVENT				

SHEET NUMBER: 2

DATE: 16-Jul-14

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	MACHINE TEMPERATURES INDICATOR WEDGE OR BARREL	APPROX. LENGTH WELDED (M)	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE TEST DATE	NON-DESTRUCTIVE CHECKED BY
P5 / P11	EEOS-WEOS		8:45	9	JB	60%	850		39m				16-Jul-14	TW
P11 / P12	EEOS-WEOS		9:11	9	JB	60%	850		39m	DT-2	TW	PASS	16-Jul-14	TW
P12 / P13	EEOS-WEOS		10:45	9	JB	60%	850		39m				16-Jul-14	TW
P13 / P14	EEOS-WEOS		11:00	13	JB	60%	850		39m				16-Jul-14	TW
P14 / P15	EEOS-WEOS		11:30	13	JB	60%	850		39m				16-Jul-14	TW
P16 / P17	SEOS-NEOS		1:40	17	JB	60%	850		14m				16-Jul-14	TW
P17 / P18	SEOS-NEOS		1:53	17	JB	60%	850		14m				16-Jul-14	TW
P18 / P19	SEOS-NEOS		2:05	17	JB	60%	850		14m				16-Jul-14	TW
P19 / P20	SEOS-NEOS		2:20	17	JB	60%	850		14m				16-Jul-14	TW
P20 / P21	SEOS-NEOS		2:30	17	JB	60%	850		14m	DT-3	TW	PASS	16-Jul-14	TW
/														
							DAILY TOTAL		265m					

** REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: TW

DATE: 16-Jul-14

LAYFIELD

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land farm

PASSING TRIAL SEAMS

	NO.	TIME		TECH ID
X FUSION	TF 5	7:00	22-Jul-14	JB
	TF 6	7:10	22-Jul-14	TW
EXTRUSION				
SOLVENT				

SHEET NUMBER: 3A

DATE: 22-Jul-14

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	MACHINE TEMPERATURES INDICATOR WEDGE OR BARREL	APPROX. LENGTH WELDED (M)	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE TEST DATE	NON-DESTRUCTIVE CHECKED BY
P22 / P23	NEEOS-SWEOS		7:50	10	JB	60%	850		14.5m				23-Jul-14	TW
P22 23 P24	EEOS-WEOS		8:28	10	JB	60%	850		33m				23-Jul-14	TW
P24 25 P26	EEOS-WEOS		8:55	10	JB	60%	850		97m	DT-4	TW	PASS	23-Jul-14	TW
P25 / P26	SEOS-NEOS		9:00	10	TW	60%	850		6.5m				23-Jul-14	TW
P25 26 P27	EEOS-WEOS		9:30	10	TW	60%	850		97m				23-Jul-14	TW
P27 28 P29	EEOS-WEOS		10:25	10	JB	60%	850		97m				23-Jul-14	TW
P28 / P29	SEOS-NEOS		10:30	10	TW	60%	850		6.5m				23-Jul-14	TW
P28/2930 P31	EEOS-WEOS		11:15	10	JB	60%	850		97m	DT-5	TW	PASS	23-Jul-14	TW
P30 / P31	SEOS-NEOS		11:20	12	TW	60%	850		6.5m				23-Jul-14	TW
P30 31 P32	EEOS-WEOS		11:55	12	JB	60%	850		97m				23-Jul-14	TW
P32 33 P34	EEOS-WEOS		12:20	12	TW	60%	850		97m	DT-6	TW	PASS	23-Jul-14	TW
								DAILY TOTAL	649m					

** REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: TW

DATE: 15-Jul-14

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land farm

PASSING TRIAL SEAMS

	NO.	TIME		TECH ID
X FUSION	TF 5	7:00	22-Jul-14	JB
	TF 6	7:10	22-Jul-14	TW
	TF 7	2:00	22-Jul-14	JB
EXTRUSION				
SOLVENT				

SHEET NUMBER: 3B

DATE: 22-Jul-14

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	MACHINE TEMPERATURES INDICATOR WEDGE OR BARREL	APPROX. LENGTH WELDED (M)	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE TEST DATE	NON-DESTRUCTIVE CHECKED BY
P33 / P34	SEOS-NEOS		12:30	15	JB	60%	850		6.5m				23-Jul-14	TW
P33/3435 P36	EEOS-WEOS		1:15	15	TW	60%	850		97m	DT-7	TW	PASS	23-Jul-14	TW
P37 P38	SEOS-NEOS		2:22	15	JB	60%	850		6.5m				23-Jul-14	TW
P38 / P39	SEOS-NEOS		2:27	15	JB	60%	850		4m				23-Jul-14	TW
P35/3637P38/39	EEOS-WEOS		2:35	15	JB	60%	850		97m				23-Jul-14	TW
P22 to P37	SEOS-NEOS		3:40	15	JB	60%	850		73m	DT-8	TW	PASS	23-Jul-14	TW
/														
/														
							DAILY TOTAL		284m					

** REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: TW

DATE: 22-Jul-14

LAYFIELD

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land farm

PASSING TRIAL SEAMS

	NO.	TIME	TECH ID
X FUSION	TF 8	7:00 23-Jul-14	JB
EXTRUSION			
SOLVENT			

SHEET NUMBER: 4

DATE: 23-Jul-14

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	MACHINE TEMPERATURES INDICATOR WEDGE OR BARREL	APPROX. LENGTH WELDED (M)	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE TEST DATE	NON-DESTRUCTIVE CHECKED BY
P10 / P40	SEOS-NEOS		8:02	11	JB	60%	850		13m				23-Jul-14	TW
P40 / P41	SEOS-NEOS		8:10	11	JB	60%	850		12m				23-Jul-14	TW
P41 / P42	SEOS-NEOS		8:17	11	JB	60%	850		12m				23-Jul-14	TW
P42 / P43	SEOS-NEOS		8:23	11	JB	60%	850		12m				23-Jul-14	TW
P43 / P44	SEOS-NEOS		8:27	11	JB	60%	850		12m				23-Jul-14	TW
P44 P45	SEOS-NEOS		8:45	11	JB	60%	850		12m				23-Jul-14	TW
P45 / P46	SEOS-NEOS		8:52	11	JB	60%	850		6.6m				23-Jul-14	TW
P46 / P47	SEOS-NEOS		9:05	11	JB	60%	850		12m				23-Jul-14	TW
P47 / P48	SEOS-NEOS		9:12	11	JB	60%	850		12m				23-Jul-14	TW
P48 / P49	SEOS-NEOS		9:15	11	JB	60%	850		12m				23-Jul-14	TW
P49 / P50	SEOS-NEOS		10:25	13	JB	60%	850		12m				23-Jul-14	TW
								DAILY TOTAL	127.6m					

** REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: TW

DATE: 23-Jul-14

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land farm

PASSING TRIAL SEAMS

	NO.	TIME		TECH ID
X FUSION	TF 8	7:00	23-Jul-14	JB
	TF 9	12:30	23-Jul-14	JB
EXTRUSION				
SOLVENT				

SHEET NUMBER: 4

DATE: 23-Jul-14

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	MACHINE TEMPERATURES INDICATOR WEDGE OR BARREL	APPROX. LENGTH WELDED (M)	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE TEST DATE	NON-DESTRUCTIVE CHECKED BY
P50 / P51	SEOS-NEOS		10:30	13	JB	60%	850		12m				23-Jul-14	TW
P51 / P52	SEOS-NEOS		10:37	13	JB	60%	850		12m				23-Jul-14	TW
P52 / P53	SEOS-NEOS			13	JB	60%	850		12m	DT-9	TW	PASS	23-Jul-14	TW
P53 / P54	SEOS-NEOS			13	JB	60%	850		12m				23-Jul-14	TW
P54 / P55	SEOS-NEOS			13	JB	60%	850		12m				23-Jul-14	TW
P40 P55	WEOS-EEOS			16	JB	60%	850		99m				23-Jul-14	TW
/														
/														
/														
/														
/														
								DAILY TOTAL	159m					

* *REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: TW

DATE: 23-Jul-14

LAYFIELD

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land farm

PASSING TRIAL SEAMS

	NO.	TIME	TECH ID
X FUSION	TF 10	6:50 24-Jul-14	JB
EXTRUSION			
SOLVENT			

SHEET NUMBER: 4A

DATE: 24-Jul-14

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	MACHINE TEMPERATURES INDICATOR WEDGE OR BARREL	APPROX. LENGTH WELDED (M)	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE TEST DATE	NON-DESTRUCTIVE CHECKED BY
P56 / P37	EEOS-WEOS		8:00	9	JB	60%	850		4m				25-Jul-14	TW
P57 / P21	NEOS-SEOS		8:20	9	JB	60%	850		14m				25-Jul-14	TW
P57 / P58	SEOS-NEOS		8:30	9	JB	60%	850		16m	DT-10	TW		25-Jul-14	TW
P58 / P59	SEOS-NEOS		9:00	9	JB	60%	850		16m				25-Jul-14	TW
P59 / P60	SEOS-NEOS		9:10	9	JB	60%	850		16m				25-Jul-14	TW
P60 P61	SEOS-NEOS		10:10	9	JB	60%	850		16m				25-Jul-14	TW
P61 / P62	SEOS-NEOS		10:20	9	JB	60%	850		16m				25-Jul-14	TW
P62 / P63	SEOS-NEOS		10:35	9	JB	60%	850		16m				25-Jul-14	TW
P63 / P64	SEOS-NEOS		10:50	11	JB	60%	850		16m				25-Jul-14	TW
P64 / P65	SEOS-NEOS		11:02	11	JB	60%	850		16m				25-Jul-14	TW
P65 / P66	SEOS-NEOS		11:24	11	JB	60%	850		16m				25-Jul-14	TW
								DAILY TOTAL	162m					

** REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: TW

DATE: 24-Jul-14

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land farm

PASSING TRIAL SEAMS

	NO.	TIME		TECH ID
X FUSION	TF 11	12:30	24-Jul-14	JB
EXTRUSION				
SOLVENT				

SHEET NUMBER: 4B

DATE: 24-Jul-14

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	MACHINE TEMPERATURES INDICATOR WEDGE OR BARREL	APPROX. LENGTH WELDED (M)	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE TEST DATE	NON-DESTRUCTIVE CHECKED BY
P66 / P67	EEOS-WEOS		1:24	11	JB	60%	850		16m	DT-11			25-Jul-14	TW
P67 / P68	NEOS-SEOS		1:56	12	JB	60%	850		16m				25-Jul-14	TW
P68 / P69	SEOS-NEOS		2:10	12	JB	60%	850		16m				25-Jul-14	TW
P69 / P70	SEOS-NEOS		2:20	12	JB	60%	850		16m				25-Jul-14	TW
P70 / P71	SEOS-NEOS		2:35	12	JB	60%	850		16m				25-Jul-14	TW
P71 P72	SEOS-NEOS		2:53	12	JB	60%	850		16m				25-Jul-14	TW
P72 / P73	SEOS-NEOS		3:05	12	JB	60%	850		16m				25-Jul-14	TW
P73 / P74	SEOS-NEOS		3:15	12	JB	60%	850		16m				25-Jul-14	TW
P74 / P57	EEOS-WEOS		4:15	12	JB	60%	850		113m	DT-12		TIE-IN	25-Jul-14	TW
/														
/														
								DAILY TOTAL	241m					

** REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: TW

DATE: 24-Jul-14

LAYFIELD

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land farm

PASSING TRIAL SEAMS

	NO.	TIME	TECH ID
X FUSION	TF 11	12:30 27-Jul-14	JB
EXTRUSION			
SOLVENT			

SHEET NUMBER: 5

DATE: 27-Jul-14

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	MACHINE TEMPERATURES INDICATOR WEDGE OR BARREL	APPROX. LENGTH WELDED (M)	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE TEST DATE	NON-DESTRUCTIVE CHECKED BY
P74 / P75	SEOS-NEOS		1:38	13	JB	60%		850	12m				29-Jul-14	JB
P74 75 P76	EEOS-WEOS		4:00	13	JB	60%		850	10m				29-Jul-14	JB
/														
/														
/														
/														
/														
/														
/														
/														
/														
								DAILY TOTAL						

** REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: TW

DATE:

LAYFIELD

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land farm

PASSING TRIAL SEAMS

	NO.	TIME		TECH ID
X FUSION	TF 12	7:15	28-Jul-14	JB
	TF 13	12:30	28-Jul-14	JB
EXTRUSION				
SOLVENT				

SHEET NUMBER: 6

DATE: 28-Jul-14

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES: DIGITAL SET _____ WEDGE OR BARREL	MACHINE TEMPERATURES: INDICATOR _____ WEDGE OR BARREL	APPROX. LENGTH WELDED (M)	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE: TEST DATE	NON-DESTRUCTIVE: CHECKED BY
P76 / P77	WEOS-EEOS		8:00	13	JB	60%		850	12m				29-Jul-14	JB
P77 / P78	WEOS-EEOS		8:27	13	JB	60%		850	10m				29-Jul-14	JB
P78 / P79	WEOS-EEOS		9:30	13	JB	60%		850	10m				29-Jul-14	JB
P79 / P80	WEOS-EEOS		10:00	13	JB	60%		850	10m				29-Jul-14	JB
P80 / P81	WEOS-EEOS		2:30	13	JB	60%		850	10m				29-Jul-14	JB
P82 / P55	SEOS-NEOS		2:40	13	JB	60%		850	10m				29-Jul-14	JB
P81 82 P55	WEOS-EEOS		2:50	13	JB	60%		850	12m				29-Jul-14	JB
P76 to P81	SEOS-NEOS		4:20	13	JB	60%		850	39.6m	DT-13	TW		29-Jul-14	JB
/														
/														
/														
								DAILY TOTAL	123m					

** REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: TW

DATE: 29-Jul-14

LAYFIELD GEOMEMBRANE VACUUM / AIR LANCE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

VACUUM BOX X **AIR LANCE** **SHEET NUMBER:** 1

SEAMS								REPAIRS						
SEAM NUMBER	SEAM SECTION * FROM	TO	TEST DATE	TECH ID	DEFECTS **	COMPLETE NO YES	CHK'D BY	REMARKS **	DEFECT CODE		TEST DATE	TECH ID	DEFECTS **	CHK'D BY	REMARKS **
/	-								1	A	15-Jul-14	JB		TW	T-WELD
/	-								1	B	15-Jul-14	JB		TW	T-WELD
/	-								1	C	15-Jul-14	JB		TW	T-WELD
/	-								1	D	15-Jul-14	JB		TW	3' PATCH
/	-								1	E	15-Jul-14	JB		TW	T-WELD
/	-								1	F	15-Jul-14	JB		TW	6" WELD
/	-								1	G	15-Jul-14	JB		TW	6" WELD
/	-								1	H	15-Jul-14	JB		TW	6" WELD
/	-								1	I	16-Jul-14	JB		TW	6" WELD
/	-								1	J	16-Jul-14	JB		TW	6" WELD
/	-								1	K	16-Jul-14	JB		TW	6" WELD
/	-								1	L	16-Jul-14	JB		TW	6" WELD
/	-								1	M	16-Jul-14	JB		TW	T-WELD
/	-								1	N	16-Jul-14	JB		TW	T-WELD
/	-								1	O	16-Jul-14	JB		TW	T-WELD
/	-								1	P	16-Jul-14	JB		TW	T-WELD
/	-								1	Q	16-Jul-14	JB		TW	T-WELD
/	-								1	R	23-Jul-14	JB		TW	2' PATCH
/	-								1	S	23-Jul-14	JB		TW	3' PATCH
/	-								1	T	23-Jul-14	JB		TW	2' PATCH

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER. OR A POINT LOCATION ON THE SEAM

** RECORD QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS

SUBMITTED BY: TW

DATE: #####

LAYFIELD GEOMEMBRANE VACUUM / AIR LANCE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

VACUUM BOX X **AIR LANCE** **SHEET NUMBER:** 2

SEAMS								REPAIRS					
SEAM NUMBER	SEAM SECTION * FROM - TO	TEST DATE	TECH ID	DEFECTS **	COMPLETE NO YES	CHK'D BY	REMARKS **	DEFECT CODE	TEST DATE	TECH ID	DEFECTS **	CHK'D BY	REMARKS **
/	-							2 A	23-Jul-14	JB		TW	6" WELD
/	-							2 B	23-Jul-14	JB		TW	6" WELD
/	-							2 C	23-Jul-14	JB		TW	6" WELD
/	-							2 D	23-Jul-14	JB		TW	T-WELD
/	-							2 E	23-Jul-14	JB		TW	T-WELD
/	-							2 F	23-Jul-14	JB		TW	6" WELD
/	-							2 G	23-Jul-14	JB		TW	6" WELD
/	-							2 H	23-Jul-14	JB		TW	6" WELD
/	-							2 I	23-Jul-14	JB		TW	T-WELD
/	-							2 J	23-Jul-14	JB		TW	T-WELD
/	-							2 K	23-Jul-14	JB		TW	T-WELD
/	-							2 L	23-Jul-14	JB		TW	T-WELD
/	-							2 M	23-Jul-14	JB		TW	T-WELD
/	-							2 N	23-Jul-14	JB		TW	T-WELD
/	-							2 O	23-Jul-14	JB		TW	T-WELD
/	-							2 P	23-Jul-14	JB		TW	6" WELD
/	-							2 Q	23-Jul-14	JB		TW	6" WELD
/	-							2 R	23-Jul-14	JB		TW	T-WELD
/	-							2 S	23-Jul-14	JB		TW	T-WELD
/	-							2 T	23-Jul-14	JB		TW	T-WELD

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER. OR A POINT LOCATION ON THE SEAM

** RECORD QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS

SUBMITTED BY: TW

DATE: #####

LAYFIELD GEOMEMBRANE VACUUM / AIR LANCE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

VACUUM BOX X **AIR LANCE** **SHEET NUMBER:** 3

SEAMS								REPAIRS					
SEAM NUMBER	SEAM SECTION * FROM - TO	TEST DATE	TECH ID	DEFECTS **	COMPLETE NO YES	CHK'D BY	REMARKS **	DEFECT CODE	TEST DATE	TECH ID	DEFECTS **	CHK'D BY	REMARKS **
/	-							3 A	23-Jul-14	JB		TW	T-WELD
/	-							3 B	23-Jul-14	JB		TW	T-WELD
/	-							3 C	23-Jul-14	JB		TW	T-WELD
/	-							3 D	23-Jul-14	JB		TW	T-WELD
/	-							3 E	23-Jul-14	JB		TW	T-WELD
/	-							3 F	23-Jul-14	JB		TW	T-WELD
/	-							3 G	23-Jul-14	JB		TW	T-WELD
/	-							3 H	23-Jul-14	JB		TW	T-WELD
/	-							3 I	23-Jul-14	JB		TW	T-WELD
/	-							3 J	23-Jul-14	JB		TW	T-WELD
/	-							3 K	23-Jul-14	JB		TW	T-WELD
/	-							3 L	23-Jul-14	JB		TW	T-WELD
/	-							3 M	23-Jul-14	JB		TW	T-WELD
/	-							3 N	23-Jul-14	JB		TW	T-WELD
/	-							3 O	23-Jul-14	JB		TW	T-WELD
/	-							3 P	23-Jul-14	JB		TW	2' PATCH
/	-							3 Q	23-Jul-14	JB		TW	4m WELD
/	-							3 R	23-Jul-14	JB		TW	2' PATCH
/	-							3 S	23-Jul-14	JB		TW	2' PACTH
/	-							3 T	23-Jul-14	JB		TW	2' PATCH

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER. OR A POINT LOCATION ON THE SEAM

** RECORD QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS

SUBMITTED BY: TW

DATE: #####

LAYFIELD GEOMEMBRANE VACUUM / AIR LANCE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

VACUUM BOX X **AIR LANCE** **SHEET NUMBER:** 4

SEAMS								REPAIRS					
SEAM NUMBER	SEAM SECTION * FROM - TO	TEST DATE	TECH ID	DEFECTS **	COMPLETE NO YES	CHK'D BY	REMARKS **	DEFECT CODE	TEST DATE	TECH ID	DEFECTS **	CHK'D BY	REMARKS **
/	-							4 A	23-Jul-14	JB		TW	T-WELD
/	-							4 B	23-Jul-14	JB		TW	T-WELD
/	-							4 C	23-Jul-14	JB		TW	T-WELD
/	-							4 D	23-Jul-14	JB		TW	T-WELD
/	-							4 E	23-Jul-14	JB		TW	T-WELD
/	-							4 F	23-Jul-14	JB		TW	T-WELD
/	-							4 G	23-Jul-14	JB		TW	T-WELD
/	-							4 H	23-Jul-14	JB		TW	T-WELD
/	-							4 I	23-Jul-14	JB		TW	T-WELD
/	-							4 J	23-Jul-14	JB		TW	T-WELD
/	-							4 K	23-Jul-14	JB		TW	T-WELD
/	-							4 L	23-Jul-14	JB		TW	T-WELD
/	-							4 M	23-Jul-14	JB		TW	T-WELD
/	-							4 N	23-Jul-14	JB		TW	T-WELD
/	-							4 O	23-Jul-14	JB		TW	T-WELD
/	-							4 P	23-Jul-14	JB		TW	T-WELD
/	-							4 Q	24-Jul-14	JB		TW	T-WELD
/	-							4 R	24-Jul-14	JB		TW	T-WELD
/	-							4 S	24-Jul-14	JB		TW	T-WELD
/	-							4 T	24-Jul-14	JB		TW	T-WELD

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER. OR A POINT LOCATION ON THE SEAM

** RECORD QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS

SUBMITTED BY: TW

DATE: #####

LAYFIELD GEOMEMBRANE VACUUM / AIR LANCE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

VACUUM BOX X **AIR LANCE** **SHEET NUMBER:** 1

SEAMS								REPAIRS					
SEAM NUMBER	SEAM SECTION * FROM - TO	TEST DATE	TECH ID	DEFECTS **	COMPLETE NO YES	CHK'D BY	REMARKS **	DEFECT CODE	TEST DATE	TECH ID	DEFECTS **	CHK'D BY	REMARKS **
/	-							5 A	24-Jul-14	JB		TW	T-WELD
/	-							5 B	24-Jul-14	JB		TW	T-WELD
/	-							5 C	24-Jul-14	JB		TW	T-WELD
/	-							5 D	24-Jul-14	JB		TW	T-WELD
/	-							5 E	24-Jul-14	JB		TW	T-WELD
/	-							5 F	24-Jul-14	JB		TW	T-WELD
/	-							5 G	24-Jul-14	JB		TW	T-WELD
/	-							5 H	24-Jul-14	JB		TW	T-WELD
/	-							5 I	25-Jul-14	JB		TW	T-WELD
/	-							5 J	25-Jul-14	JB		TW	T-WELD
/	-							5 K	25-Jul-14	JB		TW	T-WELD
/	-							5 L	25-Jul-14	JB		TW	2m PATCH
/	-							5 M	25-Jul-14	JB		TW	2' PATCH
/	-							5 N	25-Jul-14	JB		TW	T-WELD
/	-							5 O	25-Jul-14	JB		TW	T-WELD
/	-							5 P	25-Jul-14	JB		TW	T-WELD
/	-							5 Q	29-Jul-14	JB		TW	2' PATCH
/	-							5 R	29-Jul-14	JB		TW	2' PATCH
/	-							5 S	29-Jul-14	JB		TW	3' PATCH
/	-							5 T	29-Jul-14	JB		TW	2' PATCH

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER. OR A POINT LOCATION ON THE SEAM

** RECORD QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS

SUBMITTED BY: TW

DATE: #####

LAYFIELD GEOMEMBRANE VACUUM / AIR LANCE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

VACUUM BOX X **AIR LANCE** **SHEET NUMBER:** 6

SEAMS								REPAIRS					
SEAM NUMBER	SEAM SECTION * FROM - TO	TEST DATE	TECH ID	DEFECTS **	COMPLETE NO YES	CHK'D BY	REMARKS **	DEFECT CODE	TEST DATE	TECH ID	DEFECTS **	CHK'D BY	REMARKS **
/	-							6 A	29-Jul-14	JB		TW	T-WELD
/	-							6 B	29-Jul-14	JB		TW	T-WELD
/	-							6 C	29-Jul-14	JB		TW	T-WELD
/	-							6 D	29-Jul-14	JB		TW	3' PATCH
/	-							6 E	29-Jul-14	JB		TW	2' PATCH
/	-							6 F	29-Jul-14	JB		TW	2' PATCH
/	-							6 G	29-Jul-14	JB		TW	T-WELD
/	-							6 H					
/	-							6 I					
/	-							6 J					
/	-							6 K					
/	-							6 L					
/	-							6 M					
/	-							6 N					
/	-							6 O					
/	-							6 P					
/	-							6 Q					
/	-							6 R					
/	-							6 S					
/	-							6 T					

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER. OR A POINT LOCATION ON THE SEAM

** RECORD QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS

SUBMITTED BY: TW

DATE: #####

GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

DATE: 15-Jul-14

SHEET NUMBER: 1

SEAM NUMBER	SEAM SECTION * FROM - TO	TECH. ID	PRESSURE PSI Start : Finish	TIME START	TIME FINISH	RESULTS PASS	RESULTS FAIL	SEAM COMPLETE NO	SEAM COMPLETE YES	CH'KD BY	REMARKS **
P1 / P2	EEOS - WEOS	TW	40 : 40	14:35	14:40	PASS			YES	TW	
P2 / P3	EEOS - WEOS	TW	40 : 40	14:35	14:40	PASS			YES	TW	
P3 / P4	EEOS - WEOS	TW	40 : 40	14:35	14:40	PASS			YES	TW	
P4 / P5	EEOS - WEOS	TW	40 : 40	14:35	14:40	PASS			YES	TW	
/	-		:								
/	-		:								
/	-		:								
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* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT ON THE SEAM.

** RECORD ANY QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS.

DATE:

SUBMITTED BY:

LAYFIELD GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

DATE: 16-Jul-14

SHEET NUMBER: 2A

SEAM NUMBER	SEAM SECTION * FROM	SEAM SECTION * TO	TECH. ID	PRESSURE PSI Start	PRESSURE PSI Finish	TIME START	TIME FINISH	RESULTS PASS	RESULTS FAIL	SEAM COMPLETE NO	SEAM COMPLETE YES	CH'KD BY	REMARKS **
P1 / P10	WEOS	EEOS	TW	40	40	7:50	7:55	PASS			YES	TW	
P9 / P10	NEOS	SEOS	TW	40	40	7:50	7:55	PASS			YES	TW	
P1 / P9	EEOS	WEOS	TW	40	40	7:50	7:55	PASS			YES	TW	
P8 / P9	NEOS	SEOS	TW	40	40	8:10	8:15	PASS			YES	TW	
P1 / P8	EEOS	WEOS	TW	40	40	8:10	8:15	PASS			YES	TW	
P6 / P8	NEOS	SEOS	TW	40	40	8:10	8:15	PASS			YES	TW	
P1 / P6	EEOS	WEOS	TW	40	40	8:10	8:15	PASS			YES	TW	
P6 / P8	SEOS	NEOS	TW	40	40	1:09	1:14	PASS			YES	TW	
P6 / P7	EEOS	WEOS	TW	40	40	1:09	1:14	PASS			YES	TW	
P7 / P8	NEOS	SEOS	TW	40	40	1:09	1:14	PASS			YES	TW	
P5 / P11	EEOS	WEOS	TW	40	40	1:25	1:30	PASS			YES	TW	
P11 / P12	EEOS	WEOS	TW	40	40	1:25	1:30	PASS			YES	TW	
P12 / P13	EEOS	WEOS	TW	40	40	1:25	1:30	PASS			YES	TW	
P13 / P14	EEOS	WEOS	TW	40	40	1:25	1:30	PASS			YES	TW	
P14 / P15	EEOS	WEOS	TW	40	40	1:25	1:30	PASS			YES	TW	
P15 / P16	EEOS	WEOS	TW	40	40	3:30	3:35	PASS			YES	TW	
P16 / P17	SEOS	NEOS	TW	40	40	3:30	3:35	PASS			YES	TW	

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT ON THE SEAM.

** RECORD ANY QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS.

DATE: 16-Jul

SUBMITTED BY: TW

LAYFIELD GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

DATE: 16-Jul-14

SHEET NUMBER: 2B

SEAM NUMBER	SEAM SECTION * FROM	TO	TECH. ID	PRESSURE PSI Start	Finish	TIME START	FINISH	RESULTS PASS	FAIL	SEAM COMPLETE NO	YES	CH'KD BY	REMARKS **
P15 / P17	WEOS	EEOS	TW	40	40	3:30	3:35	PASS			YES	TW	
P17 / P18	SEOS	NEOS	TW	40	40	3:30	3:35	PASS			YES	TW	
P15 / P18	WEOS	EEOS	TW	40	40	3:40	3:45	PASS			YES	TW	
P18 / P19	SEOS	NEOS	TW	40	40	3:40	3:45	PASS			YES	TW	
P15 / P19	WEOS	EEOS	TW	40	40	3:40	3:45	PASS			YES	TW	
P19 / P20	SEOS	NEOS	TW	40	40	3:40	3:45	PASS			YES	TW	
P15 / P20	WEOS	EEOS	TW	40	40	3:47	3:52	PASS			YES	TW	
P20 / P21	SEOS	NEOS	TW	40	40	3:47	3:52	PASS			YES	TW	
P15 / P21	WEOS	EEOS	TW	40	40	3:47	3:52	PASS			YES	TW	
/		-			:								
/		-			:								
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* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT ON THE SEAM.

** RECORD ANY QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS.

DATE: 16-Jul

SUBMITTED BY: TW

LAYFIELD GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

DATE: 23-Jul-14

SHEET NUMBER: 3A

SEAM NUMBER	SEAM SECTION * FROM	TO	TECH. ID	PRESSURE PSI Start	Finish	TIME START	FINISH	RESULTS PASS	FAIL	SEAM COMPLETE NO	YES	CH'KD BY	REMARKS **
P24 / P25	WEOS	EEOS	TW	40	40	8:00	8:05	PASS			YES	TW	
P24 / P26	EEOS	WEOS	TW	40	40	8:00	8:05	PASS			YES	TW	
P25 / P26	SEOS	NEOS	TW	40	40	8:00	8:05	PASS			YES	TW	
P25 / P27	EEOS	WEOS	TW	40	40	8:06	8:11	PASS			YES	TW	
P26 / P27	WEOS	EEOS	TW	40	40	8:06	8:11	PASS			YES	TW	
P22 / P23	NEEOS	SWEOS	TW	40	40	8:10	8:15	PASS			YES	TW	
P23 / P24	EEOS	WEOS	TW	40	40	8:10	8:15	PASS			YES	TW	
P22 / P24	WEOS	EEOS	TW	40	40	8:10	8:15	PASS			YES	TW	
P27 / P28	EEOS	WEOS	TW	40	40	8:20	8:25	PASS			YES	TW	
P27 / P29	WEOS	EEOS	TW	40	40	8:20	8:25	PASS			YES	TW	
P28 / P29	SEOS	NEOS	TW	40	40	8:20	8:25	PASS			YES	TW	
P29 / P30	WEOS	EEOS	TW	40	40	8:20	8:25	PASS			YES	TW	
P28 / P30	EEOS	WEOS	TW	40	40	8:20	8:25	PASS			YES	TW	
P29 / P31	WEOS	EEOS	TW	40	40	8:30	8:35	PASS			YES	TW	
P30 / P31	SEOS	NEOS	TW	40	40	8:30	8:35	PASS			YES	TW	
P31 / P32	WEOS	EEOS	TW	40	40	8:30	8:35	PASS			YES	TW	
P30 / P32	EEOS	WEOS	TW	40	40	8:30	8:35	PASS			YES	TW	

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT ON THE SEAM.

** RECORD ANY QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS.

DATE: 23-Jul

SUBMITTED BY: TW

LAYFIELD GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

DATE: 23-Jul-14

SHEET NUMBER: 3B

SEAM NUMBER	SEAM SECTION * FROM	SEAM SECTION * TO	TECH. ID	PRESSURE PSI Start	PRESSURE PSI Finish	TIME START	TIME FINISH	RESULTS PASS	RESULTS FAIL	SEAM COMPLETE NO	SEAM COMPLETE YES	CH'KD BY	REMARKS **
P32 / P33	EEOS	WEOS	TW	40	40	8:40	8:45	PASS			YES	TW	
P32 / P34	WEOS	EEOS	TW	40	40	8:40	8:45	PASS			YES	TW	
P33 / P34	SEOS	NEOS	TW	40	40	8:40	8:45	PASS			YES	TW	
P33 / P35	EEOS	WEOS	TW	40	40	8:40	8:45	PASS			YES	TW	
P33 / P36	WEOS	EEOS	TW	40	40	8:40	8:45	PASS			YES	TW	
P35 / P36	SEOS	NEOS	TW	40	40	8:55	9:00	PASS			YES	TW	
P34 / P36	WEOS	EEOS	TW	40	40	8:55	9:00	PASS			YES	TW	
P35 / P39	WEOS	EEOS	TW	40	40	9:00	9:05	PASS			YES	TW	
P35 / P38	EEOS	WEOS	TW	40	40	9:00	9:05	PASS			YES	TW	
P38 / P39	SEOS	NEOS	TW	40	40	9:00	9:05	PASS			YES	TW	
P37 / P38	SEOS	NEOS	TW	40	40	9:05	9:10	PASS			YES	TW	
P35 / P37	EEOS	WEOS	TW	40	40	9:05	9:10	PASS			YES	TW	
P37 / P15	SEOS	NEOS	TW	40	40	9:27	9:32	PASS			YES	TW	
P35 / P15	NEOS	SEOS	TW	40	40	9:27	9:32	PASS			YES	TW	
P35 / P14	SEOS	NEOS	TW	40	40	9:27	9:32	PASS			YES	TW	
P33 / P14	NEOS	SEOS	TW	40	40	9:27	9:32	PASS			YES	TW	
P33 / P13	SEOS	NEOS	TW	40	40	9:30	9:35	PASS			YES	TW	

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT ON THE SEAM.

** RECORD ANY QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS.

DATE: 23-Jul

SUBMITTED BY: TW

LAYFIELD GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

DATE: 23-Jul-14

SHEET NUMBER: 3C

SEAM NUMBER	SEAM SECTION * FROM	TO	TECH. ID	PRESSURE PSI Start	Finish	TIME START	FINISH	RESULTS PASS	FAIL	SEAM COMPLETE NO	YES	CH'KD BY	REMARKS **
P32 / P13	NEOS	SEOS	TW	40	40	9:30	9:35	PASS			YES	TW	
P32 / P12	SEOS	NEOS	TW	40	40	9:30	9:35	PASS			YES	TW	
P30 / P12	NEOS	SEOS	TW	40	40	9:30	9:35	PASS			YES	TW	
P30 / P11	SEOS	NEOS	TW	40	40	9:45	9:50	PASS			YES	TW	
P28 / P11	NEOS	SEOS	TW	40	40	9:45	9:50	PASS			YES	TW	
P28 / P5	SEOS	NEOS	TW	40	40	9:45	9:50	PASS			YES	TW	
P27 / P5	NEOS	SEOS	TW	40	40	9:45	9:50	PASS			YES	TW	
P27 / P4	SEOS	NEOS	TW	40	40	9:50	9:55	PASS			YES	TW	
P25 / P4	NEOS	SEOS	TW	40	40	9:50	9:55	PASS			YES	TW	
P24 / P3	SEOS	NEOS	TW	40	40	9:55	10:00	PASS			YES	TW	
P24 / P2	NEOS	SEOS	TW	40	40	9:55	10:00	PASS			YES	TW	
P23 / P2	SEOS	NEOS	TW	40	40	9:55	10:00	PASS			YES	TW	
P23 / P1	NEOS	SEOS	TW	40	40	10:00	10:05	PASS			YES	TW	
P22 / P1	SEOS	NEOS	TW	40	40	10:00	10:05	PASS			YES	TW	
P10 / P1	EEOS	WEOS	TW	40	40	5:00	5:05	PASS			YES	TW	
P40 / P1	NEOS	SEOS	TW	40	40	5:00	5:05	PASS			YES	TW	
P40 / P22	WEOS	EEOS	TW	40	40	5:00	5:05	PASS			YES	TW	

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT ON THE SEAM.

** RECORD ANY QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS.

DATE:

SUBMITTED BY:

LAYFIELD GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

DATE: 23-Jul-14

SHEET NUMBER: 3D

SEAM NUMBER	SEAM SECTION * FROM	SEAM SECTION * TO	TECH. ID	PRESSURE PSI Start	PRESSURE PSI Finish	TIME START	TIME FINISH	RESULTS PASS	RESULTS FAIL	SEAM COMPLETE NO	SEAM COMPLETE YES	CH'KD BY	REMARKS **
P40 / P41	NEOS	SEOS	TW	40	40	5:00	5:05	PASS			YES	TW	
P41 / P22	EEOS	WEOS	TW	40	40	5:02	5:07	PASS			YES	TW	
P41 / P42	NEOS	SEOS	TW	40	40	5:02	5:07	PASS			YES	TW	
P42 / P22	WEOS	EEOS	TW	40	40	5:02	5:07	PASS			YES	TW	
P42 / P43	NEOS	SEOS	TW	40	40	5:10	5:15	PASS			YES	TW	
P43 / P22	EEOS	WEOS	TW	40	40	5:10	5:15	PASS			YES	TW	
P43 / P44	NEOS	SEOS	TW	40	40	5:10	5:15	PASS			YES	TW	
P44 / P22	WEOS	EEOS	TW	40	40	5:10	5:15	PASS			YES	TW	
P44 / P45	NEOS	SEOS	TW	40	40	5:15	5:20	PASS			YES	TW	
P45 / P46	NEOS	SEOS	TW	40	40	5:15	5:20	PASS			YES	TW	
P46 / P24	EEOS	WEOS	TW	40	40	5:17	5:22	PASS			YES	TW	
P46 / P47	NEOS	SEOS	TW	40	40	5:17	5:22	PASS			YES	TW	
P47 / P24	WEOS	EEOS	TW	40	40	5:17	5:22	PASS			YES	TW	
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* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT ON THE SEAM.

** RECORD ANY QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS.

DATE: 23-Jul

SUBMITTED BY: TW

LAYFIELD GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

DATE: 24-Jul-14

SHEET NUMBER: 4

SEAM NUMBER	SEAM SECTION * FROM	SEAM SECTION * TO	TECH. ID	PRESSURE PSI Start	PRESSURE PSI Finish	TIME START	TIME FINISH	RESULTS PASS	RESULTS FAIL	SEAM COMPLETE NO	SEAM COMPLETE YES	CH'KD BY	REMARKS **
P47 / P48	NEOS	SEOS	TW	40	40	7:00	7:05	PASS			YES	TW	
P48 / P24	EEOS	WEOS	TW	40	40	7:00	7:05	PASS			YES	TW	
P48 / P49	NEOS	SEOS	TW	40	40	7:00	7:05	PASS			YES	TW	
P49 / P24	WEOS	EEOS	TW	40	40	7:00	7:05	PASS			YES	TW	
P49 / P50	NEOS	SEOS	TW	40	40	7:07	7:12	PASS			YES	TW	
P50 / P24	EEOS	WEOS	TW	40	40	7:07	7:12	PASS			YES	TW	
P50 / P51	NEOS	SEOS	TW	40	40	7:07	7:12	PASS			YES	TW	
P51 / P24	WEOS	EEOS	TW	40	40	7:07	7:12	PASS			YES	TW	
P51 / P52	NEOS	SEOS	TW	40	40	7:20	7:25	PASS			YES	TW	
P52 / P24	EEOS	WEOS	TW	40	40	7:20	7:25	PASS			YES	TW	
P52 / P53	NEOS	SEOS	TW	40	40	7:20	7:25	PASS			YES	TW	
P53 / P24	WEOS	EEOS	TW	40	40	7:20	7:25	PASS			YES	TW	
P53 / P54	NEOS	SEOS	TW	40	40	7:30	7:35	PASS			YES	TW	
P54 / P24	EEOS	WEOS	TW	40	40	7:30	7:35	PASS			YES	TW	
P55 / P24	WEOS	EEOS	TW	40	40	7:30	7:35	PASS			YES	TW	
/													
/													

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT ON THE SEAM.

** RECORD ANY QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS.

DATE: 24-Jul

SUBMITTED BY: TW

LAYFIELD GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

DATE: 25-Jul-14

SHEET NUMBER: 5A

SEAM NUMBER	SEAM SECTION * FROM	SEAM SECTION * TO	TECH. ID	PRESSURE PSI Start	PRESSURE PSI Finish	TIME START	TIME FINISH	RESULTS PASS	RESULTS FAIL	SEAM COMPLETE NO	SEAM COMPLETE YES	CH'KD BY	REMARKS **
P74 / P36	WEOS	EEOS	TW	40	40	7:30	7:35	PASS			YES	TW	
P73 / P74	SEOS	NEOS	TW	40	40	7:30	7:35	PASS			YES	TW	
P73 / P36	EEOS	WEOS	TW	40	40	7:30	7:35	PASS			YES	TW	
P72 / P73	SEOS	NEOS	TW	40	40	7:30	7:35	PASS			YES	TW	
P72 / P36	WEOS	EEOS	TW	40	40	7:40	7:45	PASS			YES	TW	
P71 / P72	SEOS	NEOS	TW	40	40	7:40	7:45	PASS			YES	TW	
P71 / P36	EEOS	WEOS	TW	40	40	7:40	7:45	PASS			YES	TW	
P70 / P71	SEOS	NEOS	TW	40	40	7:40	7:45	PASS			YES	TW	
P70 / P36	WEOS	EEOS	TW	40	40	7:48	7:53	PASS			YES	TW	
P69 / P70	SEOS	NEOS	TW	40	40	7:48	7:53	PASS			YES	TW	
P69 / P36	EEOS	WEOS	TW	40	40	7:48	7:53	PASS			YES	TW	
P68 / P69	SEOS	NEOS	TW	40	40	7:48	7:53	PASS			YES	TW	
P68 / P36	WEOS	EEOS	TW	40	40	7:55	8:00	PASS			YES	TW	
P67 / P68	SEOS	NEOS	TW	40	40	7:55	8:00	PASS			YES	TW	
P67 / P36	EEOS	WEOS	TW	40	40	7:55	8:00	PASS			YES	TW	
P66 / P67	SEOS	NEOS	TW	40	40	7:55	8:00	PASS			YES	TW	
P66 / P36	WEOS	EEOS	TW	40	40	8:05	8:10	PASS			YES	TW	

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT ON THE SEAM.

** RECORD ANY QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS.

DATE: 25-Jul

SUBMITTED BY: TW

LAYFIELD GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

DATE: 25-Jul-14

SHEET NUMBER: 5B

SEAM NUMBER	SEAM SECTION * FROM	SEAM SECTION * TO	TECH. ID	PRESSURE PSI Start	PRESSURE PSI Finish	TIME START	TIME FINISH	RESULTS PASS	RESULTS FAIL	SEAM COMPLETE NO	SEAM COMPLETE YES	CH'KD BY	REMARKS **
P65 / P66	SEOS	NEOS	TW	40	40	8:05	8:10	PASS			YES	TW	
P65 / P36	WEOS	EEOS	TW	40	40	8:05	8:10	PASS			YES	TW	
P65 / P39	EEOS	WEOS	TW	40	40	8:05	8:10	PASS			YES	TW	
P64 / P65	SEOS	NEOS	TW	40	40	8:15	8:20	PASS			YES	TW	
P64 / P39	WEOS	EEOS	TW	40	40	8:15	8:20	PASS			YES	TW	
P63 / P64	SEOS	NEOS	TW	40	40	8:15	8:20	PASS			YES	TW	
P63 / P39	EEOS	WEOS	TW	40	40	8:15	8:20	PASS			YES	TW	
P62 / P63	SEOS	NEOS	TW	40	40	8:20	8:25	PASS			YES	TW	
P62 / P39	WEOS	EEOS	TW	40	40	8:20	8:25	PASS			YES	TW	
P62 / P38	EEOS	WEOS	TW	40	40	8:20	8:25	PASS			YES	TW	
P61 / P62	SEOS	NEOS	TW	40	40	8:20	8:25	PASS			YES	TW	
P61 / P38	WEOS	EEOS	TW	40	40	8:30	8:35	PASS			YES	TW	
P60 / P61	SEOS	NEOS	TW	40	40	8:30	8:35	PASS			YES	TW	
P59 / P60	SEOS	NEOS	TW	40	40	8:30	8:35	PASS			YES	TW	
P59 / P56	EEOS	WEOS	TW	40	40	8:30	8:35	PASS			YES	TW	
P56 / P38	EEOS	WEOS	TW	40	40	8:35	8:40	PASS			YES	TW	
P58 / P59	SEOS	NEOS	TW	40	40	8:35	8:40	PASS			YES	TW	

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT ON THE SEAM.

** RECORD ANY QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS.

DATE: 25-Jul

SUBMITTED BY: TW

LAYFIELD GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

DATE: 25-Jul-14

SHEET NUMBER: 5C

SEAM NUMBER	SEAM SECTION * FROM	SEAM SECTION * TO	TECH. ID	PRESSURE PSI Start	PRESSURE PSI Finish	TIME START	TIME FINISH	RESULTS PASS	RESULTS FAIL	SEAM COMPLETE NO	SEAM COMPLETE YES	CH'KD BY	REMARKS **
P58 / P37	WEOS	EEOS	TW	40	40	8:35	8:40	PASS			YES	TW	
P57 / P58	SEOS	NEOS	TW	40	40	8:35	8:40	PASS			YES	TW	
P57 / P37	EEOS	WEOS	TW	40	40	8:35	8:40	PASS			YES	TW	
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* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT ON THE SEAM.

** RECORD ANY QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS.

DATE: 25-Jul

SUBMITTED BY: TW

LAYFIELD GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project

OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**

LOCATION: Land Farm

DATE: 29-Jul-14

SHEET NUMBER: 6

SEAM NUMBER	SEAM SECTION * FROM	TO	TECH. ID	PRESSURE PSI Start	Finish	TIME START	FINISH	RESULTS PASS	FAIL	SEAM COMPLETE NO	YES	CH'KD BY	REMARKS **
P74 / P75	SEOS -	NEOS	JB	40 :	40	8:00	8:05	PASS			YES	TW	
P75 / P76	EEOS -	WEOS	JB	40 :	40	8:00	8:05	PASS			YES	TW	
P76 / P32	NEOS -	SEOS	JB	40 :	40	8:13	8:17	PASS			YES	TW	
P76 P77	WEOS -	EEOS	JB	40 :	40	8:15	8:20	PASS			YES	TW	
P77 / P31	NEOS -	SEOS	JB	40 :	40	8:15	8:20	PASS			YES	TW	
P77 / P78	WEOS -	EEOS	JB	40 :	40	8:25	8:30	PASS			YES	TW	
P78 P29	NEOS -	SEOS	JB	40 :	40	8:25	8:30	PASS			YES	TW	
P78 / P79	WEOS -	EEOS	JB	40 :	40	8:28	8:33	PASS			YES	TW	
P79 / P27	NEOS -	SEOS	JB	40 :	40	8:28	8:33	PASS			YES	TW	
P79 / P80	WEOS -	EEOS	JB	40 :	40	8:30	8:35	PASS			YES	TW	
P80 / P26	NEOS -	SEOS	JB	40 :	40	8:30	8:35	PASS			YES	TW	
P80 P81	WEOS -	EEOS	JB	40 :	40	8:50	8:55	PASS			YES	TW	
P81 / P55	WEOS -	EEOS	JB	40 :	40	8:50	8:55	PASS			YES	TW	
P82 / P55	NEOS -	SEOS	JB	40 :	40	8:50	8:55	PASS			YES	TW	
/	-			:									
/	-			:									
/	-			:									

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT ON THE SEAM.

** RECORD ANY QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS.

DATE: 30-Jul

SUBMITTED BY: TW

GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**
LOCATION: Land Farm **SHEET NUMBER:** 1

DESTRUCTIVE TEST NUMBER*: DT-1 **TEST DATE:** 15-Jul-14
SEAM NUMBER: P4-P5 **ARCHIVE _____ LAYFIELD _____ OWNER _____ ENGINEER**
SAMPLE LOCATION: End of WEOS **3RD PARTY _____ YES _____ NO_____ WHO?**
DATE SEAMED / SAMPLED: 15-Jul-14 - **DATE FORWARDED TO LAB _____**
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D _____**

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
				INSIDE SEAM		OUTSIDE SEAM	
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	118	ES-1	2	106	ES-1	101	ES-1
3	112	ES-1	4	106	ES-1	100	ES-1
5	118	ES-1	6	104	ES-1	108	ES-1
7	117	ES-1	8	106	ES-1	98	ES-1
9	115	ES-1	10	107	ES-1	103	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS X FAIL

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW

DATE: 15-Jul-14

GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**
LOCATION: Land Farm **SHEET NUMBER:** 2

DESTRUCTIVE TEST NUMBER*: DT-2 **TEST DATE:** 17-Jul-14
SEAM NUMBER: P11-P12 **ARCHIVE _____ LAYFIELD _____ OWNER _____ ENGINEER**
SAMPLE LOCATION: End of WEOS **3RD PARTY _____ YES _____ NO_____ WHO?**
DATE SEAMED / SAMPLED: 16-Jul-14 - **DATE FORWARDED TO LAB _____**
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D _____**

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
				INSIDE SEAM		OUTSIDE SEAM	
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	133	ES-1	2	112	ES-1	106	ES-1
3	131	ES-1	4	11	ES-1	107	ES-1
5	137	ES-1	6	96	ES-1	110	ES-1
7	134	ES-1	8	111	ES-1	108	ES-1
9	136	ES-1	10	104	ES-1	106	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS X FAIL

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW
DATE: 17-Jul-14

GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**
LOCATION: Land Farm **SHEET NUMBER:** 3

DESTRUCTIVE TEST NUMBER*: DT-3 **TEST DATE:** 17-Jul-14
SEAM NUMBER: P20-P21 **ARCHIVE _____ LAYFIELD _____ OWNER _____ ENGINEER**
SAMPLE LOCATION: End of NEOS **3RD PARTY _____ YES _____ NO_____ WHO?**
DATE SEAMED / SAMPLED: 16-Jul-14 - **DATE FORWARDED TO LAB _____**
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D _____**

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
				INSIDE SEAM		OUTSIDE SEAM	
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	137	ES-1	2	105	ES-1	104	ES-1
3	133	ES-1	4	105	ES-1	107	ES-1
5	132	ES-1	6	105	ES-1	103	ES-1
7	132	ES-1	8	105	ES-1	101	ES-1
9	128	ES-1	10	103	ES-1	102	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS X FAIL

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW
DATE: 17-Jul-14

GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**
LOCATION: Land Farm **SHEET NUMBER:** 4

DESTRUCTIVE TEST NUMBER*: DT-4 **TEST DATE:** 23-Jul-14
SEAM NUMBER: P24-P25 **ARCHIVE _____ LAYFIELD _____ OWNER _____ ENGINEER**
SAMPLE LOCATION: End of WEOS **3RD PARTY _____ YES _____ NO_____ WHO?**
DATE SEAMED / SAMPLED: 22-Jul-14 - **DATE FORWARDED TO LAB _____**
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D _____**

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
				INSIDE SEAM		OUTSIDE SEAM	
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	114	ES-1	2	100	ES-1	96	ES-1
3	116	ES-1	4	100	ES-1	94	ES-1
5	120	ES-1	6	100	ES-1	90	ES-1
7	117	ES-1	8	100	ES-1	98	ES-1
9	122	ES-1	10	101	ES-1	96	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS X FAIL

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW
DATE: 23-Jul-14

GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**
LOCATION: Land Farm **SHEET NUMBER:** 5

DESTRUCTIVE TEST NUMBER*: DT-5 **TEST DATE:** 23-Jul-14
SEAM NUMBER: P28-P30 **ARCHIVE _____ LAYFIELD _____ OWNER _____ ENGINEER**
SAMPLE LOCATION: End of WEOS **3RD PARTY _____ YES _____ NO_____ WHO?**
DATE SEAMED / SAMPLED: 22-Jul-14 - **DATE FORWARDED TO LAB _____**
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D _____**

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
				INSIDE SEAM		OUTSIDE SEAM	
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	120	ES-1	2	115	ES-1	99	ES-1
3	126	ES-1	4	116	ES-1	100	ES-1
5	122	ES-1	6	109	ES-1	105	ES-1
7	124	ES-1	8	110	ES-1	105	ES-1
9	119	ES-1	10	110	ES-1	103	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS X FAIL

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW
DATE: 23-Jul-14

GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**
LOCATION: Land Farm **SHEET NUMBER:** 6

DESTRUCTIVE TEST NUMBER*: DT-6 **TEST DATE:** 23-Jul-14
SEAM NUMBER: P32-P33 **ARCHIVE _____ LAYFIELD _____ OWNER _____ ENGINEER**
SAMPLE LOCATION: End of WEOS **3RD PARTY _____ YES _____ NO_____ WHO?**
DATE SEAMED / SAMPLED: 22-Jul-14 - **DATE FORWARDED TO LAB _____**
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D _____**

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
				INSIDE SEAM		OUTSIDE SEAM	
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	117	ES-1	2	117	ES-1	116	ES-1
3	120	ES-1	4	118	ES-1	115	ES-1
5	118	ES-1	6	111	ES-1	112	ES-1
7	118	ES-1	8	114	ES-1	113	ES-1
9	122	ES-1	10	111	ES-1	109	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS X FAIL

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW
DATE: 23-Jul-14

GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**
LOCATION: Land Farm **SHEET NUMBER:** 7

DESTRUCTIVE TEST NUMBER*: DT-7 **TEST DATE:** 23-Jul-14
SEAM NUMBER: P33-P35 **ARCHIVE _____ LAYFIELD _____ OWNER _____ ENGINEER**
SAMPLE LOCATION: End of WEOS **3RD PARTY _____ YES _____ NO_____ WHO?**
DATE SEAMED / SAMPLED: 22-Jul-14 - **DATE FORWARDED TO LAB _____**
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D _____**

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
				INSIDE SEAM		OUTSIDE SEAM	
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	121	ES-1	2	111	ES-1	110	ES-1
3	122	ES-1	4	109	ES-1	110	ES-1
5	125	ES-1	6	103	ES-1	105	ES-1
7	119	ES-1	8	105	ES-1	107	ES-1
9	120	ES-1	10	107	ES-1	105	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS X FAIL

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW

DATE: 23-Jul-14

GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**
LOCATION: Land Farm **SHEET NUMBER:** 8

DESTRUCTIVE TEST NUMBER*: DT-8 **TEST DATE:** 23-Jul-14
SEAM NUMBER: P37-P15 **ARCHIVE _____ LAYFIELD _____ OWNER _____ ENGINEER**
SAMPLE LOCATION: End of NEOS **3RD PARTY _____ YES _____ NO_____ WHO?**
DATE SEAMED / SAMPLED: 22-Jul-14 - **DATE FORWARDED TO LAB _____**
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D _____**

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
				INSIDE SEAM		OUTSIDE SEAM	
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	117	ES-1	2	105	ES-1	104	ES-1
3	118	ES-1	4	106	ES-1	105	ES-1
5	119	ES-1	6	101	ES-1	104	ES-1
7	121	ES-1	8	102	ES-1	106	ES-1
9	120	ES-1	10	110	ES-1	103	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS X FAIL

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW

DATE: 23-Jul-14

GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**
LOCATION: Land Farm **SHEET NUMBER:** 9

DESTRUCTIVE TEST NUMBER*: DT-9 **TEST DATE:** 26-Jul-14
SEAM NUMBER: P52-P53 **ARCHIVE _____ LAYFIELD _____ OWNER _____ ENGINEER**
SAMPLE LOCATION: End of NEOS **3RD PARTY _____ YES _____ NO_____ WHO?**
DATE SEAMED / SAMPLED: 23-Jul-14 - **DATE FORWARDED TO LAB _____**
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D _____**

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
				INSIDE SEAM		OUTSIDE SEAM	
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	122	ES-1	2	116	ES-1	117	ES-1
3	118	ES-1	4	110	ES-1	109	ES-1
5	124	ES-1	6	114	ES-1	101	ES-1
7	121	ES-1	8	114	ES-1	100	ES-1
9	120	ES-1	10	114	ES-1	100	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS X FAIL

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW
DATE: 26-Jul-14

GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**
LOCATION: Land Farm **SHEET NUMBER:** 9

DESTRUCTIVE TEST NUMBER*: DT-10 **TEST DATE:** 26-Jul-14
SEAM NUMBER: P57-P58 **ARCHIVE _____ LAYFIELD _____ OWNER _____ ENGINEER**
SAMPLE LOCATION: End of NEOS **3RD PARTY _____ YES _____ NO_____ WHO?**
DATE SEAMED / SAMPLED: 24-Jul-14 - **DATE FORWARDED TO LAB _____**
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D _____**

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
				INSIDE SEAM		OUTSIDE SEAM	
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	118	ES-1	2	111	ES-1	107	ES-1
3	122	ES-1	4	109	ES-1	103	ES-1
5	119	ES-1	6	105	ES-1	110	ES-1
7	121	ES-1	8	112	ES-1	109	ES-1
9	123	ES-1	10	110	ES-1	108	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS X FAIL

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW
DATE: 26-Jul-14

GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**
LOCATION: Land Farm **SHEET NUMBER:** 9

DESTRUCTIVE TEST NUMBER*: DT-11 **TEST DATE:** 26-Jul-14
SEAM NUMBER: P66- P67 **ARCHIVE _____ LAYFIELD _____ OWNER _____ ENGINEER**
SAMPLE LOCATION: End of NEOS **3RD PARTY _____ YES _____ NO_____ WHO?**
DATE SEAMED / SAMPLED: 24-Jul-14 - **DATE FORWARDED TO LAB _____**
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D _____**

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
				INSIDE SEAM		OUTSIDE SEAM	
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	116	ES-1	2	108	ES-1	100	ES-1
3	122	ES-1	4	102	ES-1	104	ES-1
5	117	ES-1	6	114	ES-1	107	ES-1
7	119	ES-1	8	104	ES-1	103	ES-1
9	121	ES-1	10	101	ES-1	102	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS X FAIL

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW
DATE: 26-Jul-14

LAYFIELD ENVIRONMENTAL SYSTEMS

GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**
LOCATION: Land Farm **SHEET NUMBER:** 12

DESTRUCTIVE TEST NUMBER*: DT-12 **TEST DATE:** 26-Jul-14
SEAM NUMBER: P74-P34 **ARCHIVE _____ LAYFIELD _____ OWNER _____ ENGINEER**
SAMPLE LOCATION: Start of seam **3RD PARTY _____ YES _____ NO_____ WHO?**
DATE SEAMED / SAMPLED: 24-Jul-14 **DATE FORWARDED TO LAB _____**
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D _____**

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
				INSIDE SEAM		OUTSIDE SEAM	
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	103	ES-1	2	93	ES-1	89	ES-1
3	104	ES-1	4	95	ES-1	94	ES-1
5	108	ES-1	6	90	ES-1	100	ES-1
7	109	ES-1	8	89	ES-1	94	ES-1
9	109	ES-1	10	103	ES-1	90	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS X FAIL

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW
DATE: 26-Jul-14

LAYFIELD ENVIRONMENTAL SYSTEMS

GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:**
LOCATION: Land Farm **SHEET NUMBER:** 13

DESTRUCTIVE TEST NUMBER*: DT-13 **TEST DATE:** 30-Jul-14
SEAM NUMBER: P81-P24 **ARCHIVE _____ LAYFIELD _____ OWNER _____ ENGINEER**
SAMPLE LOCATION: End of SEOS **3RD PARTY _____ YES _____ NO_____ WHO?**
DATE SEAMED / SAMPLED: 28-Jul-14 **DATE FORWARDED TO LAB _____**
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D _____**

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
				INSIDE SEAM		OUTSIDE SEAM	
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	103	ES-1	2	100	ES-1	102	ES-1
3	108	ES-1	4	98	ES-1	101	ES-1
5	100	ES-1	6	89	ES-1	93	ES-1
7	101	ES-1	8	89	ES-1	94	ES-1
9	107	ES-1	10	87	ES-1	89	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS X FAIL

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW
DATE: 30-Jul-14

LAYFIELD

GEOMEMBRANE DEFECT / REPAIR LOG

PROJECT NUMBER: CT-000071 PROJECT TITLE: Mary River Project

OWNER: Baffinland Iron Mine Corporation CONTRACTOR:

LOCATION: Land Farm SHEET NUMBER: 1

DEFECT CODE	LOG DATE	DEFECT LOCATION		DEFECT TYPE	REPAIR TYPE	WELD TECH.		REPAIR DATE	REMARKS **	TEST DATE	CHECKED BY
		SEAM OR PANEL NO.	DEFECT LOCATION DESCRIPTION								
1 A	15-Jul-14	P1 P9 P10	6.6m EEOS-WEOS	T	G&W	MB		15-Jul-14	T-WELD	16-Jul-14	TW
1 B	15-Jul-14	P1 P8 P9	6.6m WEST OF 1A	T	G&W	MB		15-Jul-14	T-WELD	16-Jul-14	TW
1 C	15-Jul-14	P1 P6 P8	6.6m WETS OF 1B	T	G&W	MB		15-Jul-14	T-WELD	16-Jul-14	TW
1 D	15-Jul-14	P6 / P8	2.5m SOUTH OF 1C	WR	P	MB		15-Jul-14	3' PATCH	16-Jul-14	TW
1 E	15-Jul-14	P6 P7 P8	6.6m SOUTH OF 1C	T	G&W	MB		15-Jul-14	T-WELD	16-Jul-14	TW
1 F	15-Jul-14	P1 /	1m EEOS-WEOS/ 2m SOUTH OF P2	D	G&W	MB		16-Jul-14	6" WELD	16-Jul-14	TW
1 G	15-Jul-14	P1 /	1m EEOS-WEOS/ 4m SOUTH OF P2	D	G&W	MB		16-Jul-14	6" WELD	16-Jul-14	TW
1 H	15-Jul-14	P1 /	1m EEOS-WEOS/4.5m SOUTH OF P2	D	G&W	MB		16-Jul-14	6" WELD	16-Jul-14	TW
1 I	16-Jul-14	P11 /	11m EEOS-WEOS/ 1' NORTH OF P5	D	G&W	MB		16-Jul-14	6" WELD	16-Jul-14	TW
1 J	16-Jul-14	P11 /	20m EEOS-WEOS/ 6" SOUTH OF P12	D	G&W	MB		16-Jul-14	6" WELD	16-Jul-14	TW
1 K	16-Jul-14	P11 /	23m EEOS-WEOS/ 6" SOUTH OF P12	D	G&W	MB		16-Jul-14	6" WELD	16-Jul-14	TW
1 L	16-Jul-14	P12 /	12m EEOS-WEOS/ 6" SOUTH OF P13	D	G&W	MB		16-Jul-14	6" WELD	16-Jul-14	TW
1 M	16-Jul-14	P15 P16 P17	6.6m WEOS-EEOS	T	G&W	MB		16-Jul-14	T-WELD	16-Jul-14	TW
1 N	16-Jul-14	P15 P17 P18	6.6m EAST OF 1M	T	G&W	MB		16-Jul-14	T-WELD	16-Jul-14	TW
1 O	16-Jul-14	P15 P18 P19	6.6m EAST OF 1N	T	G&W	MB		16-Jul-14	T-WELD	16-Jul-14	TW
1 P	16-Jul-14	P15 P19 P20	6.6m EAST OF 1O	T	G&W	MB		16-Jul-14	T-WELD	16-Jul-14	TW
1 Q	16-Jul-14	P15 P20 P21	6.6m EAST OF 1P	T	G&W	MB		16-Jul-14	T-WELD	16-Jul-14	TW
1 R	22-Jul-14	P24 25 P26	36m EEOS-WEOS	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
1 S	22-Jul-14	P25 26 P27	36m EEOS-WEOS	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
1 T	22-Jul-14	P26 /	1m WEOS-EEOS/ 1m SOUTH OF P27	D	G&W	MB		22-Jul-14	6" WELD	23-Jul-14	TW

DEFECT TYPE:
AD - ANIMAL RELATED DAMAGE
B - UNDISPERSED RESIN BEAD
BO - FUSION WELDER BURN
BS - BOOT/SKIRT FROM FML PENETRATION
CO - CHANGE OF OVERLAP
CR - CREASE
D - INSTALLATION DAMAGE
DS-# - DESTRUCTIVE TEST NUMBER
EE - EARTHWORK EQUIPMENT DAMAGE
EXT - EXTENSION
FM - FISHMOUTH
FS - FAILED SEAM LENGTH
FTS - FIELD TEST STRIP
HT - HEAT TACK BURN
IO - INSUFFICIENT OVERLAP (UNDER SPEC.)
MD - MANUFACTURER/DELIVERY DAMAGE
PT - PRESSURE TEST CUT
SI - SOIL SURFACE IRREGULARITY
SL - SLAG ON TEXTURED SHEET
T - THREE PANEL INTERSECTION
VL - VACUUM TEST LEAK
WR - WRINKLE
WS - WELDER RESTART
OTHER:_____

REPAIR TYPE: P - PATCH, C - CAP, RS - RECONSTRUCTED SEAM, G&W - GRIND/WELD

PASSING TRIAL SEAMS		
NO.	TIME	TECH ID.
TX-1	4:27 15-Jul-14	MB
TX-2	2:00 16-Jul-14	MB
TX-4	3:30 22-Jul-14	MB

** COLUMNS TO BE USED BY THE PROJECT SUPERVISOR OR LEAD TECHNICIAN ONLY.

SUBMITTED BY: TW

DATE: 22-Jul

GEOMEMBRANE DEFECT / REPAIR LOG

PROJECT NUMBER: CT-000071 PROJECT TITLE: Mary River Project

OWNER: Baffinland Iron Mine Corporation CONTRACTOR:

LOCATION: Land Farm SHEET NUMBER: 2

DEFECT CODE	LOG DATE	DEFECT LOCATION		DEFECT TYPE	REPAIR TYPE	WELD TECH.		REPAIR DATE	REMARKS **	TEST DATE	CHECKED BY
		SEAM OR PANEL NO.	DEFECT LOCATION DESCRIPTION								
2 A	22-Jul-14	P26	1m WEOS-EEOS/ 2.5m SOUTH OF P27	D	G&W	MB		22-Jul-14	6" WELD	23-Jul-14	TW
2 B	22-Jul-14	P26	1m WEOS-EEOS/ 1m NORTH OF P24	D	G&W	MB		22-Jul-14	6" WELD	23-Jul-14	TW
2 C	22-Jul-14	P26 /	3m WEOS-EEOS/ 1m SOUTH OF P27	D	G&W	MB		22-Jul-14	6" WELD	23-Jul-14	TW
2 D	22-Jul-14	P29 P30 P31	11m EEOS-WEOS	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
2 E	22-Jul-14	P30 P31 P32	11m EEOS-WEOS	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
2 F	22-Jul-14	P31 /	1m WEOS-EEOS/ 1m SOUTH OF P32	D	G&W	MB		22-Jul-14	6" WELD	23-Jul-14	TW
2 G	22-Jul-14	P31 /	2' WEOS-EEOS/ 3m SOUTH OF P32	D	G&W	MB		22-Jul-14	6" WELD	23-Jul-14	TW
2 H	22-Jul-14	P31 /	1m WEOS-EEOS/ 2m NORTH OF P29	D	G&W	MB		22-Jul-14	6" WELD	23-Jul-14	TW
2 I	22-Jul-14	P32 P33 P34	47m EEOS-WEOS	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
2 J	22-Jul-14	P33 P34 P36	47m EEOS-WEOS	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
2 K	22-Jul-14	P33 P35 P36	50m EEOS-WEOS	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
2 L	22-Jul-14	P35 P38 P39	12m EEOS-WEOS	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
2 M	22-Jul-14	P35 P37 P38	18m WEST OF 2L	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
2 N	22-Jul-14	P28 P29 P30	72m EEOS-WEOS	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
2 O	22-Jul-14	P27 P28 P29	72m EEOS-WEOS	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
2 P	22-Jul-14	P29 /	1m WEOS-EEOS/ 2.5m SOUT OF P30	D	G&W	MB		22-Jul-14	6" WELD	23-Jul-14	TW
2 Q	22-Jul-14	P29 /	1m WOES-EEOS/ 1m NORTH OF P27	D	G&W	MB		22-Jul-14	6" WELD	23-Jul-14	TW
2 R	22-Jul-14	P37 P14 P15	6.5m NEOS-SEOS	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
2 S	22-Jul-14	P35 P37 P14	6.5m NEOS-SEOS	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
2 T	22-Jul-14	P35 P14 P13	6.5m SOUTH OF 2R	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW

DEFECT TYPE:
AD - ANIMAL RELATED DAMAGE
B - UNDISPERSED RESIN BEAD
BO - FUSION WELDER BURN
BS - BOOT/SKIRT FROM FML PENETRATION
CO - CHANGE OF OVERLAP
CR - CREASE
D - INSTALLATION DAMAGE
DS-# - DESTRUCTIVE TEST NUMBER
EE - EARTHWORK EQUIPMENT DAMAGE
EXT - EXTENSION
FM - FISHMOUTH
FS - FAILED SEAM LENGTH
FTS - FIELD TEST STRIP
HT - HEAT TACK BURN
IO - INSUFFICIENT OVERLAP (UNDER SPEC.)
MD - MANUFACTURER/DELIVERY DAMAGE
PT - PRESSURE TEST CUT
SI - SOIL SURFACE IRREGULARITY
SL - SLAG ON TEXTURED SHEET
T - THREE PANEL INTERSECTION
VL - VACUUM TEST LEAK
WR - WRINKLE
WS - WELDER RESTART
OTHER:_____

REPAIR TYPE: P - PATCH, C - CAP, RS - RECONSTRUCTED SEAM, G&W - GRIND/WELD

PASSING TRIAL SEAMS		
NO.	TIME	TECH ID.
TX-4	3:30 22-Jul-14	MB

** COLUMNS TO BE USED BY THE PROJECT SUPERVISOR OR LEAD TECHNICIAN ONLY.

SUBMITTED BY: TW

DATE: 22-Jul

GEOMEMBRANE DEFECT / REPAIR LOG

PROJECT NUMBER: CT-000071 PROJECT TITLE: Mary River Project

OWNER: Baffinland Iron Mine Corporation CONTRACTOR:

LOCATION: Land Farm SHEET NUMBER: 3

DEFECT CODE	LOG DATE	DEFECT LOCATION		DEFECT TYPE	REPAIR TYPE	WELD TECH.		REPAIR DATE	REMARKS **	TEST DATE	CHECKED BY
		SEAM OR PANEL NO.	DEFECT LOCATION DESCRIPTION								
3 A	22-Jul-14	P35 P33 P13	6.5m SOUTH OF 2S	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 B	22-Jul-14	P33 P13 P12	6.5m SOUTH OF 2T	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 C	22-Jul-14	P33 P32 P12	6.5m SOUTH OF 3A	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 D	22-Jul-14	P32 P12 P11	6.5m SOUTH OF 3B	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 E	22-Jul-14	P32 P30 P11	6.5m SOUTH OF 3C	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 F	22-Jul-14	P30 P11 P5	6.5m SOUTH OF 3D	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 G	22-Jul-14	P30 P28 P5	6.5m SOUTH OF 3E	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 H	22-Jul-14	P28 P5 P4	6.5m SOUTH OF 3F	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 I	22-Jul-14	P28 P27 P4	6.5m SOUTH OF 3G	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 J	22-Jul-14	P27 P4 P3	6.5m SOUTH OG 3H	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 K	22-Jul-14	P27 P25 P3	6.5m SOUTH OF 3I	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 L	22-Jul-14	P25 P3 P2	6.5m SOUTH OF 3J	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 M	22-Jul-14	P25 P24 P2	6.5m SOUTH OF 3K	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 N	22-Jul-14	P24 P2 P1	6.5m SOUTH OF 3L	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 O	22-Jul-14	P24 P23 P1	6.5m SOUTH OF 3M	T	G&W	MB		22-Jul-14	T-WELD	23-Jul-14	TW
3 P	22-Jul-14	P23 P40 P1	6.5m SOUTH OF 3N	T	P	MB		22-Jul-14	2' PATCH	23-Jul-14	TW
3 Q	22-Jul-14	P22 P23 40/41	FROM 3P TP 3S	IO	G&W	MB		22-Jul-14	4m WELD	23-Jul-14	TW
3 R	22-Jul-14	P22 P2 P1	4m SOUTH OF 3P/ 2mWEST OF P41	WR	P	MB		22-Jul-14	2' PATCH	23-Jul-14	TW
3 S	23-Jul-14	P22 P40 P41	4m SE OF 3P	T	P	MB		23-Jul-14	2' PACTH	23-Jul-14	TW
3 T	23-Jul-14	P22 / P41	3m EAST OF 3S	CR	P	MB		23-Jul-14	2' PATCH	23-Jul-14	TW

DEFECT TYPE:
AD - ANIMAL RELATED DAMAGE
B - UNDISPERSED RESIN BEAD
BO - FUSION WELDER BURN
BS - BOOT/SKIRT FROM FML PENETRATION
CO - CHANGE OF OVERLAP
CR - CREASE
D - INSTALLATION DAMAGE
DS-# - DESTRUCTIVE TEST NUMBER
EE - EARTHWORK EQUIPMENT DAMAGE
EXT - EXTENSION
FM - FISHMOUTH
FS - FAILED SEAM LENGTH
FTS - FIELD TEST STRIP
HT - HEAT TACK BURN
IO - INSUFFICIENT OVERLAP (UNDER SPEC.)
MD - MANUFACTURER/DELIVERY DAMAGE
PT - PRESSURE TEST CUT
SI - SOIL SURFACE IRREGULARITY
SL - SLAG ON TEXTURED SHEET
T - THREE PANEL INTERSECTION
VL - VACUUM TEST LEAK
WR - WRINKLE
WS - WELDER RESTART
OTHER:_____

REPAIR TYPE: P - PATCH, C - CAP, RS - RECONSTRUCTED SEAM, G&W - GRIND/WELD

PASSING TRIAL SEAMS		
NO.	TIME	TECH ID.
TX-4	3:30 22-Jul-14	MB
TX-5	1:00 23-Jul-14	MB

** COLUMNS TO BE USED BY THE PROJECT SUPERVISOR OR LEAD TECHNICIAN ONLY.

SUBMITTED BY: TW

DATE: 23-Jul

GEOMEMBRANE DEFECT / REPAIR LOG

PROJECT NUMBER: CT-000071 PROJECT TITLE: Mary River Project

OWNER: Baffinland Iron Mine Corporation CONTRACTOR:

LOCATION: Land Farm SHEET NUMBER: 4

DEFECT CODE	LOG DATE	DEFECT LOCATION		DEFECT TYPE	REPAIR TYPE	WELD TECH.		REPAIR DATE	REMARKS **	TEST DATE	CHECKED BY
		SEAM OR PANEL NO.	DEFECT LOCATION DESCRIPTION								
4 A	23-Jul-14	P22 P23 P24	15m EAST OF 3O	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 B	23-Jul-14	P41 P42 P22	6.5m EAST OF 4A	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 C	23-Jul-14	P42 P43 P22	6.5m EAST OF 4B	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 D	23-Jul-14	P43 P44 P22	6.5m EAST OF 4C	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 E	23-Jul-14	P44 P45 P22	6.5m EAST OF 4D	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 F	23-Jul-14	P45 P46 P24	1.5m EAST OF 4E	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 G	23-Jul-14	P46 P47 P24	6.5m EAST OF 4F	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 H	23-Jul-14	P47 P48 P24	6.5m EAST OF 4G	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 I	23-Jul-14	P48 P49 P24	6.5m EAST OF 4H	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 J	23-Jul-14	P49 P50 P24	6.5m EAST OF 4I	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 K	23-Jul-14	P50 P51 P24	6.5m EAST OF 4J	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 L	23-Jul-14	P51 P52 P24	6.5m EAST OF 4K	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 M	23-Jul-14	P52 P53 P24	6.5m EAST OF 4L	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 N	23-Jul-14	P53 P54 P24	6.5m EAST OF 4M	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 O	23-Jul-14	P54 P55 P24	6.5m EAST OF 4N	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 P	23-Jul-14	P44 P45 P46	6.5m SOUTH OF 4F	T	G&W	MB		23-Jul-14	T-WELD	23-Jul-14	TW
4 Q	24-Jul-14	P73 P74 P36	6.5m WEST OF END	T	G&W	MB		24-Jul-14	T-WELD	24-Jul-14	TW
4 R	24-Jul-14	P72 P73 P36	6.5m WEST OF 4Q	T	G&W	MB		24-Jul-14	T-WELD	24-Jul-14	TW
4 S	24-Jul-14	P71 P72 P36	6.5m WEST OF 4 R	T	G&W	MB		24-Jul-14	T-WELD	24-Jul-14	TW
4 T	24-Jul-14	P70 P71 P36	6.5m WEST OF 4S	T	G&W	MB		24-Jul-14	T-WELD	24-Jul-14	TW

DEFECT TYPE:
AD - ANIMAL RELATED DAMAGE
B - UNDISPERSED RESIN BEAD
BO - FUSION WELDER BURN
BS - BOOT/SKIRT FROM FML PENETRATION
CO - CHANGE OF OVERLAP
CR - CREASE
D - INSTALLATION DAMAGE
DS-# - DESTRUCTIVE TEST NUMBER
EE - EARTHWORK EQUIPMENT DAMAGE
EXT - EXTENSION
FM - FISHMOUTH
FS - FAILED SEAM LENGTH
FTS - FIELD TEST STRIP
HT - HEAT TACK BURN
IO - INSUFFICIENT OVERLAP (UNDER SPEC.)
MD - MANUFACTURER/DELIVERY DAMAGE
PT - PRESSURE TEST CUT
SI - SOIL SURFACE IRREGULARITY
SL - SLAG ON TEXTURED SHEET
T - THREE PANEL INTERSECTION
VL - VACUUM TEST LEAK
WR - WRINKLE
WS - WELDER RESTART
OTHER:_____

REPAIR TYPE: P - PATCH, C - CAP, RS - RECONSTRUCTED SEAM, G&W - GRIND/WELD

PASSING TRIAL SEAMS		
NO.	TIME	TECH ID.
TX-5	1:00 23-Jul-14	MB
TX-6	4:00 24-Jul-14	MB

** COLUMNS TO BE USED BY THE PROJECT SUPERVISOR OR LEAD TECHNICIAN ONLY.

SUBMITTED BY: TW

DATE: 25-Jul

GEOMEMBRANE DEFECT / REPAIR LOG

PROJECT NUMBER: CT-000071 PROJECT TITLE: Mary River Project

OWNER: Baffinland Iron Mine Corporation CONTRACTOR:

LOCATION: Land Farm SHEET NUMBER: 5

DEFECT CODE	LOG DATE	DEFECT LOCATION		DEFECT TYPE	REPAIR TYPE	WELD TECH.		REPAIR DATE	REMARKS **	TEST DATE	CHECKED BY
		SEAM OR PANEL NO.	DEFECT LOCATION DESCRIPTION								
5 A	24-Jul-14	P69 P70 P36	6.5m WEST OF 4T	T	G&W	MB		24-Jul-14	T-WELD	24-Jul-14	TW
5 B	24-Jul-14	P68 P69 P36	6.5m WEST OF 5A	T	G&W	MB		24-Jul-14	T-WELD	24-Jul-14	TW
5 C	24-Jul-14	P67 P68 P36	6.5m WEST OF 5B	T	G&W	MB		24-Jul-14	T-WELD	24-Jul-14	TW
5 D	24-Jul-14	P66 P67 P36	6.5m WEST OF 5C	T	G&W	MB		24-Jul-14	T-WELD	24-Jul-14	TW
5 E	24-Jul-14	P65 P66 P36	6.5m WEST OF 5D	T	G&W	MB		24-Jul-14	T-WELD	24-Jul-14	TW
5 F	24-Jul-14	P65 P35 P36	3m WEST OF 5E	T	G&W	MB		24-Jul-14	T-WELD	24-Jul-14	TW
5 G	24-Jul-14	P64 P65 P39	6.5m WEST OF 5E	T	G&W	MB		24-Jul-14	T-WELD	24-Jul-14	TW
5 H	24-Jul-14	P63 P64 P39	6.5m WEST OF 5G	T	G&W	MB		24-Jul-14	T-WELD	24-Jul-14	TW
5 I	25-Jul-14	P62 P63 P39	6.5m WEST OF 5H	T	G&W	MB		25-Jul-14	T-WELD	25-Jul-14	TW
5 J	25-Jul-14	P62 P38 P39	4m WEST OF 5I	T	G&W	MB		25-Jul-14	T-WELD	25-Jul-14	TW
5 K	25-Jul-14	P61 P62 P38	6.5m WEST OF 5I	T	G&W	MB		25-Jul-14	T-WELD	25-Jul-14	TW
5 L	25-Jul-14	P59 P60 61/38	6.5m WEST OF 5K	T	P	MB		25-Jul-14	2m PATCH	25-Jul-14	TW
5 M	25-Jul-14	P58 P59 37/38	6.5m WEST OF 5L	T	P	MB		25-Jul-14	2' PATCH	25-Jul-14	TW
5 N	25-Jul-14	P57 P58 P37	6.5m WEST OF 5M	T	G&W	MB		25-Jul-14	T-WELD	25-Jul-14	TW
5 O	25-Jul-14	P21 P57 P37	6.5m WEST OF 5N	T	G&W	MB		25-Jul-14	T-WELD	25-Jul-14	TW
5 P	25-Jul-14	P21 P15 P37	1m SOUTH OF 5O	T	G&W	MB		25-Jul-14	T-WELD	25-Jul-14	TW
5 Q	28-Jul-14	P74 P75 P76	6.5m EAST OF 5S	T	P	MB		28-Jul-14	2' PATCH	29-Jul-14	TW
5 R	28-Jul-14	P74 / P76	3m WEST OF 5Q/ 1.5m NORTH OF P76	WR	P	MB		28-Jul-14	2' PATCH	29-Jul-14	TW
5 S	28-Jul-14	P34 P73 74/76	3m WEST OF 5R	T	P	MB		28-Jul-14	3' PATCH	29-Jul-14	TW
5 T	28-Jul-14	P31 P32 76/77	6.5m SOUTH OF 5S	T	P	MB		28-Jul-14	2' PATCH	29-Jul-14	TW

DEFECT TYPE: AD - ANIMAL RELATED DAMAGE; B - UNDISPERSED RESIN BEAD; BO - FUSION WELDER BURN; BS - BOOT/SKIRT FROM FML PENETRATION; CO - CHANGE OF OVERLAP; CR - CREASE; D - INSTALLATION DAMAGE; DS-# - DESTRUCTIVE TEST NUMBER; EE - EARTHWORK EQUIPMENT DAMAGE; EXT - EXTENSION; FM - FISHMOUTH; FS - FAILED SEAM LENGTH; FTS - FIELD TEST STRIP; HT - HEAT TACK BURN; IO - INSUFFICIENT OVERLAP (UNDER SPEC.); MD - MANUFACTURER/DELIVERY DAMAGE; PT - PRESSURE TEST CUT; SI - SOIL SURFACE IRREGULARITY; SL - SLAG ON TEXTURED SHEET; T - THREE PANEL INTERSECTION; VL - VACUUM TEST LEAK; WR - WRINKLE; WS - WELDER RESTART; OTHER:_____

REPAIR TYPE: P - PATCH, C - CAP, RS - RECONSTRUCTED SEAM, G&W - GRIND/WELD

PASSING TRIAL SEAMS		
NO.	TIME	TECH ID.
TX-6	4:00 24-Jul-14	MB
TX-7	7:30 25-Jul-14	MB
TX-8	8:00 28-Jul-14	MB

** COLUMNS TO BE USED BY THE PROJECT SUPERVISOR OR LEAD TECHNICIAN ONLY.

SUBMITTED BY: TW

DATE: 28-Jul

GEOMEMBRANE DEFECT / REPAIR LOG

PROJECT NUMBER: CT-000071 PROJECT TITLE: Mary River Project

OWNER: Baffinland Iron Mine Corporation CONTRACTOR:

LOCATION: Land Farm SHEET NUMBER: 6

DEFECT CODE	LOG DATE	DEFECT LOCATION		DEFECT TYPE	REPAIR TYPE	WELD TECH.		REPAIR DATE	REMARKS **	TEST DATE	CHECKED BY
		SEAM OR PANEL NO.	DEFECT LOCATION DESCRIPTION								
6 A	28-Jul-14	P29 P31 77/78	6.5m SOUTH OF 5T	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB
6 B	28-Jul-14	P27 P29 78/79	6.5m SOUTH OF 6A	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB
6 C	28-Jul-14	P26 P27 79/80	6.5m SOUTH OF 6B	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB
6 D	28-Jul-14	P24 P26 80/81	6.5m SOUTH OF 6C	T	P	MB		29-Jul-14	3' PATCH	29-Jul-14	JB
6 E	28-Jul-14	P24 P55 P81	6.5m SOUTH OF 6D	T	P	MB		29-Jul-14	2' PATCH	29-Jul-14	JB
6 F	28-Jul-14	P55 /	2m SOUTH OF 6E	WR	P	MB		29-Jul-14	2' PATCH	29-Jul-14	JB
6 G	28-Jul-14	P55 P81 P82	4m EAST OF 6E	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB
6 H		/									
6 I		/									
6 J		/									
6 K		/									
6 L		/									
6 M		/									
6 N		/									
6 O		/									
6 P		/									
6 Q		/									
6 R		/									
6 S		/									
6 T		/									

DEFECT TYPE:
AD - ANIMAL RELATED DAMAGE
B - UNDISPERSED RESIN BEAD
BO - FUSION WELDER BURN
BS - BOOT/SKIRT FROM FML PENETRATION
CO - CHANGE OF OVERLAP
CR - CREASE
D - INSTALLATION DAMAGE
DS-# - DESTRUCTIVE TEST NUMBER
EE - EARTHWORK EQUIPMENT DAMAGE
EXT - EXTENSION
FM - FISHMOUTH
FS - FAILED SEAM LENGTH
FTS - FIELD TEST STRIP
HT - HEAT TACK BURN
IO - INSUFFICIENT OVERLAP (UNDER SPEC.)
MD - MANUFACTURER/DELIVERY DAMAGE
PT - PRESSURE TEST CUT
SI - SOIL SURFACE IRREGULARITY
SL - SLAG ON TEXTURED SHEET
T - THREE PANEL INTERSECTION
VL - VACUUM TEST LEAK
WR - WRINKLE
WS - WELDER RESTART
OTHER:_____

REPAIR TYPE: P - PATCH, C - CAP, RS - RECONSTRUCTED SEAM, G&W - GRIND/WELD

PASSING TRIAL SEAMS		
NO.	TIME	TECH ID.
TX-9	7:30 29-Jul-14	MB

** COLUMNS TO BE USED BY THE PROJECT SUPERVISOR OR LEAD TECHNICIAN ONLY.

SUBMITTED BY: TW

DATE: 30-Jul

No.	Revisions	Date (MM/DD/YY)	By

Land farm

P16 P17 P18 P19 P20 P21 P57 P58 P59 P60 P61 P62 P63 P64 P65 P66 P67 P68 P69 P70 P71 P72 P73 P74 P75

P15 P14 P13 P12 P11 P5 P4 P3 P2 P1 P6 P7

P37 P38 P35 P36 P33 P34 P32 P30 P28 P29 P27 P25 P26 P24 P23 P22 P42 P43 P44 P46 P47 P48 P49 P50 P51 P52 P53 P54 P55 P81 P82 P31 P77 P78 P79 P80 P76 P8 P9 P10 P40 P41

1M 1N 1O 1P 1Q 1L 1K 1J 1I 1C 1B 1A 1D 1E

5O 5N 5P 5M P56 5L 5K 5J 5I 5H P39 2L 5F 5G 5E 5D 5C 5B 5A 4T 4S 4R 4Q 5R 5Q 5G 5T 2E 2F 2G 2H 2D 6A 6B 6C 6D 6E 6F 6G 4O 2R 2S 2M 1T 3A 3B 3C 3D 3E 3F 3G 3H 3I 3J 3K 3L 3m 3N 3O 2K 2J 2I 2N 2P 2Q 2O 1S 1T 2A 2B 2C 1R 4A 4E P45 4F 4G 4H 4I 4J 4K 4L 4m 4N 4O 1F 1G 1H 3Q 3P 3R 3S 3T 4B 4C 4D 4P

LEGEND

- EXTENT OF LINER
- TOE OF SLOPE
- LINER FIELD SEAM
- EXTRUSION WELDING
- PATCH
- P2 PANEL NUMBER
- 1A REPAIR NUMBER

PROJECT NAME
Mary River Project

MATERIAL TYPE

LAYFIELD
ENVIRONMENTAL SYSTEMS LTD.

N

Cont. No.	PROJECT No. CT-000071
DWG. OF	SCALE: 1:500
DRN:	CHKD: APPD:
DATE 7/21/14	REVISION: