



Land farm containment



Contaminated snow containment



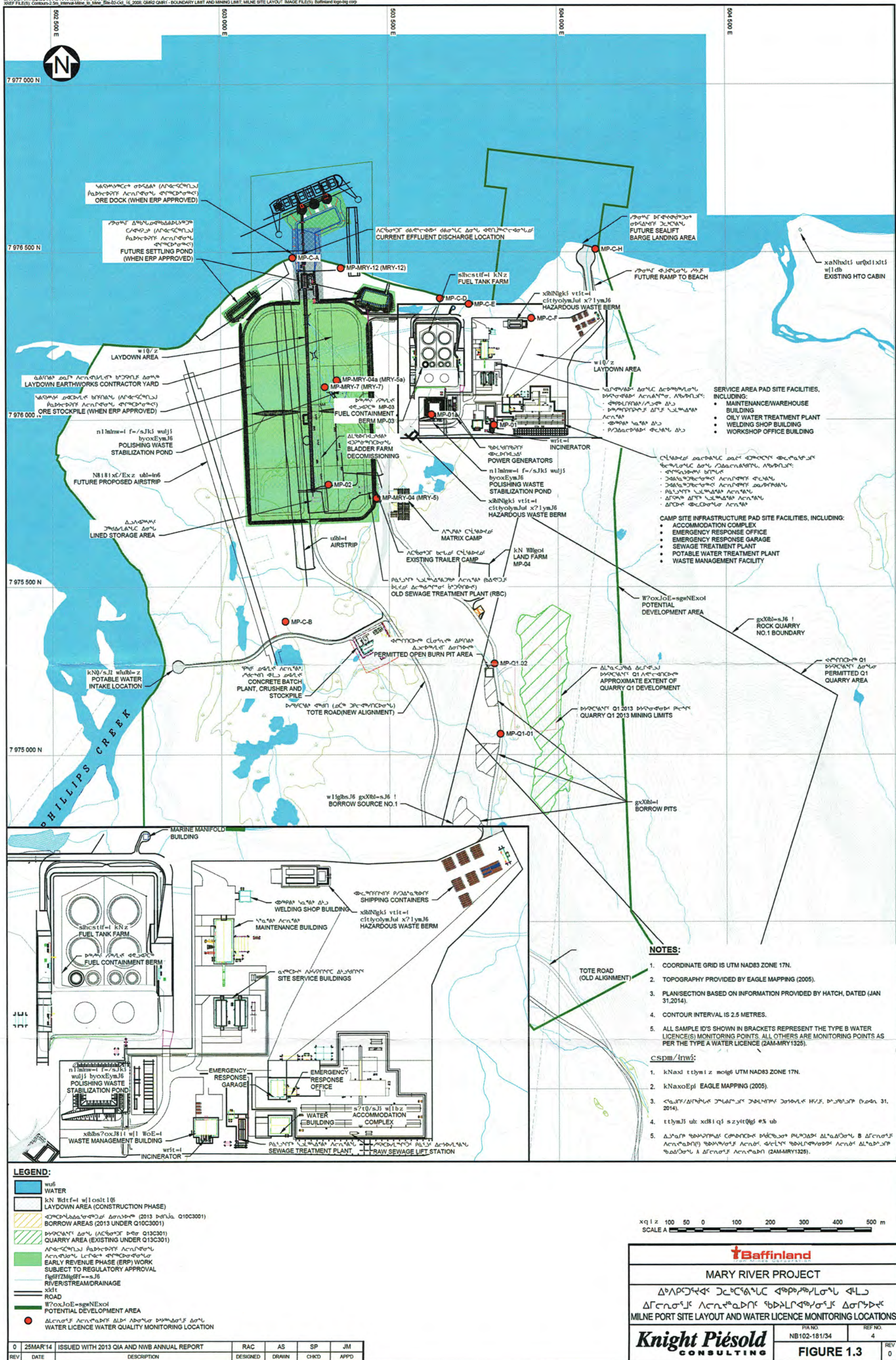
Sediment pond east



Sediment pond west



Quarry



Appendix C

List of Contractors

Table C.1-1: List of Contractors

HATCH (HATCH GLOBAL CORPORATE OFFICE) Sheridan Science & Technology Park 2800 Speakman Drive, Mississauga, ON L5K 2R7 Canada (EPCM CONTRACTOR) Tel: 1-905-855-7600 Fax: 1-905-855-8270	NUNA EAST LIMITED 9839 – 31 Avenue NW Edmonton, AB T6N 1C5 Canada (EARTHWORKS) Tel: 1-780-434-9114 Fax: 1-780-434-7758
GROUPE LAFRAMBOISE LTÉE 212 Rue Galipeau Thurso, QC J0X 3B0 Canada (ABOVE GROUND TANK CONSTRUCTION/ INSTALLATION) Tel: 613-933-6664 Fax: 613-933-9910	LAYFIELD CANADA LIMITED Unit 2, 117 Basaltic Road Vaughan, ON L4L 1G4 Canada (LINER INSTALLATION) Tel: 1-289-982-0415 Fax: 1-289-982-0419
ADCO IKPIARYUK LIMITED 8750 58th Avenue Edmonton, AB T6E 6G6 Canada (FUEL DISPENSING MODULE PLACEMENT) Tel: 1-780-465-3265 Fax: 1-780-466-8086	SEI INDUSTRIES LTD 7400 Wilson Ave Delta, BC V4G 1E5 Canada (FUEL DISPENSING MODULES) Tel: 1-604-946-3131 Fax: 1-604-940-9566

Appendix D

Earthworks and Secondary Containment

A. Tank Farm Dyke Mary River Mine: E349000-YX001-00-124-0008 Sub01 **[149 pages]**

The above report includes the following sections as submitted by Nuna East Ltd:

- Section 1: Completion of Construction Declaration
- Section 2: Inspection and Test Plan
- Section 3: As-Built Drawings
- Section 4: Survey Data
- Section 5: Statements of Compliance
- Section 6: Request for Information Documentation
- Section 7: Quality Surveillance Reports
- Section 8: Liner Data
- Section 9: Material Test Reports
- Section 10: Construction Photos
- Section 11: Signature Log

Vendor Review Stamp

HATCH				VENDOR DATA REVIEW	
Doc Number	E349000-YX001-00-124-0008		Sub	01	
Date Received					
Review Grade			Next Submittal Status		
<input type="checkbox"/> C1 – Proceed to next submission & status			<input type="checkbox"/> Internal Review <input type="checkbox"/> Certified Final <input type="checkbox"/> Final <input type="checkbox"/> As-Built		
<input type="checkbox"/> C2 – Proceed with exceptions as noted to next submission & status			Next Submittal Date:		
<input type="checkbox"/> C3 – Do not proceed, revise as noted & resubmit					
No further submission required - Complete			<input type="checkbox"/>		
<input type="checkbox"/> C4 - No further submission required - Cancelled			<input type="checkbox"/>		
No further submission required - Superseded			<input type="checkbox"/>		
Package Coordinator: Name, signature and Date:					
<small>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.</small>					



NUNA EAST LTD

Job # 4611

Tank Farm Containment Dyke
Mary River Mine
Tank Farm





NUNA EAST LTD

Job # 4611

Tank Farm
Containment
Dyke

Mary River Mine
Tank Farm

Mary River
Project ERP

Section 1
Completion of Construction Declaration

Section 2
Inspection & Test Plan

Section 3
As-Built Drawings

Section 4
Survey Data

Section 5
Statements of Compliance

Section 6
Request for Information
Documentation

Section 7
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Liner Data

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Construction Pictures

Section 11
Signature Log



NUNA EAST LTD

Section 1

Completion of Construction Declaration



NUNA EAST LTD

COMPLETION OF CONSTRUCTION


DECLARATION

NOTE: This declaration shall be completed and signed by the person responsible, in whole or part, for the construction, installation, testing and inspection of the project indicated below.

1. **Owner of the facility:** Baffinland Iron Mines Corp.
 2. **Contractor:** Nuna East Ltd.
 3. **Construction:** Job # 4611 Tank Farm Containment Dyke
 4. **Location:** Mary River Mine
 5. **Description:** Aggregate Fuel Tank Farm Dyke
-

STATEMENT OF COMPLIANCE

I, the undersigned, declare that the described project complies in all respects with the regulations and codes for construction, installation, testing and inspection of the above listed construction and all applicable turn over documentation has been forwarded to the owner.

 _____ (Signature)	<u>Bradford Watkin</u> _____ (Name)	<u>Quality Manager</u> _____ (Title)	<u>10/8/13</u> _____ (Date)
<u>Nuna East Ltd</u> _____ (Company)	<u>9839 - 31 Avenue,</u> _____ (Address)	<u>Edmonton, AB, T6N 1C5</u> _____ (City, Postal Code)	



NUNA EAST LTD

Section 2

Inspection & Test Plan

QUALITY CONTROL INSPECTION and TEST PLAN (Aggregate Construction)

Client: Baffinland Iron Mines ERP-Hatch Engineering

Revision: 0

Job No.: Job # 4611

Contract No.: H34900-CC001

P.O. No.:

Date: Aug 23, 2013

Item/Description: Tank Farm Containment Dyke-Mary River Mine Tank Farm

Drawing No.(s): See page 18

PID No.(s): N/A

Legend:

H: A mandatory hold on manufacturer until release by inspector or official waiver from client.

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Activity No.	QUALITY RELATED ACTIVITY	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	DOCUMENT CERTIFICATION REQUIRED	NUNA			HATCH			BIM		
					Hold	Sign	Date	Hold	Sign	Date	Hold	Sign	Date
01.	Verify Engineering Aggregate Specifications.	Quarried Fill Materials Section: S31 12 13, IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	IFC Work Package.	H	TH	31/08/13		TB	31/08/13			
02.	Sampling of Crusher produced material meets specification. <ul style="list-style-type: none"> Type 2 -19mm Type 3 -50mm Type 5 -2mm crusher fines. Type 7 (-32mm Clear) Type 8 Varies (Jaw run 150mm minus) Type 10 	Quarried Fill Materials Section: S31 12 13, IFC Engineered Design Drawings. *MODIFIED See RFI #12 & #13 TB	As per "IFC" Specifications.	Initialed ITP, Statement of Compliance to Engineering Specification Form.	H	TH	31/08/13		TB	31/08/13			
03.	Area of works Survey complete.	IFC Engineered Design Drawings.	As per "IFC" Drawings.	Initialed ITP, Survey Report.	H	TH	31/08/13		TB	31/08/13			

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Activity No.	QUALITY RELATED ACTIVITY	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	DOCUMENT CERTIFICATION REQUIRED	NUNA	HATCH	BIM
Tank Farm Floor							
04.	New Tank Farm Sub-grade excavation completed. <ul style="list-style-type: none"> Type 1 Excavation limits varies per drwg. Cross-sections. Proof rolling. Finished base to be +/- 25 mm of established grade and cross section but not uniformly high or low. 	Excavation Section: S31 23 16, Subgrade Preparation Section: S31 23 13 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specifications.	Initialed ITP, Survey Report.	H	31/08/13 TB	31/08/13
05.	Fill of subgrade with Type 2 aggregate to req. El. @ subgrade floor & under storage tanks completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	31/08/13 TB	31/08/13
06.	Placement of Geotextile liner completed (Lower). <ul style="list-style-type: none"> Non-woven. 	Geotextiles Section: S31 05 19.13 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Sub-contractor documentation.	H	31/08/13 TB	31/08/13
07.	Placement of Type 8 (Jaw run 150mm minus) crush completed. <ul style="list-style-type: none"> Not to exceed 200mm lift. 	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>See RFI #12 TB</i> <i>- MODIFIED MATERIAL</i>	Initialed ITP, Survey Report.	H	31/08/13 TB	31/08/13

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08.	Compaction of Type 8 (Jaw run 150mm minus) crush completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>See RFI # 12 TB</i> <i>MODIFIED MATERIAL</i>	Initialed ITP.	H <i>TH</i> <i>31/08/13</i>	TB <i>31/08/13</i>	
09.	Placement of Type 5 crush completed. (Floor) • 100mm lift	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>See RFI # 13 TB</i> <i>MODIFIED MATERIAL</i>	Initialed ITP, Survey Report.	H <i>TH</i> <i>31/08/13</i>	TB <i>31/08/13</i>	
10.	Compaction of Type 5 crush completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>See RFI # 13 TB</i> <i>MODIFIED MATERIAL</i>	Initialed ITP.	H <i>TH</i> <i>31/08/13</i>	TB <i>31/08/13</i>	
11.	Placement of lower lift of crusher fines completed. • -2mm • 100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H <i>TH</i> <i>5/09/13</i>	<i>YD</i> <i>31/08/13</i>	
12.	Compaction of lower lift of 100mm crusher fines completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H <i>TH</i> <i>5/09/13</i>	<i>YD</i> <i>31/08/13</i>	

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13.	Installation of HD 60 76mm thk. Double layer of Rigid Insulation below tanks completed. <ul style="list-style-type: none"> Stagger joints. Extend a minimum 2m beyond tank shell. Only under tank 1, 2, 3, & 4 pedestals. 	Board Insulation Section: S07 21 13 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	6/29/13	
14.	Placement of lower lift of crusher fines completed. <ul style="list-style-type: none"> -2mm 100mm lift. Only under tank 1, 2, 3, & 4 pedestals. 	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	5/27/2013	
15.	Compaction of lower lift of 100mm crusher fines completed. <ul style="list-style-type: none"> Only under tank 1, 2, 3, & 4 pedestals. 	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H	5/27/2013	
16.	Placement of Geotextile completed. <ul style="list-style-type: none"> Non-woven. 	Geotextiles Section: S31 05 19.13 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Sub-contractor documentation.	H	5/27/13	
17.	Placement of dyke liner completed. <ul style="list-style-type: none"> Type 1 	Geomembranes Section: S31 05 19.16 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Sub-contractor documentation.	H	5/27/13	

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18.	Placement of Geotextile completed. • Non-woven.	Geotextiles Section: S31 05 19.13 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Sub-contractor documentation.	H RC Sept 6 2013	gJ Sept 11/13	
19.	Placement of upper lift of crusher fines completed. • -2mm • 100mm lift.	Quarried Fill Materials Section: S31 12 13 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H RC 09/15/13	gJ 09/15/13	
20.	Compaction of upper lift of crusher fines completed. • 100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H RC 09/15/13	gJ 09/15/13	
21.	Placement of Type 5 crush lift completed. • 350mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H RC 09/15/13	gJ 09/15/13	
22.	Compaction of Type 5 crush lift completed. • 350mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H RC 09/15/13	gJ 09/15/13	
23.	Placement of Type 7 lift completed. • 150mm lift. • -32mm clear.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. Removed from Scope	Initialed ITP, Survey Report.	H RC 09/16/13	IB 09/26/13	

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24.	Compaction of Type 7 crush lift completed. <ul style="list-style-type: none"> 150mm lift -32mm clear. 	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>Removed from scope</i>	Initialed ITP.	H	<i>OK</i> 09/26/13 <i>FB</i> 09/29/13	
25.	Placement of Type 10 crush lift completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>Removed from scope</i>	Initialed ITP, Survey Report.	H	<i>OK</i> 09/26/13 <i>FB</i> 09/26/13	
26.	Compaction of Type 10 crush lift completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>Removed from scope</i>	Initialed ITP.	H	<i>OK</i> 09/26/13 <i>FB</i> 09/26/13	
27.	Swale slopes formed to various elevations.	IFC Engineered Design Drawings	As per "IFC" Drawings and Specification. <i>Removed from scope</i>	Initialed ITP, Survey Report.	H	<i>OK</i> 09/26/13 <i>FB</i> 09/26/13	
Tank Farm Dyke							
28.	Placement of Type 8 (Jaw run 150mm minus) crush completed. <ul style="list-style-type: none"> Sloped 2 to 1. 	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>- Modified material see RFI #12</i>	Initialed ITP, Survey Report.	H	<i>OK</i> 09/26/13 <i>FB</i> 09/26/13	
29.	Compaction of Type 8 (Jaw run 150mm minus) crush completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>- Modified material see RFI #12</i>	Initialed ITP.	H	<i>OK</i> 09/26/13 <i>FB</i> 09/26/13	

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







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30.	Placement of lower lift of crusher fines completed. <ul style="list-style-type: none">-2mm100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H		SEPT 7 2013						
31.	Compaction of lower lift of crusher fines completed. <ul style="list-style-type: none">100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H		SEPT 7 2013						
32.	Placement of Geotextile (lower) and keyed in at top of dyke completed. <ul style="list-style-type: none">Non-woven.	Geotextiles Section: S31 05 19.13 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Sub-contractor documentation.	H		SEPT 9 2013						
33.	Placement dyke liner and keyed in at top of dyke completed. <ul style="list-style-type: none">Type 1	Geomembranes Section: S31 05 19.16 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Sub-contractor documentation.	H		SEPT 9 2013						
34.	Placement of Geotextile (upper) and keyed in at top of dyke completed. <ul style="list-style-type: none">Non-woven.	Geotextiles Section: S31 05 19.13 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Sub-contractor documentation.	H		SEPT 9 2013						
35.	Placement of upper lift of crusher fines completed. <ul style="list-style-type: none">-2mm100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H		SEPT 15 2013		09/15/13				
36.	Compaction of upper lift of crusher fines completed. <ul style="list-style-type: none">100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H		SEPT 15 2013		09/15/13				

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37.	Placement of Type 5 capping crush lift completed. • 200mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H MC 20/09/13	FB 20/09/13	
38.	Compaction of Type 5 capping crush lift completed. • 200mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H MC 20/09/13	FB 20/09/13	
Sumps							
39.	Survey of sump locations completed. • Top of sump EL. 194.56m, Bottom EL. 194.11m • 2 each.	IFC Engineered Design Drawings.	As per "IFC" Drawings. Removed from scope	Initialed ITP, Survey Report.	H MC 26/09/13	FB 09/26/13	
40.	Excavation of sump areas completed. • Grade @ sump EL. 194.38m • 3 to 1 slopes 600mm from outside of sump to slope toe.	Excavation Section: S31 23 16, IFC Engineered Design Drawings.	As per "IFC" Drawings and Specifications. Removed from scope	Initialed ITP, Survey Report.	H MC 26/09/13	FB 09/26/13	
41.	Sump installations completed. • Covers fabricated & installed.	IFC Engineered Design Drawings.	As per "IFC" Drawings. Removed from scope	Initialed ITP.	H MC 26/09/13	FB 09/26/13	

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R: Review of test report/certifications.

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Activity No.	QUALITY RELATED ACTIVITY	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	DOCUMENT CERTIFICATION REQUIRED	NUNA	HATCH	BIM
42.	Backfill around sumps completed. • Type 7 granular wrapped with Geotextile.	Placement of Fill Section: S31 12 12, Geotextiles Section: S31 05 19.13, IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>Removed from scope</i>	Initialed ITP, Survey Report.	H	<i>M</i> 26/07/13	<i>TE</i> 09/26/13
South Side Fuel Module Access Road							
43.	Placement of Type 8 (Jaw run 150mm minus) crush completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>SEE RFI #12 - modified material</i>	Initialed ITP, Survey Report.	H	<i>PC</i> 26/07/2013	<i>TE</i> 26/07/2013
44.	Compaction of Type 8 (Jaw run 150mm minus) crush completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>SEE RFI #12 - modified material</i>	Initialed ITP.	H	<i>PC</i> 26/07/2013	<i>TE</i> 26/07/2013
45.	Placement of Type 5 crush lift completed. • 100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>SEE RFI #13 - modified material</i>	Initialed ITP, Survey Report.	H	<i>PC</i> 26/07/2013	<i>TE</i> 26/07/2013
46.	Compaction of Type 5 crush lift completed. • 100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>SEE RFI #13 - modified material</i>	Initialed ITP.	H	<i>PC</i> 26/07/2013	<i>TE</i> 26/07/2013

QUALITY CONTROL INSPECTION and TEST PLAN (Aggregate Construction)

Client: Baffinland Iron Mines ERP-Hatch Engineering

Revision: 0

Job No.: Job # 4611

Contract No.: H34900-CC001

P.O. No.:

Date: Aug 23, 2013

Item/Description: Tank Farm Containment Dyke-Mary River Mine Tank Farm

Drawing No.(s): See page 18

PID No.(s): N/A

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Activity No.	QUALITY RELATED ACTIVITY	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	DOCUMENT CERTIFICATION REQUIRED	NUNA	HATCH	BIM
47.	Placement of lower lift of crusher fines completed. • -2mm • 100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H RC SEPT 7 2013	YD SEPT 7 2013	
48.	Compaction of lower lift of crusher fines completed. • 100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H RC SEPT 7 2013	YD SEPT 7 2013	
49.	Placement of Geotextile (lower) and keyed in at top of dyke completed. • Non-woven.	Geotextiles Section: S31 05 19.13 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Sub-contractor documentation.	H RC SEPT 10 2013	YD SEPT 11 2013	
50.	Placement Dyke liner and keyed in at top of dyke completed. • Type 1	Geomembranes Section: S31 05 19.16 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Sub-contractor documentation.	H RC SEPT 10 2013	YD SEPT 11 2013	
51.	Placement of Geotextile (upper) and keyed in at top of dyke completed. • Non-woven.	Geotextiles Section: S31 05 19.13 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Sub-contractor documentation.	H RC SEPT 10 2013	YD SEPT 11 2013	
52.	Placement of upper lift of crusher fines completed. • -2mm • 100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H RC SEPT 15 2013	YD 09/15/13	
53.	Compaction of upper lift of crusher fines completed. • 100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H RC SEPT 15 2013	YD 09/15/13	

QUALITY CONTROL INSPECTION and TEST PLAN (Aggregate Construction)

Client: Baffinland Iron Mines ERP-Hatch Engineering

Revision: 0

Job No.: Job # 4611

Contract No.: H34900-CC001

P.O. No.:

Date: Aug 23, 2013

Item/Description: Tank Farm Containment Dyke-Mary River Mine Tank Farm

Drawing No.(s): See page 18

PID No.(s): N/A

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Activity No.	QUALITY RELATED ACTIVITY	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	DOCUMENT CERTIFICATION REQUIRED	NUNA	HATCH	BIM
54.	Placement of Type 5 capping crush lift completed. • 350mm lift dyke cap. • Exterior Dyke top 900mm wide for Concrete barrier.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	26/09/13	09/26/13
55.	Compaction of Type 5 capping crush lift completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H	26/09/13	09/26/13
56.	Jersey Barrier Installation completed. • Top of Containment.	IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>Removed from scope</i>	Initialed ITP.	H	26/09/13	09/26/13
57.	Dyke access stairs installation completed. • Concrete footings top and bottom.	IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>Removed from scope</i>	Initialed ITP.	H	26/09/13	09/26/13
58.	Jersey Barrier Installation completed. • @ Fuel Module.	IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>Removed from scope</i>	Initialed ITP.	H	26/09/13	09/26/13
59.	Dyke access stairs installation completed. • Concrete footings top and bottom.	IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification. <i>Removed from scope</i>	Initialed ITP.	H	26/09/13	09/26/13

QUALITY CONTROL INSPECTION and TEST PLAN (Aggregate Construction)

Client: Baffinland Iron Mines ERP-Hatch Engineering

Revision: 0

Job No.: Job # 4611

Contract No.: H34900-CC001

P.O. No.:

Date: Aug 23, 2013

Item/Description: Tank Farm Containment Dyke-Mary River Mine Tank Farm

Drawing No.(s): See page 18

PID No.(s): N/A

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Activity No.	QUALITY RELATED ACTIVITY	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	DOCUMENT CERTIFICATION REQUIRED		NUNA		HATCH		BIM
Tank TK-001 Diesel Pedestal										
60.	Area of works Survey complete.	IFC Engineered Design Drawings.	As per "IFC" Drawings.	Initialed ITP, Survey Report.	H	MC	2015	B	09/24/13	
61.	Placement of Type 5 crush pedestal lift completed. • 200mm lifts for a total of 908mm @ edge & 945mm @ center.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	MC	2015	MC	09/15/13	
62.	Compaction of Type 5 crush lift completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H	MC	2015	MC	09/15/13	
63.	Placement of under tank Crusher fines completed. • -2mm • 100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	MC	2015	MC	09/15/13	
64.	Compaction of upper lift of crusher fines completed. • 100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H	MC	2015	MC	09/15/13	
65.	Placement of Type 2 crush pedestal slope lift completed. • 150mm	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	MC	2015	MC	09/15/13	

QUALITY CONTROL INSPECTION and TEST PLAN (Aggregate Construction)

Client: Baffinland Iron Mines ERP-Hatch Engineering			Revision: 0	
Job No.: Job # 4611		Contract No.: H34900-CC001		P.O. No.:
Item/Description: Tank Farm Containment Dyke-Mary River Mine Tank Farm			Drawing No.(s): See page 18	PID No.(s): N/A
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Activity No.	QUALITY RELATED ACTIVITY	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	DOCUMENT CERTIFICATION REQUIRED	NUNA	HATCH	BIM
66.	Compaction of Type 2 crush slope lift completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H PC 09/16/13	 09/15/13	
Tank TK-002 Diesel Pedestal							
67.	Area of works Survey complete.	IFC Engineered Design Drawings.	As per "IFC" Drawings.	Initialed ITP, Survey Report.	H PC 09/24/13	 09/24/13	
68.	Placement of Type 5 crush pedestal lift completed. • 200mm lifts for a total of 908mm @ edge & 945mm @ center.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H PC 09/15/13	 09/15/13	
69.	Compaction of Type 5 crush lift completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H PC 09/15/13	 09/15/13	
70.	Placement of under tank Crusher fines completed. • -2mm • 100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H PC 09/15/13	 09/15/13	
71.	Compaction of upper lift of crusher fines completed. • 100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H PC 09/15/13	 09/15/13	

QUALITY CONTROL INSPECTION and TEST PLAN (Aggregate Construction)

Client: Baffinland Iron Mines ERP-Hatch Engineering			Revision: 0		
Job No.: Job # 4611		Contract No.: H34900-CC001		P.O. No.:	
Item/Description: Tank Farm Containment Dyke-Mary River Mine Tank Farm			Drawing No.(s): See page 18		PID No.(s): N/A
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72.	Placement of Type 2 crush pedestal slope lift completed. <ul style="list-style-type: none">150mm	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	MC	09/15/13		JD	09/15/13			
73.	Compaction of Type 2 crush slope lift completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H	MC	09/15/13		JD	09/15/13			
Tank TK-003 Diesel Pedestal													
74.	Area of works Survey complete.	IFC Engineered Design Drawings.	As per "IFC" Drawings.	Initialed ITP, Survey Report.	H	MC	09/24/13		JD	09/24/13			
75.	Placement of Type 5 crush pedestal lift completed. <ul style="list-style-type: none">200mm lifts for a total of 908mm @ edge & 945mm @ center.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	MC	09/15/13		JD	09/15/13			
76.	Compaction of Type 5 crush lift completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H	MC	09/15/13		JD	09/15/13			
77.	Placement of under tank Crusher fines completed. <ul style="list-style-type: none">-2mm100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	MC	09/15/13		JD	09/15/13			

QUALITY CONTROL INSPECTION and TEST PLAN (Aggregate Construction)

Client: Baffinland Iron Mines ERP-Hatch Engineering				Revision: 0	
Job No.: Job # 4611		Contract No.: H34900-CC001		P.O. No.:	
				Date: Aug 23, 2013	
Item/Description: Tank Farm Containment Dyke-Mary River Mine Tank Farm			Drawing No.(s): See page 18		PID No.(s): N/A
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Activity No.	QUALITY RELATED ACTIVITY	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	DOCUMENT CERTIFICATION REQUIRED	NUNA			HATCH			BIM		
78.	Compaction of upper lift of crusher fines completed. • 100mm lift.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H	MC	09/15/13		JD	09/15/13			
79.	Placement of Type 2 crush pedestal slope lift completed. • 150mm	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	MC	09/15/13		JD	09/15/13			
80.	Compaction of Type 2 crush slope lift completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H	MC	09/15/13		JD	09/15/13			
Tank TK-004 Diesel Pedestal													
81.	Area of works Survey complete.	IFC Engineered Design Drawings.	As per "IFC" Drawings.	Initialed ITP, Survey Report.	H	MC	09/04/13		FB	09/14/13			
82.	Placement of Type 5 crush pedestal lift completed. • 200mm lifts for a total of 908mm @ edge & 945mm @ center.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	MC	09/15/13		JD	09/15/13			
83.	Compaction of Type 5 crush lift completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H	MC	09/15/13		JD	09/15/13			

QUALITY CONTROL INSPECTION and TEST PLAN (Aggregate Construction)

Client: Baffinland Iron Mines ERP-Hatch Engineering			Revision: 0		
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Item/Description: Tank Farm Containment Dyke-Mary River Mine Tank Farm			Drawing No.(s): See page 18		PID No.(s): N/A
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Activity No.	QUALITY RELATED ACTIVITY	REFERENCE DOCUMENTS	ACCEPTANCE CRITERIA	DOCUMENT CERTIFICATION REQUIRED	NUNA			HATCH			BIM		
84.	Placement of under tank Crusher fines completed. <ul style="list-style-type: none"> -2mm 100mm lift. 	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	<i>[Signature]</i>	09/15/13	<i>[Signature]</i>	09/15/13				
85.	Compaction of upper lift of crusher fines completed. <ul style="list-style-type: none"> 100mm lift. 	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H	<i>[Signature]</i>	09/15/13	<i>[Signature]</i>	09/15/13				
86.	Placement of Type 2 crush pedestal slope lift completed. <ul style="list-style-type: none"> 150mm 	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report.	H	<i>[Signature]</i>	09/15/13	<i>[Signature]</i>	09/15/13				
87.	Compaction of Type 2 crush slope lift completed.	Quarried Fill Materials Section: S31 12 13 Placement of Fill Section: S31 12 12 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP.	H	<i>[Signature]</i>	09/15/13	<i>[Signature]</i>	09/15/13				

QUALITY CONTROL INSPECTION and TEST PLAN (Aggregate Construction)

Client: Baffinland Iron Mines ERP-Hatch Engineering

Revision: 0

Job No.: Job # 4611

Contract No.: H34900-CC001

P.O. No.:

Date: Aug 23, 2013

Item/Description: Tank Farm Containment Dyke-Mary River Mine Tank Farm

Drawing No.(s): See page 18

PID No.(s): N/A

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88.	Electrical grounding grid completed. <ul style="list-style-type: none"> Bare cable to be buried within the crusher fines layer. Grounding rods to be 3-ø19x3m, 1.8m apart driven 300 below grade. 	Basic Electrical Requirements Section: S26 00 50 IFC Engineered Design Drawings.	As per "IFC" Drawings and Specification.	Initialed ITP, Survey Report & Electrical Completion report.	H PC 09/29/13	FB 09/30/13	
89.	Final inspections completed.	QMS	As per code and client specifications	ITP	H "	"	
90.	Punchlist generated and closed.	QMS	As per code and client specifications	Punchlist Signoff	H N/A		
91.	NCR's closed.	QMS	As per code and client specifications	NCR Log signed off as closed	H N/A		
92.	As-builts Completed.	Contract documents	As per Client	As-built drawings	H Beu 10/8/13		
93.	Inspection Acceptance and Sign-Off Form signed by Engineer of record.	Nuna QMS.	Engineer Signature.	Initialed ITP.	H N/A		
94.	Turnover package completed and sent to client.	Nuna QMS	Code, applicable specifications.	Quality Control Turnover package.	H Beu 10/8/13		

QUALITY CONTROL INSPECTION and TEST PLAN (Aggregate Construction)

Client: Baffinland Iron Mines ERP-Hatch Engineering			Revision: 0	
Job No.: Job # 4611	Contract No.: H34900-CC001	P.O. No.:	Date: Aug 23, 2013	
Item/Description: Tank Farm Containment Dyke-Mary River Mine Tank Farm		Drawing No.(s): See page 18	PID No.(s): N/A	
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*Note: ITP Sign-Off is based on supporting documentation.

Reference Drawing(s):

- Drawing Number: H349000-4613-10-014-0002 Rev 0 (IFC)
- Drawing Number: H349000-4613-10-035-0001 Rev 0 (IFC)
- Drawing Number: H349000-4613-10-035-0002 Rev 0 (IFC)
- Drawing Number: H349000-4613-10-035-0003 Rev 0 (IFC)
- Drawing Number: H349000-4613-70-042-0002 Rev 1 (IFC)

Client Acceptance:	_____ (Print)	_____ (Sign)	_____ (Date)
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NUNA EAST LTD

Section 3

As-Built Drawings