



Baffinland Iron Mines LP Mary River Expansion Project

Construction Summary Report: Pond 1A



			HATCH			Client
Date	Rev.	Status	Prepared By	Checked By	Approved By	Approved By
2019-03-31	0	Approved for Use	G. Peace, P.Eng	K. Campbell	B. Chaput	T. Atiba
			Selling	Later	Bich	9





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1. Facility Description

1.1 Purpose and Design Basis

The Milne Port settling pond No.1A retains excess run-off water from Pond No. 1 due to the expansion of Stockpile #1. This is enabled through an overflow spillway from the existing settlement Pond No. 1. Each summer a portable pump will be set up in the pond and, following water testing to confirm the water satisfies the environmental discharge design criteria, the water will be pumped over the pond berm into the environment.

The pond will hold overflow water from settling pond No. 1 due to the extension of Stockpile #1 pad. A storm water cut-off drain was installed on the South and East sides of the new settling pond to capture clean storm water run-off from the sloping embankment.

1.2 Location and Base Elevations

The Milne Port settling Pond No. 1A is located between northing 7976350 and 7976450, and easting 503100 and 503200. The pond bottom elevation is at EL.2.700 compared to a design elevation at EL 2.250. The berm top elevation is at EL.5.000. The overflow spillway from settling pond No. 1 is at elevation EL.4.400. The overflow spillway to the environment (from Pond 1) is at elevation EL 4.800 m. Due to the survey error for the Pond 1A bottom elevation it was determined that the as-built containment of the two ponds did not meet the required volume of 6,750 m³ (Port Surface Water Management Plan H353004-40000-200-066-0001 Rev 0). In order to attain the required volume the overflow spillway to the environment was raised to 4.825 m. This results in a combined volume for the two ponds of 6,784 m³. Refer to Appendix B as-built drawing H353004-40000-228-272-0008-0001, Rev. 3.

1.3 Geometry and Access

The pond is constructed with a berm not steeper than 3H:1V and the berm top width is 2.0 m.

2. Construction Activity Summary

Construction activities on the Port Site settling pond 1A started in October 2018 and carried on through to February 2019. Installation of the pond liner took place in February 2019. The modification to the Pond 1 overflow spillway to the environment was done from March 22 to March 24, 2019.

The following summarizes the construction activities for the pond:

- Drill and blast
- Clear original ground
- Build berm
- Excavate key trench
- Place type 5 material





- Install non-woven geotextile layer
- Install HDPE liner
- Backfill key trench
- Build stormwater cut-off drain
- Modify Pond 1 overflow spillway to the environment by cutting the existing liner revising the grade to EL.4.825 and rewelding the liner.

3. QA/QC

Quality Assurance (QA) was performed by the Hatch Construction Supervisor during daily audits with the Allnorth surveyor and Allnorth Geotech as well as the NUNA Supervisor as applicable.

During liner installation the quality assurance and quality control (QA/QC) was conducted by Layfield.

An inspection of the soil subgrade was conducted prior to installing the geo-membrane and a Certificate of acceptance of soil subgrade surface was signed by the Hatch project coordinator and Layfield installer.

- Daily installation reports prepared by Layfield describe the work performed, labour onsite and weather conditions.
- A Certificate of final inspection and acceptance was signed by Layfield and the Hatch project coordinator.

For documents of the preparation for the subgrade, installation and final inspection of completed liner, see Appendix A.





4. Photographic Records



Pattern Drilling Initiated



Blast Pattern Drilling Ongoing







Emulsion and Blast Preparation for First Blast



Blast Mat Positioning







Removing Blasted Material



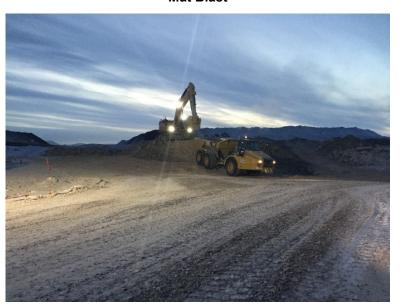
Extension Area Blast at 4 PM







Mat Blast



Hauling Blast Material to Quarry







Ripping Frozen Material from Backslope Southeast



Trimming Slope and Pond Floor







Placing Type 5 in Slope



Placing Type 5 Pond General View







Placing Type 5 Material Pond Floor View from Floor Level



Started Placing Type 9







Sand Placed at Bottom of Pond 1A General View



Pond 1A Layfield Seacan and Heater at Site







Preparing for Liner Installation Pond 1A







Placing Type 9 in Key Trench



Pond 1A Backfill Key Trench with Type 5 and Trimming Backslope





5. As-built Drawings

As-built drawings are attached in Appendix B and requests for information are attached in Appendix G. These drawings are representative of the final as-built drawings.

6. Field Decisions

The following section describes the most relevant field decisions made during construction:

 In conjunction with Engineering acceptance of the pond bottom elevation 450 mm higher than design and the subsequent decision to raise the level of the overflow spillway to the environment for Pond 1.

7. Performance Evaluation

Not done.

8. Vibration Monitoring and Quarrying Activity

Drilling and blasting was required at the pond site in order to reach the required pond elevations. Type 5 and type 9 material was sourced from existing stockpiles.

9. Environmental Monitoring

Environmental monitoring during the construction of the Port Site settling Pond 1A was conducted as per the Environmental Protection Plan (EPP), Baffinland document number BAF-PH1-830-P16-0008.

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

The Port site settling Pond 1A construction was also required to follow the requirements of the Surface Water and Aquatic Ecosystems Management Plan, BAF-PH1-830-P16-0026. This Management Plan outlines the best management practices implemented to limit the potential for adverse impacts to receiving waters, aquatic ecosystems, fish and fish habitat used during construction. In addition this plan details the systems in place to mitigate and manage drainage and runoff at the building sites, address point and non-point discharges to surface waters and assess those discharges on water quality and quantity relative to their receiving water systems.

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





The risks to the water quality in the respective rivers and streams as a result of construction of the Port Site settling Pond 1A would originate from the following sources based on construction methodology:

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

As construction took place during the winter any risks to the environment would only be from spills from equipment. There were some minor spills reported from equipment used at the construction site during construction. Reports are included in Appendix D.

10. Earthworks Data

For the earthworks turnover package, see Appendix C.

11. Unanticipated Observations

Inclement weather resulted in a number of delays to construction.

The pond bottom at EL 2.700 is 450 mm higher than design due to a survey error. This has resulted in a decrease in capacity of the pond. The required overall volume for Pond 1 and Pond 1A is 6,750 m³. In order to meet this containment volume the elevation of the Pond 1 overflow spillway to the environment was raised from 4.8 m to 4.825 m.

12. Surface Monitoring

Not applicable.

13. Required Maintenance

Not applicable.

14. Adaptive Management

Not applicable.





15. Concordance with Type "A" Water Licence

BaffinLand's Type A Water Licence, Schedule D, outlines the requirements for Construction Summary/Monitoring Reports. The following table provides a concordance of this report with the requirements of Schedule D.

Table 15-1: Table of Concordance for Schedule D

Schedule D Item No.	Schedule D Description	Corresponding Section in this Report
1a	description of all infrastructure and facilities designed and constructed to contain, withhold, divert or retain Water and/or Waste;	1
1b	a summary of construction activities including photographic records before, during and after construction of the facilities and infrastructure designed to contain, withhold, divert or retain Water and/or Waste;	2, 3, 4
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;	Appendix B
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;	6
1e	a comparison of measured versus predicted performance of infrastructure and facilities;	7
1f	any blast vibration monitoring and control for quarrying activity carried out in close proximity to fish bearing waters;	8
1g	monitoring conducted for sediment and explosives residue release from construction areas;	9
1h	monitoring undertaken in accordance with Part D of the during the Construction Phase of the Project;	8, 9
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;	10
1k	a discussion of any unanticipated observations including changes in risk and mitigation measures implemented to reduce risk during construction;	11
11	an overview of any method including frequency used to monitor deformations, seepage and geothermal responses;	12





Schedule D Item No.	Schedule D Description	Corresponding Section in this Report
1m	a summary of maintenance work undertaken as a result of settlement or deformation of dikes and dams;	13
	a summary of adaptive management principles and practices applied during the relevant phases of the Project and their overall effectiveness.	14

16. Concordance with Commercial Lease Requirements

The following table provides a concordance of this report with the requirements of the Commercial Lease for As-Built reporting.

Table 16-1: Table of Concordance for Commercial Lease As-Built Requirements

Component	Minimum Information Requirements	Corresponding Section in this report
1	The name and contact information of the person and company responsible for completing the construction, construction monitoring and preparing the As-Built Report	Appendix F
2	The name and contact information of the Baffinland representatives(s) that QIA can contact should it have any questions or comments regarding the As-Built Report	Appendix F
3	An introduction to the infrastructure or facilities including but not limited to the construction background, concept and construction history	1,2
4	Construction records including As-Built drawings signed and stamped by a professional engineer detailing surveys, planar and cross sections that illustrate all designed components. This should be provided in PDF format and if requested the native file (e.g. CAD, .dxf, etc.)	Appendices A, B,
5	Detailed description of any deviations from the For Construction Design. Deviations that should be noted include, but are not limited to, changes in design and construction materials, construction methodology or monitoring	6
6	Observed performance of the construction including a comparison to predicted performance. Recommendations for performance monitoring based on observations during construction if applicable	NA
7	A description and list of instrumentation installed, if applicable, and results of construction monitoring including all environmental data. Recommendations for additional performance or environmental monitoring based on observations and monitoring results, if applicable.	NA
8	A summary of quality assurance testing results, if applicable, and comparison of these results to construction/design requirements to ensure performance of the infrastructure or facilities.	3 Appendix A





Component	Minimum Information Requirements	Corresponding Section in this report
9	A summary of adaptive management principles and practices related to environmental management and monitoring applied during the relevant phases of the Project and their overall effectiveness	NA
10	Photographic records before, during and after construction of the facilities or infrastructure.	4
11	Map(s) to illustrate the completed construction in relation to Lease boundaries and water bodies. The minimum distance from completed or modified facilities and infrastructure to the surveyed boundary of the Property, surveyed boundary of the Impact Area, and the original high water mark should be provided.	Appendix E





Appendix A

Preparation and Inspection of Liner





A.1 Feb 02/19

Pond 1A: On hold today. Top lift of type 9 sand in progress.

A.2 Feb 6/19

<u>Pond 1A: Snow removal Inspection requested:</u> The entire area was cleared of snow and OK to complete the final lift of type 9 sand. A light frost was also present but did not pose a concern for removal. The type 9 sand is to be compacted using placement equipment as directed for all previous lifts of subgrade materials. This lift was partially installed January 29, 2019, on the base and along and part of the north-west side.



A.3 Feb 7/19

Pond 1A: Completion of type 9 sand ongoing. Survey on site verifying final grades and required touch-ups to be completed. Type 9 is out of specification but has been approved for use as the sand generally meets specification but is running coarse (refer to related emails). The type 9 was compacted using placing equipment.







A.4 Feb 9/19

Pond 1A: Allnorth surveyors are working out issues with the liner trench, completed topo and still needs work to define the liner trench to design specs.

A.5 Feb 10/19

Pond 1A: Allnorth Survey working out issues with the liner trench, still needs work to define the liner trench to design specs, another check identified that work to date is still not cut deep enough around the perimeter. Cut of 0.1 m - 0.25 m on the south side, cut of 0.45 m- 0.75 m along the south side, operator should have those areas completed by mid day tomorrow and ready for sand bedding in the trench bottom. See attached photos of Pond 1A.



A.6 Feb 11/19

Pond 1A crest trench is just about ready for sand placement just needs a topo survey with plans to start the sand on the night shift.

Requested they run the plate tamper over the base of the trench before sand placement, but cannot get it running, not overly concerned where its type 5 (32 mm minus) on the base and leveled out with hand rakes, compacted with excavator bucket.

No fines to compact and everything is frozen. They would only be consolidating the stone it to make it flat for the liner/sand layer to have a consistent 100 mm bedding for liner protection in the crest trench.







Type 5 in Base of Crest Trench Compacted

A.7 Feb 13/19

Checked Pond 1A 100 mm sand placement in base of crest trench, looks good just need survey to topo and ready for liner placement after Hatch approval. Layfield laid out first run of liner by end of day. Pond 1A and bedding placed, approved and liner to start this afternoon.







A.8 Feb 14/19

Continue liner placement today in Pond 1A, 3 lengths placed in total so far, north heading south. Continue liner placement today in Pond 1A, 3 lengths placed in total so far, north heading south.



A.9 Feb 18/19

Liner placement to continue in Pond 1A. Spoke to Layfield after I received the ITP today, they just received it themselves and have only been overlapping the geo-fabric by 300 mm and the ITP calls for 1000 mm. Brought it to Dave Burry's attention, they are seam sealing the geo-fabric, the entire length of the seams. Hold each test for 5 minutes at 40-50 psi, only require 30 psi. Air testing each seam of liner and destructive test every 150 liner meters of seam. Liner placement to continue in Pond 1A by Layfield. Spoke to Layfield after receiving the ITP today from others, Layfield just received it themselves and have only been overlapping the geo-fabric by 300 mm. The ITP calls for 1000 mm overlap. Issue was brought to Hatch's attention, they are seam sealing the geo-fabric, the entire length of the seams. Hold each test for 5 minutes at 40-50 psi, only require 30 psi. Air testing each seam of liner and destructive test every 150 liner meters of seam.

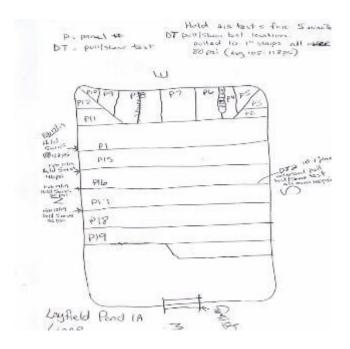






A.10 Feb 19/19

Liner placement continuing today, witnessed air tests and pull tests/destructive test. Starting at Panel 1 welded to Panel 15, test info in sketch. First 14 short panels around east slope were welded and tested before Allnorth was requested to witness the testing. A sketch and record of the tests witnessed attached. Times and pressures on each panel tested to date. Layfield will provide a complete QC package at the end of the project including pressure tests and tensile tests. Allnorth witnessed pull/shear test of DT2 today, 10-1" strips pulled from inside and outside of weld, as well as a shear from both sides, minimum is 80 psi and each one of the 10 strips recorded over 100 psi. Air tests require to hold 30 psi minimum for 5 minutes but Layfield aim for 45+ psi for each air test, all were good from what was witnessed to date.







A.11 Feb 20/19

Liner placement held off again today due to temperatures, the anchor trench is not completed as designed but has been approved with RFI for the change by Nick Mills

Helped Survey layout Pond 1A ditch.



A.12 Feb 21/19

Spill way at Pond 1A was cut out to grade and type 9 was placed last night, picked up topo with Survey. Bucket packed the type 9 on the spill way. Layfield to continue liner and testing of seams today if temperatures cooperate. Spill way at Pond 1A was cut out and type 9 was placed last night, picked up topo with Alex. Bucket packed the type 9 on the spill way. Layfield to continue liner and testing of seams today if temperatures cooperate.







Spillway Cut Out



Air Test





A.13 Feb 22/19

Pond 1A: Liner crew air tested a seam yesterday but too cold for liner fusing today. Spill way is ready just need temperature to cooperate. Can only fuse the seams up to -37 degrees.



A.14 Feb 23/19

Layfield working west slope of Pond 1A liner placement and fusing.

A.15 Feb 24/19

Continued with liner placement. All north was at another location for the day and did not witness site activities at Pond 1A.





A.16 Feb 25/19

Working on spillway slope today with geo-fabric placement and berm around perimeter.



A.17 Feb 26/19

Pond 1A: Layfield completed Liner placement with exception to finish air testing the seams around the spill way, continuing with type 8 and type 5 aggregate at east and west sides, and 20m at the south end to the spill way.

A.18 Feb 27/19

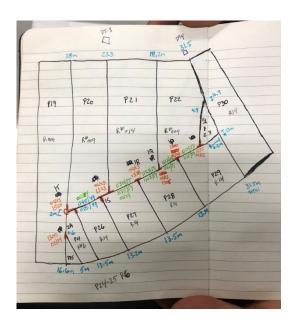
Pond 1A: Liner is all down just need to finish air testing the seams around the spill way, continuing with type 8 and type 5 placement at east and west sides berms and ditches, 20 m at the south of the berm and ditch to the spill way, did not get the types 8 and 5 finished today.

A.19 Feb 28/19

Pond 1A: Liner is all down just need to finish air testing the seams around the spill way, weather delayed and unable to complete. Continuing with type 8 and type 5 at east and west sides, 20 m at the south end to the spill way, cleanup and dressing of the site slopes and ditches.



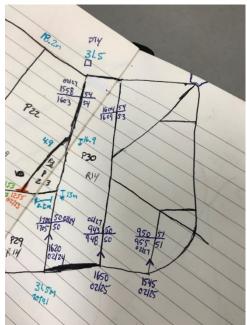




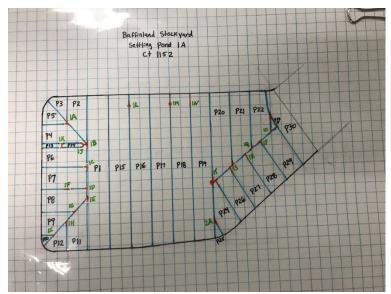








Pond 1A Layfield Times Pressures and Dates



Panel Placement





A.20 March 1/19

Pond 1A: Layfield completing final patch on outfall of the line Pond 1A to Pond 1 including pressure test. Nuna shaping ditching on the southern side of the pond. Concern on the slope facing the ore pile. Survey to assess.



Pond 1A Dressing of the Ditch and Berm

A.21 Mar 2/19

Pond 1A: Liner is completed, Nuna finishing ditching on the southern side of the pond.

A.22 Mar 3/19

Pond 1A: Liner is completed, Nuna is completing cleanup and dressing of the site by removing all sandbags, surplus material, and applying dressing stone to berms edges before cutting the northern slope to 3:1.

A.23 Mar 4/19

Nuna is completing cleanup and dressing of the ditch to survey tolerances.

A.24 Mar 5/19

Pond 1A: Nuna shaping of slope on the northern side of Pond 1A. Finished final grading of ditch along Pond 1A.

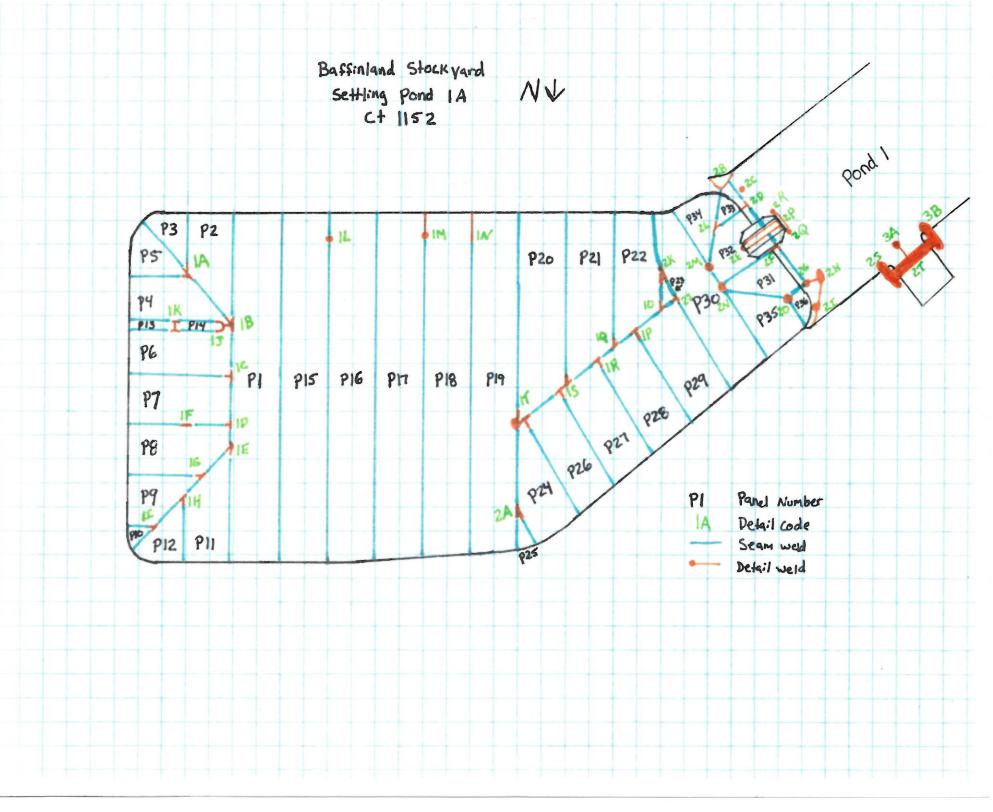




A.25 Mar 6/19

Pond 1A: Nuna shaping slope of northern edge to 3:1 with type 8 material. Materials were excavated from the bench the previous night shaping it to 2:1.







CERTIFICATE OF INSPECTION OF SOIL SUBGRADE SURFACE

PROJECT NAME:	Bassinland Pond 1 Repairs CTOP: 12
PROJECT NUMBE	CR: C11152
OWNER/CONTRA	CTOR: Approx / DIM
LOCATION: Was	t pond, Part
	duly appointed representative of Layfield Canada Ltd. (Layfield), have visually observed face described below, and:
	found it to be an acceptable surface on which to install geomembrane; OR
	found it to be an <u>Unacceptable</u> surface on which to install geomembrane
Area Inspected (□ I	Partial or Complete): Emergency over flow
Dimensions of Subg	rade Inspection: Appear & Market Mark
Anchor Trench Din	iensions: N/A
Comments: 1476	9 with LP7 underlay
tests have been per conditions which me conformance of the s The soil subgrade a condition that result and remedial work Contractor.	based on observations of the surface of the subgrade only. No subterranean inspections or formed by Layfield and Layfield makes no representations or warranties regarding any exist below the surface of the subgrade. Layfield accepts no responsibility for ubgrade to this project's specifications. Inspected on this date refers to its present condition. Any changes in the subgrade from the effects of inclement weather and/or other forces beyond the control of Layfield to correct the resulting deficiencies, will be the direct responsibility of the General
LAYFIELD REPRI	ESENTATIVE:
Date:	March/23/70/9
Signature:	affficient e.
Name:	Hathe Bound
Title:	Supervisor.
OWNERS REPRES	SENTATIVE:
I, the undersigned, a du described above and au	ly appointed representative of the Owner, hereby understand the soil subgrade surface inspection uthorize Layfield to proceed with deployment of geosynthetics on the subgrade provided.
Date:	March 23 2019
Signature:	2078
Name:	Darko Filipic
Title:	Project Coordinator
Company:	Nuna



CERTIFICATE OF FINAL INSPECTION AND ACCEPTANCE

PROJECT NAME: Bassinkand fond I Repairs
PROJECT NUMBER: C+1157 DATE: March 75/2019
OWNER: Aring / BIM
LOCATION: West pand, Port
Scope of Installation(s): THE WORK
Area/Layer: Area Inspected: Partial or Complete
Dimensions: Approx 8 m x 4 m
liner toll back So Sill (Type 9) could be added to emergency over sion.
once at desired height indicated by Hatch and survey. Viner was welded
Back together
Part 1 – LAYFIELD CANADA LTD.
Fait1 - LATFIELD CANADA LID.
I, Malho Bould , a duly appointed representative of Layfield Canada Ltd.
(Layfield), have visually observed the installations (as outlined above), and have found the Work
to be complete and free of defects and declare that the Work was completed in accordance with
the project specifications, Layfield's QC program and the terms and conditions of the contract.
Layfield Representative:
Name: Mathin Bourne
Title: Supervisor
Date: March 125/2019 Signature: ilfhor South
Part 2 OWNED (or Danyagantativa)
Part 2 – OWNER (or Representative)
I, Darko Filipia, a duly appointed representative of Nuna Lagistics Ltd
, do hereby take over and accept the installation(s)
described above, and confirm that the work has been completed in accordance with the project
specifications and the terms of the conditions of the contract.
I have evaluated and measured the work together with the Layfield representative, and agree that
the measurements shown are both true and correct, and that the installation has met our approval.
Owners Representative:
Name: Darks Filipie
Title: Project Coordinator
Company: Nuna Logistics Ltd.
Date: March 25 Zo19 Signature: QUA
Comments:



LAYFIELD GEOMEMBRANE DETAIL & TEST LOG

AREA / LAYER Primary

PROJECT NUMBER CT1152
PROJECT TITLE Nuna Logistics-Baffinland-Stockyard #1 Settling Pond 1A

												L SEA	MS													
	MA	CHINE		DA	TE		WELD	AIR	PREH	EAT	EXTR		1415		PEEL					SHEAF	3		CHK'D	_		
#	NU	JMBER	Y١	YYY-M	1M-DD	TIME	TECH	TEMP °C	TEM	P °C	TEM	P °C			(PPI)					(PPI)			BY	R	EMARKS	
1	РХ	41013	2	019/0	02/15	1300	MB	-34	27	1	27	71	109	105	102	103	94	113	108	117	113	110	MB			
2	РХ	41013	2	019/0	02/16	1200	MB	-34	27	1	27	71	100	107	109	98	101	119	114	123	114	125	MB			
3	РХ	41013	2	019/0	02/23	1245	MB	-34	27	'1	27	71	116	98	83	89	99	135	126	133	119	113	MB			
4																										
5																										
6																										
DET	AIL	PA	NEL			LOCATIO	ON DESC	DIDTION		DETAIL	REPAIR	MA	CHIN	E	REP	AIR D	ATE	STA	ART	WEL	.D	AIR	TE	ST DATE	TEST	QC
СО	DE	NUM	BER(S	S)		LOCATIO	JN DESC	RIPTION		TYPE	TYPE	NU	MBEI	₹	YYYY	Y-MM	-DD	TIN	ΜE	TEC	н т	EMP °	C YYY	Y-MM-DD	METH.	TECH
	1A	P4		P5		CONN	IECTED	TO P2		T	G&W		41013			9/02		14	23	M	3	-34		19/02/16	VB+PS	WB
	1B	P4		P2		CONN	IECTED	TO P1		Т	G&W		41013			9/02		14	_	ME		-34		19/02/16		WB
	1C	Р6		P7			IECTED			T	G&W		41013			9/02	•	14	42	ME		-34	_	9/02/16	VB+PS	WB
	1D	P7		P8			IECTED			T	G&W		41013			9/02		14	_	ME		-34		19/02/16	VB+PS	WB
	1E	P8		11			IECTED			T	G&W		41013			9/02		14		M	_	-34		19/02/16	VB+PS	WB
	1F	P7		P8			EAST O			WS	G&W		41013			9/02	•	15		M	_	-34		19/02/16	VB+PS	WB
	1G	P8		P9			ECTED			T	G&W		41013			9/02		15		M		-34		9/02/16	_	WB
	1H	P11		212			IECTED			T	G&W		41013			9/02		15	-	M		-34		19/02/16	VB+PS	WB
	11	Р9		10			ECTED			T	G&W		41013			9/02		15		ME	_	-34		19/02/16	VB+PS	WB
	1J	P4	<u> </u>	P6		1.5M W				FS	RS		41013			9/02		13	_	M		-32		19/02/16		WB
	1K	P13	<u> </u>	14	6.5M			L CONNE	CTION	10	G&W		41013			9/02		14		M		-32	_	9/02/16		WB
	1L	P15	<u> </u>	16				OM SEOS		ВО	Р		41013			9/02		16	-	ME	_	-34		19/02/23	VB+PS	WB
	1M	P17	<u> </u>	18		3.4M WI				ВО	P+G&W		11013			9/02		16		ME		-34		19/02/23	VB+PS	WB
	1N	P18	<u> </u>	19				OM SEOS		D	G&W		41013			9/02	_	15		ME	_	-34	_	19/02/23	VB+PS	WB
	10	P22		23			ECTED T			T	G&W		41013			9/02		12		ME		-34		19/02/23	VB+PS	WB
	1P	P28		29			ECTED 1			T	G&W		41013			9/02		13		ME	_	-34		19/02/23	VB+PS	WB
-	1Q	P21		22			ECTED 1			T	G&W		41013			9/02		13 13		ME	_	-34		19/02/23	VB+PS	WB
	1R 1S	P27 P26	<u> </u>	P28			ECTED 1			T	G&W G&W		41013 41013			.9/02 .9/02	_	13		ME	_	-34 -34	_	19/02/23 19/02/23	VB+PS VB+PS	WB WB
	13 1T	P19		20			ECTED T			T	P		41013 41013			9/02	_	15	_	ME	_	-34		19/02/23	VB+PS	WB
DETAI									INSUFFICIENT	•	r						/23	15	20					•	VB - VAC BOX	
DETAI	IL I YP	ATL - AIR	TEST LEA	AK		DS-# - DESTRUCT EE - EARTHWOR	K EQUIPMEN	T DAMAGE MD	- MANUFACT	JRER/DELIV	ERY DAMAGE	VL -	VACUUN	∕I TEST LE		JN				16	:51 IVI	ETHO		NT STRESS	ST - SPARK TE	
		BO - FUSI CR - CREA		DER BUR		FM - FISHMOUT			PENETRATION PRESSURE TE				 WRINK WELDE 		RT		REI	PAIR T	ГҮРЕ:	G&W - 0	GRIND &	WELD		B - BOOT	P - PATC	н
		D - INSTA	LLATION	DAMAG	iE	FS - FAILED SEAM	A LENGTH	SI - 5	SOIL SURFACE	IRREGULAR	ITY	OTH	IER:							RS - REC	ONSTRU	ICTED SEA	М	C - CAP	S - SKIRT	
RE	MAR	(S																	QC	TEC			Wi	II Brydo	n	
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LAYFIELD GEOMEMBRANE DETAIL & TEST LOG

PROJECT NUMBER CT1152 AREA / LAYER Primary
PROJECT TITLE Nuna Logistics-Baffinland-Stockyard #1 Settling Pond 1A

	PI	ROJECI	I IIILE	Nuna	Logistics-l	Battinlar	nd-Stockya	rd #1 Se	ettling Po	ond 1A														
											L SEA	MS												
#	MA	CHINE	DA	·ΤΕ	TIME	WELD	AIR	PREI	HEAT	EXTR	UDER		Р	EEL				S	HEAR		CHK'D	В	EMARKS	
#	NU	IMBER	YYYY-N	/IM-DD	TIIVIL	TECH	TEMP °C	TEN	1P °C	TEM	P °C			PPI)					(PPI)		BY	, n	EIVIANNS	
1	PX	41013	2019/	02/24	1215	MB	-38	2	71	27	71	113	104 1	L20	112	110	119	101	115 1	08 117	MB			
2	PX	41013	2019/	02/26	1215	MB	-37	2	71	27	71	106	106 1	L12	116	107	120	114	127 1	16 121	MB			
3	PX	41013	2019/	02/26	1600	MB	-37	2	71	27	71	102	105 1	L10	100	98	120	124	115 1	08 119	WB			
4	PX	41013	2019/	02/27	1040	MB	-32	2	73	27	73	114	104 1	L02	108	109	132	122	113 1	08 124	WB			
5	PX	41013	2019/	03/01	1000	MB	-30	2	73	27	73	102	92	97	115	108	125	116	121 1	10 122	WB			
6	P	(6235	2019/	03/23	1500	MB	-28	2	71	27	73	95	98 1	L27	120	107	113	118	119 1	22 126	MB			
DET	AIL	PAI	NEL						DETAIL	REPAIR	MA	CHINI	T	REP/	AIR DA	ATE	STA	RT	WELD	AIR	TI	EST DATE	TEST	QC
COI	DE	NUME	BER(S)		LOCATIO	ON DESC	RIPTION		TYPE	TYPE		MBEF		YYYY	-MM-	-DD	TIM	1E	TECH	TEMP	°C YY	Y-MM-DD	METH.	TECH
	2A	P24 /	/ P25		CONN	ECTED 7	ΓΟ P19		Т	G&W		41013		201	9/02/	/24	130	00	MB	-34	20	19/02/23	VB+PS	WB
	2B	P34 /	/ P33	CC	ONNECT TO	O EXIST	ING SWE	OS	10	Р	PX	41013		201	9/02/	/26	131	LO	MB	-37	20	19/02/26	VB+PS	WB
	2C	xisting /	/ Existing	3.	8M SOUT	H OF 20), 1M WES	ST	EE	Р	PX	41013		201	9/02/	/26	134	10	MB	-37	20	19/02/26	VB+PS	WB
	2D	P32 /	/ P33		CONNECT	TED TO	EXISTING		Т	G&W	PX	41013		201	9/02/	/26	140	00	MB	-37	20	19/02/26	VB+PS	WB
	2E	P32 /	/ Existing	4.8M	NORTH O	F 2D, SF	PILLWAY F	LOOR	10	Р	PX	41013		201	9/02/	/26	160	00	MB	-37	20	19/02/26	VB+PS	WB
	2F	P31 /	/ P32		CONNECT	TED TO	EXISTING		Т	G&W	PX	41013		201	9/02/	/26	162	25	MB	-37	20	19/02/26	VB+PS	WB
	2G	P31 /	/ P36		CONNECT	TED TO	EXISTING		Т	Р	PX	41013		201	9/02/	/26	170	00	MB	-37	20	19/02/26	VB+PS	WB
	2H	xisting /	/ Existing	1M \	WELD + 21	M PATC	H WEST O	F 2G	D	Р	PX	41013		201	9/02/	/26	173	30	MB	-37	20	19/02/26	VB+PS	WB
	21	P36 /	/ Existing	2.	6M WELD	+ PATC	H NE OF 2	2H	SI	Р	PX	41013		201	9/02/	/26	174	15	MB	-37	20	19/02/27	VB+PS	WB
	2J	P29 /	/ P23		CONN	ECTED 1	ГО Р30		Т	G&W	PX	41013		201	9/02/	/27	105	55	MB	-35	20	19/02/27	VB+PS	WB
	2K	P22 /	/ P23		CONN	ECTED 7	ГО Р30		Т	G&W	PX	41013		201	9/02/	/27	110	00	MB	-32	20	19/02/27	VB+PS	WB
	2L	P32 /	/ P33		CONN	ECTED T	ГО Р34		Т	G&W	PX	41013		201	9/02/	/27	110)5	MB	-32	20	19/02/27	VB+PS	WB
	2M	P34 /	/ P30		CONN	ECTED 7	ГО Р32		Т	Р	PX	41013		201	9/02/	/27	113	30	MB	-32	20	19/02/27	VB+PS	WB
	2N	P31 /	/ P32		CONN	ECTED 7	ГО Р30		Т	Р	PX	41013		201	9/02/	/27	120	00	MB	-32	20	19/02/27	VB+PS	WB
	20	P31 /	/ P36		CONN	ECTED 7	ГО Р35		Т	Р	PX	41013		201	9/02/	/27	123	30	MB	-32	20	19/02/27	VB+PS	WB
	2P	P32 /	/ Existing	W	EST SPILL	WAY CO	NNECTIO	N	10	Р	PX	41013	1	201	9/03/	/01	103	30	MB	-30	20	19/03/01	VB+PS	WB
	2Q	P32 /	/ Existing		NO	RTH OF	2P		10	Р	PX	41013		201	9/03/	/01	130	00	MB	-30	20	19/03/01	VB+PS	WB
	2R	P32 /	/ Existing		SO	UTH OF	2P		10	Р	PX	41013		201	9/03/	/01	135	50	MB	-30	20	19/03/01	VB+PS	WB
	2S E	xisting/	/ Existing		10M	WEST (OF 2I		SI	Р	PX	6235		201	9/03/	/23	164	10	MB	-28	20	19/03/23	VB+PS	MB
	2T E	xisting/	/ Existing		6.7M PA	TCH WE	ST OF 2S		SI	Р	PX	6235		201	9/03/	/23	173	30	MB	-28	20	19/03/23	VB+PS	MB
DETAI	L TYPE	CR - CREAS	EST LEAK ON WELDER BU	RN	DS-# - DESTRUCT EE - EARTHWORI EXT - EXTENSION FM - FISHMOUTH FS - FAILED SEAN	K EQUIPMEN' N H	T DAMAGE MD P - F PT -	PRESSURE T	TURER/DELIV N		VL - WR	VACUUM - WRINKL - WELDER			N	REI	PAIR T	YPE:	TEST G&W - GRIN RS - RECONS	METH(PS - PC	R LANCE DINT STRESS B - BOOT C - CAP	VB - VAC BOX ST - SPARK TI P - PATC S - SKIRT	EST H
	N 4 A D !	- د د داد						:1 20 27	24.20										HAW - HOT		\ A /	ill Brydo		
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																CLID			DATE			19/03/2		
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LAYFIELD GEOMEMBRANE DETAIL & TEST LOG

PROJECT NUMBER CT1152

AREA / LAYER Primary

PROJECT TITLE Nuna Logistics-Baffinland-Stockyard #1 Settling Pond 1A

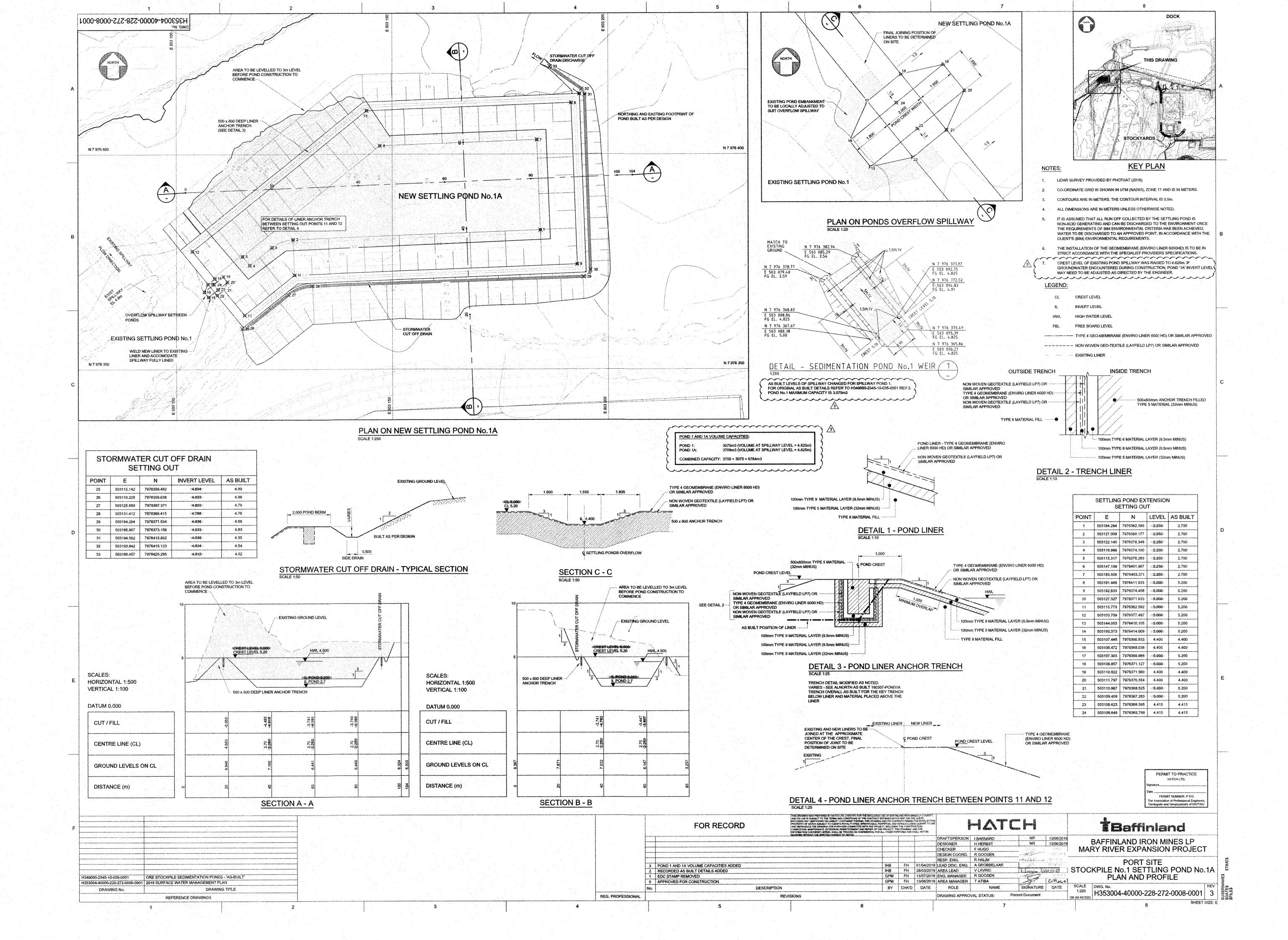
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		CR - CREASE D - INSTALLA			FM - FISHMOUT FS - FAILED SEAM			PRESSURE T SOIL SURFAC	EST CUT E IRREGULAF	RITY	WS OTH	- WELDE HER:	R RESTAI	RT		REI	AIR 1		HAW - H	ONSTRU	JCTED SE WELD		B - BOOT C - CAP	P - PATO S - SKIRT	
RE	MARK	S change	to emer	rgency o	verflow de	sign on p	ond 1 deta	il 2S,2T,	3A,3B										TEC				ill Brydo		
																CLID			VISC				new Bou		
ıc	10 0	F-007						\A() 4 (w lave	ieldco	ntainr	non	t co	m		SUB			MBE	_		20	19/03/2 3 of 3	.5	
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Baffinland Iron Mines LP - Mary River Expansion Project Construction Summary Report: Pond 1A - March 31, 2019

Appendix B As-built Drawings







Baffinland Iron Mines LP - Mary River Expansion Project Construction Summary Report: Pond 1A - March 31, 2019

Appendix C Earthworks Turnover Package





HATCH

INSPECTI	ON AND TEST PLAN NO.	4	REV:	1		DATE I	SSUED:	v	1/19/2019	ii - 16. :
P.O./6	CONTRACT. NO.	CC006	DESCRIPTION:	POND 1A EARTHWOR	KS	-		Law year		
co	ONTRACTOR:	NUNA EAST LTD.	LOCATION:	MILNE PORT		- ІТ	EM			
		Procedure Reference					Verification	n / Witness		
Activity No.	Activity Description	Code/Specification Reference	Specification Acceptance Criteria	Verifying Document		JNA		тсн		IM
					Action	Sign	Action	Sign	Action	Sign
1.1	Baseline topographic survey	IFC	Survey	OG Survey	R	DT	R			
1.2	Obtain land disturbance approval	LDF	Owner Approval	LDF Signoff	н	27	н	SG	н	
1.3	Locate & mark any UG utilities	N/A	N/A	Survey Verification	R	27	R			
1.4	Survey excavation limits established	IFC	N/A	Survey Verification	R	DF	R			
2.1	Excavate area to design subgrade	IFC/ Typical Detail	Owner Approval	Survey Verification	R	407	R			
2.2	Subgrade inspection	IFC/ Typical Detail	Owner Approval	QCD-001	Н	PA	Н	5G		
2.3	Confirm screen analysis provided meets specification for Type 8 material	Specification H353004-00000-280- 078-0002	Material meets Spec	QCD-002	н	07	R	SG		
2.4	Placement of Type 8 Fill	IFC/ Typical Detail	Owner Approval	QCD-003	R	P7	R	56		
2.5	Confirm screen analysis provided meets specification for Type 5 material	Specification H353004-00000-280- 078-0002	Material meets Spec	QCD-002	н	07	R	SG		
2.6	Placement of Type 5 Fill	IFC/ Typical Detail	Owner Approval	QCD-003	R	67	R	56		
2.7	Confirm screen analysis provided meets specification for Type 9 material	Specification H353004-00000-280- 078-0002	Material meets Spec	QCD-002	Н	07	R	SG		
2.8	Placement of Type 9 Fill	IFC/ Typical Detail	Owner Approval	QCD-003	R	PF	R	56		
3.1	Geotextile Placement	N/A	Owner Approval	Inventory and installation inspection	R	DF	R			
3.2	Geomembrane Placement	Layfield QA/QC Procedure	Owner Approval	Layfield QA/QC Paperwork	н	AT	н	IATCH!	н	

HATC	─ Vendor/Contractor Do	cument Revie	ew
Doc Number	E353004-CC005-130-051-0001	SUB	02:
Date Received			
,	Review Grade	Next Submittal St	atus
C2 - Proceed	to next submission & status t with exceptions as noted to emission & status	Certified As-Built	
resubm		Elinternal Review	
Next Submittal D	late	☐Certified/☐As-	-Bulft
Certi		lied Supersed	
Package Engine	er: Name, signature and date	Jan 25, 2	2019
functional only by non-	or all a committee with the same Parameter, According	arten by the ongressy do	CS Self

4.1	Final Inspection completed	QMS	Owner Approval	Initialed ITP	н	PA	н		
4.2	Punch list generated and closed	QMS	Owner Approval	Initialed ITP	Н	wat	Н		
4.3	As-built completed	Contract Documents	As per client	Survey as-built	н	A	н		
4.4	ITP Signoff by Owner	QMS	Owner Approval	Initialed ITP	н		н	Н	
4.5	Turnover package and QCD sent to client	QMS	Owner Approval	Initialed ITP	н		н	н	

NOTES

Construction steps may be done simultaneously over the footprint of the design to minimize disturbance to permafrost.

NUNA to perform visual inspection of the construction material provided and review reports to confirm acceptability of material.

Rev	Date	Reason for Revision	Drawn	Checked
1	1/19/2019	Incorporated Comments from Hatch		
	==311			

ACTION:

H - Hold, Mandatory Hold Point

R - Test or inspection result review

W - Witness

S - Surveillance, Activity work or function is observed

NOTE: H & W points require formal notification to Hatch/ Hatch's Representative



LAND DISTRURBANCE FORM

Document # BAF-PH1-830-P16-0008, Section 2.3

For	m No.			Department:		Projects	
Da	te:	10/	16/18	Name/Position	: Brando	on Urquhart/Project	Coordinator
Pro	ject location:		Port Site		Settli	ing Pond 1A	
Pro	ject Duration:	Start	10/18/18	Finish	11/29/18		
			Pro	ject Details			
GPS	Coordinates:	Lat:	N+7976400	Long:	E+503150	(NAD 83)	
Land	disturbance area	:	5000 m2	10 1		3	
Туре	of disturbance (E	xcavation, Pla	acement of Fill Mater	rial, ditching, etc.)			
	al placement over						
	iled description o	en d e nn der Manden betarter ein beit.					
	uction of settling						
			the footprint of Pond	1A (existing pile of	ROQ to be re	located)	
	ation of pond to						
	ment of berm fill	and compacti	on				
- Instal	lation of liner						
				Check List			
1	Has the Environ	mental Conce	rns in section 2.3.1.	of the Environment	al Protection	plan been reviewed	Yes
			st of concerns on pa			1.70	
2			in 31m of the High V		tream or wat	er body?.	Yes
	- If Yes, pleas	e contact the	Environment Depart	ment.		a una respectación de del Productivo	**************************************
3	Is there a stream	n or waterboo	ly >31m of the work	site?.			Yes
	- If Yes, Includ	de a detailed	description of the Se	diment and Erosion	Control Mea	sures on Page 3.	
4	Has the area bee	en cleared by	Archaeology?.				Yes
	- If No or Unk	nown, Please	contact the Environ	ment Department.			
5	Will the land dis	turbance occ	ur between May 31	and August 31?.			No
	- If Yes, An Ad	ctive Migratio	n Bird Survey is requ	ired prior to start.			
				Approval			
Appr	oved by: 15.11	Bon	den Position:	Environmen	nt Super	-intendent	
Appr	oved on: 5%	21/201	8				
Valid	Unit:	NTSMILL & CONTROL					
			y the Environment D	•			
-	Contingen	1 0 f	blasting r.J	u Livalunt	4m / 5	4A on 2	
M	Witighth	re me	astres to	probe Ch	Thes	ent must of	
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	C Dear	7 37	000000	Je 19076	JUC! M	mr 70000 00	

Created: 17-04-17



LAND DISTRURBANCE FORM

Document # BAF-PH1-830-P16-0008, Section 2.3

Form No.

0

Department:

Projects

Date:

10/16/18

Project location:

Port Site

Sediment and Erosion Control Measures

Please give a detailed discription of the run-off control measure which will be put in place. Include all water bodies and streams, slope direction and materials to be used.

- Work will be completed in winter conditions. No runoff water is expected during construction of the Pond.
- Pond Outlets will be lined with geotextile and rip rap as per IFC design



Created: 17-04-17 3



BlastRadius-181023-ACL-PCN 0

1



BlastRadius-181023-ACL-PCN 0

Baffinland



BlastRadius-181023-ACL-PCN 0



Description of



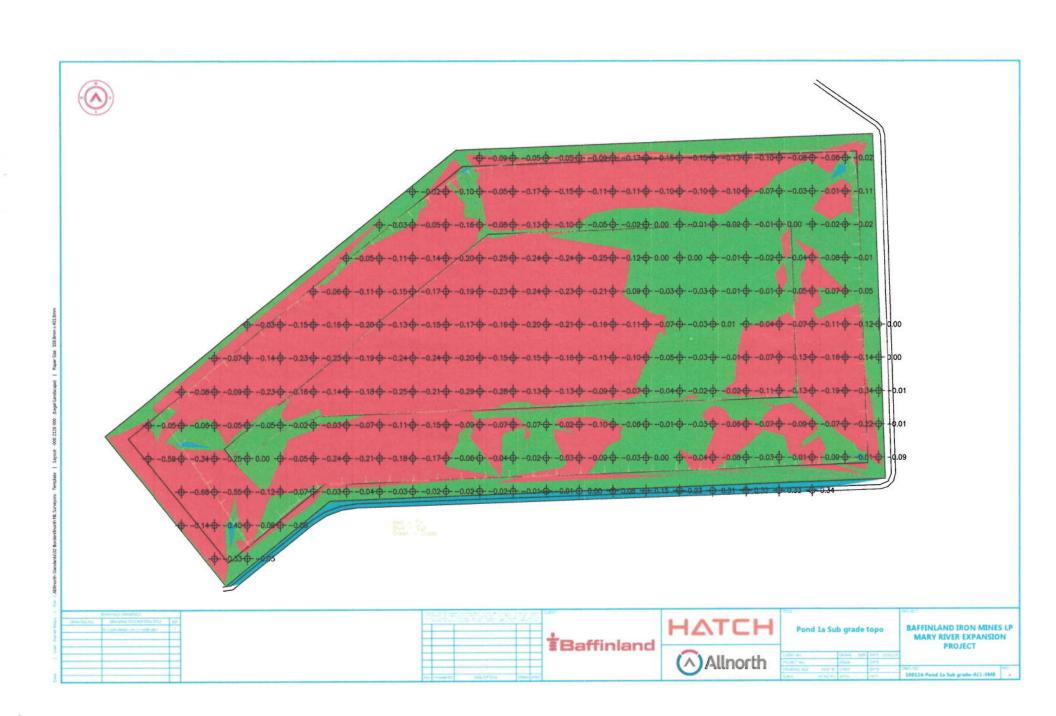
Nuna East Limited Quality Department Quality Surveillance Inspection Acceptance and Sign-off Report

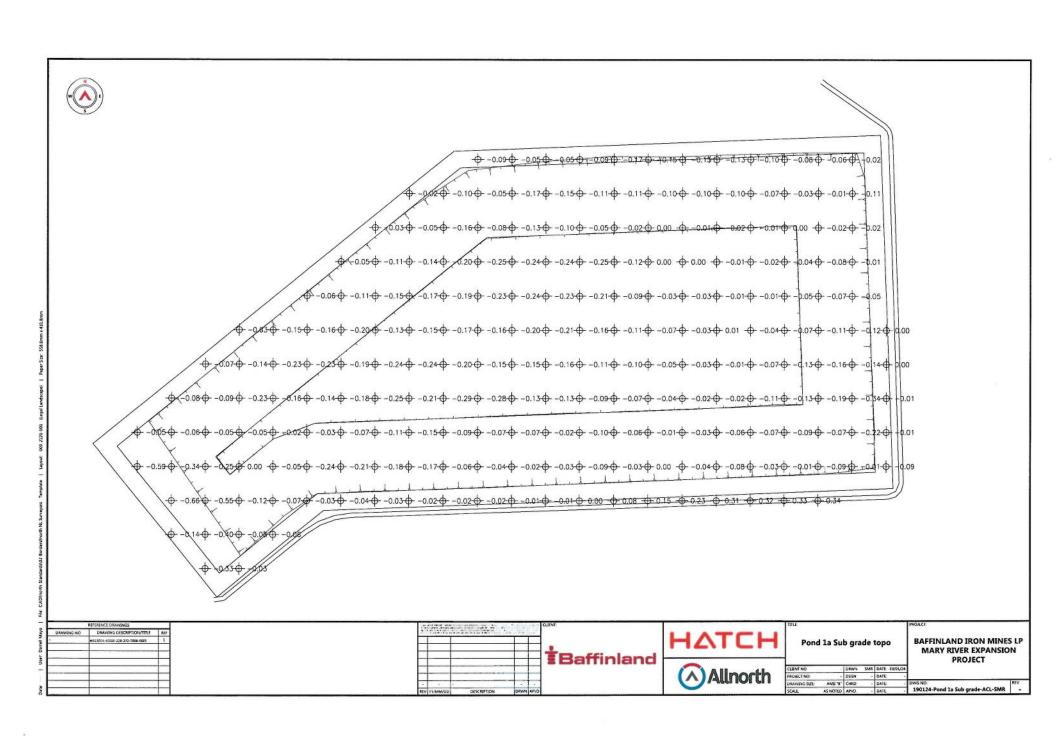
Milne Port Expansion Stage 3 Remaining Earthworks Project

Surface/Sub-grade Preparation Approval - POND IA

2.2

Item/Area Inspected:	
Date of Inspection:	JAN 24 2019
Parties Present at Inspection	Darke Filipie
Comments:	
fill Material. Sub-grade: Pond of 200 mm b excavated a the layer of	POND IA surface/sub-grade was conducted prior to placement of subgrade has been excavate to a minimum elow final grade. Some areas are over and will be brought to grade when placing type 5 material.
Permission to Proce	
The area and instruction	on described above is acceptable, the contactor is released to proceed with construction.
NUNA Representative: HATCH Representative:	Name Signature Date 24/01/19 Name Signature Date













Description of

Item/Area Inspected:

Date of Inspection:

Parties Present at Inspection

Permission to Proceed:

NUNA

HATCH

Representative:

Representative:



Nuna East Limited Quality Department Quality Surveillance Inspection Acceptance and Sign-off Report

Milne Port Expansion Stage 3 Remaining Earthworks

Construction Material Approval

Type: 8 (150mm minus)

2-3

Comments:	
Material confor	ion of the Type 8 Material from al Quarry was conducted to confirm Type 8 ms to specifications. inspections was performed on the Type 8 material a crushed in 2018 by Sana.
	forming Pand IA subgrade

The area and instruction described above is acceptable, the contactor is released to proceed with construction.



Description of

Item/Area Inspected:

Date of Inspection:

Parties Present at Inspection

Permission to Proceed:

NUNA

HATCH

Representative:

Representative:



NUNA East Limited Quality Department Quality Surveillance Inspection Acceptance and Sign-off Report

Milne Port Expansion Stage 3 Remaining Earthworks Project

(150 mm minus)

Approval of placement of material.

Location: POND IA

Jan 20 2019

2-4

Comments:
An inspection of the Type 8 material placement was conducted. The type 8 fill that was need to build up the borns and subgrade in Pond IA was inspected visual Material was placed and compacted using an excavator and DIs dozer. The grade, elevation and compaction were found to be acceptable.

The area and instruction described above is acceptable, the contactor is released to proceed with construction.



Comments:

NUNA

HATCH

Representative:

Representative:



2.5

Nuna East Limited Quality Department Quality Surveillance Inspection Acceptance and Sign-off Report

Project:	Milne Port Expansion Stage 3 Remaining Earthworks
Description of Item/Area Inspected:	Construction Material Approval Type: 5 (32 mm minus) Source: Q Quarry
Date of Inspection:	Jan 24 2019
Parties Present at Inspection	Stephane Gionet

A visual inspection of the Type 5 Material from al anary was conducted to confirm Type 5 Material conforms to specifications. Sample was taken from Type 5 stockpile in al and sent to BIM materials lab for analysis. As per Glen Peace (Hatch) the Type 5 material is ok. (see affactor email) Construction Material: Type 5 conforms to specifications and is approved for placement at
Permission to Proceed: The area and instruction described above is acceptable, the contactor is released to proceed with construction.
The area and instruction described above is acceptable, the contactor is released to proceed with construction.

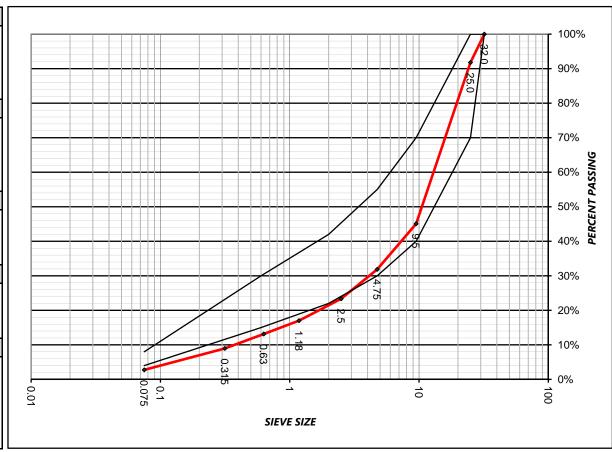
Signature



Sieve Analysis Report							
	2 Hunt's Lane, St. John's, NL A1B 2L3 Phone: 709-579-1492						
ASTM C-117; C-136 CAN/CGSB-8.2M							
Test Date:	30-Jan-19	Report Number:	1				
File Number:	18SJ0001 - Type 5 32mm minus	Inspector:	M Kirkbride				
Client:	Hatch	Sampled By:	B Motty				
Project:	BIM PSC Pond A1 Type 9	Sample Date:	28-Jan-19				
Location:	Stockplie, Milne Hill for Pond 1A	Сору То:					
Contractor:							

TEST RESULTS													
SIEVE SIZE (mm)	32	25	9.5	4.75	2.50	2.00	1.18	0.630	0.600	0.315	0.075		
MAX % PASS SPEC	100.0	70.0	40.0	30.0		22.0			15.0		4.0		
MIN % PASS SPEC	100.0	100.0	70.0	55.0		42.0			30.0		8.0		
% PASS RESULTS	100.0	91.8	45.1	31.9	23.4		17.0	13.1		9.0	2.8		

Type 5 SIEVE METHOD Dry % FRACTURE % MOISTURE GRADATIONS GRAVEL #N/A SAND #N/A SILT/CLAY #N/A



COMMENTS				
The sample is coarse on the 0.6mm and 0.075mm sieves.	Reviewed By:			
	MARKET			
	M Kirkbride			

Darko Filipic

From:

Gionet, Stephane <stephane.gionet@hatch.com>

Sent:

Wednesday, January 23, 2019 7:57 AM

To: Cc: Darko Filipic Coakley, Marlon

Subject:

FW: Material spec for Pond 1A

Importance:

High

Hi Darko

See email below form Glen

The type 5 is ok. Nuna can proceed with the installation as soon as Allnorth as the as-built completed.

Regards,

Stephane Gionet

From: Peace, Glen

Sent: Tuesday, January 22, 2019 5:36 PM

To: Gionet, Stephane <stephane.gionet@hatch.com>

Subject: FW: Material spec for Pond 1A

Importance: High

Stephane

FYI

Glen

From: Peace, Glen

Sent: Tuesday, January 22, 2019 3:03 PM

To: Coakley, Marlon < marlon.coakley@hatch.com>

Cc: Mills, Nick < nick.mills@hatch.com > Subject: Material spec for Pond 1A

Importance: High

Marlon

The type 5 is ok they can proceed. Please send me pictures of both the type 5 and the type 9. I need to review the type 9 with Geotech.

Glen Peace, P. Eng.

Field Engineering Manager Mary River Expansion Project

Email: <u>glen.peace@hatch.com</u> Tel: +1 905 4034200, ext. 7693





Description of

Item/Area Inspected:

Date of Inspection:

Parties Present at Inspection



2-6

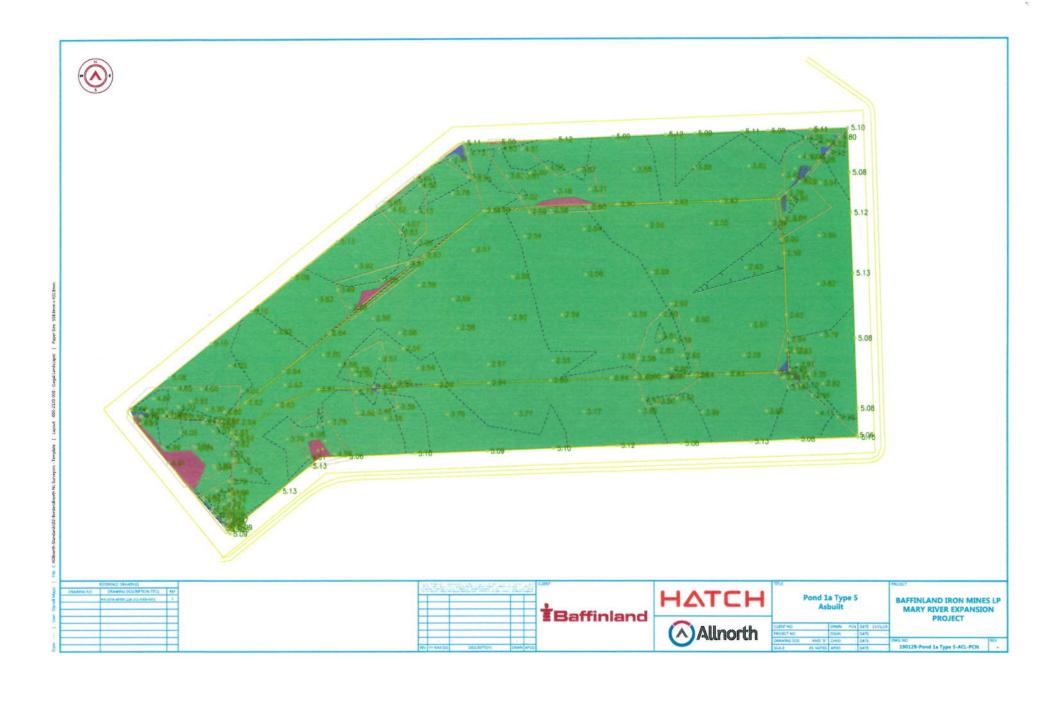
NUNA East Limited Quality Department Quality Surveillance Inspection Acceptance and Sign-off Report

Location: Pond 1A
January 29, 2019
Brandon Urghart

9	Quality Surveillance Inspection Acceptance and Sign-off Report
-	Milne Port Expansion Stage 3 Remaining Earthworks Project
The second name of the last	Approval of placement of material. Type: Type 5

Comments:	
An inspection of the Type 5	material placement was conducted.
The grade, elevation and compaction were found to be	a accentable
	иссерциые.
4 As per Allnorth asbuilt.	

Permission to P	roceed:		
The area and inst	ruction described above is accept	able, the contactor is released to p	roceed with construction.
	- (1	1 /m	/ /
NUNA Representative:	BRANDON VERSUHART Name	Signature	01 /29 / 19 Date
HATCH	Shane Gionet	Signature	61/29/19 Date
Representative:	Name 6/6nct	Signature	Date





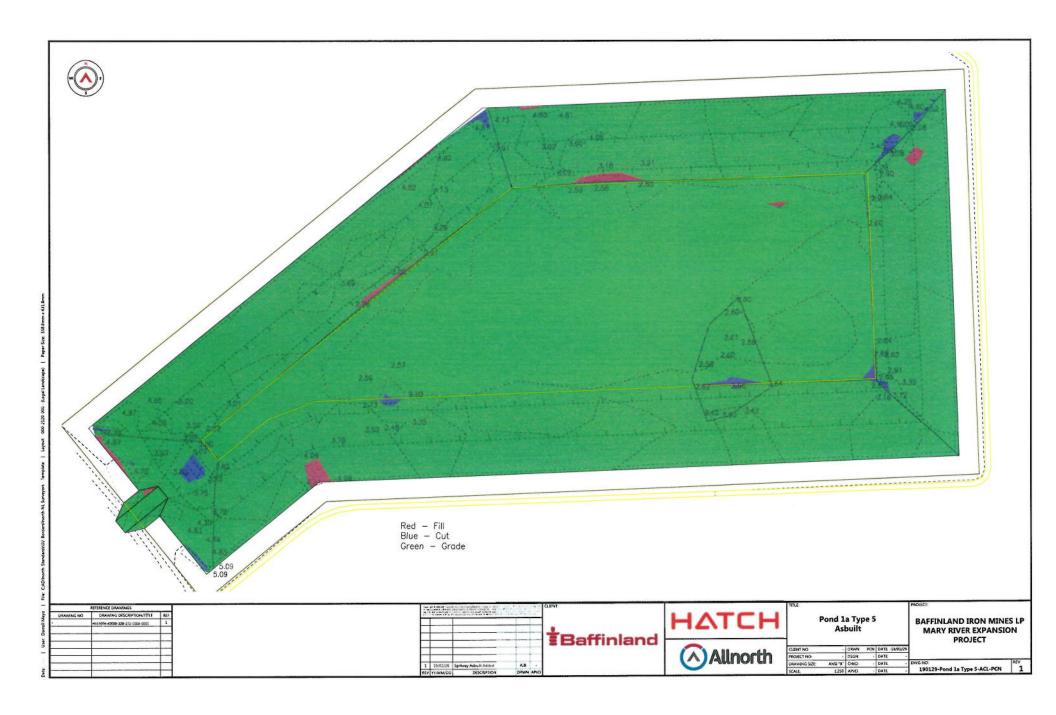


2.6

NUNA East Limited Quality Department Quality Surveillance Inspection Acceptance and Sign-off Report

Project:	Milne Port Expansion Stage 3 Remaining Earthworks Project
Description of Item/Area Inspected:	Approval of placement of material. Type: Type 5 Location: Pond (A West slope and spillway)
Date of Inspection:	2/19/2019
Parties Present at Inspection	Stephane Gionet (review) 56

Comments:				
An inspection of the	Type 5	mo	aterial placement was condi	ucted.
The grade, elevation	and compaction w	vere found to be accep	table.	
Permission to Pr	oceed:			
The area and instr	uction described	above is acceptable,	, the contactor is released	d to proceed with construction.
NUNA Representative: HATCH Representative:	Name Stephane Name	Filipie Gionet	Signature	$\frac{2/19/2019}{2}$ Date $\frac{19/02/19}{2}$ Date





Description of

Item/Area Inspected:

Date of Inspection:

Parties Present at

Permission to Proceed:

NUNA

HATCH

Representative:

Representative:

BRANDON

Inspection



Nuna East Limited Quality Department Quality Surveillance Inspection Acceptance and Sign-off Report

Milne Port Expansion Stage 3 Remaining Earthworks

Construction Material Approval

Source: POND LA STOCKPILE

Michael Kirkbride

JANUARY 27, 2019

Type: Type 9

2.7

Brandon Urquihart (email)

A visual inspection of the Type 9 Material from Born 1A stockpile was conducted to confirm Type 9 Material conforms to specifications. Sample was taken from Type 9 stockpile @ location of Pond 1A by Allhort Besults sent to Hatch and acceptable as per Adriaan Grobbelaar.		ments:
	۸.	mple was taken from Type 9 stackpile @ lacation of Pand 1A
Construction Material: Type 9 conforms to specifications and is approved for placement at Powel IA		

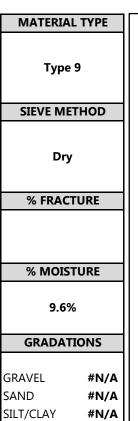
The area and instruction described above is acceptable, the contactor is released to proceed with construction.

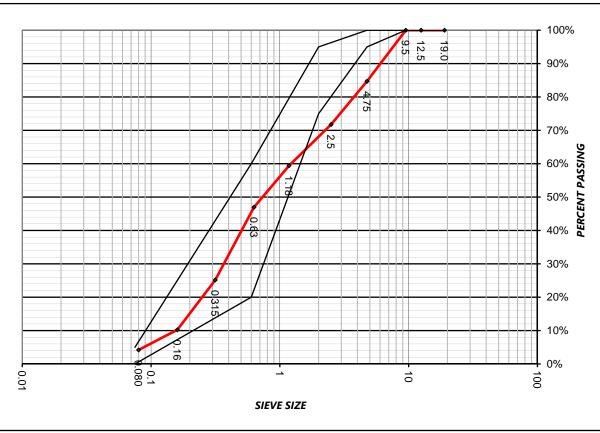
Signature



Sieve Analysis Report							
	4445 Greig Avenue, Terrace, BC V8G 1M4 Phone: 250-638-0808						
ASTM C-117; C-136 CAN/CGSB-8.2M							
Test Date:	26-Jan-19	Report Number:	1				
File Number:	18SJ0001 - Type 9 GSA	Inspector:	M Kirkbride				
Client:	Hatch	Sampled By:	B Motty				
Project:	BIM PSC Pond A1 Type 9	Sample Date:	26-Jan-19				
Location:	PSC Pond A-1 Re-Screen trial Run	Сору То:					
Contractor:							

TEST RESULTS														
SIEVE SIZE (mm)	19	12.5	9.5	4.75	2.50	2.00	1.18	0.630	0.600	0.315	0.160	0.080	0.075	
MAX % PASS SPEC	100.0	100.0	100.0	100.0		95.0			60.0				5.0	
MIN % PASS SPEC	100.0	100.0	100.0	95.0		75.0			20.0				0.0	
% PASS RESULTS	100.0	100.0	100.0	84.7	71.8		59.4	47.0		25.2	10.2	4.2		



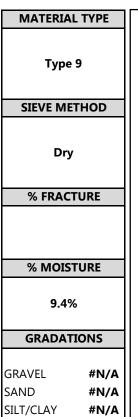


COMMENTS	
Material is coarse on the 4.75mm and 2.0mm based on the graphed values	Reviewed By:
and compared to site specification	. A
Approximately 15% passsing the 0.2mm sieve.	Market St.
	M Kidshaida
	M Kirkbride



Sieve Analysis Report							
4445 Greig Avenue, Terrace, BC V8G 1M4 Phone: 250-638-0808							
ASTM C-117; C-136							
Test Date:	26-Jan-19	Report Number:	1				
File Number:	18SJ0001 - Type 9 GSA	Inspector:	M Kirkbride				
Client:	Hatch	Sampled By:	B Motty				
Project:	BIM PSC Pond A1 Type 9	Sample Date:	26-Jan-19				
Location:	PSC Pond A-1	Сору То:					
Contractor:							

TEST RESULTS														
SIEVE SIZE (mm)	19	12.5	9.5	4.75	2.50	2.00	1.18	0.630	0.600	0.315	0.160	0.080	0.075	
MAX % PASS SPEC	100.0	100.0	100.0	100.0		95.0			60.0				5.0	
MIN % PASS SPEC	100.0	100.0	100.0	95.0		75.0			20.0				0.0	
% PASS RESULTS	100.0	100.0	99.8	82.8	66.2		51.9	38.5		18.7	7.8	3.8		





COMMENTS	
Material is coarse on the 4.75mm and 2.0mm based on the graphed values	Reviewed By:
and compared to site specification	. A
Approximately 12% passsing the 0.2mm sieve.	Intel 1
	M Kirkbride
	IVI NIIKUTIUE

Brandon Urquhart

From:

Brandon Urquhart

Sent:

Monday, January 28, 2019 6:30 AM

To:

Ken Humby; Don Weber

Cc:

Darko Filipic; Olivier Sonier; Joe Barron

Subject:

FW: Type 9 approved

FYI

Brandon Urquhart Project Coordinator

E <u>brandonu@nunalogistics.com</u> C +17806913582

NUNA EAST LTD.

PO Box 370

Pond Inlet, Nunavut, Canada, X0A 0X0

nunalogistics.com

You may withdraw consent for email communications from the Nuna Group of Companies by responding to the email with "Unsubscribe" in the subject line.

From: Gionet, Stephane <stephane.gionet@hatch.com>

Sent: Monday, January 28, 2019 6:28 AM

To: Brandon Urquhart <brandonu@nunalogistics.com>

Subject: Type 9 approved

Hi Brandon

Type 9 is acceptable please proceed with the installation when the type 5 as build will be completed.

Regards,

Stephane Gionet

Civil Supervisor Baffinland Project



stephane.gionet@hatch.com

From: Grobbelaar, Adriaan

Sent: Sunday, January 27, 2019 11:55 PM To: Mills, Nick <nick.mills@hatch.com>

Cc: Goosen, Rodney < rodney.goosen@hatch.com>; Peace, Glen < glen.peace@hatch.com>; Gionet, Stephane

<stephane.gionet@hatch.com>; Coakley, Marlon <marlon.coakley@hatch.com>

Subject: RE: Re; Type 9

Nick

Agreed – This is acceptable when compared with the spec.

Regards

Adriaan Grobbelaar

Associate

Tel: +27 11 239 5522 Cell +27 82 9033 967 58 Emerald Parkway Road, Greenstone Hill South Africa



From: Mills, Nick

Sent: Sunday, January 27, 2019 4:27 PM

To: Grobbelaar, Adriaan <a driaan.grobbelaar@hatch.com>; Goosen, Rodney <ra driaan.grobbelaar@hatch.com>

Cc: Coakley, Marlon <marlon.coakley@hatch.com>; Gionet, Stephane <stephane.gionet@hatch.com>; Peace, Glen

<glen.peace@hatch.com>
Subject: Fwd: Re; Type 9

Adrian

See attached samples taken for type 9 by our QA contractor. Please review and comment. I believe they are close enough.

Thanks

Nick

Sent from my iPhone

Begin forwarded message:

From: Michael Kirkbride < mkirkbride@allnorth.com >

Date: January 27, 2019 at 9:28:07 AM AST

To: "Coakley, Marlon" < marlon.coakley@hatch.com >, "Mills, Nick" < nick.mills@hatch.com >

Cc: "Peace, Glen" <glen.peace@hatch.com>, "Gionet, Stephane" <stephane.gionet@hatch.com>, Bill

Motty

bmotty@allnorth.com>

Subject: RE: Re; Type 9

Good day

Please see the attached test results completed by Alinorth from yesterday. Two samples were completed (1- of the existing pile, 2- of the rescreened trial)

In review the material is coarse on the 4.75 and the 2.0mm when compared to the Hatch Specification Quarried Fill Material Specification 2016-12-14. The rescreen trial did improve the coarse fraction marginally but still not within specification. Additional screening to improve the coarse fraction may cause the fines fraction to go out of specifications

0.2mm is approximated at 12% and 15% on the two samples.

Previous samples completed at Mary River will follow shortly with the data shown accordingly. The information from those sieves will be limited as they were completed by others but show general correlation to the samples completed by Allnorth. I hope this helps to provide resolution to the situation.

Cheers

N O T1C E - This message from Hatch is intended only for the use of the individual or entity to which it is addressed and may contain information which is privileged, confidential or proprietary. Internet communications cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, arrive late or contain viruses. By communicating with us via e-mail, you accept such risks. When addressed to our clients, any information, drawings, opinions or advice (collectively, "information") contained in this e-mail is subject to the terms and conditions expressed in the governing agreements. Where no such agreement exists, the recipient shall neither rely upon nor disclose to others, such information without our written consent. Unless otherwise agreed, we do not assume any liability with respect to the accuracy or completeness of the information set out in this e-mail. If you have received this message in error, please notify us immediately by return e-mail and destroy and delete the message from your computer.





2-8

NUNA East Limited Quality Department Quality Surveillance Inspection Acceptance and Sign-off Report

Project:	Milne Port Expansion Stage 3 Remaining Earthworks Project
Description of Item/Area Inspected:	Approval of placement of material. Type: Type 5 and Type 9 key Transh Location: Powo IA Key Transh 0+30-0+170
Date of Inspection:	February 13, 2019
Parties Present at Inspection	Allnorth Survey, Allnorth QA, Layfreld

Comments:	
An inspection of the Type 5 and 9 ma	sterial placement was conducted.
Section 0+030 > 0+170	
The grade, elevation and compaction were found to be accept	table.

Permission to Pr	roceed:		en majerial politica de la francia de la
The area and inst	uction described above is accept	table, the contactor is released t	to proceed with construction.
NUNA Representative: HATCH Representative:	BRANDON (Jednysper Name Dave Burry Name	Signature Signature	02/(7/2019 Date 02/13/19 Date





Construction Management Form Site Contracts Administration Request for Information

Project Name:	Mary River Expa	ansion Stage 3	Project Number:	H353004	
CWP No:			RFI No:0021		
Contractor: Nun	a East Ltd.		Contract No: CC	006	
Initiated By: Bra	ndon Urquhart		Cost impact?	Y□ / N⊠	
Date of Submitta	al: 2019-02-10		Schedule Impact	t? Y□ / N ⊠	
feasible to build we due to the risk of key at a 1:1 slope	g a design change with the available mathematic the pond crest collaboration to allow for geotechnic	aterial and ground apsing during cons chnical stability du	d conditions. The ke struction and liner in ring construction and aries) Type 5 Type 9 Type 9	nstructible. The current design is not y cut cannot be made as a straight wall installation. Nuna proposes to cut the liner ind installation. This would override RFI 15	
Reference Docur	nent No.	Revision	Title/Description		
RFI - 0015			Pond 1A Liner T	rench	
RFI Classification	n:				
Design		⊠		Construction Fathricator/Vendor	
Routine Request	П	Clarificatio	n	Other \square	





Construction Management Form Site Contracts Administration Request for Information

Project Response: [attach suff	icient detail as required]				
Slope of 1:1 is not acceptab	ole. Slope is to be minimize	ed.			
RFI Follow-up Requirements:					
Contract Order Issued Yes ☐ /	No [([insert associated trac	cking #]) Back-Charge Req	uired (Yes ☐/No ☐)		
As-Built Required Yes ☐ /	No 🗌	Materials I	Required (Yes /No)		
RFI Receipts and Approvals					
Stakeholder	Name	Signature	Date <yyyy-mm-dd></yyyy-mm-dd>		
X .		Oignatare	Date < T T T T-IVIIVI-DD>		
Hatch Construction Management	Nick Mills				
Hatch Construction Management Hatch Engineering Home Office ☐ Site ☐		Me Peace	MAZ \$/18 2019-03-01		
Hatch Engineering	Nick Mills	Me Peace	Mar \$/18		

Request for Information

Note: The response to this RFI is NOT an authorization to perform a change to the Contract. Work may proceed in accordance with the response only if such work involves NO change in cost or schedule. In the case where the response may involve change in cost or schedule, a Contractual instrument must be issued by Hatch and received by the Contractor before the response can be executed. Where no Contractual instrument is indicated, action must be taken in accordance with (reference appropriate Contract Sections that authorize execution of any change in schedule and cost).





Construction Management Form Site Contracts Administration Request for Information

Project Name: Mary Riv	ver Expa	nsion Stage 3	Projec Numbe	t er:	H353004		
CWP No:			RFI No:0012 005				
Contractor: Nuna East Ltd	ı.		Contra	ct No: CC	006		
Initiated By: Darko Filipic			Cost in	npact?	Y□ / N	\boxtimes	
Date of Submittal: 2019-01	1-21		Sched	ule Impact	? Y□/N	\boxtimes	
Information Requested: Nuna is proposing a design change to the trench liner detail in order to make it constructible. The current design is not feasible to build in the existing frozen conditions and with the equipment available to the project. Nuna is proposing to cut the backslope of the berm from the liner trench to the invert of the stormwater cutoff ditch. The liner would then be laid down over bedding on this cut section and then backfilled over to the design grades of the pond crest. See attached diagram for clarification. Constructing the liner trench in this manner should achieve the intended purpose of anchoring the liner material at the crest of the pond.							
Reference Document No.		Revision		escription			
H353004-40000-228-272-0008-0001 1		1	Port S	ite Stockp	ile 1, Pond 1A F	Plan & F	Profile
RFI Classification:							
Design		Constructi	on		Fabricator	/Vendor	
Routine Request Clarification		on			Other		
Project Response: [attack	ch sufficie	ent detail as requir	red]				
The proposed alternative anchor trench is acceptable. There should however be no additional cost to the Owner because of this alternative.							
RFI Follow-up Requirements:							
Contract Order Issued Yes \[\]/No \[\] ([insert associated tracking #]) Back-Charge Required (Yes \[\]/No \[\] As-Built Required Yes \[\]/No \[\] Materials Required (Yes \[\]/No \[\])			(Yes				
RFI Receipts and Appro	vals				-		
Stakeholder	N	lame		Signatur	е	Date <\	YYYY-MM-DD>
Hatch Construction Management		1 mica	_0	MI	THE STATE OF THE S	-J2	122/8
Hatch Engineering Home Office ☐ Site ☐	A	driaan Grobbelaa	r	() A	Q		ary 2019
Hatch Project Management		V-LAVRIC		U- (avrif	229	an 2018

E353004-CC006-400-465-0015





Baffinland Iron Mines LP
Mary River Expansion Stage 3
H353004

Client (as required):

Construction Management Form
Site Contracts Administration
Request for Information

Request for Information

Note: The response to this RFI is NOT an authorization to perform a change to the Contract. Work may proceed in accordance with the response only if such work involves NO change in cost or schedule. In the case where the response may involve change in cost or schedule, a Contractual instrument must be issued by Hatch and received by the Contractor before the response can be executed. Where no Contractual instrument is indicated, action must be taken in accordance with (reference appropriate Contract Sections that authorize execution of any change in schedule and cost).

RFI015 - DESIGN CHANGE PROPOSAL

In order to be able to construct the pond liner anchor trench in the existing frozen conditions, Nuna is proposing to change the design as detailed in the bottom right diagram.

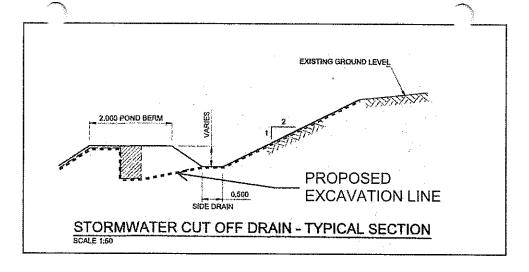
Nuna proposes to build up the pond crest to the edge of the trench, then cut the back slope of the trench to the invert elevation of the stormwater cut-off ditch.

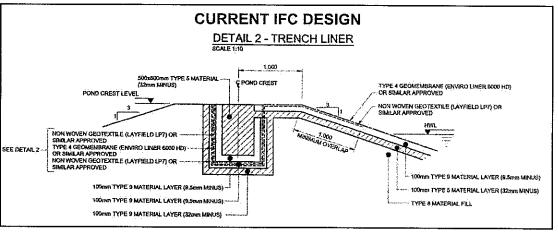
100mm Type 5 bedding material will then be placed on the excavated surface.

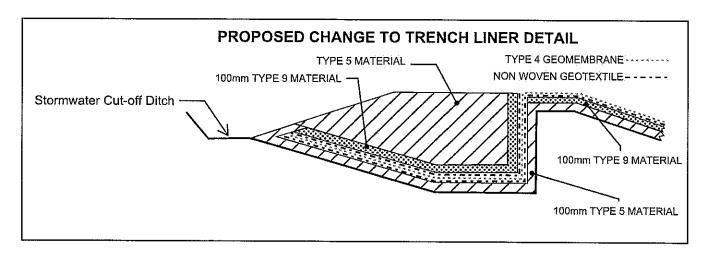
The non-woven geotextile layer from the pond will be extended over the bedding,

Then the Type 4 geomembrane followed by another layer of non-woven geotextile.

The geotextile will then be covered with 100mm of Type 9 material and the rest of the berm will be built up with Type 5 material.











NUNA East Limited Quality Department Quality Surveillance Inspection Acceptance and Sign-off Report

2.8

Project:	Milne Port Expansion Stage 3 Remaining Earthworks Project		
Description of Item/Area Inspected:	Approval of placement of material. Type: Type 5 and Type 9 Location: Pand 1A Key Trench 0+170 to 0+200		
Date of Inspection:	Feb 17 2019		
Parties Present at Inspection	Darko Filipia		

Comments:	
An inspection of the Type 5 and Type 9 material placement was conducted. Bedding material along bottom of key trench as per RFI-21 instructions. B sections approved from 0+030 to 0+010	was placed
0+170 to 0+200.	
The grade, elevation and compaction were found to be acceptable.	

Permission to P	roceed:		
The area and inst	ruction described above is acceptab	le, the contactor is released to p	roceed with construction.
NUNA	Darko Filipic	alty	02/17/19
Representative:	Name	Signature	Date
HATCH	Kenny Mackal	MAC	02/17/19
Representative:	Name ()	Signature	Date





2.8

NUNA East Limited Quality Department Quality Surveillance Inspection Acceptance and Sign-off Report

Project:	Milne Port Expansion Stage 3 Remaining Earthworks Project
Description of Item/Area Inspected:	Approval of placement of material. Type: Type 9 Location: Pour IA Subgrade of Liver
Date of Inspection:	February 13, 2014
Parties Present at Inspection	Allnorth Survey, Allnorth QA, Layfreld

Comments:
An inspection of the Type Q Material material placement was conducted.
Section 0+30 - 0+170
The grade, elevation and compaction were found to be acceptable.

Permission to Pr	roceed:		
The area and instr	ruction described above is acceptal	ole, the contactor is released to	proceed with construction.
			2
NUNA Representative: HATCH Representative:	Branden Urangary Name Dave Burry Name	Signature Signature	02/13/2019 Date 02/13/19 Date
<u>kepresentative</u> .	Name	Signature	Date



Project:

Description of

Item/Area Inspected:

NUNA

HATCH

Representative:

Representative:



NUNA East Limited Quality Department Quality Surveillance Inspection Acceptance and Sign-off Report

Milne Port Expansion Stage 3 Remaining Earthworks Project

Location: Pond 1A

Approval of placement of material.

Type: 9 (3/8" minus)

2.8

CARLES OF STREET, STRE	1110
Date of Inspection:	Feb 17, 2019
Parties Present at	Darko Filipic
Inspection	All North Survey, All North QA, Layfield
i i	
Comments:	
	material placement was conducted. n 0+30-0+170 to 0+10-0+200 has been design grades as confirmed by Survey.
The grade, elevation and	d compaction were found to be acceptable.
Permission to Proce	ed:

The area and instruction described above is acceptable, the contactor is released to proceed with construction.





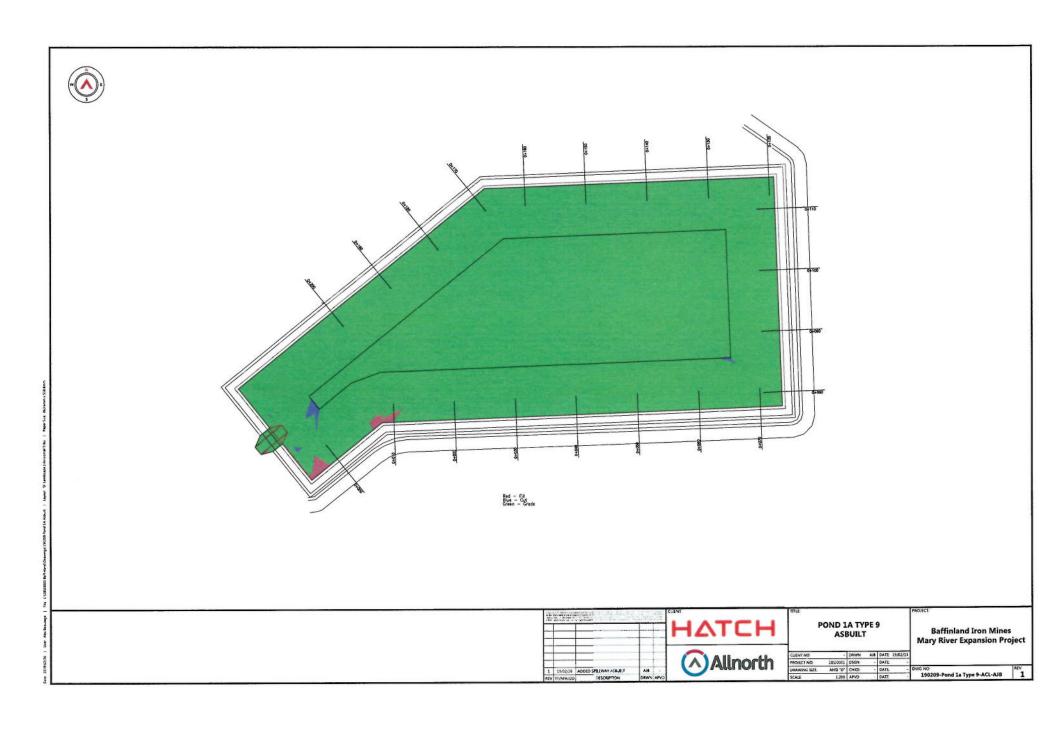
2-8

NUNA East Limited Quality Department Quality Surveillance Inspection Acceptance and Sign-off Report

Project:	Milne Port Expansion Stage 3 Remaining Earthworks Project		
Description of Item/Area Inspected:	Approval of placement of material. Type: Type 9 Location: Pand (A west slape and spillwey)		
Date of Inspection:	February 19,2019		
Parties Present at Inspection	Darko Filipia		

Comments:
An inspection of the Type 9 material placement was conducted. Material was placed and compacted with a 336 excavator. Survey confirmed grades prior to liner placement
The grade, elevation and compaction were found to be acceptable.

Permission to P	roceed:							
The area and instruction described above is acceptable, the contactor is released to proceed with construction.								
NUNA Representative: HATCH Representative:	Name Stephane Name	Cionet Cionet	Signature	2/19/19 Date 19/02/19 Date				







NUNA East Limited Quality Department Quality Surveillance Inspection Acceptance and Sign-off Report

Project:	Milne Port Expansion Stage 3 Remaining Earthworks Project				
Description of Item/Area Inspected:	Approval of placement of material. Type: 9 (3/8") minus Location: Pand 1 Spillway				
Date of Inspection:	March 23, 2019				
Parties Present at Inspection	Darko Filipie Alex Beaucage Scott Mackenzie Stephane Gianet				

Comments:
An inspection of the Type 9 material placement was conducted. The existing liner was cut and pulled back to allow placement of fill material to bring the elevation of the spillway to 4.825 m, as directed. The Type 9 naterial was placed manually using sharels. Survey confirmed the desired elevation was achieved prior to reweld of the liner. The grade, elevation and compaction were found to be acceptable.

Permission to P	roceed:		
The area and inst	ruction described above is acceptable	e, the contactor is released to p	roceed with construction.
NUNA Representative: HATCH Representative:	Darko Filipic Name Stephane Glanet Name	Signature	3/23/19 Date 23/03/19 Date





NUNA East Limited Quality Department QCD-005 Construction Punchlist

4.2

Quality Surveillance Inspection Acceptance and Sign-off Report

Project:	Milne Port Expansion Stage 3 Remaining Earthworks Project
Description of Item/Area Inspected:	Pond 1A Punchlist

No.	Description		ened I/Date)	Clo (Initial	sed /Date)
		Nuna	Hatch	Nuna	Hatch
	complete liner installation and	CH	56	07	Vo
1	tie-in to land 1	02/27	27/02/19	03/02	71.0
2	Clear up material from crest of	£7	56	07	1/
	pond.	02/27	27/02/19	3/5	7,50
3	Level aff top of bern (hand work)	PT	56	2/-3-	1
	clean out all sand bags and construct	12/27	27/32/19	03/03	112
4	debris from pand	4	56	03/039	K.C
	Complete stormwater ditch, including	07	27/02/19	2	1/2
5	out let	02/27	27/62/19	03/057	K. C.
6	Complete Key trench bern	Q7	56	07	VI
6	•	02/27	27/62/19	03/06	7.6
7	Layfield to complete installation	OF	56	27	Va
/	report and turnover documentation	02/27	27/02/19	03/02/	n.C
8	cut North slope of pand to 3:1.	03/05	KC.	OF.	1
-		03/03	1/2	03/01/	1
If add	itional items need to be added start a new sheet and make a note in the comme	ents section	n below.		

Permission to Proceed:

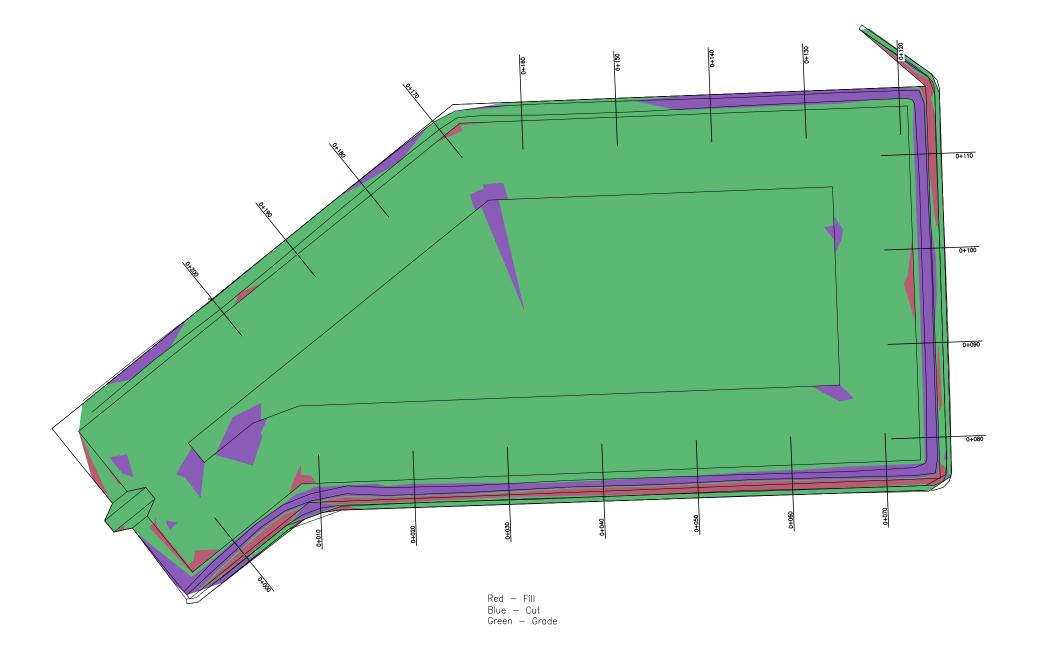
All punch list items have been identified, corrected and accepted.

NUNA
Representative:
HATCH

Name

Representative:





VOLUME BASED ON 4.7m HIGH WATER MARK = 3360m³ VOLUME BASED ON 4.5m HIGH WATER MARK = 2760m³

Copyright of Ahron's Corpulation Limited and affiliated companies. All ingits reserved. The information contained or in the document is the end-user person's Allows Corpulation Limited and affiliated contained or in the contai

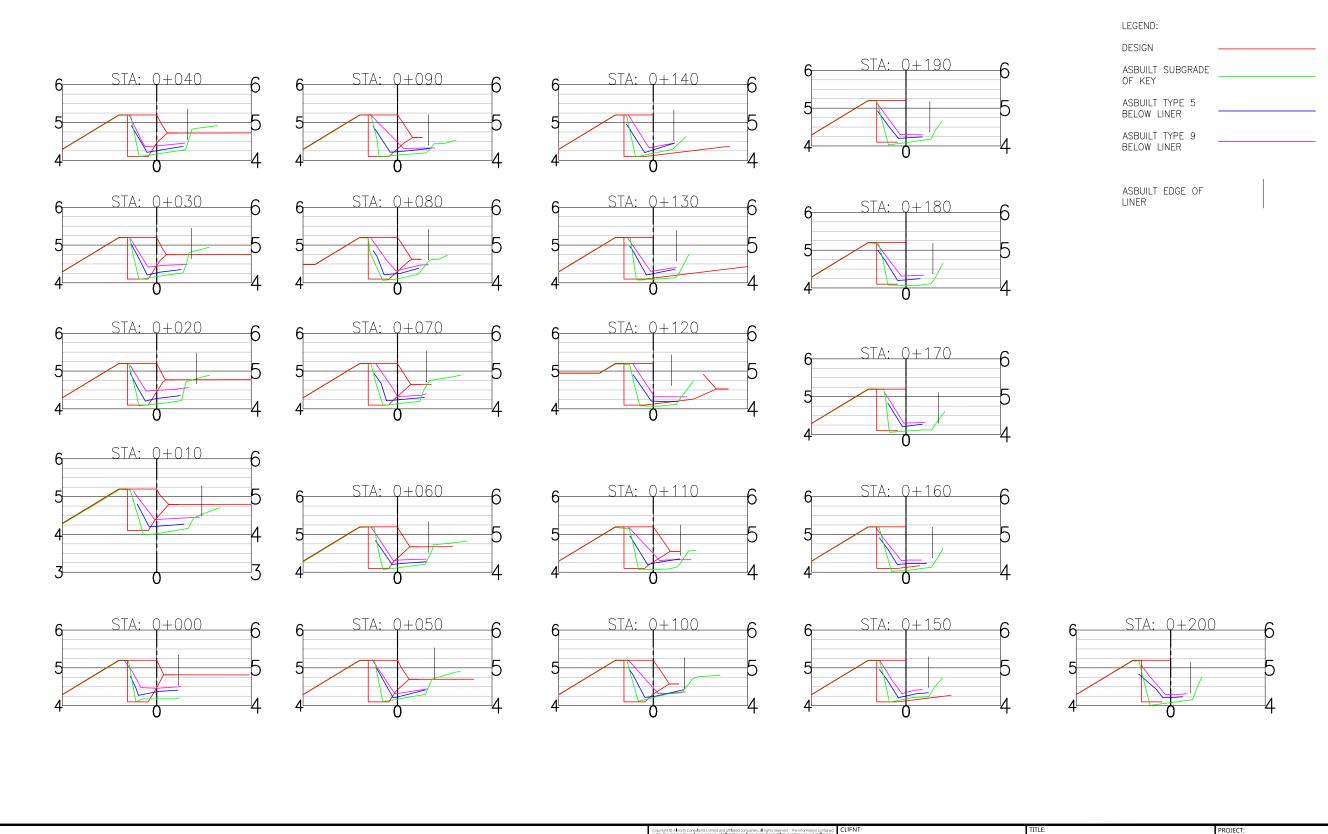
POND 1A FINAL ASBUILT PLAN

Baffinland Iron Mines Mary River Expansion Project

LIENT NO:	-	DRWN:	AJB	DATE:	19/03/06	
ROJECT NO:	18SJ0001	DSGN:		DATE:	-	
RAWING SIZE:	ANSI "D"	CHKD:	-	DATE:	-	D۷
CALF:	1:200	APVD:	-	DATE:	-	

- DWG NO: REV 190306-Pond 1a Final Asbuilt Plan

Date: 2019/03/07 | User: Alex Beaucage | File: C:\185.0001 Baffinland\Drawings\19030





Allnorth

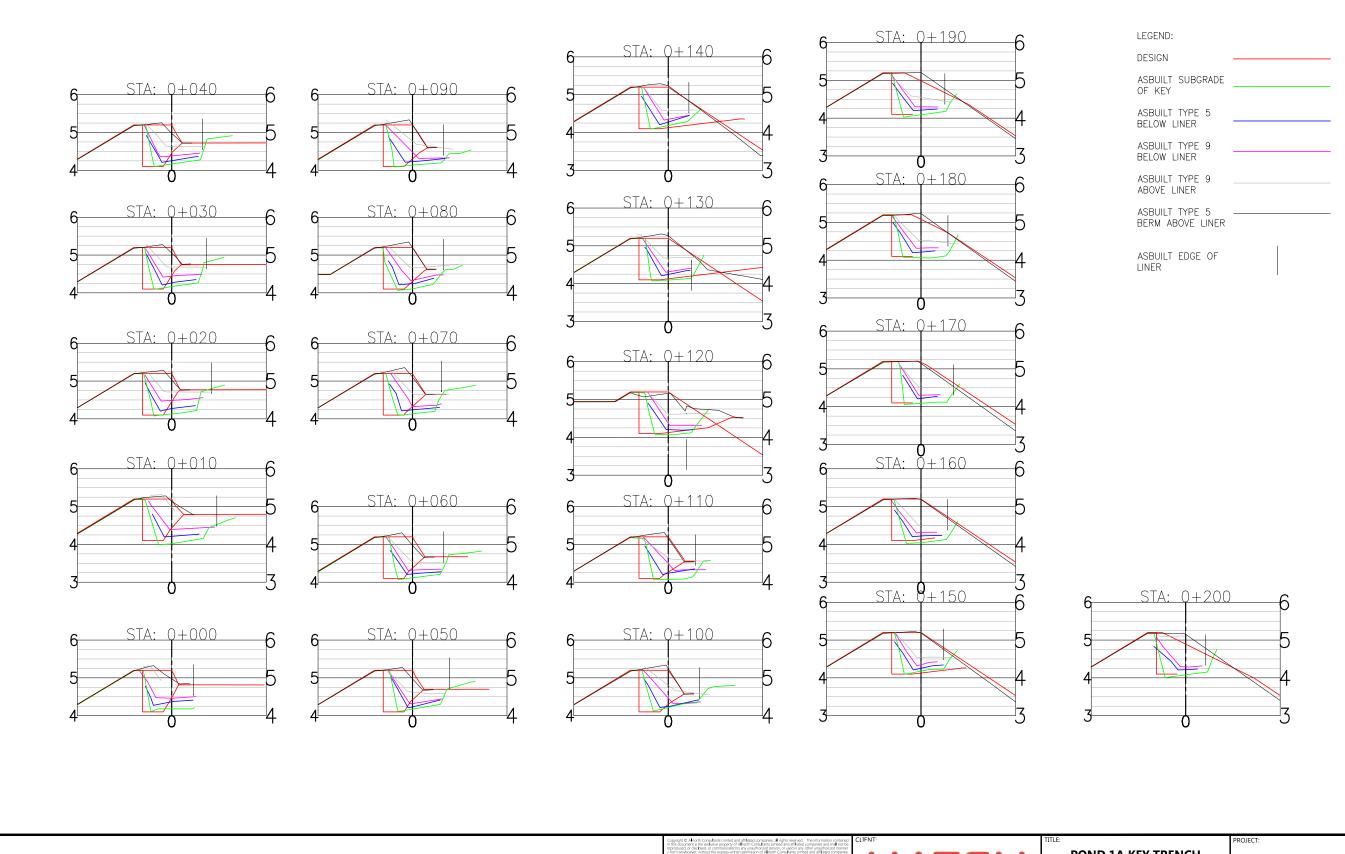
POND 1A KEY TRENCH ASBUILT LAYERS BELOW LINER

Baffinland Iron Mines Mary River Expansion Project

 CLIENT NO:
 DRWN:
 AJB
 DATE:
 19/03/r

 PROJECT NO:
 18SJ0001
 DSGN:
 DATE:
 - DATE: DRAWING SIZE: ANSI "D" CHKD:

DWG NO: 190306-Pond 1a Trench Asbuilt Below Liner 0



Date: 2019/03/07 | User: Alex Beaucage | File: C\185,0001 Baffinland

HATCH
(A)Allnorth

DESCRIPTION

POND 1A KEY TRENCH
ASBUILT LAYERS
OVERALL

JILT LAYERS
DVERALL

Baffinland Iron Mines
Mary River Expansion Project

 CLIENT NO:
 DRWN:
 AJB
 DATE:
 19/03/07

 PROJECT NO:
 18SJ0001
 DSGN:
 DATE:

 DRAWING SIZE:
 ANSI "D"
 CHKD:
 DATE:

 SCALE:
 APVD:
 DATE:

DWG NO:
190307-Pond 1a Trench Overall Asbuilt





NUNA East Limited Quality Department QCD-005 Construction Punchlist

Quality Surveillance Inspection Acceptance and Sign-off Report

	ription of /Area Inspected:	Pond 1A Punchlist							
No.		Description	Ope (Initial	/Date)	(Initial	sed /Date)			
9 Raise Pond 1 Overflo	nd 1 Overflow spillway to elev. 4.825 (per N. Mills)	Nuna ,07 03/21/19	Hatch	Nuna 04 03/25/19	14 S C 25/63/1				
	litional items need t	to be added start a new sheet and make a note in the co	mments sectio	n below.					

Permission to Proceed: All punch list items have been identified, corrected and accepted. Darko Filipic NUNA Name ; Representative: **HATCH** Representative: Signature Date





Appendix D Spill Reports





INCIDENT MANAGEMENT REPORT

BASIC DETAILS Date Record Created: 07-Nov-18 Incident Status Complete

Incident Number | INC105303 | Client Incident Number

Incident Date 07-Nov-18 Incident Time 11:10 AM

Reported By WEBER, Don Supervisor at Time of Incident GUNTER, Jordan

Reported Date 07-Nov-18 Reported Time 11:10 AM

Project Responsible H-353004 Mary River Expansion Stage 3 by Nuna Logistics Contractors in Mississauga

Exact Location Pond 1A expansion

Is this a Work related incident? Yes Has this incident been reported to Authorities? No

Is this a Hatch Controlled site or a Hatch employee working on a client site? Yes

INCIDENT DESCRIPTION

Summary 3L Oil Spill At Pond 1A (Pond under construction, not containing any water) excavation

Incident Type Equipment Failure

Detailed Description

At approximately 11:00AM on November 7, 2018 3L of hydraulic oil contacted the ground. The operator of Toromont 349F excavator was digging out blasted material at pond 1A, when he noticed oil on the track. The operator immediately walked the equipment off the pile where mechanics would be able to look at the issue. He then shut down the machine and called his supervisor. Excavator walked off pile to safe area where it can me assessed, equipment shut down, spill pads placed, scene secured

CONSEQUENCES

CATEGORY ACTUAL POTENTIAL Injury / Illness <Undefined> CUndefined>

Environment 1 - Minor Pollution - Easy to clean up 1 - Minor Pollution - Easy to clean up

Plant / Equipment Damage <Undefined> <Undefined>

Motor Vehicle Accident <Undefined> <Undefined>

Financial <Undefined> <Undefined>

Outrage / Reputation <Undefined> <Undefined>

Security <Undefined> <Undefined>

Quality <Undefined> <Undefined>

Maximum Potential Score 1

IMMEDIATE CORRECTIVE ACTIONS

Immediate Corrective Actions

The operator immediately walked the equipment off the pile where mechanics would be able to look at the issue. He then shut down the machine and called his supervisor. Excavator walked off pile to safe area where it can me assessed, equipment shut down, spill pads placed, scene secured

NOTIFICATION

People Immediately Notified People to be Notified (mandatory for all incidents >=3)

COAKLEY, Marlon PERRY, Steven
GOULD, Robert PIETRASZ, Jared
MOFFETT, Dean
BARREIRA, Dominic

SHAIN, William CAMPBELL, Kevin GAGNON, Pierre GARDINER, Darren KENNEDY, Robert

Safety Coordinator Hatch Supervisor (who will review this notification)

GOULD, Robert KENNEDY, Robert

Person Entering Record

HARVEY, Michael

Incident Report Page 1 of 3 Executed On: 07-Mar-2019
Rev 10 WorkingTegether



INCIDENT MANAGEMENT REPORT

INVESTIGATION

Investigator

Investigation Team

KENNEDY, Robert

HARVEY, Michael

Detailed Investigation Description

At approximately 11:00AM on November 7, 2018 3L of hydraulic oil contacted the ground. The operator of Toromont 349F excavator was digging out blasted material at pond 1A, when he noticed oil on the track. The operator immediately walked the equipment off the pile where mechanics would be able to look at the issue. He then shut down the machine and called his supervisor. Excavator walked off pile to safe area where it can me assessed, equipment shut down, spill pads placed, scene secured. Hydraulic line coupler failure

List of known witnesses to incident

,

Location of supporting documents (attachments)

C:/Users/harv93377/Pictures/20181107_123129.jpg

ENVIRONMENT

Type of ecological loss

Habitat

Impact initiating eventSpill and releaseHabitat descriptionSpill on to blasted rock.

Details

Hydraulic line coupler failure. Spill pads and manual shoveling of material in to guatrex bags

Species No

Number Protected

ROOT CAUSE ANALYSIS

Were procedures/safe systems of work/work instructions adequate? Yes

Was training adequate? Yes

Was quality control adequate? Yes

Was communication adequate? Yes

Is the management system adequate? Yes

Is the human engineering adequate? Yes

Was the immediate supervision adequate? Yes

Was the plant design adequate? Yes

Was the hardware adequate? Yes

Was the maintenance management adequate? Yes

Was housekeeping adequate? Yes

Was there clear guidance about priorities? Yes

Were the defences adequate? Yes

Was contractor management and alignment adequate? Yes

Was hazard identification adequate? Yes

Were there any other contributing factors? Yes

Details of other contributing factors

Defective Parts / Tools / EquipmentTemperature Extremes

INCIDENT MANAGEMENT REPORT

	EC		VC.	TΙΟ	VIC
JU	E	TIVE	ΑU	וטו	N O

Action No.	Action	Assigned To	Due Date	Completion Date
ACT112937	Clean up spill. (see photo)	KENNEDY, Robert	7-Nov-18	7-Nov-18
	Defective parts-hose coupler failure. Request that Toromont make required repairs.	KENNEDY, Robert	7-Nov-18	18-Nov-18

KEY LEARNINGS

INVESTIGATOR COMMENTS

Investigation complete

Reviewed by: KENNEDY, Robert Date: 10-Nov-18

HEALTH & SAFETY HUB LEAD / PROJECT HEALTH & SAFETY MANAGER COMMENTS

Closed

Reviewed by: GOULD, Robert Date: 10-Nov-18

SUPERVISOR / TEAM LEADER / CONTRACT COORDINATOR COMMENTS

Investigation complete.

Reviewed by: KENNEDY, Robert Date: 10-Dec-18

BU PROJECTS DIRECTOR / PROJECT OR CONSTRUCTION MANAGER COMMENTS

Reviewed by: Date:

BUSINESS UNIT DIRECTOR / REGIONAL PDG LEAD COMMENTS

Reviewed by: Date:

REGIONAL MANAGING DIRECTOR COMMENTS

Reviewed by: Date:



		STEP 1. INITIA	AL REPORT OF T	HE INCIDENT (Su	pervisor)			
Date of Event	Time of Ev	vent Date Report	ted Time Report	ed Main Pers	on Involved	Reported By		
17-Jan-19	11:30	17-Jan-19	11:30	Dave	Whelan	Dave Whelan		
Employer		Contractor (If Applica	able)	BIM Department		Location		
Baffinland		Nuna		Projects		Port Site		
Supervisor		Supervisor	· Certificate # D	etailed Location			_	
Joe Barron				ond 1A				
Health & Safety Environment Operations Repu					Reputa	ition		
☐ Injury			<u> </u>	Property Damage		ecurity		
Illness		☐ Wildlife Inter	raction [Vehicle Accident	□ N	lon-compliance		
		Land disturb	pance [Fire	□ N	lon-conformance		
Brief Title								
Cat 374 Excavator I	اydraulic S	pill						
			Detailed Des	cription			_	
	tely shut do	own the machine, call	ed supervisor and b	egan containment. A	pproximately 25L of			
	Immedi	iate Actions Taken to	Secure Scene, Prote	ct People or Environr	nental and Equipme	ent ——————	_	
Machine shut dow	n, supervisc	or contacted, spill con	ntainment deployed	•				
			Preliminary Cause	of the Incident				
Hydraulic line leak.								
Would you conside	r this a "nea	ar miss" incident?						
Is this a " <u>Dangerous</u>	Occurrenc	<u>ce</u> " under Section 16.0	01 of the NWT/Nuna	vut Mine Health and S	Safety Regulations?			
Is this a " <u>Serious Inj</u> i	ury" under S	Section 16.01 of the N	NWT/Nunavut Mine	Health and Safety Reg	gulations?			
Using the <u>Incident (</u>	<u>Classificatio</u>	on Matrix the Actual C	Consequence of this	incident was Mi	nor			
Using the <u>Incident (</u>	<u>Classificatio</u>	on Matrix the Reason	able Potential Con	ـــ sequence of this incic	dent was Mino	r		
Conseq	luences	Minor	Medium	Serious	Major	Catastrophic		
Health a	nd Safety	No Injury, Bump & Scrape	First Aid	Medical Treatment or Restricted Work Injury	Lost Time Injury	Fatality		
Enviro	nment	Non-reportable spill, No impact	Reportable Spill No impact	Reportable Spill Reversible Impact	Reportable Spill Long-Term Impact	Reportable Spill Irreversible Impact		
Opera	ations	< \$5K Loss	\$5K to \$50K Loss	\$50K to \$250K	\$250K to \$1000K	> \$1000K		
Reput	tation	Community complaint - isolated and resolved Potential noncompliance with no impact	Low Level community impact Non-compliance with potential for fine or order	Community dissatisfaction Non-compliance with fine or order issued	Significant social harm Breach of license	Permanent social harm License Revocation		



STEP 1. INITIAL REPORT OF THE INCIDENT (Supervisor)									
Date o	f Event Time o	of Event Date	Reported	Time Report	ed	Main Pers	on Involved	Reported By	
21-Ja	in-19 03	3:30 21	-Jan-19	03:35		Mike A	Anderson	Mike Anderson	
Employ	er	Contractor (If Applicable)			BIM Dep	artment		Location	
Baffinla	nd	Nuna			Projects			Port Site	
Supervi	sor	Sur	pervisor Certif	icate# D	etailed Lo	ocation			
Grant L			2018-0968		ond 1A	<u> </u>			
Health & Safety Environment (Ope	erations		Reput	ation		
Г	∏ Injury	⊠ Spill/		7		ty Damage	•	Security	
Г] Illness		ife Interaction	- ۱ آ		e Accident		Non-compliance	
_		_	disturbance	Γ	☐ Fire			Non-conformance	
Brief Title									
Hydrau	lic spill to sandy at	rock at pond 1A							
				Detailed Des	cription				
materia level gr	l. The operator was ound and shut it do	s placing and slop own. He then noti nediate Actions Ta	ing material v fied his super	vhen bucket o	ylinder he ed spill p	ose failed. T ads.		e frozen, sandy, rock oarked the machine or ent	1
			Prelin	ninary Cause o	of the Inci	dent			
Hose fa	ilure.			<u> </u>					
Would y	ou consider this a '	"near miss" incide	nt? [
Is this a	" <u>Dangerous Occurr</u>	rence" under Sect	- ion 16.01 of th	 ne NWT/Nuna	vut Mine	Health and	Safety Regulations?		
Is this a	" <u>Serious Injury</u> " und	der Section 16.01	of the NWT/N	unavut Mine	Health an	d Safety Red	aulations?	_	
	e Incident Classific						nor		
•	e Incident Classific			•			dent was Mino	or	
	Consequences	Minor		Medium	Se	erious	Major	Catastrophic	
	Health and Safety	No Injury, Bump & Scra		First Aid		ment or Restricted ork Injury	Lost Time Injury	Fatality	
	Environment	Non-reportable No impact		eportable Spill No impact		Spill Reversible	Reportable Spill Long-Term Impact	Reportable Spill Irreversible Impact	
	Operations	< \$5K Loss	\$5	K to \$50K Loss	\$50k	(to \$250K	\$250K to \$1000K	> \$1000K	
	Reputation	Community complair and resolve Potential noncompl no impact	d Non-com	Level community impact pliance with potential or fine or order	Non-compli	y dissatisfaction iance with fine or er issued	Significant social harm Breach of license	Permanent social harm License Revocation	



		STEP 2.	INFORMATION GA	ATHERING (Investi	gator)	
			Investig	ator(s)		
Lead Investigator	Joelene R	iczu				
Others	Grant LaP	oint				
	ent?			⊠ In	cident occur o	utdoors?
☐ Did the incider	nt warrant	a drug & alcoh	ol test?	⊠ Ph	notos available	of the Incident?
			Witne	sses		
First Name	2	La	ast Name	Employer		Witness Statement Provided?
Mike	Mike Anderson			Nuna		Yes
			Weather Co	onditions		
Temperature -32 General Weather Co			ed & Direction East	Light Condi Dark	tions	
			Injury/Illne	ss Details		
Employer		ractor	Other Contractor	Class	sification	
Contractor	Othe	r	Nuna			
Nature of Accident						
Nature of Injury			Body Part			Side
			Spill / Ro	elease		
Spill / Release Detai	ils					
Hydraulic fluid relea	ase on to fr	ozen, sandy, sno	w.			
Substance Spilled			Quantity Uni	it Habitat		
Hydraulic Oil			15 L			
Initiating Event			Method of Cleanu	nb		
Hose failure			Spill pads, scrape	up contaminated mate	erial and place ir	n quatrex bag
			Equipment / Pro	perty Damage		



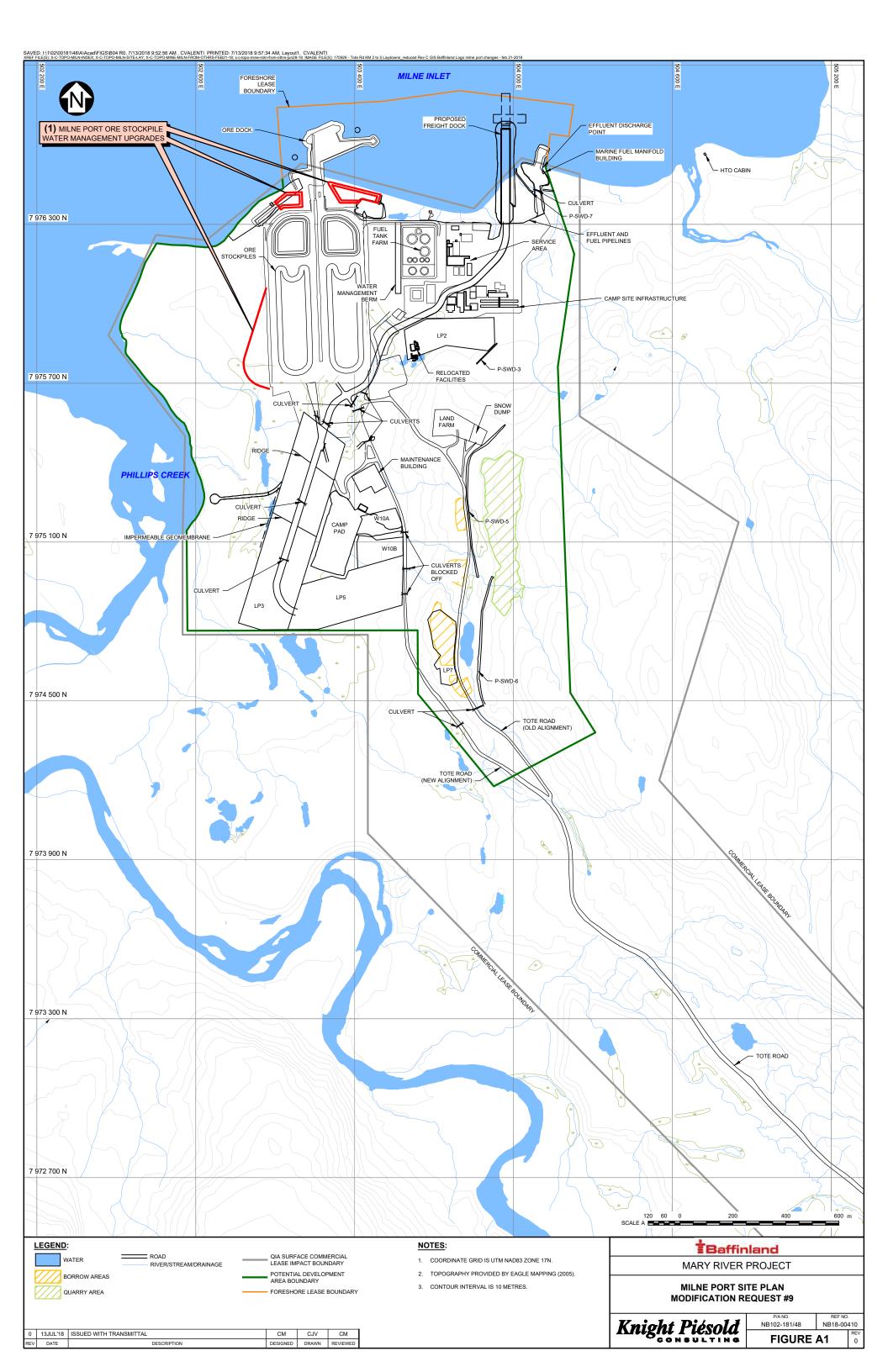
		STEP 3: CAUSAL ANA At least one must be select				
Equipment	Failure Issues	Procedural Issues	Communic	ation Issues	Engin	eering Issue
1.1 Defective Equipment	re Parts / Tools / ent	3.1 No Procedure	5.1 Shift Cha	ange Impact		place/Roadway Design / Conditions
1.2 Design I	ssue	3.2 Error in Procedure		o Agree on How be Performed	11 1	ested Work Area / cted Action
1.3 Prevent Mainter	ative nance Issue	3.3 Procedure too Complex	5.3 Failure to Commu	o Understand nication		quate display, signs, alarms, warnings
1.4 Repeat I	Failure	3.4 Procedure not Followed	5.4 Inadequa		7.4 Inadequate Guards or Barriers	
1.5 Tolerabl	le Failure		5.5 Cross-Department Communication Issue		7.5 Noise / Vibration / Light	
					☐ Body	Body Mechanics, Placement, oning, Repetitive
Natural Ele	ements Issue	Training Issue	Work Dire	ection Issue	Quality Control Issue	
2.1 Temper	ature Extremes	4.1 No Training	6.1 No Direc	tion Provided	☐ 8.1 No Qu	ality Controls
2.2 Weathe	r Conditions	4.2 Training not Followed, Unintentional	6.2 Inadequate Direction Provided		8.2 Inadequate Quality Controls	
2.3 Ground Earthqu	Movement / ake	4.3 Trained but Inexperienced	6.3 Failure to Follow Work Direction		8.3 Poor Compliance or Application of Controls	
		4.4 Training not followed - 6.4 Distraction		ion	Other	
			6.5 Fatigue		9.1 Other (explain below)	
			6.6 Impairm	ent		
	Cause Explanatio	n (For Each Cause Identified in Ca	asual Analysis - F	Provide a Brief Ex	planation of \	Vhy)
Code			Explanation			
1.1	Hose failure					
2.1	Cold weather effe	cts on equipment				
		C	0.11			
			e Actions:			
No.		Description		Issued	То	Due Date
		Clean up spill		Grant La	Point	22-Jan-19
		Investigation Team and Factors I	Limiting the Inve	estigation (if Any)	





Appendix E

Pond 1A Construction in Relation to Lease Boundaries







Appendix F

Contact Information as per Components 1 and 2 of the Commercial Lease Requirement





Role	Name	Email
Preparer of Report	Glen Peace, P.Eng.	glen.peace@hatch.com
Responsible for Construction	Marlon Coakley	marlon.coakley@hatch.com
Baffinland Representative	Christopher Murray	Christopher.murray@baffinland.com





Appendix G

Requests For Information from Contractor





Construction Management Form Site Contracts Administration Request for Information

The state of the s	- Continues							
Project Name:	Mary River Exp	eansion Stage 3	Project Number	t er:	H353004			
CWP No:			RFI No:0012					
Contractor: Nun	a East Ltd.		Contract No: CC006					
Initiated By: Bra	ndon Urquhart		Cost impact? Y⊠ / N□					
Date of Submitte	l: 2018 – 11 - 11	200	Schedule Impact? Y⊠ / N□					
Information Requested: Nuna East has been asked to construct Settling Pond 1A. The drawing provided to Nuna details that 100mm of Type 9 and Type 5 are required. The drawing calls for Type 8 but does not specify a required thickness. This do will help Nuna plan required cuts within the pond footprint and allow us to minimize cut and blast volumes when possible.							ss. This detail	
Reference Docur	nent No.	Revision	Title/D	escription				
H353004-40000-228	3-272-0008-0001	1	Port Site Stockpile 1, Pond 1A Plan & Profile					
RFI Classification	n:	- I HAVE THE				****		
Design	\boxtimes	Constructi	ion		Fabricato	or/Vendor [1	
Routine Request		Clarification	on	\boxtimes	Other		J	
Project Response: [attach sufficient detail as required] The Type 9 (100mm) and Type 5 (100mm) must be provided in all locations where the geomembrane liner is present. This may mean that 200mm of over excavation may be required. Type 8 material will only be used as general fill material where the final level is above existing ground and in the embankments. Note that subgrade preparation to be according to project specification.								
RFI Follow-up Re	quirements:	4.440			THE STATE OF THE S			
Contract Order Issue	d Yes □/No	([insert associ	ciated trad	cking #])	Back-Charge Re	quired (Y	es 🔲/No 🔲)	
As-Built Required	Yes □/No				Materials	Required (Y	es 🏻/No 🗖)	
RFI Receipts an	d Approvals				3000			
Stakeholder	ı	Name		Signature		Date <yyy< td=""><td>YY-MM-DD></td></yyy<>	YY-MM-DD>	
Hatch Construction Management)	N mices	5	11/0		Nov	19/12	
		S. DeYoung		h	Herjey	2018-11		
		Downie Bar	(eig)	Nh	Challe	*100	19/18	

E353004-CC006-400-465-0012





Construction Management Form Site Contracts Administration Request for Information

Project Name: Mary R	iver Expa	nsion Stage 3	Projec Numbe	t er:	H353004		
CWP No:			RFI No:0012 0015				
Contractor: Nuna East L	td.		Contract No: CC006				
Initiated By: Darko Filipi	C		Cost impact? Y□ / N⊠				
Date of Submittal: 2019-0	01-21		Schedule Impact? Y□ / N⊠				
Information Requested: Nuna is proposing a design change to the trench liner detail in order to make it constructible. The current design is not feasible to build in the existing frozen conditions and with the equipment available to the project. Nuna is proposing to cut the backslope of the berm from the liner trench to the invert of the stormwater cutoff ditch. The liner would then be laid down over bedding on this cut section and then backfilled over to the design grades of the pond crest. See attached diagram for clarification. Constructing the liner trench in this manner should achieve the intended purpose of anchoring the liner material at the crest of the pond.							
Reference Document No		Revision	Title/D	escription			
H353004-40000-228-272-000	8-0001	1	Port Site Stockpile 1, Pond 1A Plan & Profile				Profile
RFI Classification:							
Design 🖂		Constructi	on		Fabricator	/Vendor	
Routine Request		Clarification	on	□ Other □			
Project Response: [atta	ach sufficie	ent detail as requi	red]				
The proposed alternative anchor trench is acceptable. There should however be no additional cost to the Owner because of this alternative.							
RFI Follow-up Requireme		_					<u></u>
As-Built Required	Contract Order Issued Yes /No						
RFI Receipts and Appr	rovals						
Stakeholder	N	lame		Signatur	е	Date <	YYYY-MM-DD>
Hatch Construction Management		Umica	_0	MI	THE STATE OF THE S	-J2	122/8
Hatch Engineering Home Office ☐ Site ☐	A	Adriaan Grobbelaar		() A	Q		ary 2019
Hatch Project Management				U- (avrif	22 9	an 2018

E353004-CC006-400-465-0015





Baffinland Iron Mines LP
Mary River Expansion Stage 3
H353004

Client (as required):

Construction Management Form
Site Contracts Administration
Request for Information

Request for Information

Note: The response to this RFI is NOT an authorization to perform a change to the Contract. Work may proceed in accordance with the response only if such work involves NO change in cost or schedule. In the case where the response may involve change in cost or schedule, a Contractual instrument must be issued by Hatch and received by the Contractor before the response can be executed. Where no Contractual instrument is indicated, action must be taken in accordance with (reference appropriate Contract Sections that authorize execution of any change in schedule and cost).

RFI015 - DESIGN CHANGE PROPOSAL

In order to be able to construct the pond liner anchor trench in the existing frozen conditions, Nuna is proposing to change the design as detailed in the bottom right diagram.

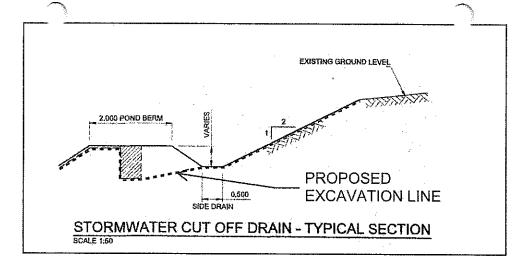
Nuna proposes to build up the pond crest to the edge of the trench, then cut the back slope of the trench to the invert elevation of the stormwater cut-off ditch.

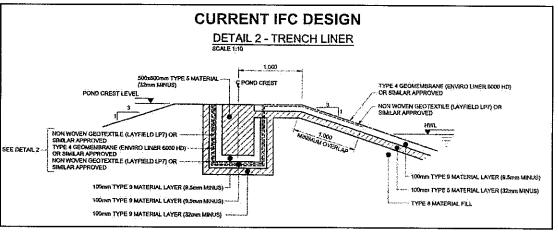
100mm Type 5 bedding material will then be placed on the excavated surface.

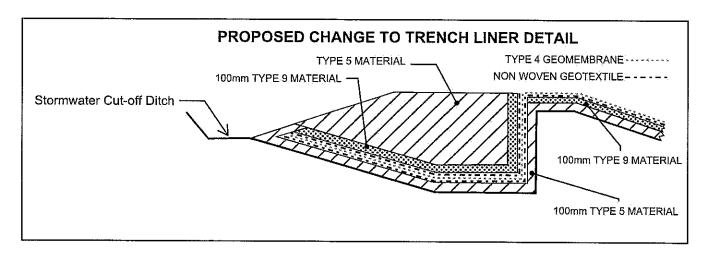
The non-woven geotextile layer from the pond will be extended over the bedding,

Then the Type 4 geomembrane followed by another layer of non-woven geotextile.

The geotextile will then be covered with 100mm of Type 9 material and the rest of the berm will be built up with Type 5 material.











Construction Management Form Site Contracts Administration Request for Information

Project Name:	Mary River Expa	ansion Stage 3	Project Number:	H353004		
CWP No:		(RFI No:0021			
Contractor: Nun	a East Ltd.		Contract No: CC006			
Initiated By: Bra	ndon Urquhart		Cost impact? Y□ / N⊠			
Date of Submitta	al: 2019-02-10		Schedule Impact	t? Y□ / N ⊠		
feasible to build we due to the risk of key at a 1:1 slope	g a design change with the available mathematic the pond crest collaboration to allow for geotechnic	aterial and ground apsing during cons chnical stability du	d conditions. The ke struction and liner in ring construction and aries) Type 5 Type 9 Type 9	nstructible. The current design is not y cut cannot be made as a straight wall installation. Nuna proposes to cut the liner ind installation. This would override RFI 15		
Reference Docur	nent No.	Revision	Title/Description			
RFI - 0015			Pond 1A Liner T	rench		
RFI Classification	n:					
Design		⊠		Construction Fathricator/Vendor		
Routine Request	П	Clarificatio	n	Other \square		





Construction Management Form Site Contracts Administration Request for Information

1 roject response. [attach sun	icient detail as required]		Project Response: [attach sufficient detail as required]								
Slope of 1:1 is not acceptab	Slope of 1:1 is not acceptable. Slope is to be minimized.										
RFI Follow-up Requirements:											
Contract Order Issued Yes ☐ /	Contract Order Issued Yes ☐ /No ☐ ([insert associated tracking #]) Back-Charge Required (Yes ☐ /No ☐)										
As-Built Required Yes ☐ /	No 🗌	Materials I	Required (Yes /No)								
RFI Receipts and Approvals											
Stakeholder	Name	Signature	Data «VVVV MM DD»								
· ·		Oignature	Date <yyyy-mm-dd></yyyy-mm-dd>								
Hatch Construction Management	Nick Mills										
Hatch Construction Management Hatch Engineering Home Office ☐ Site ☐		Me Peace	MAL \$/18 2019-03-01								
Hatch Engineering	Nick Mills	Me Peace	Mar \$/18								

Request for Information

Note: The response to this RFI is NOT an authorization to perform a change to the Contract. Work may proceed in accordance with the response only if such work involves NO change in cost or schedule. In the case where the response may involve change in cost or schedule, a Contractual instrument must be issued by Hatch and received by the Contractor before the response can be executed. Where no Contractual instrument is indicated, action must be taken in accordance with (reference appropriate Contract Sections that authorize execution of any change in schedule and cost).