



April 4, 2019

Jonathan Mesher
Resource Management Officer
Crown Indigenous Relations and Northern Affairs Canada (CIRNAC)
P.O. Box 100
Iqaluit, NU X0A 0H0

**Re: 2019 Freight Dock CPT Program – Mary River Project
Type B Water License 2BE-MRY1421
Commercial Lease No. Q13C301**

Baffinland Iron Mines Corporation (Baffinland) plans to commence a 2019 geotechnical program on the area for the future construction of the Freight Dock in Milne Inlet, for the purpose of cone penetration testing (CPT), sediment analysis and spud penetration assessment. The proposed locations are shown in Attachment 1. The program is being managed by Baffinland and Hatch, and performed by Conetec Investigation Inc. The program is scheduled to commence on April 12 2019.

A total of twenty-five (25) locations are planned to be tested by CPT at the mud line and on the sea bottom. One (1) CPT at each Spud location will be performed, at each of the three (3) locations for the Spuds. At each Anchor location, in a radius of 25m, eight (8) CPTs will be performed. Additionally, three (3) alternative CPTS will be performed at each Anchor location if preliminary data indicates existence of obstructions. A maximum total of twenty-two (22) CPTs will be performed at the Anchor locations. The Locations of the Anchor and Spud locations are provided in Attachment 1. The UTM coordinates for the main CPT test locations are listed below:

Anchor 1: E 503 995 - N 7 977 110
Anchor 2: E 503 945 - N 7 977 110
Spud PS AFT: E 503 987 - N 7 976 762
Spud PS FWD: E 503 987 - N 7 976 698
Spud STB FWD: E 503 953 - N 7 976 698

In accordance with Part F, Section 2, of the Type B Water Licence 2BE-MRY1421, this letter and attachments provides the notification for the drilling of twenty-five (25) boreholes on ice. Daily environmental monitoring will be performed, including pre, during and post drill inspections. Turbidity monitoring of the boreholes will also be performed pre and post.

This program will not require the use of water. Supporting equipment will include a portable Ramset with a hydraulic power pack, CPT, and sonic bathymetry. An RTK -Trimble survey equipment will be used to identify the locations. A skid steer will be used for carrying equipment and supplies.

Despite best planning, it should be noted that unforeseen circumstances may result in changes in plans as the program proceeds. Baffinland will endeavor to inform the Inspector and other relevant parties in such circumstances.



We trust that this information meets the notification requirements for the above program. Please do not hesitate to contact the undersigned, should you have any questions or comments.

Regards,

A handwritten signature in black ink, appearing to read "Christopher Murray".

Christopher Murray
Environmental & Regulatory Compliance Manager

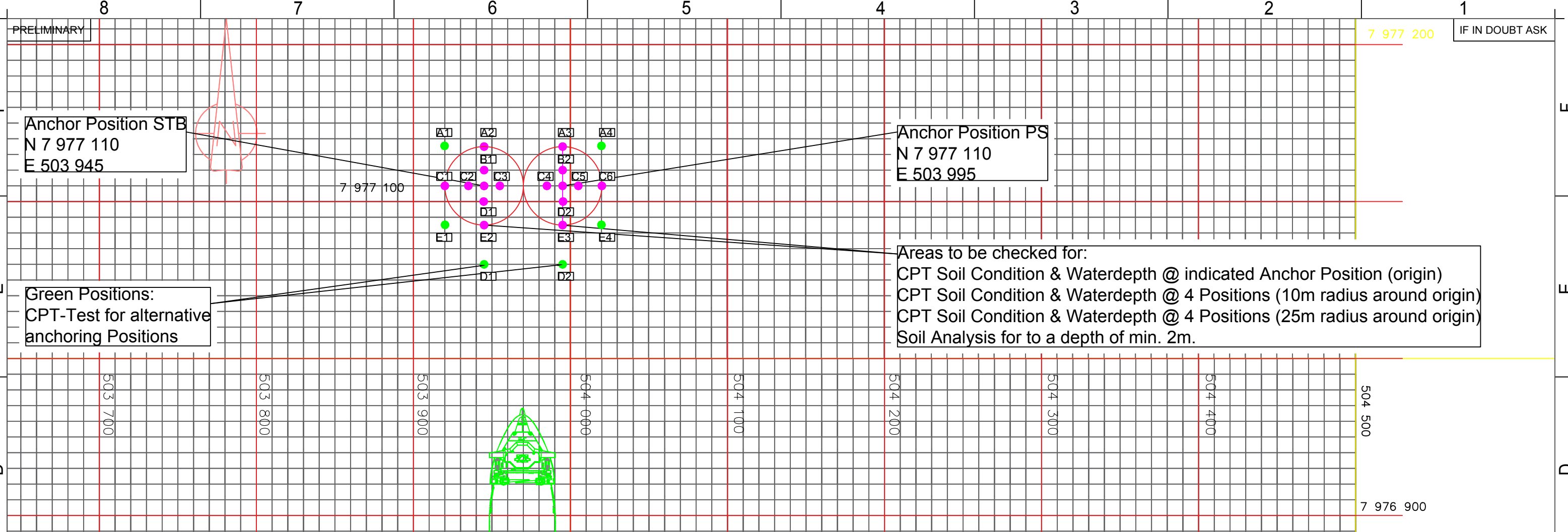
Attachments:

Attachment 1: Proposed Cone Penetration Test Locations Plan

Cc: Timothy Ray Sewell, Megan Lord-Hoyle, William Bowden, Connor Devereaux, Steve Borcsok, Lou Kamermans, Amanda McKenzie (Baffinland)
Assol Kubeisinova, Karén Kharatyan (NWB)
Justin Hack, Bridget Campbell, Godwin Okonkwo (CIRNAC)
Jared Ottenhof (QIA)

Attachment 1

Proposed Cone Penetration Test Locations Plan



Anchor Position STB
N 7 977 110
E 503 945

Anchor Position PS
N 7 977 110
E 503 995

Green Positions:
CPT-Test for alternative
anchoring Positions

Areas to be checked for:
CPT Soil Condition & Waterdepth @ indicated Anchor Position (origin)
CPT Soil Condition & Waterdepth @ 4 Positions (10m radius around origin)
CPT Soil Condition & Waterdepth @ 4 Positions (25m radius around origin)
Soil Analysis for to a depth of min. 2m.

CPT Positions		
POS	Northing	Easting
A1	7 977 135	503 920
A2	7 977 135	503 945
A3	7 977 135	503 995
A4	7 977 135	504 020
B1	7 977 120	503 945
B2	7 977 120	503 995
C1	7 977 110	503 920
C2	7 977 110	503 935
C3	7 977 110	503 955
C4	7 977 110	503 985
C5	7 977 110	504 005
C6	7 977 110	504 020
D1	7 977 100	503 945
D2	7 977 100	503 995
E1	7 977 085	503 920
E2	7 977 085	503 945
E3	7 977 085	503 995
E4	7 977 085	504 020
D1	7 977 060	503 945
D2	7 977 060	503 995

STB FWD - Central SPUD
N 7 976 698
E 503 953

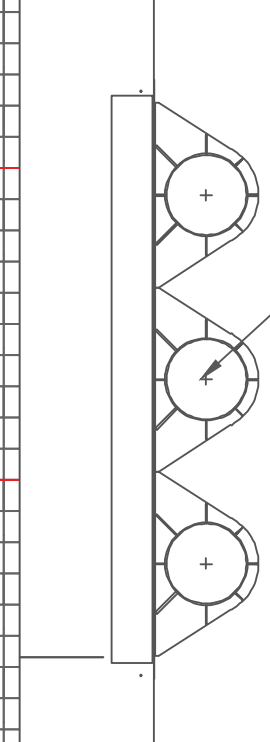
Detail A

PS AFT - Central SPUD
N 7 976 762
E 503 987

PS FWD - Central SPUD
N 7 976 698
E 503 987

Area marked in magenta to be checked for general bathymetry, confirming that no obstructions will interfere with either the barge or the vessels propulsion. An Accuracy of +/-100mm is sufficient.

Detail A



CPT for Central Spud Position only

Remarks:

- indicates CPT Positions
- indicates DPT Positions for alternative anchor-positions
- In case the CPT for any of the Spud Locations indicates rock or clay a CPT for the adjacent area shall be provided within a radius of up to 3m (Nth'lly direction) in order to find an alternative position for the spuds.
- If not otherwise stated the CPT shall be to a depth of min. 4.0m
- If not otherwise stated an accuracy of +/-10mm is sufficient

Rev.	Date	Description	DRWN	CHKD	APPD
04	04.04.19	included UTM Coordinate Table	HHE	KOK	
03	04.04.19	included requirements from carrier	HHE	KOK	
02	03.04.19	Updated Vessel & CPT Locations	HHE	KOK	
01	20.02.19	Borehole Locations basis H352034-1000-229-230-0003	HHE		
00	27.07.18	Initial Drawing	HHE		

Project		Baffinland	
Title		Location Soil Analysis	
Drawing No	174040_T17_0002	Client	tkIS
Date	04.04.2019	Page	1/1
Scale		Not to scale	
All dimensions are in mm			

