

Attachment 8.3

North Railway Bridges Ground Temperature Data

(7 Pages)

TRANSMITTAL

2019 EA Support to the Phase 2 Proposal

Date:	May 2, 2019	File No.:	NB102-00181/53-A.01
		Cont. No.:	NB19-00365
To:	Baffinland Iron Mines Corporation #300 - 2275 Upper Middle Road East Oakville, Ontario Canada, L6H 0C3		
Attention:	Mr. Lou Kamermans		
Subject:	Ground Temperature Data at North Railway Bridge Abutments Mary River Project – Phase 2 Proposal		

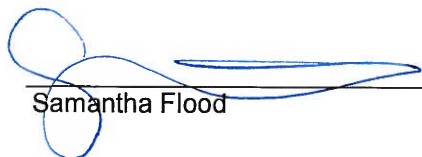
Document Items

Item No.	Description
1.	Figure 1, Rev 0 – Northern Transportation Corridor Thermistor Locations (April 2019)
2.	Figure 2, Rev 0 – Ground Temperature Data Profile Thermistor BR 86 NA
3.	Figure 3, Rev 0 – Ground Temperature Data Profile Thermistor BR 86 SA
4.	Figure 4, Rev 0 – Ground Temperature Data Profile Thermistor BR 17
5.	Figure 5, Rev 0 – Ground Temperature Data Profile Thermistor BR 70
6.	Figure 6, Rev 0 – Ground Temperature Data Profile Thermistor BR 102

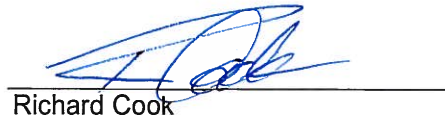
Remarks

Remarks	Ground temperature data provided by Hatch Ltd. in Excel table format. KP created the site location figure and prepared the ground temperature plots. This information will appear in the updated application for an amendment to Type A Water Licence 2AM-MRY1325 for the Mary River Project's Phase 2 Proposal.
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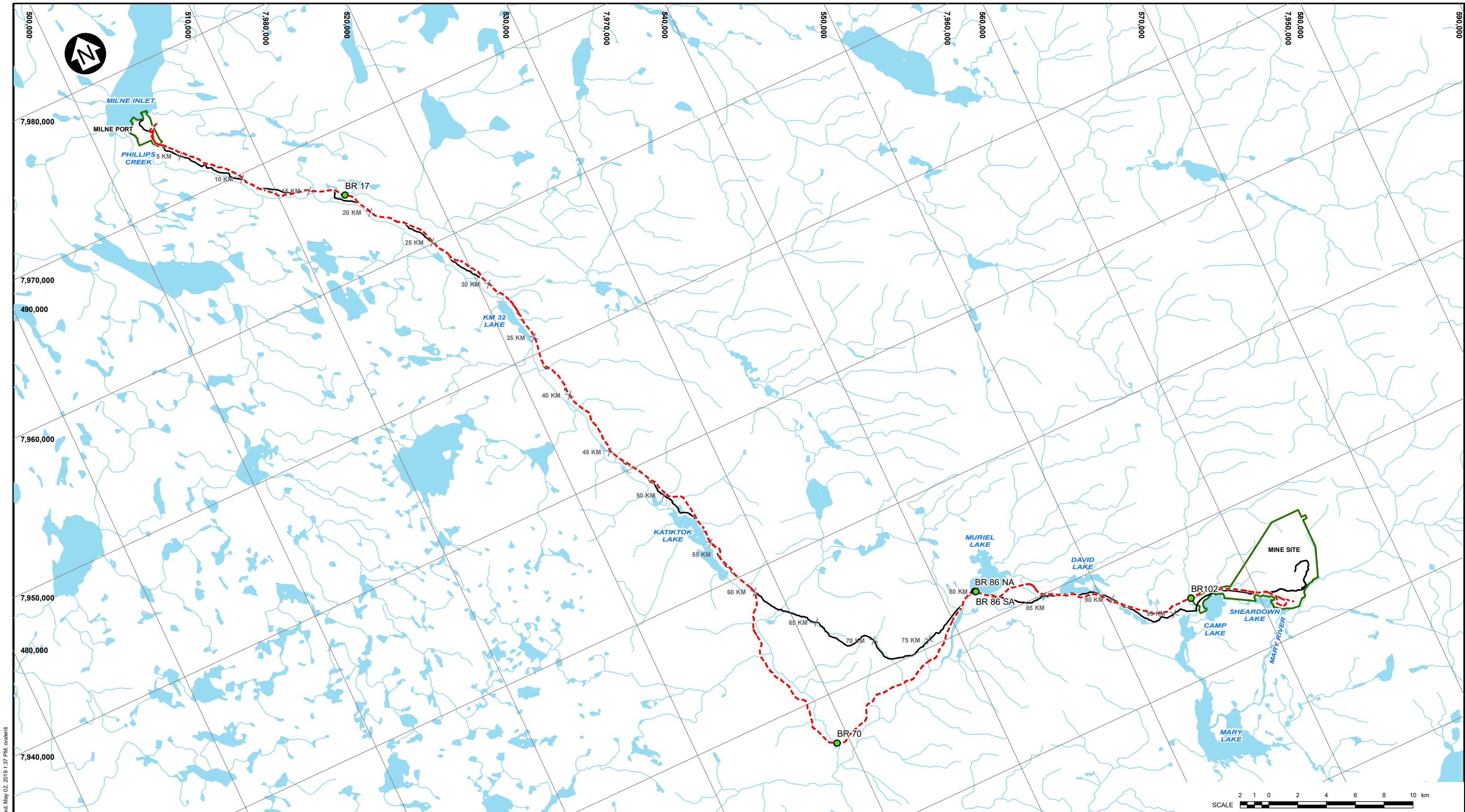
Prepared:


 Samantha Flood

Reviewed:


 Richard Cook

/rc



SAVED: I:\102\00181\53A\GIS\FigsA05 R0.mxd; May 02, 2019 1:37 PM; cvalemti

LEGEND:

- THERMISTOR LOCATION
- PROPOSED RAILWAY ALIGNMENT
- MILNE INLET TOTE ROAD
- WATER
- PROJECT DEVELOPMENT AREA

0	02MAY19	ISSUED WITH TRANSMITTAL	CWM	CJV	RAC
REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED

NOTES:

- BASE MAP: HER MAJESTY THE QUEEN IN RIGHTS OF CANADA, DEPARTMENT OF NATURAL RESOURCES, (2004).
- COORDINATE GRID IS UTM NAD83 ZONE 17 AND IS IN METRES.
- THERMISTOR LOCATIONS PROVIDED BY HATCH (APRIL 24, 2019).

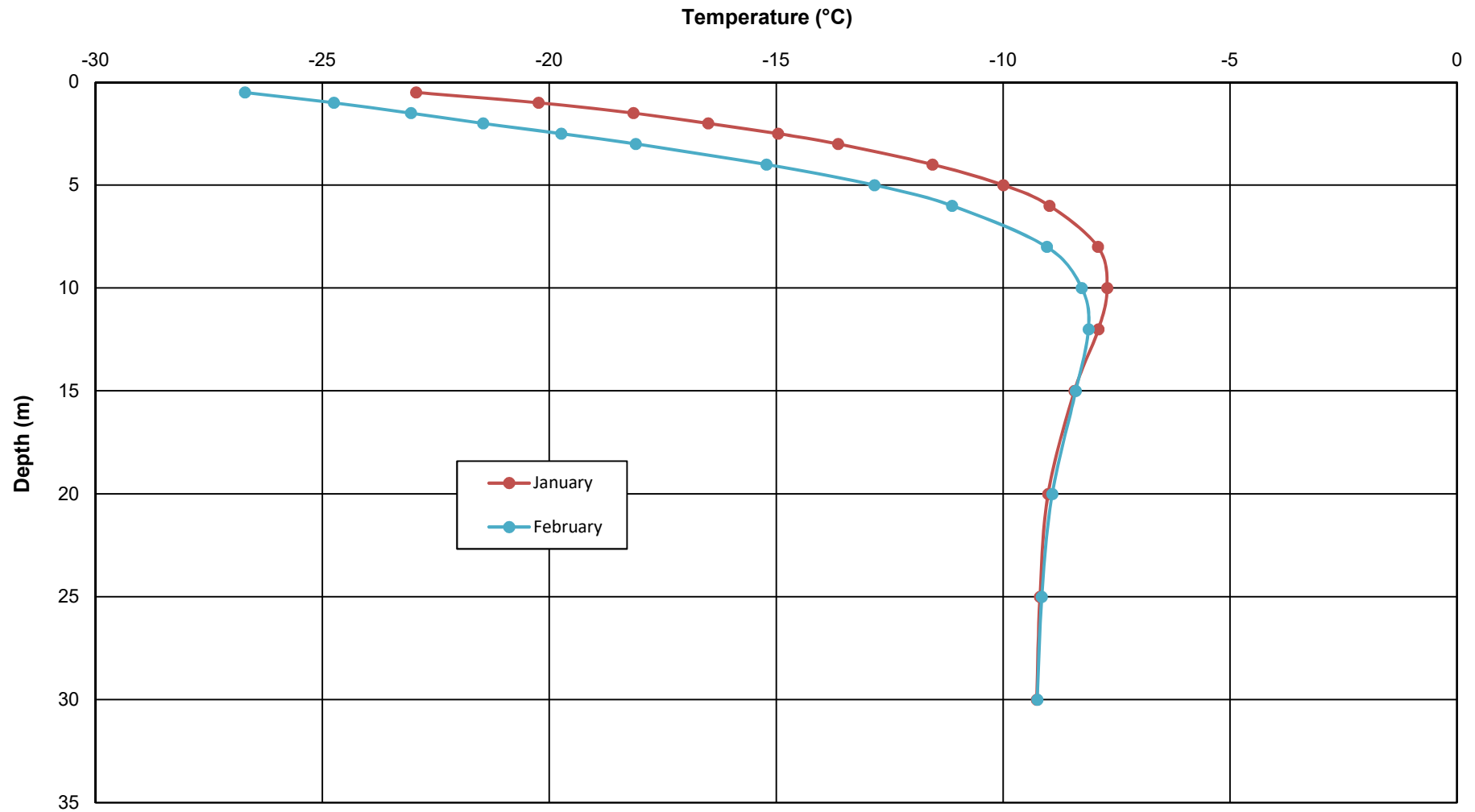
BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTHERN TRANSPORTATION CORRIDOR
THERMISTOR LOCATIONS (APRIL 2019)



PIA NO.	REF NO.
NB102-181/53	NB19-00365
FIGURE 1	
REV	0

**NOTES:**

1. DATA PROVIDED BY HATCH IN EXCEL FORMAT.
2. READINGS TAKEN AT ONE HOUR INTERVALS FROM JANUARY 30 TO FEBRUARY 24, 2018.
3. JANUARY PLOT FROM READING TAKEN ON JANUARY 31, 2018 AT 12:00 PM.
4. FEBRUARY PLOT FROM READING TAKEN ON FEBRUARY 24, 2018 AT 12:00 PM.
5. THERMISTOR BR 86 NA LOCATED IN BOREHOLE BH 17-BR86-2, AS PROVIDED BY HATCH (24APR'19).

0	2MAY'19	ISSUED WITH TRANSMITTAL	CWM	KEH
REV	DATE	DESCRIPTION	PREP'D	RVW'D

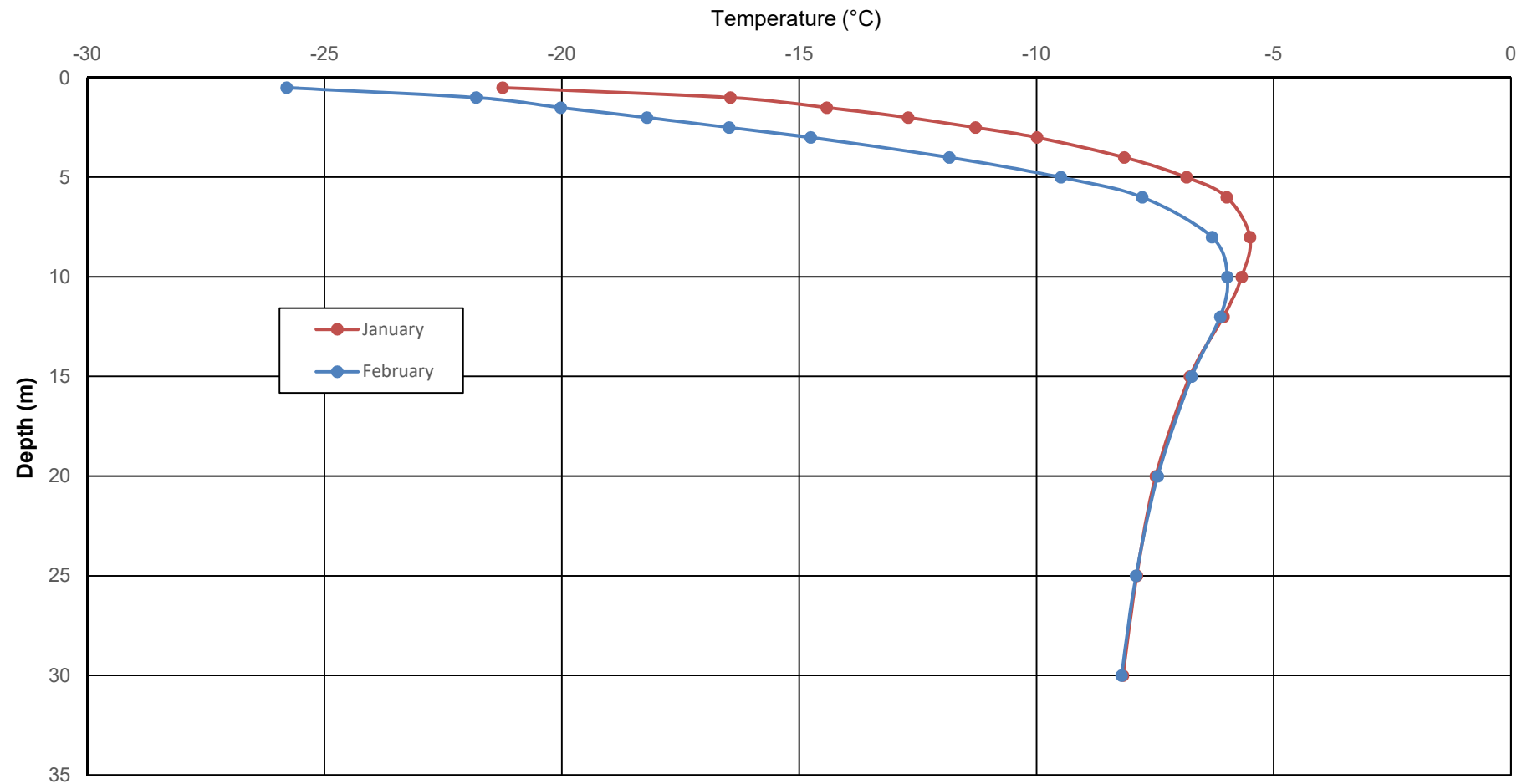
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MARY RIVER PROJECT

**GROUND TEMPERATURE DATA PROFILE
THERMISTOR BR 86 NA**


 P/A NO.
NB102-181/53

 REF. NO.
NB19-00365
FIGURE 2REV
0

**NOTES:**

1. DATA PROVIDED BY HATCH IN EXCEL FORMAT.
2. READINGS TAKEN AT ONE HOUR INTERVALS FROM JANUARY 30 TO FEBRUARY 24, 2018.
3. JANUARY PLOT FROM READING TAKEN ON JANUARY 31, 2018 AT 12:00 PM.
4. FEBRUARY PLOT FROM READING TAKEN ON FEBRUARY 24, 2018 AT 12:00 PM.
5. THERMISTOR BR 86 SA LOCATED IN BOREHOLE BH 17-BR86-3, AS PROVIDED BY HATCH (24APR'19).

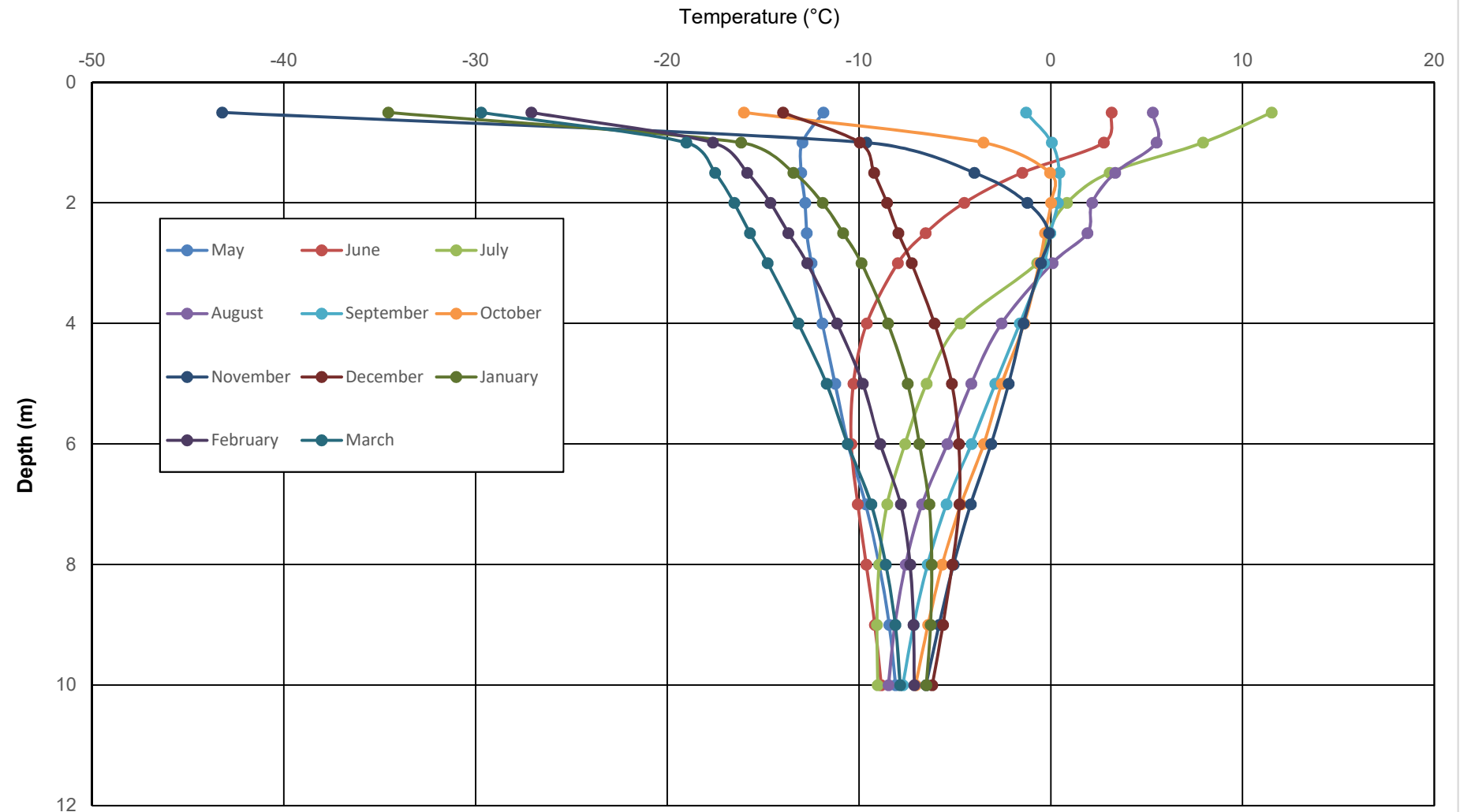
0	2MAY'19	ISSUED WITH TRANSMITTAL	CWM	KEH
REV	DATE	DESCRIPTION	PREP'D	RVWD

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MARY RIVER PROJECT

GROUND TEMPERATURE DATA PROFILE
THERMISTOR BR 86 SA

P/A NO.
NB102-181/53REF. NO.
NB19-00365**FIGURE 3**REV
0

**NOTES:**

1. DATA PROVIDED BY HATCH IN EXCEL FORMAT.
2. READINGS TAKEN AT FOUR HOUR INTERVALS FROM MAY 8, 2018 TO MARCH 26, 2019.
3. PLOTS DEVELOPED FROM READINGS TAKEN ON THE 16TH DAY OF EACH MONTH AT 12:00 PM.
4. THERMISTOR BR 17 LOCATED IN BOREHOLE BH 18-BR15-1, AS PROVIDED BY HATCH (24APR'19).

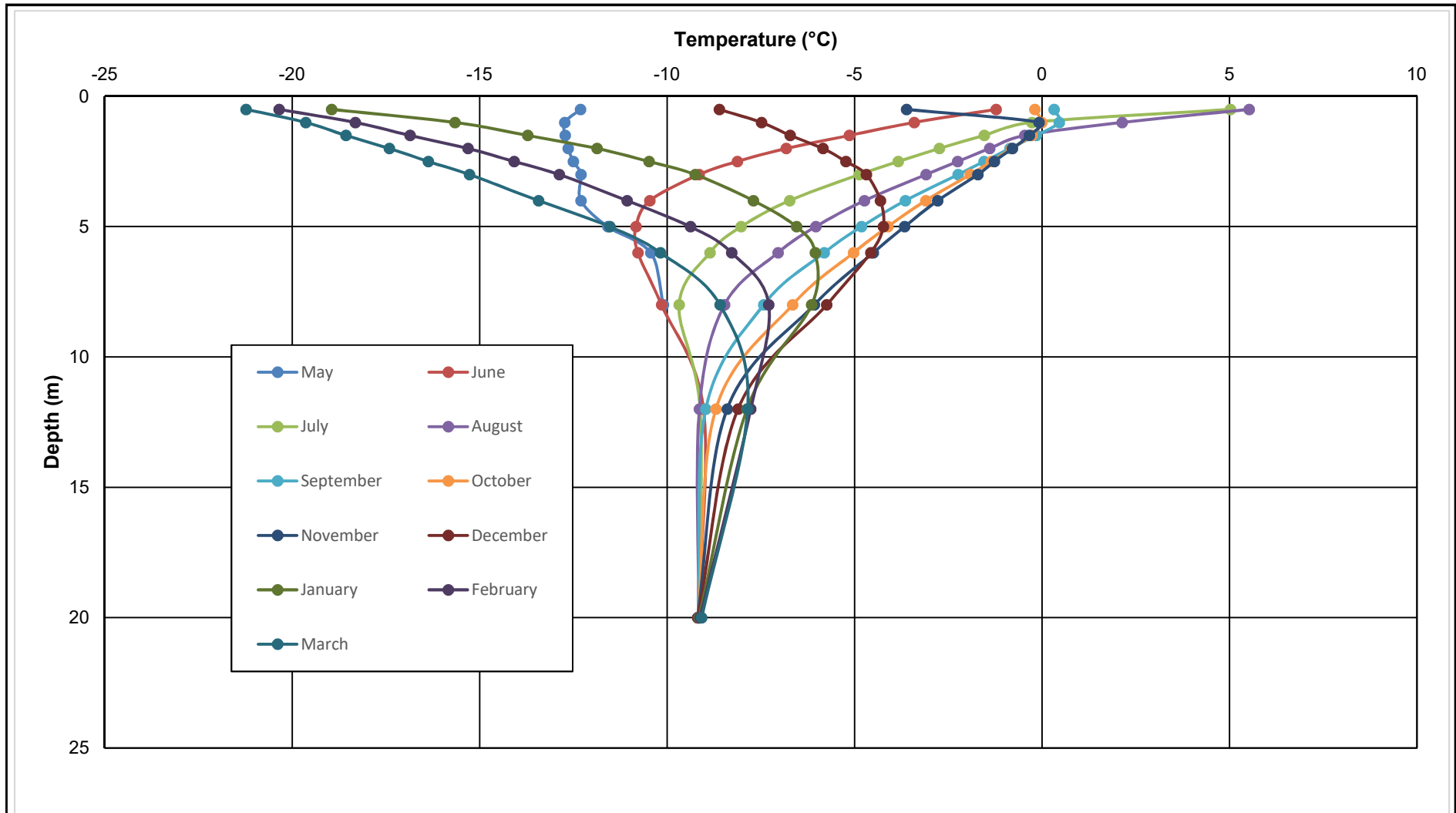
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**GROUND TEMPERATURE DATA PROFILE
THERMISTOR BR 17**

P/A NO.
NB102-181/53REF. NO.
NB19-00365**FIGURE 4**REV
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0	2MAY'19	ISSUED WITH TRANSMITTAL	CWM	KEH
REV	DATE	DESCRIPTION	PREP'D	RVW'D

**NOTES:**

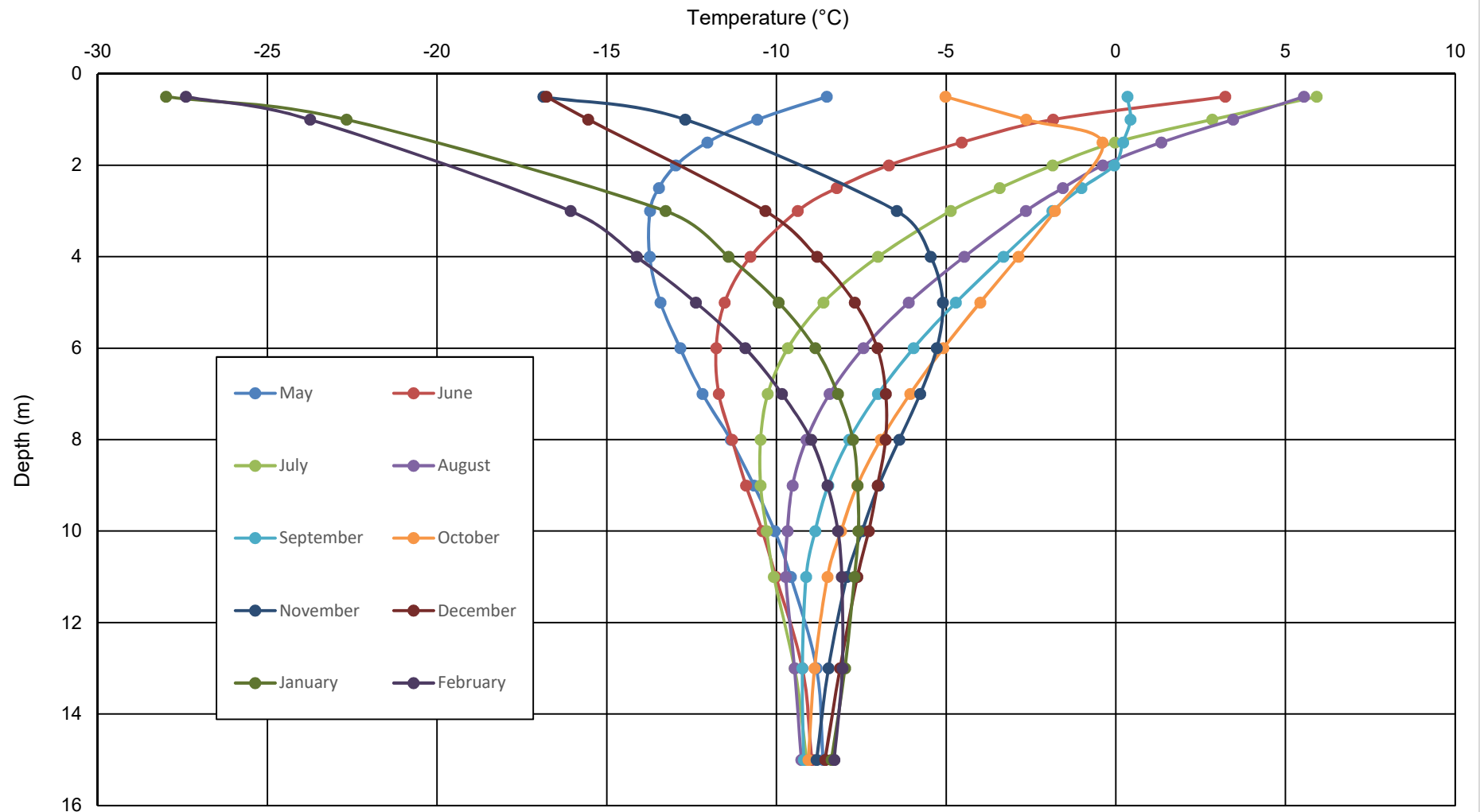
1. DATA PROVIDED BY HATCH IN EXCEL FORMAT.
2. READINGS TAKEN AT FOUR HOUR INTERVALS FROM MAY 6, 2018 TO MARCH 25, 2019.
3. PLOTS DEVELOPED FROM READINGS TAKEN ON THE 16TH DAY OF EACH MONTH AT 12:00 PM.
4. THERMISTOR BR 70 LOCATED IN BOREHOLE BH 18-BR70-1, AS PROVIDED BY HATCH (24APR'19).

0	2MAY'19	ISSUED WITH TRANSMITTAL	CWM	KEH
REV	DATE	DESCRIPTION	PREP'D	RVW'D

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MARY RIVER PROJECT

**GROUND TEMPERATURE DATA PROFILE
THERMISTOR BR 70**
P/A NO.
NB102-181/53REF. NO.
NB19-00365**FIGURE 5**REV
0

**NOTES:**

1. DATA PROVIDED BY HATCH IN EXCEL FORMAT.
2. READINGS TAKEN AT FOUR HOUR INTERVALS FROM MAY 8, 2018 TO MARCH 6, 2019.
3. PLOTS DEVELOPED FROM READINGS TAKEN ON THE 16TH DAY OF EACH MONTH AT 12:00 PM.
4. DATA NOT PLOTTED FOR MARCH, 2019.
5. THERMISTOR BR 102 LOCATED IN BOREHOLE BH 18-BR102-2, AS PROVIDED BY HATCH (24APR'19).

0	2MAY'19	ISSUED WITH TRANSMITTAL	CWM	KEH
REV	DATE	DESCRIPTION	PREP'D	RVWD

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

**GROUND TEMPERATURE DATA PROFILE
THERMISTOR BR 102**
P/A NO.
NB102-181/53REF. NO.
NB19-00365**FIGURE 6**REV
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