

LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- ➡ OCEAN TAIGA
- ➡ OCEAN TUNDRA

DRAFT

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

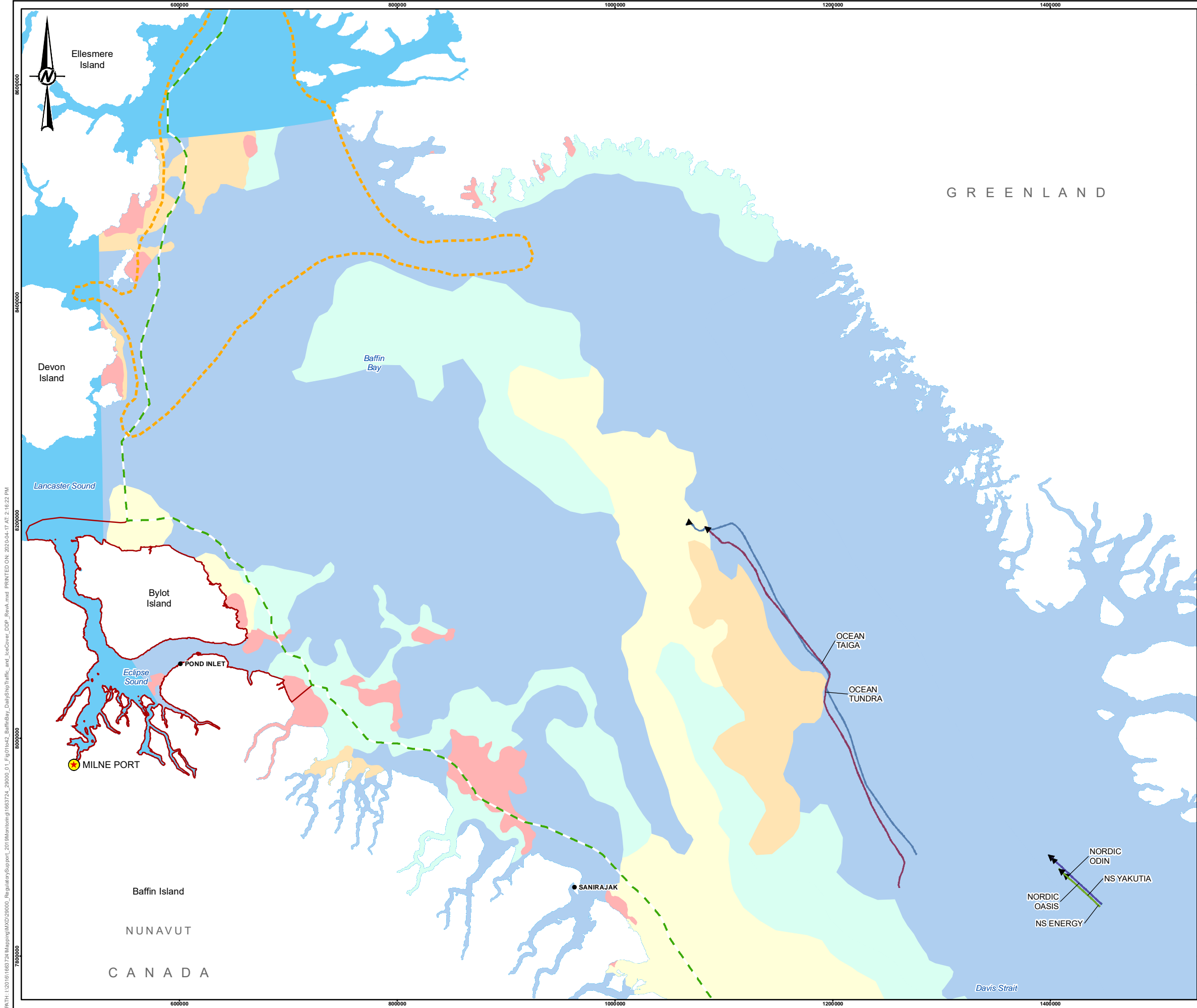
MARY RIVER PROJECT

TITLE

2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 13, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	1



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- NORDIC OASIS
- NORDIC ODIN
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)
ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

PROJECT
MARY RIVER PROJECT

TITLE
2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 14, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO.
1663724

CONTROL
29000-01

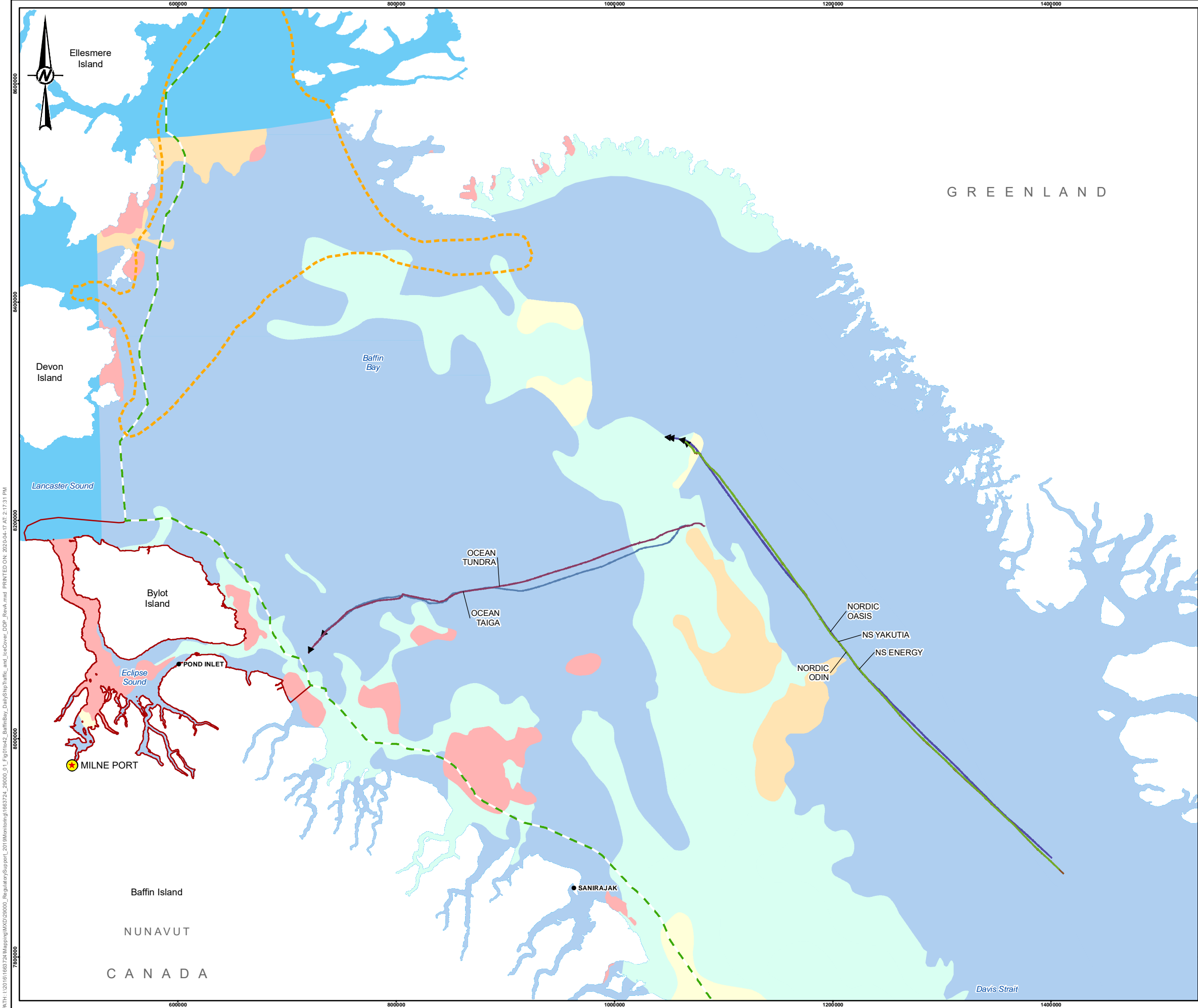
REV.
A

FIGURE
2

25mm

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: I:\2018\1663724\Mapping\29000_RegulatorySupport_2019\Monitors\gl1663724_29000_01_Fig01Ice2_BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:16:22 PM



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- NORDIC OASIS
- NORDIC ODIN
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0100200KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

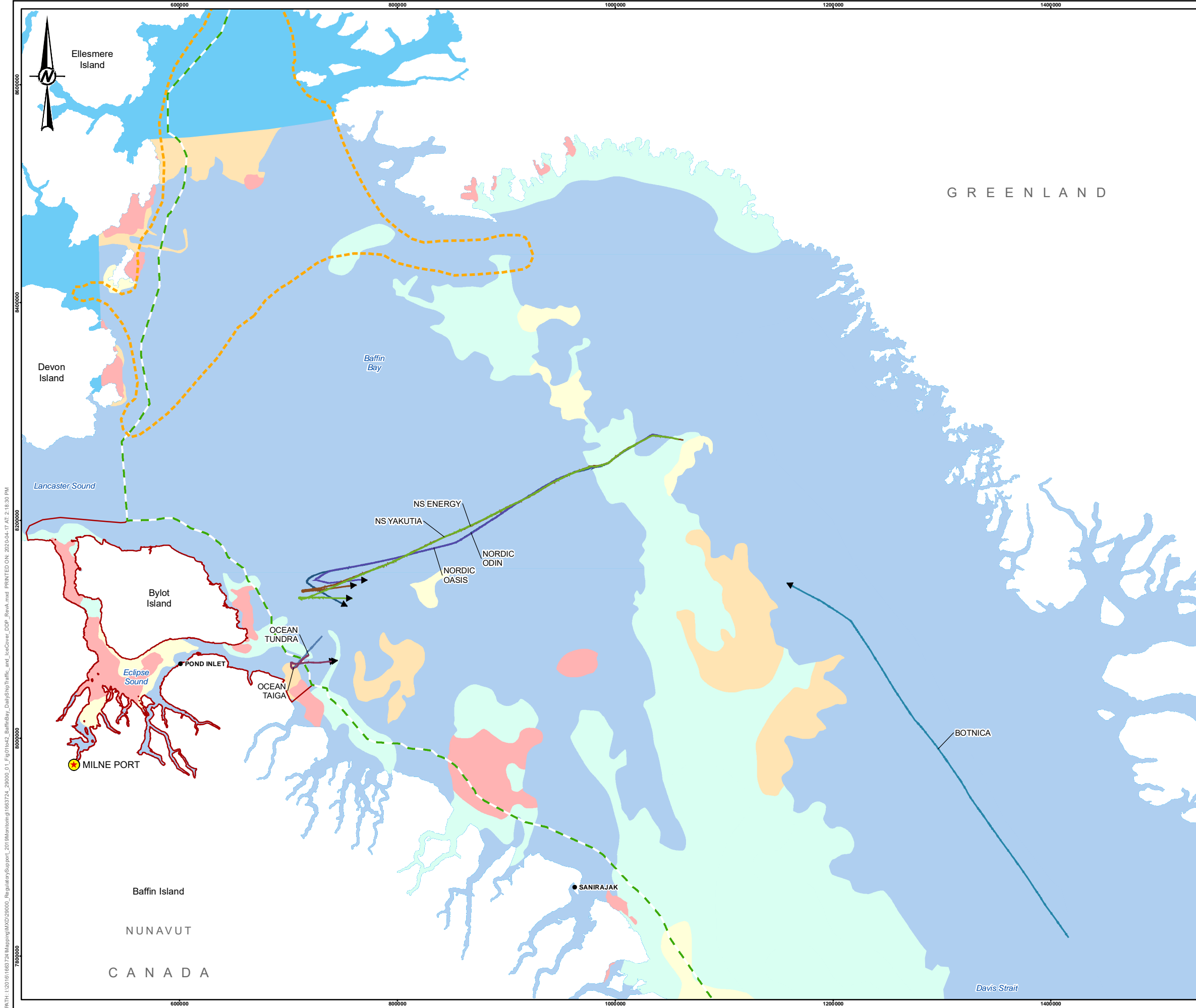
MARY RIVER PROJECT

TITLE

2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 15, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	3



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- ▭ NUNAVUT SETTLEMENT AREA BOUNDARY
- ▭ PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0100200KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

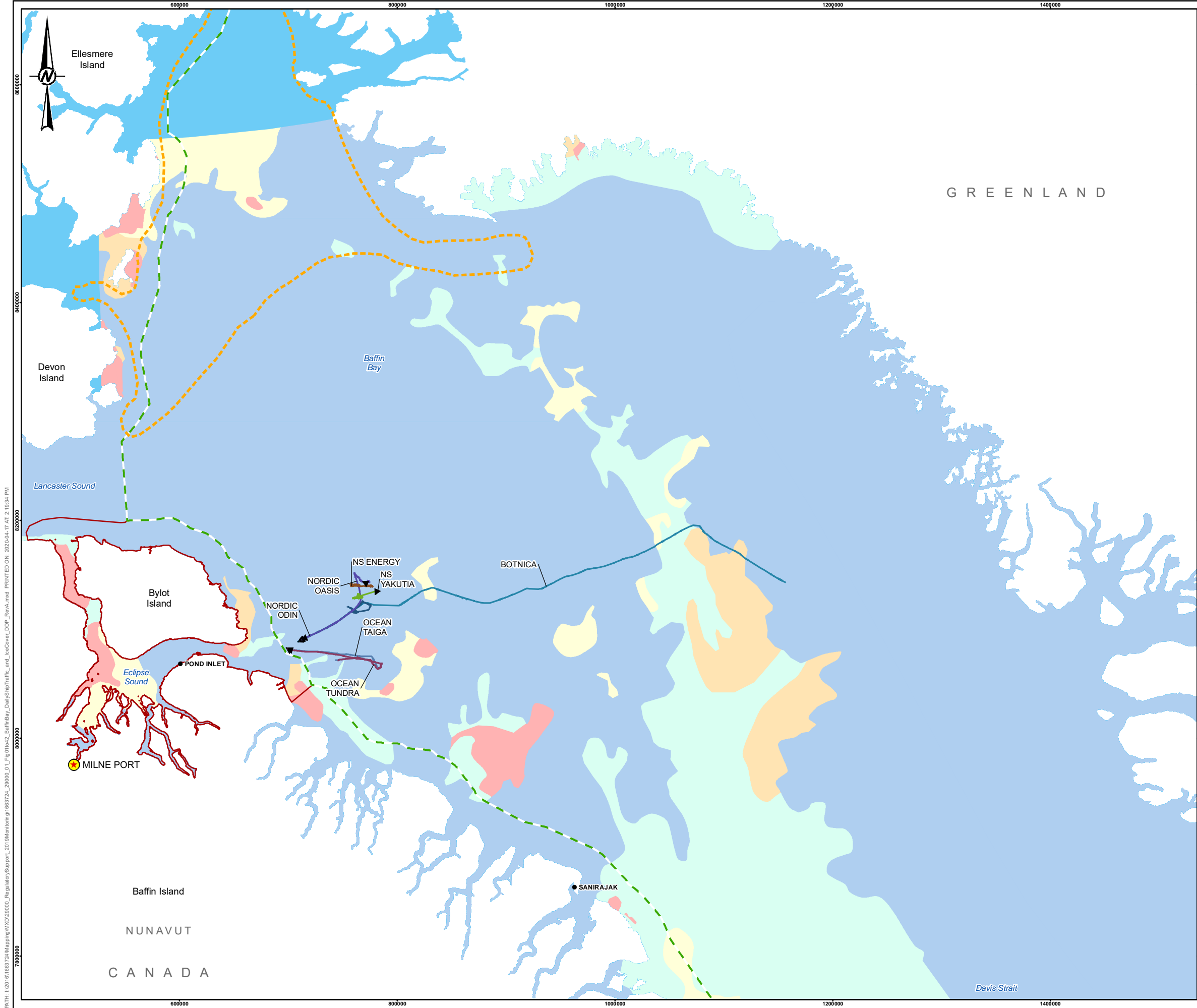
2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 16, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	4

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 28mm



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

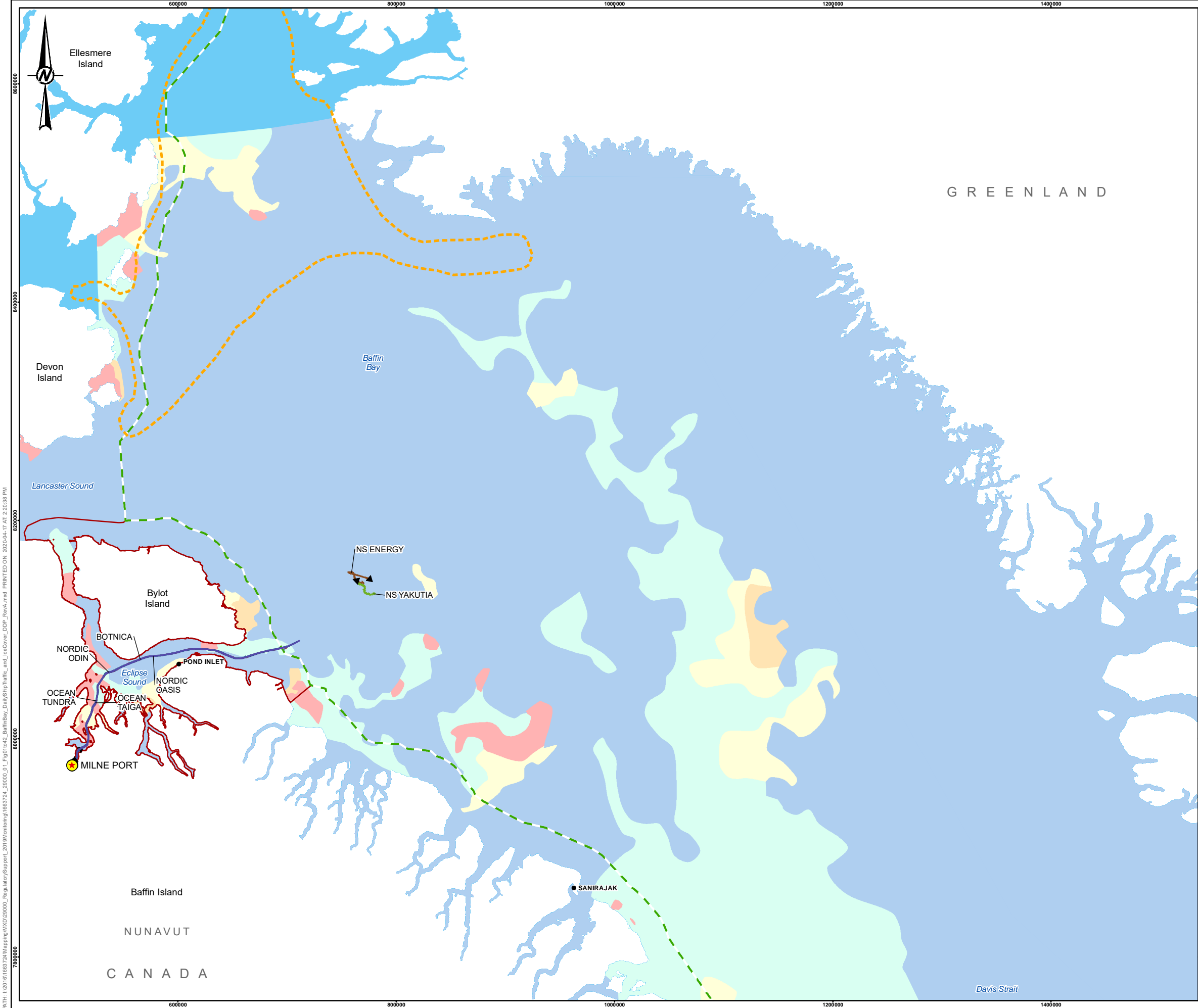
PROJECT
MARY RIVER PROJECT

TITLE
2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 17, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	5



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

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BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

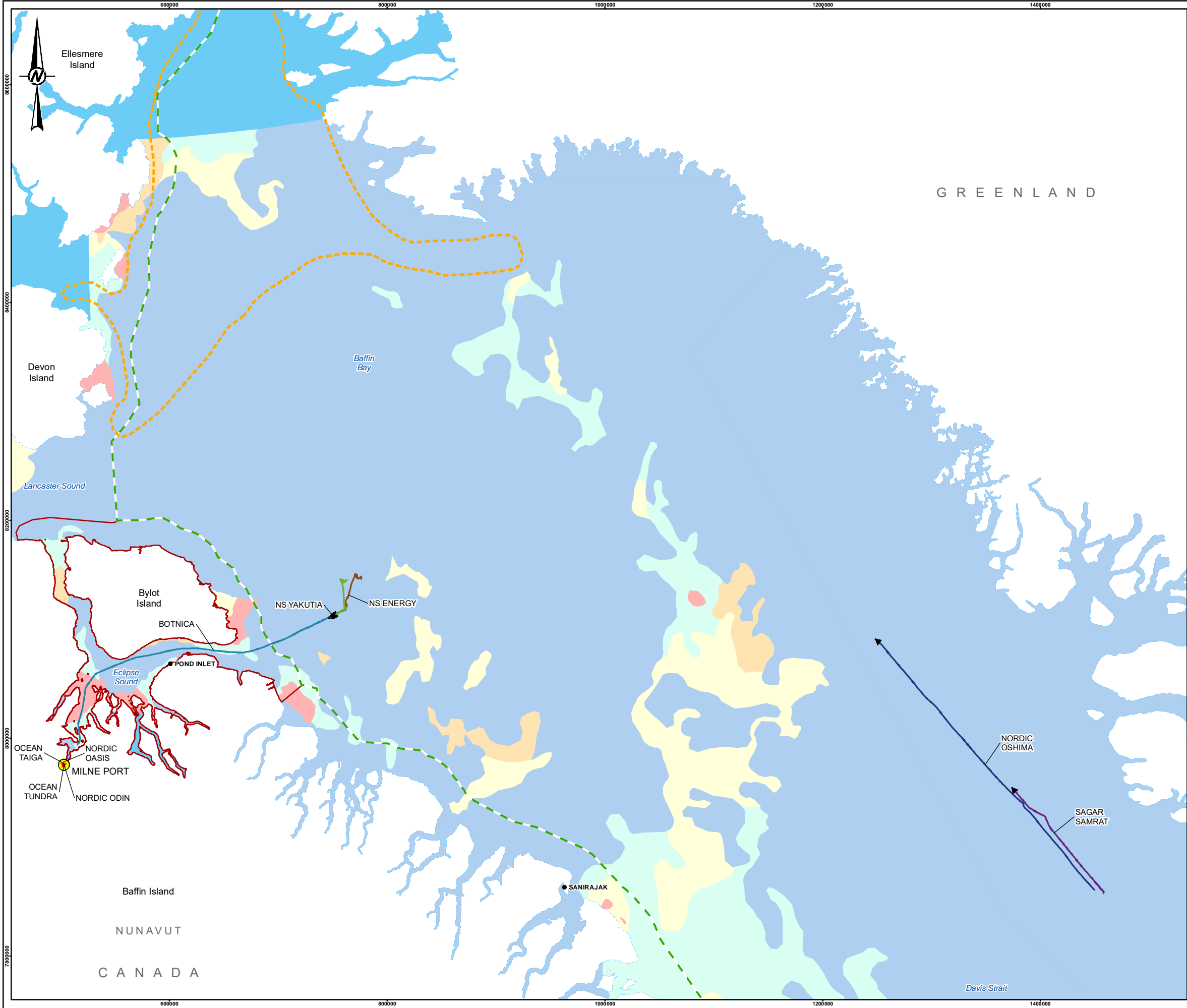
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2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 18, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	6



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NORDIC OSHIMA
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

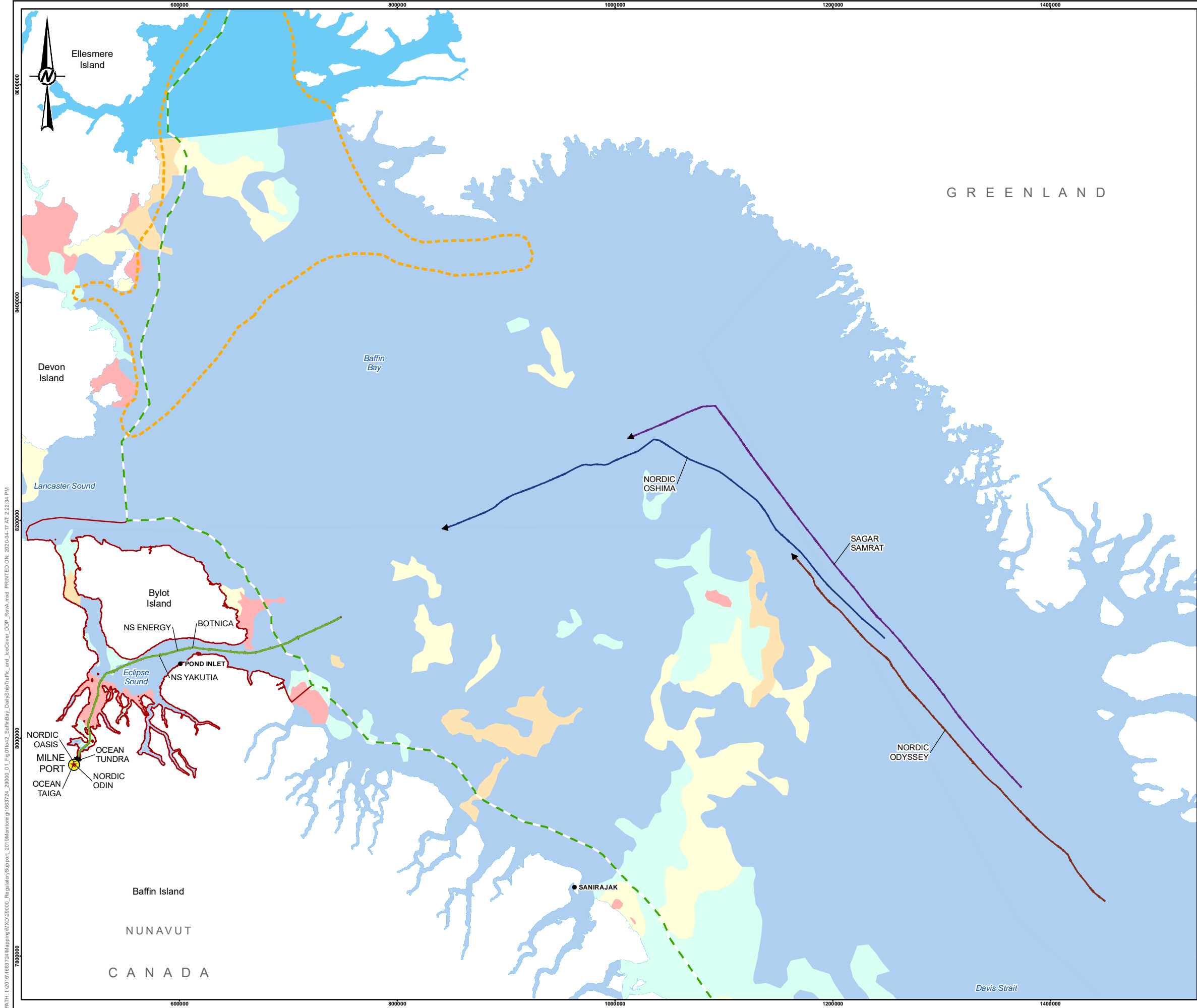
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2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 19, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	7



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC OSHIMA
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

PROJECT
MARY RIVER PROJECT

TITLE
2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 20, 2019 (UTC)

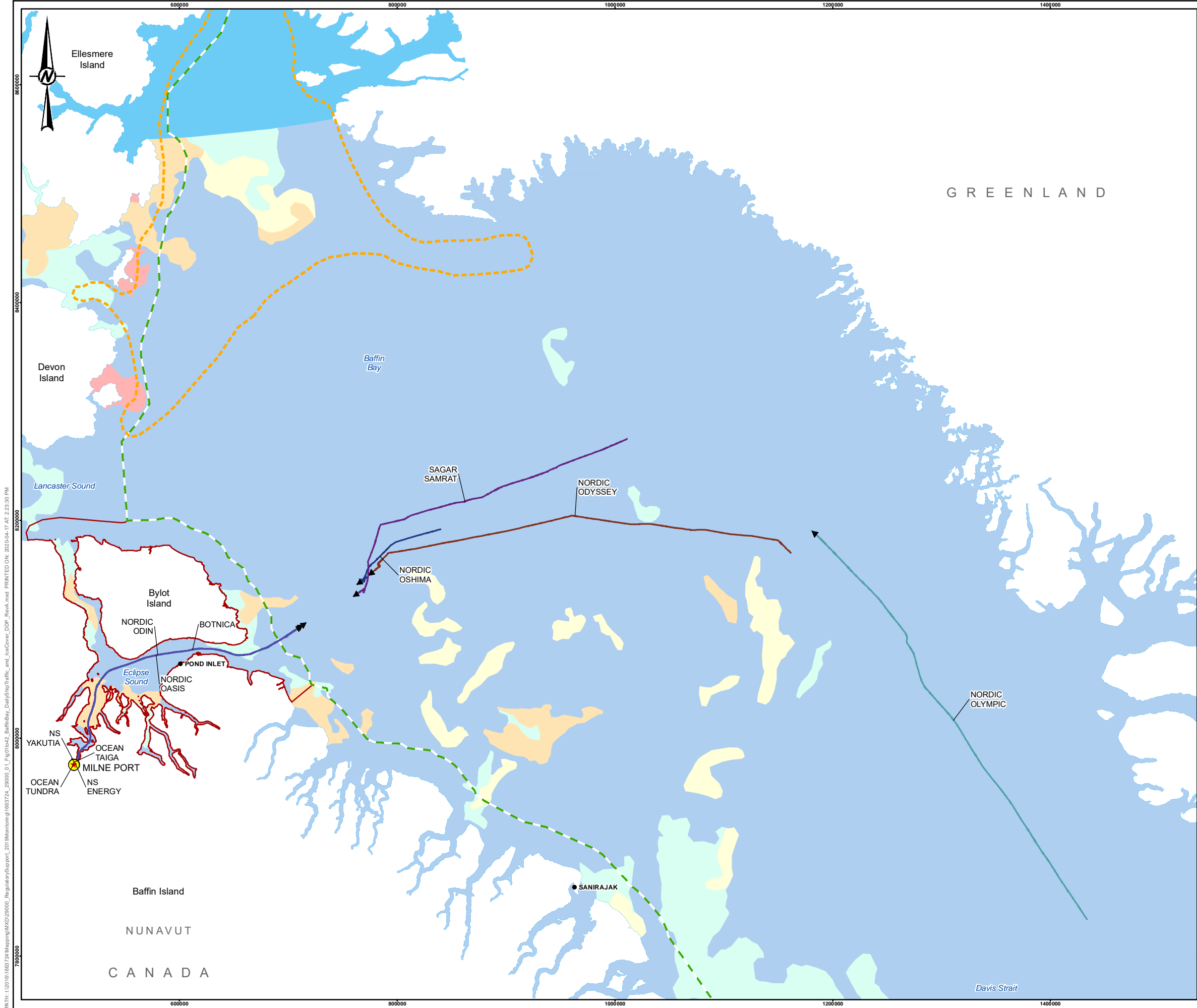
CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	8

PATH: I:\2018\1663724\Mapping\NAD2000_RegulatorySupport_2019\Monitors\g1663724_29000_01_Fig01\resolute_bay\BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:22:34 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC OSHIMA
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)
ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

PROJECT
MARY RIVER PROJECT

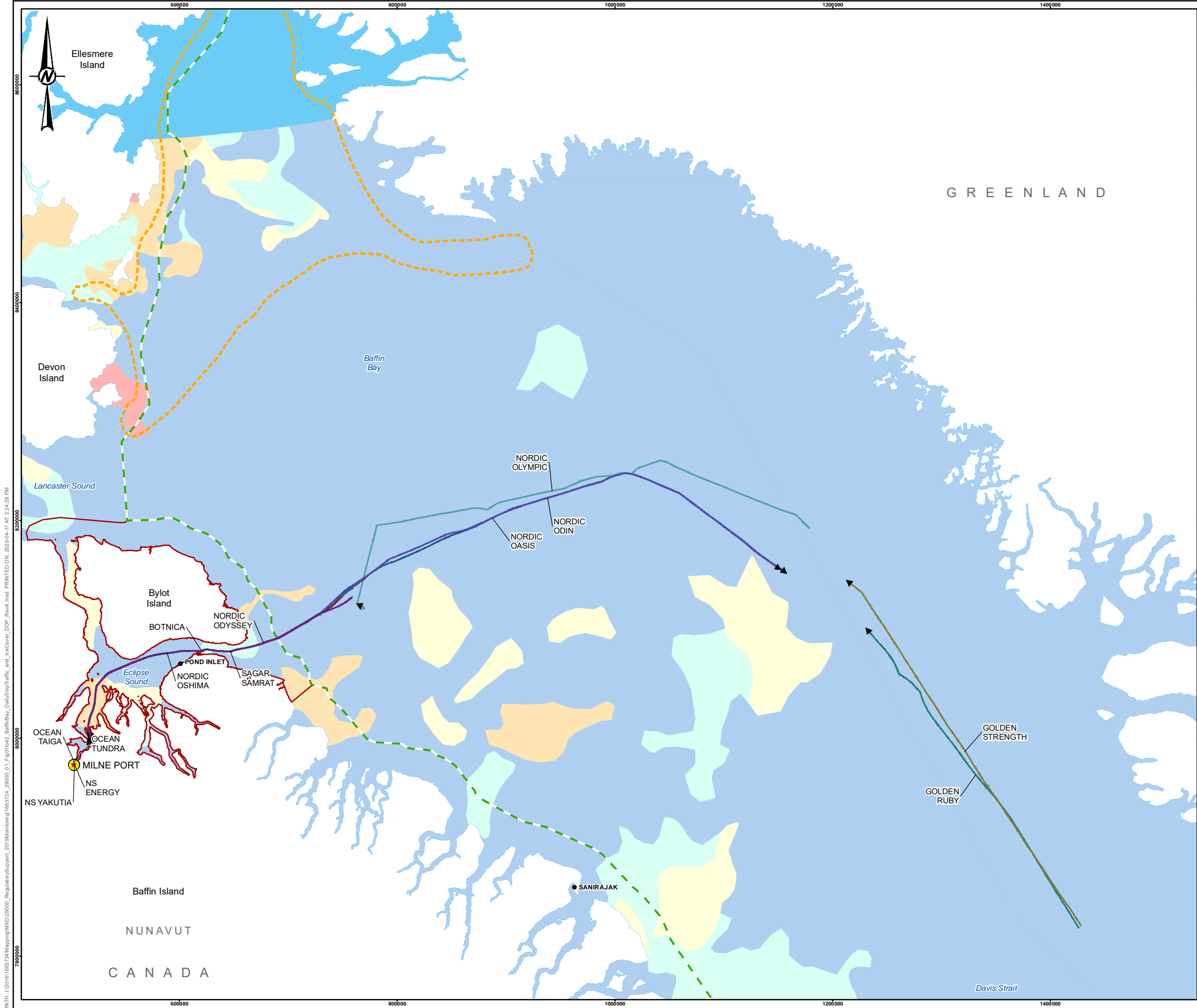
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2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 21, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	9

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 28mm



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- ▭ NUNAVUT SETTLEMENT AREA BOUNDARY
- ▭ PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- GOLDEN RUBY
- GOLDEN STRENGTH
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC OSHIMA
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT

DRAFT

REFERENCE(S)

ICE CONCENTRATIONS OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 22, 2019 (UTC)

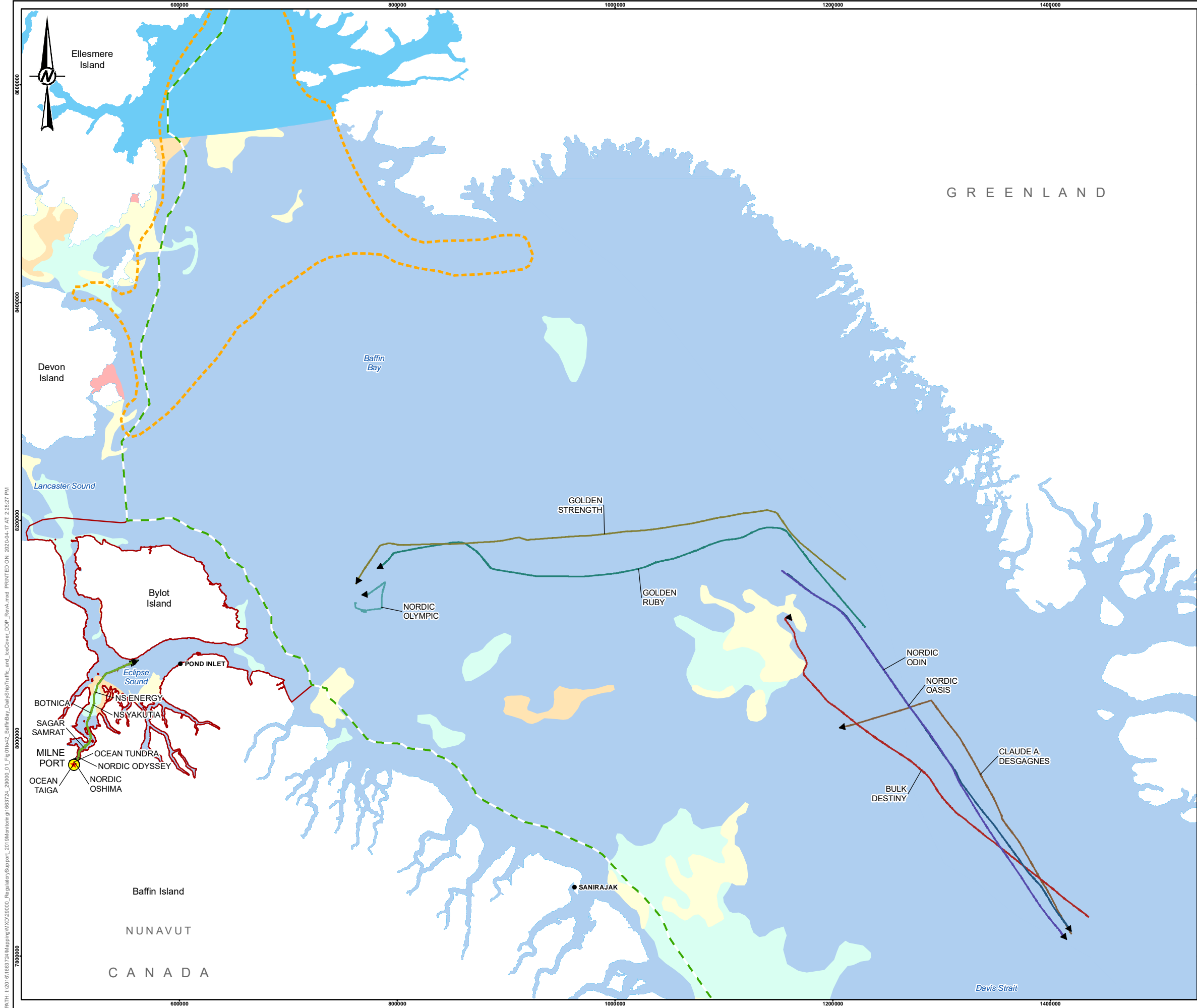
CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	10

PATH: I:\2018\1663724\Mapping\29000_RegulatorySupport_2019\MapDocs\BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:24:28 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- ▬ NUNAVUT SETTLEMENT AREA BOUNDARY
- ▬ PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- BULK DESTINY
- CLAUDE A. DESGAGNES
- GOLDEN RUBY
- GOLDEN STRENGTH
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC OSHIMA
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT

DRAFT

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 23, 2019 (UTC)

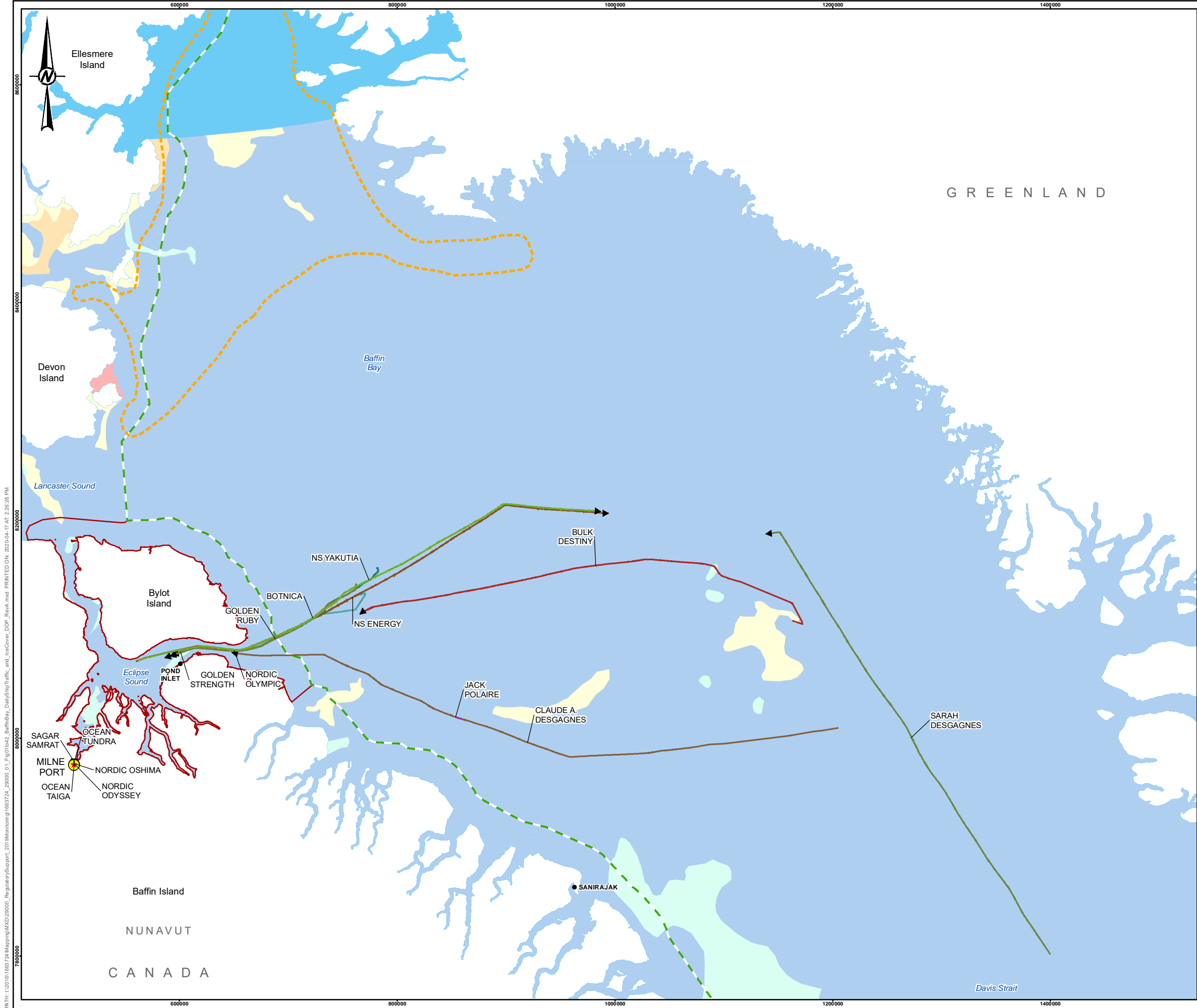
CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	11

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 28mm



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- ▬ NUNAVUT SETTLEMENT AREA BOUNDARY
- ▬ PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- BULK DESTINY
- CLAUDE A. DESGAGNES
- GOLDEN RUBY
- GOLDEN STRENGTH
- JACK POLAIRE
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC OSHIMA
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT
- SARAH DESGAGNES

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 24, 2019 (UTC)

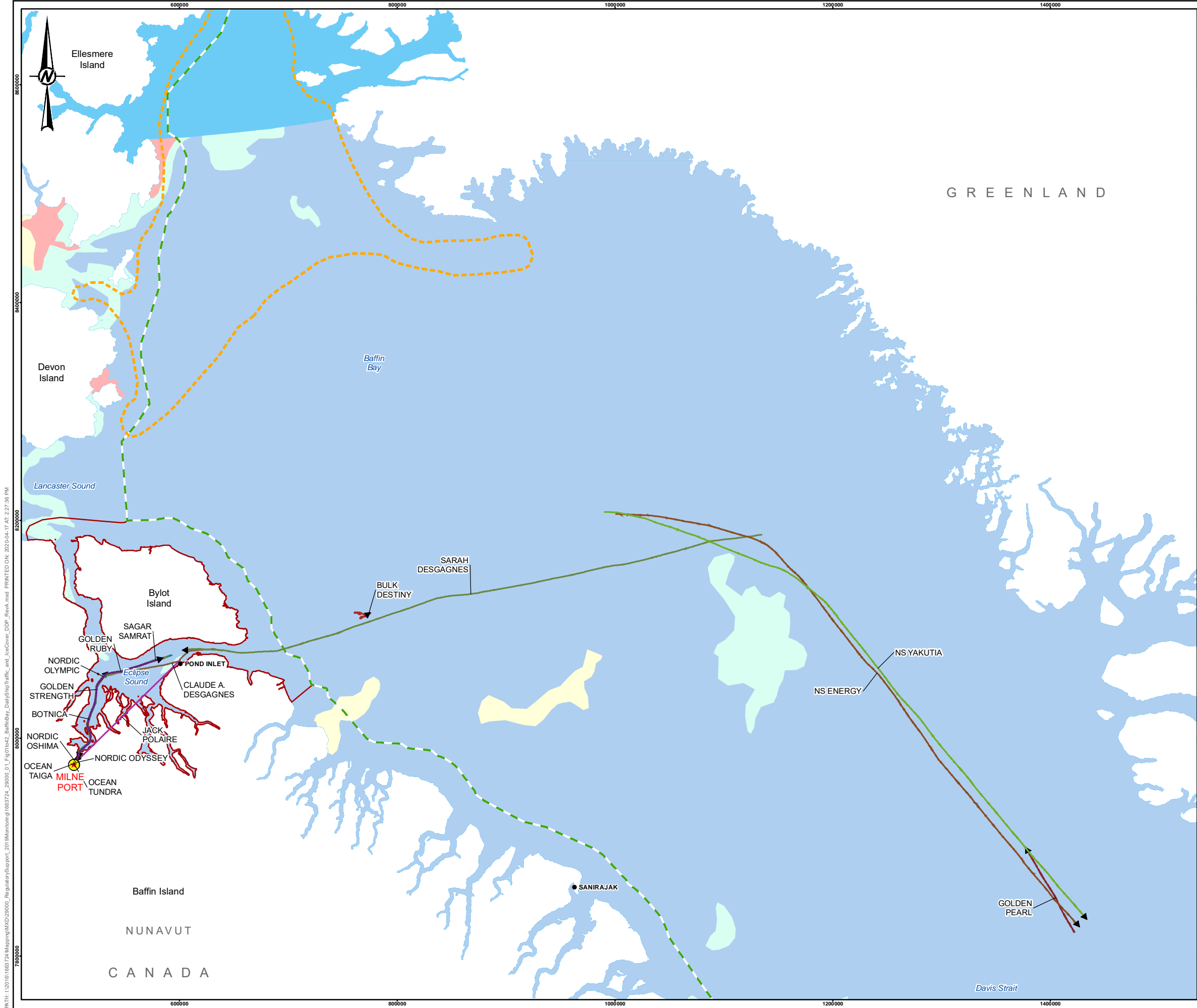
CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	12

PATH: I:\2018\1663724\Mapping\NAD29000_RegulatorySupport_2019\Monitors\g1663724_29000_01_Fig01Ice2_BaffinBay_DailyShipTraffic_and_IceCover_DDP_Rev0.mxd PRINTED ON: 2020-04-17 AT: 2:26:26 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 28mm



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- ▭ NUNAVUT SETTLEMENT AREA BOUNDARY
- ▭ PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- BULK DESTINY
- CLAUDE A. DESGAGNES
- GOLDEN PEARL
- GOLDEN RUBY
- GOLDEN STRENGTH
- JACK POLAIRE
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC OSHIMA
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT
- SARAH DESGAGNES

DRAFT

0100200KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ". REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 25, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO.

1663724

CONTROL

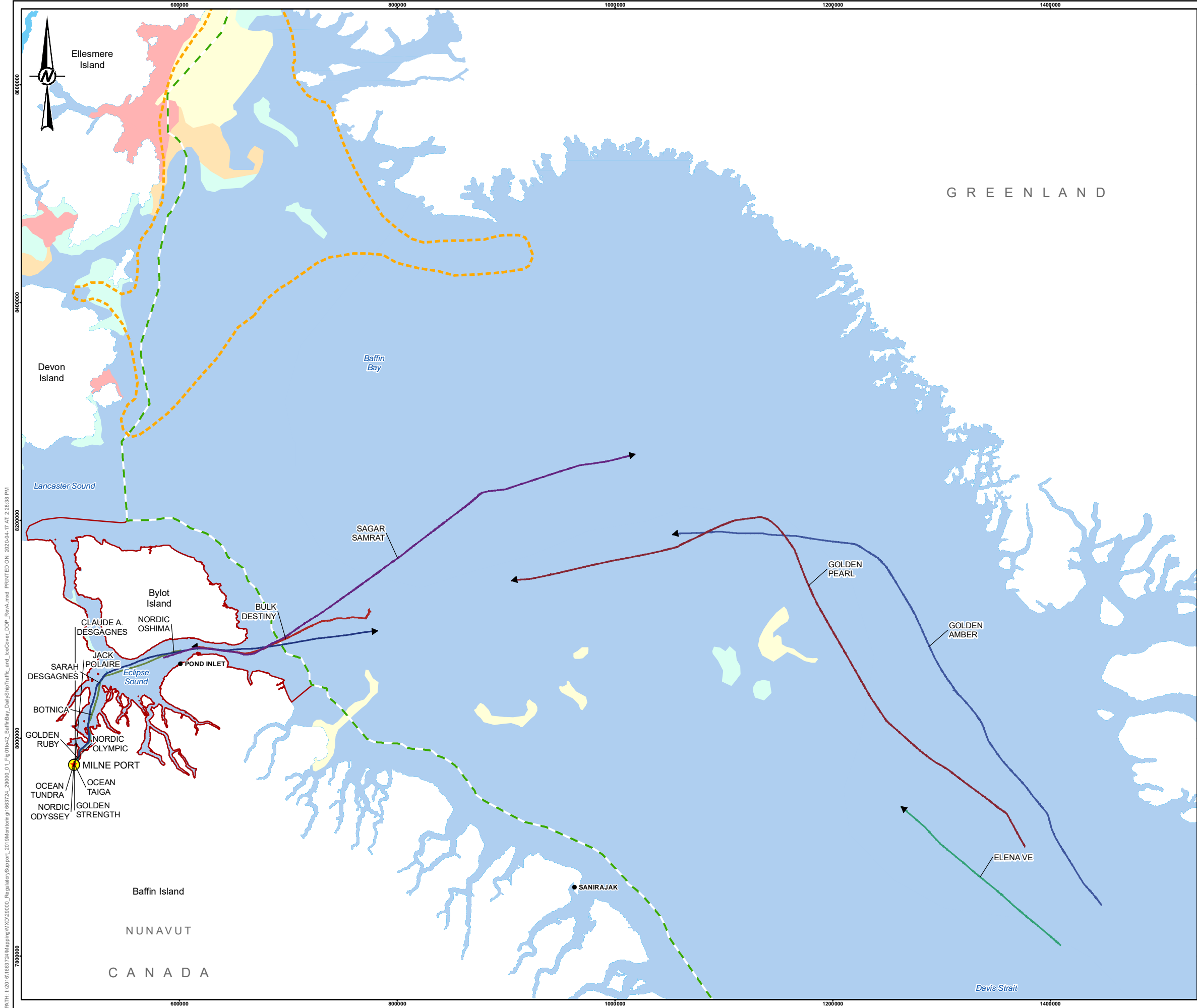
29000-01

REV.

A

FIGURE

13



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- ▭ NUNAVUT SETTLEMENT AREA BOUNDARY
- ▭ PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- BULK DESTINY
- CLAUDE A. DESGAGNES
- ELENA VE
- GOLDEN AMBER
- GOLDEN PEARL
- GOLDEN RUBY
- GOLDEN STRENGTH
- JACK POLAIRE
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC OSHIMA
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT
- SARAH DESGAGNES

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ". REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

2019 EARLY SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - JULY 26, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

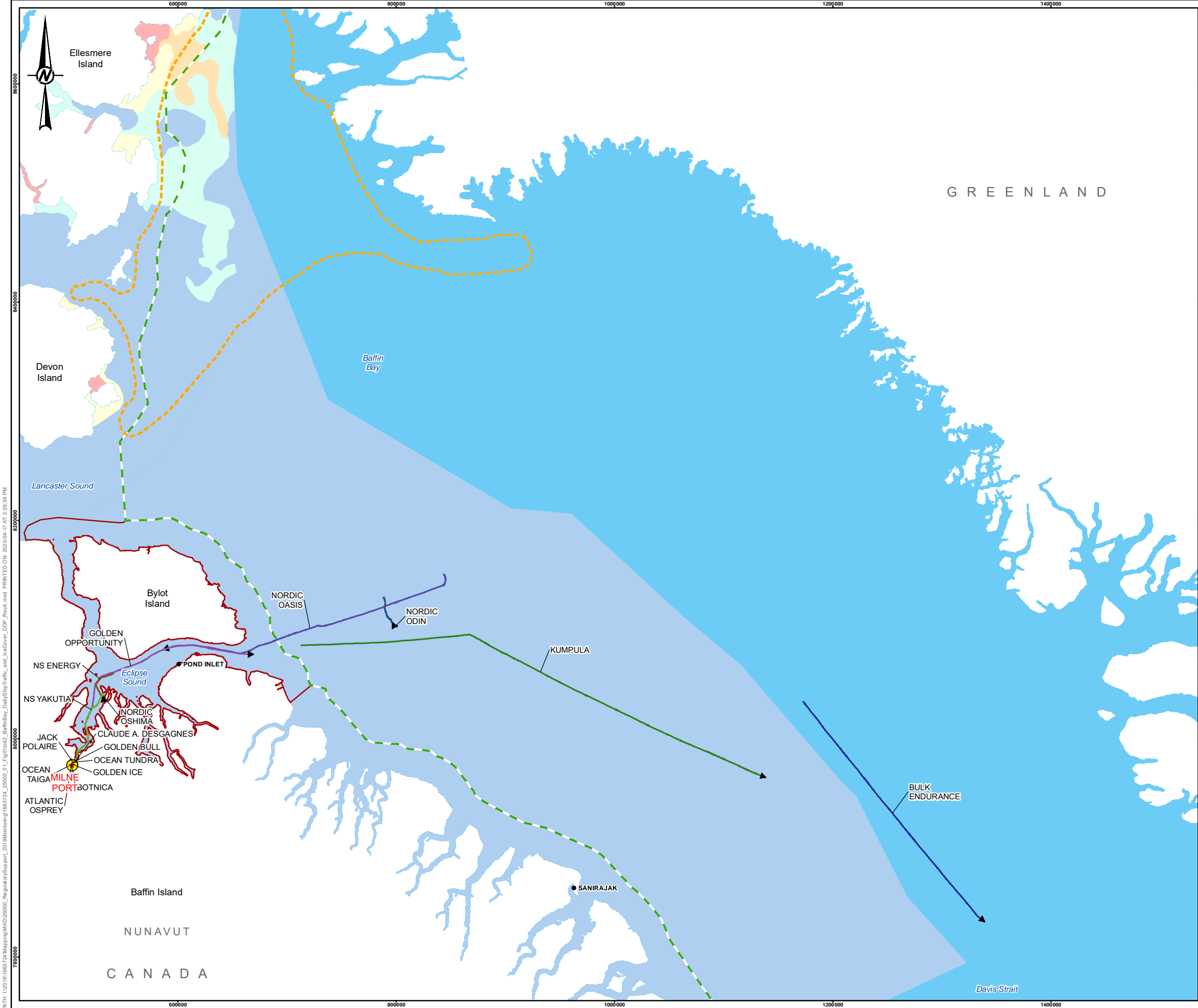
PROJECT NO. 1663724

CONTROL 29000-01

REV. A

FIGURE 14

GOLDER



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- ATLANTIC OSPREY
- BOTNICA
- BULK ENDURANCE
- CLAUDE A. DESGAGNES
- GOLDEN BULL
- GOLDEN ICE
- GOLDEN OPPORTUNITY
- JACK POLAIRE
- KUMPULA
- NORDIC OASIS
- NORDIC ODIN
- NORDIC OSHIMA
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

1:3,500,000

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

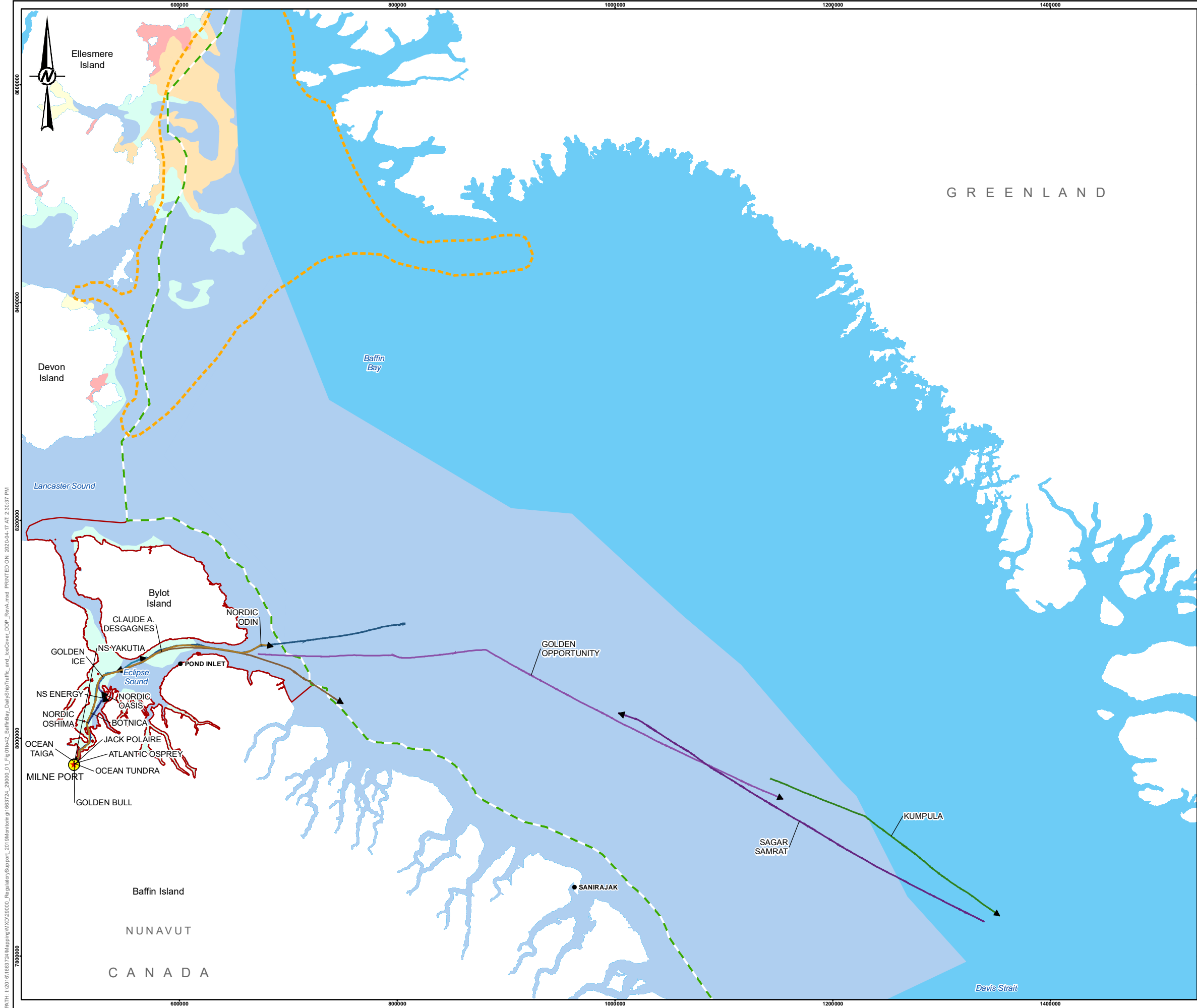
MARY RIVER PROJECT

TITLE

2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 04, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	15



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- ATLANTIC OSPREY
- BOTNICA
- CLAUDE A. DESGAGNES
- GOLDEN BULL
- GOLDEN ICE
- GOLDEN OPPORTUNITY
- JACK POLAIRE
- KUMPULA
- NORDIC OASIS
- NORDIC ODIN
- NORDIC OSHIMA
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT

DRAFT

0100200KILOMETRES

REFERENCE(S)

ICE CONCENTRATIONS OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ". REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

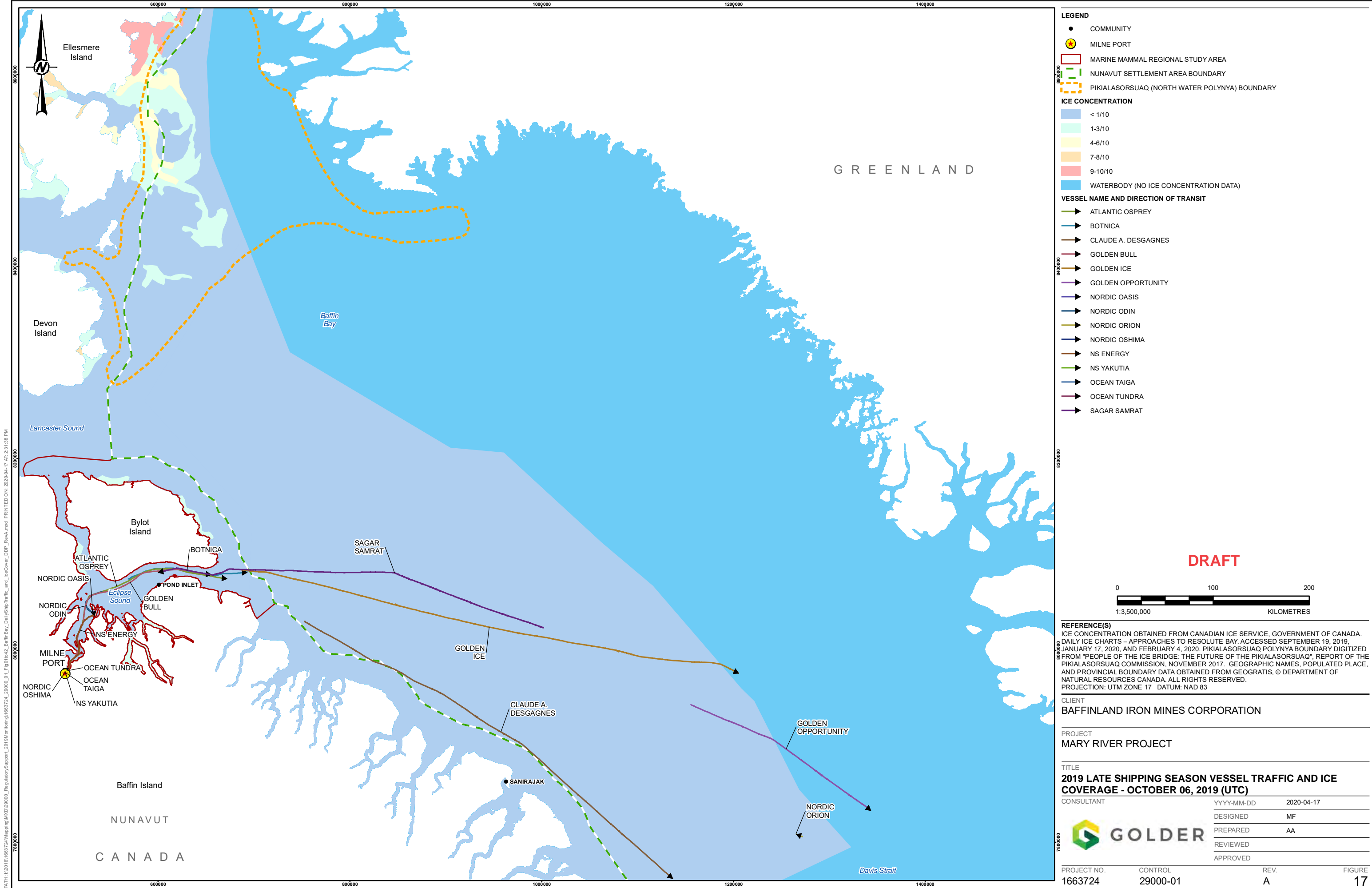
MARY RIVER PROJECT

TITLE

2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 05, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

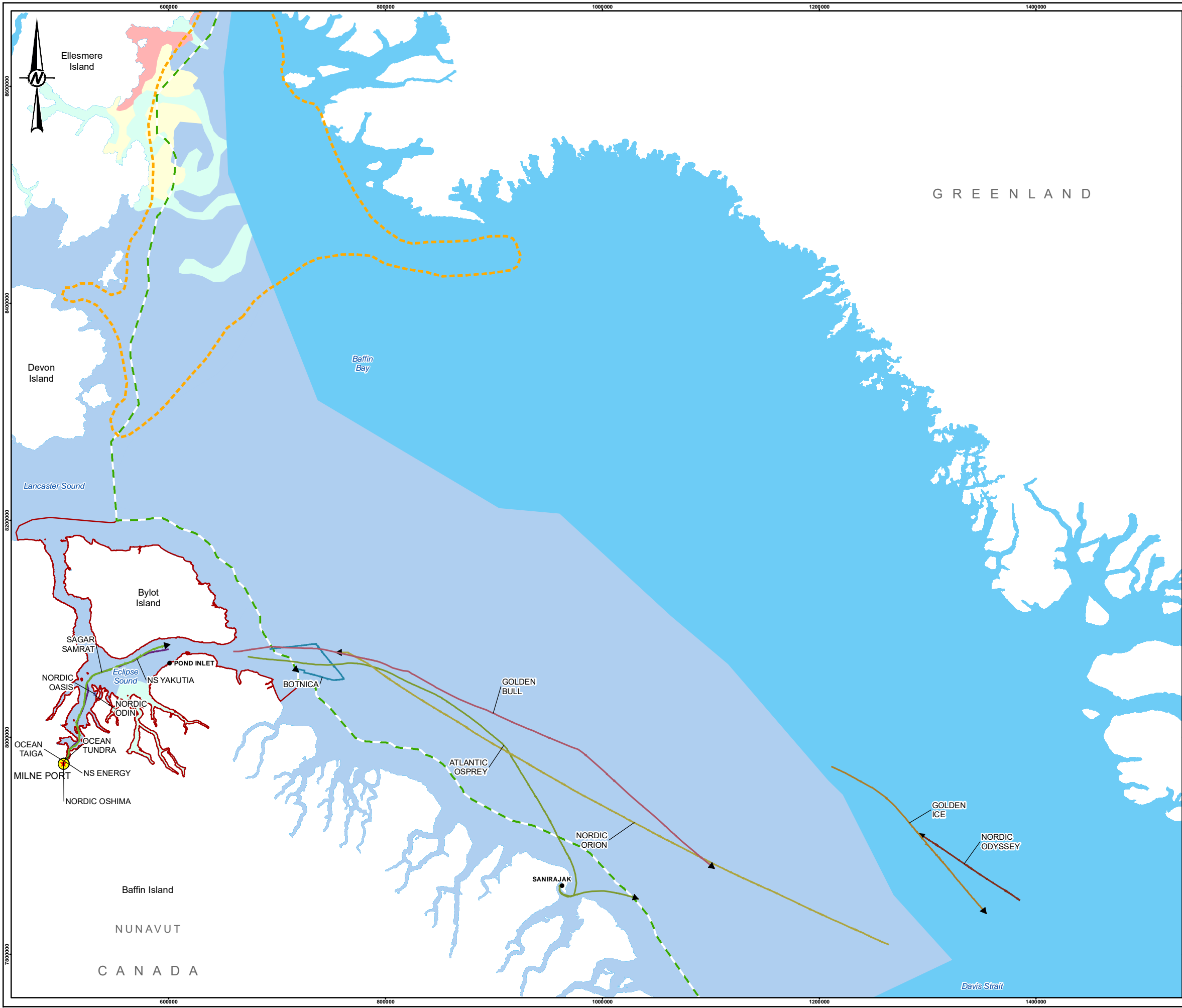
PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	16



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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 25mm

PATH: I:\2018\1663724\Mapping\NCD\29000_RegulatorySupport_2019\Monitors\gl1663724_BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:32:44 PM



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- ATLANTIC OSPREY
- BOTNICA
- GOLDEN BULL
- GOLDEN ICE
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC ORION
- NORDIC OSHIMA
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)
ICE CONCENTRATIONS OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

PROJECT
MARY RIVER PROJECT

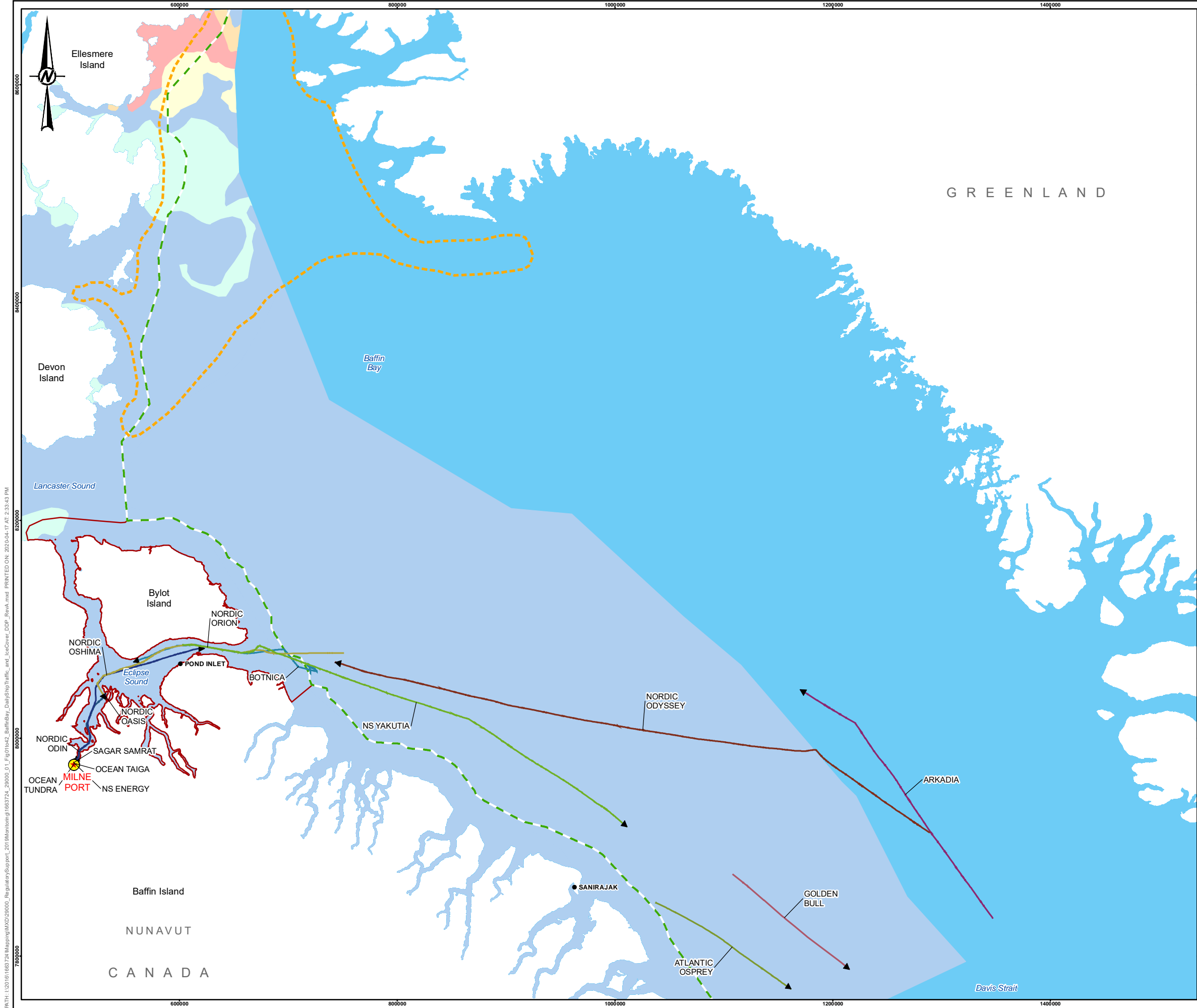
TITLE
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 07, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	18

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 28mm



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- ARKADIA
- ATLANTIC OSPREY
- BOTNICA
- GOLDEN BULL
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC ORION
- NORDIC OSHIMA
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATIONS OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 08, 2019 (UTC)

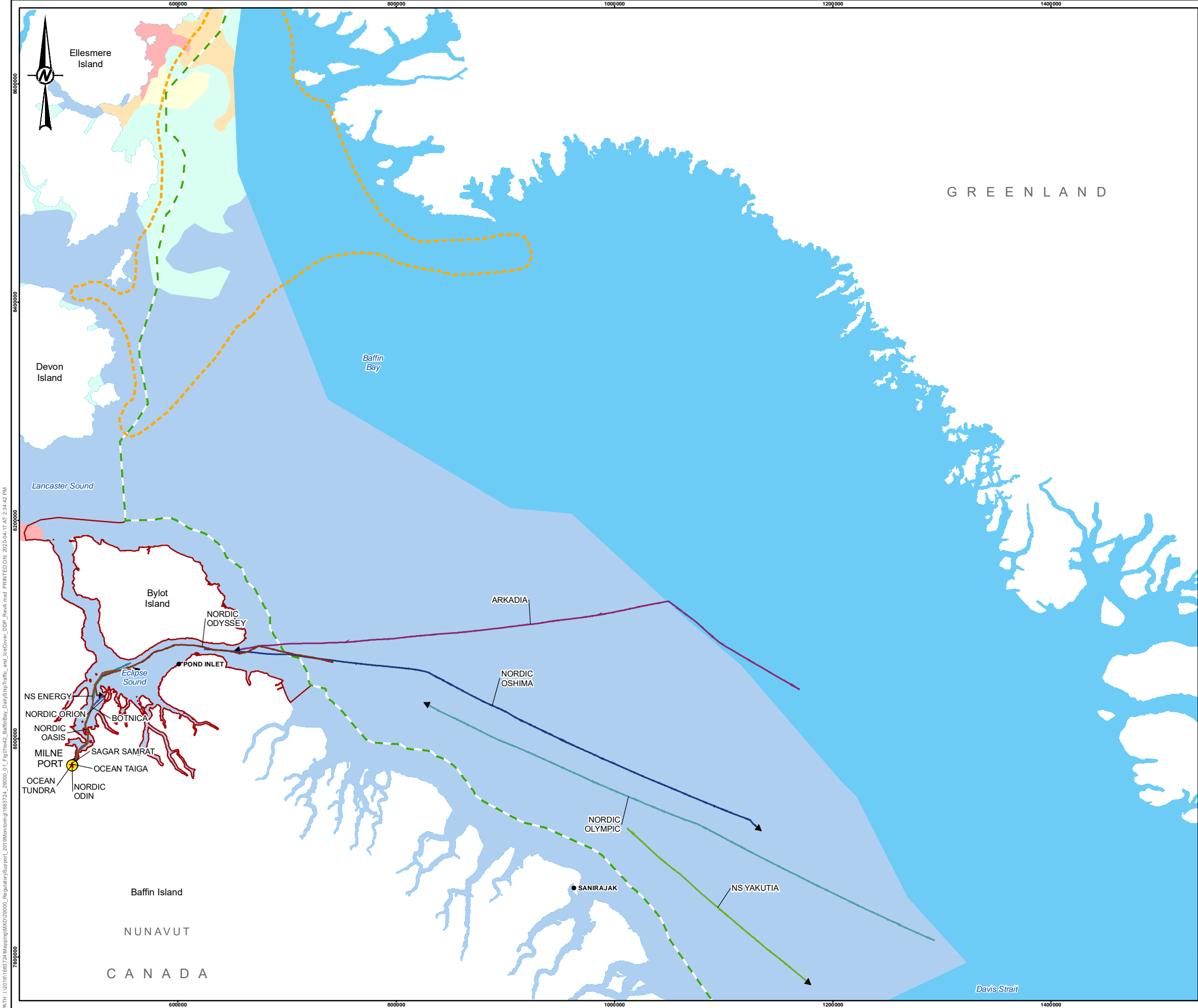
CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	19

PATH: I:\2018\1663724\Mapping\NAD29000_RegulatorySupport_2019\Monitors\gl1663724_29000_01_Fig01Ice2_BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:34:43 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- ARKADIA
- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- NORDIC OSHIMA
- NS ENERGY
- NS YAKUTIA
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATIONS OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

PROJECT
MARY RIVER PROJECT

TITLE
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 09, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

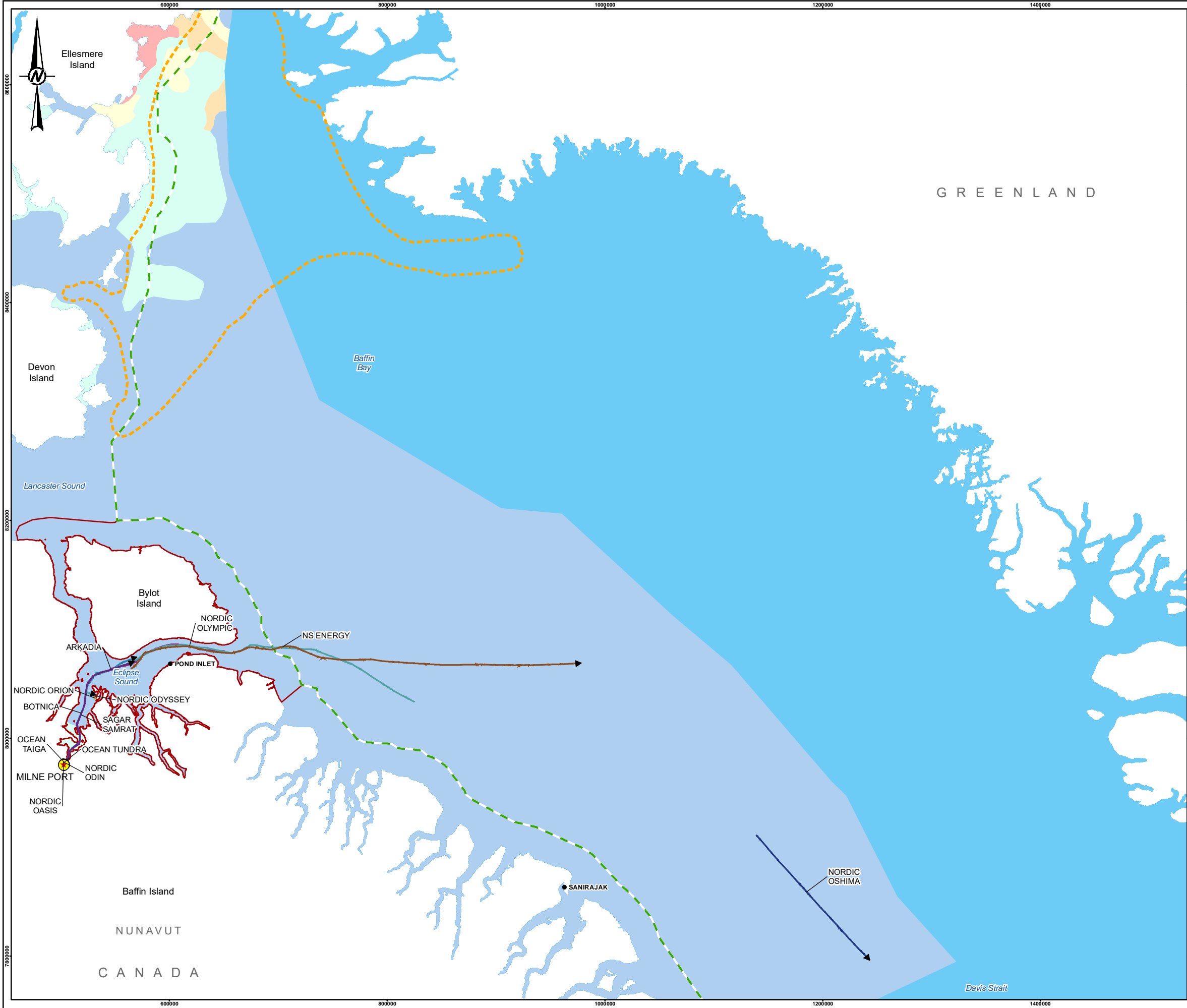
PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	20

PATH: I:\2018\1663724\Mapping\NAD2000_RegulatorySupport_2019\Monitors\gl1663724_29000_01_Fig01\resolute_bay\DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:44:42 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

28mm

PATH: I:\2018\1663724\Mapping\NAD2000_RegulatorySupport_2019\Monitors\gl1663724_BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:35:41 PM



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- ARKADIA
- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- NORDIC OSHIMA
- NS ENERGY
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT

DRAFT
0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATIONS OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

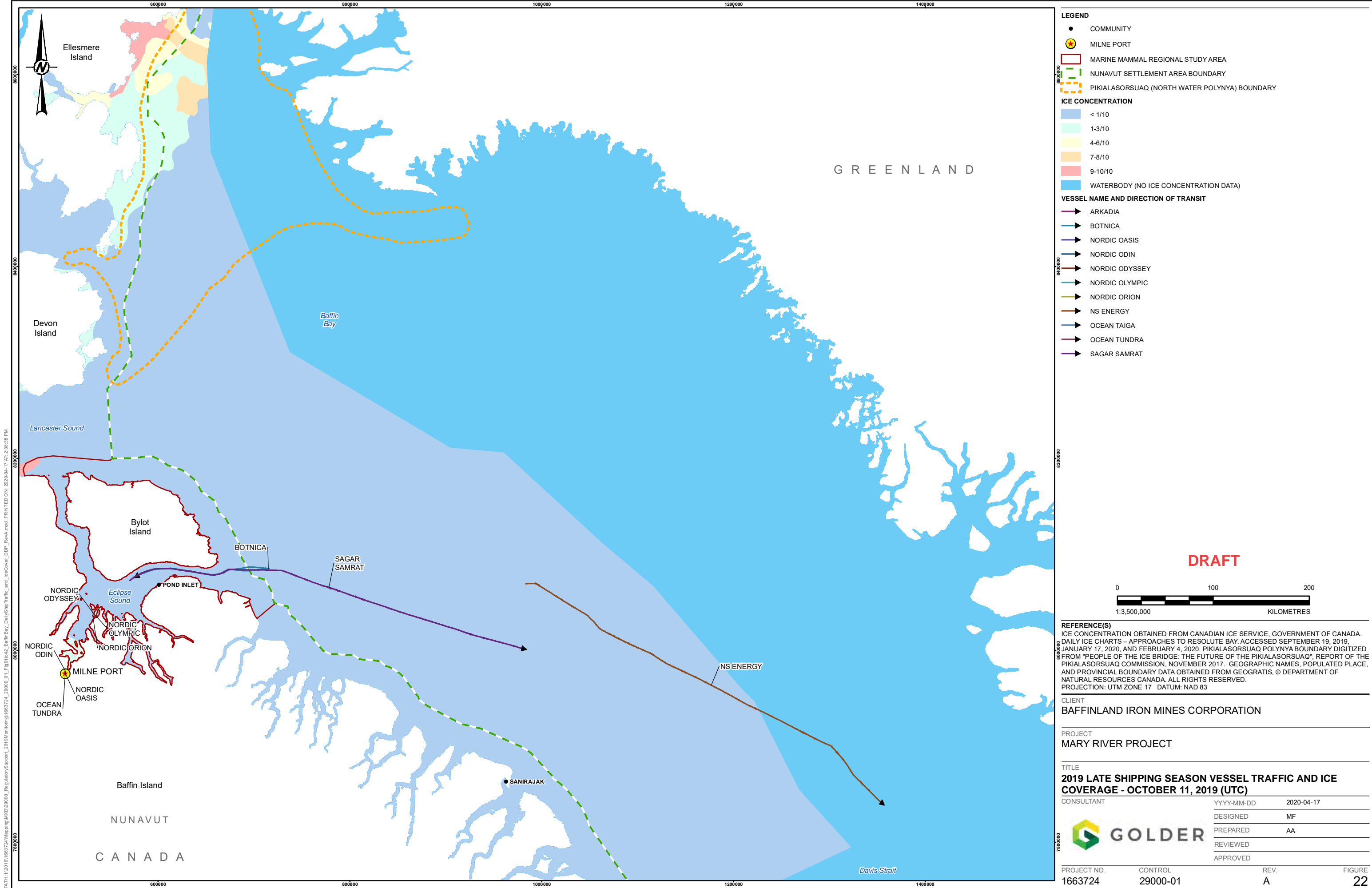
TITLE

2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 10, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	21

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 28mm



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- ➔ ARKADIA
- ➔ BOTNICA
- ➔ NORDIC OASIS
- ➔ NORDIC ODIN
- ➔ NORDIC ODYSSEY
- ➔ NORDIC OLYMPIC
- ➔ NORDIC ORION
- ➔ NS ENERGY
- ➔ OCEAN TAIGA
- ➔ OCEAN TUNDRA
- ➔ SAGAR SAMRAT

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)
ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

PROJECT
MARY RIVER PROJECT

TITLE
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 11, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO.
1663724

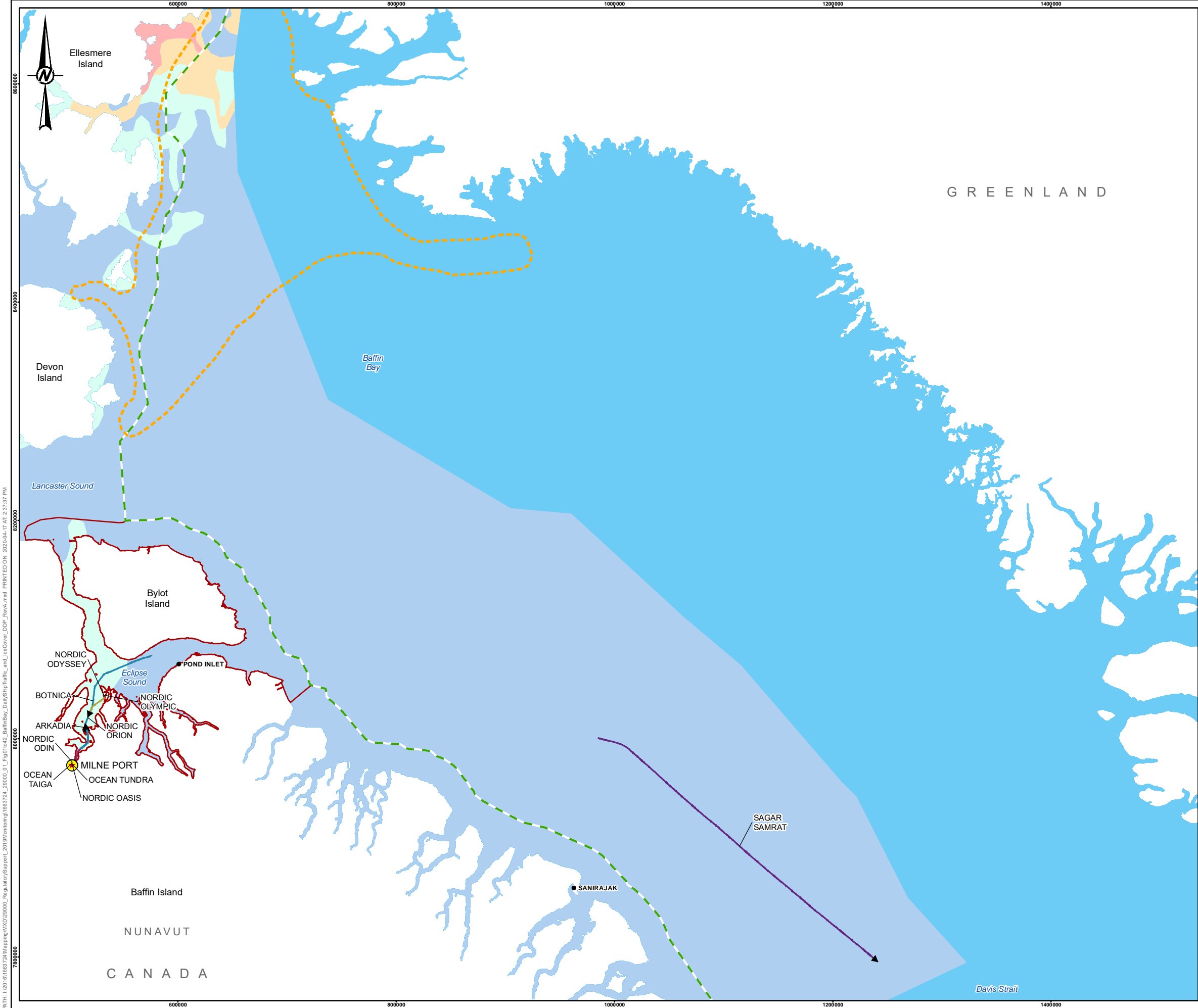
CONTROL
29000-01

REV.
A

FIGURE
22

PATH: I:\2018\1663724\Mapping\NAD29000_RegulatorySupport_2019\Monitors\gl1663724_29000_01_Fig01\resolute_bay\BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:36:38 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 28mm



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- ARKADIA
- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA
- SAGAR SAMRAT

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)
ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ". REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

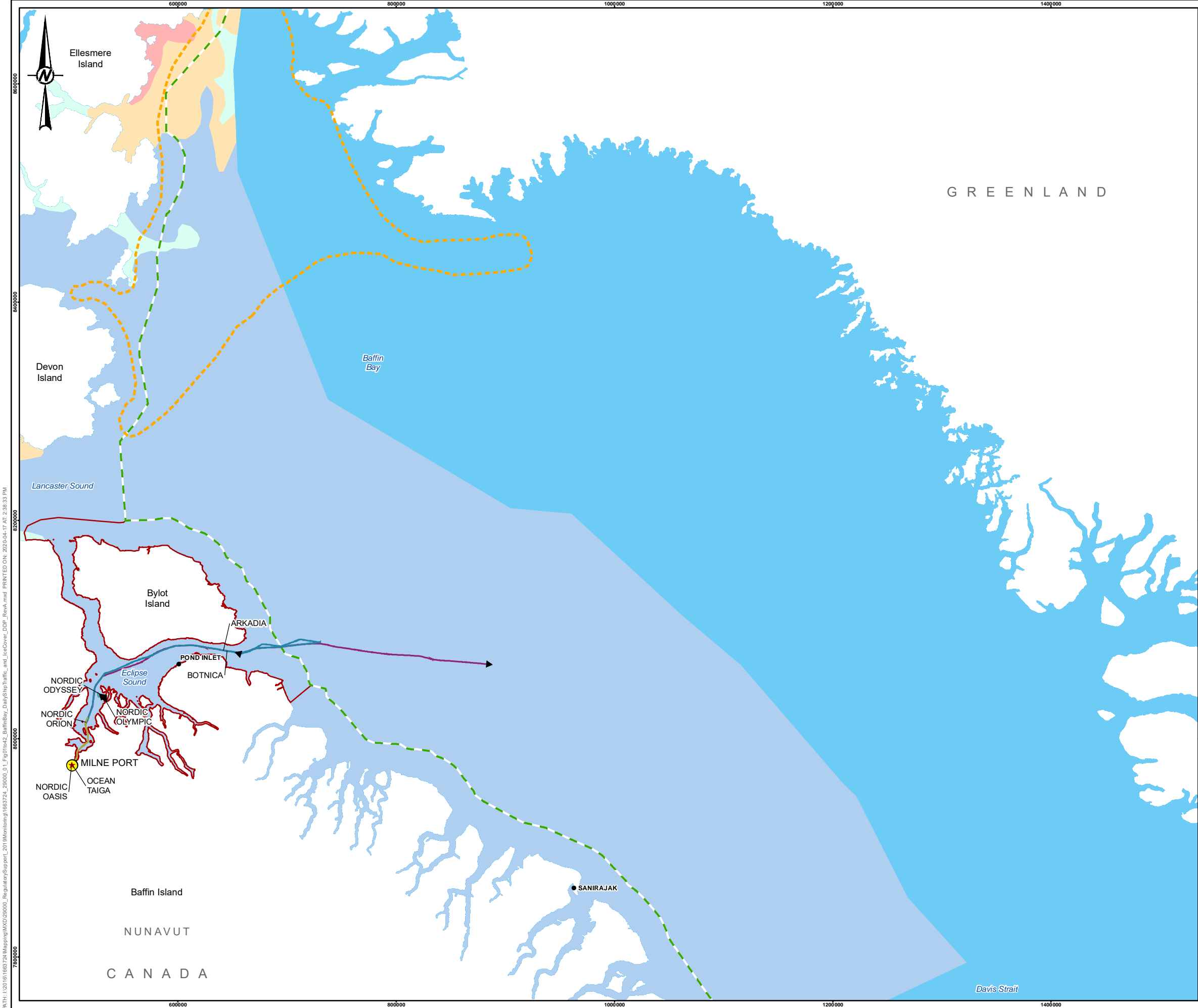
CLIENT
BAFFINLAND IRON MINES CORPORATION

PROJECT
MARY RIVER PROJECT

TITLE
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 12, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO. 1663724 CONTROL 29000-01 REV. A FIGURE 23



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- ARKADIA
- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATIONS OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

PROJECT
MARY RIVER PROJECT

TITLE
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 13, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO. 1663724 CONTROL 29000-01 REV. A FIGURE 24

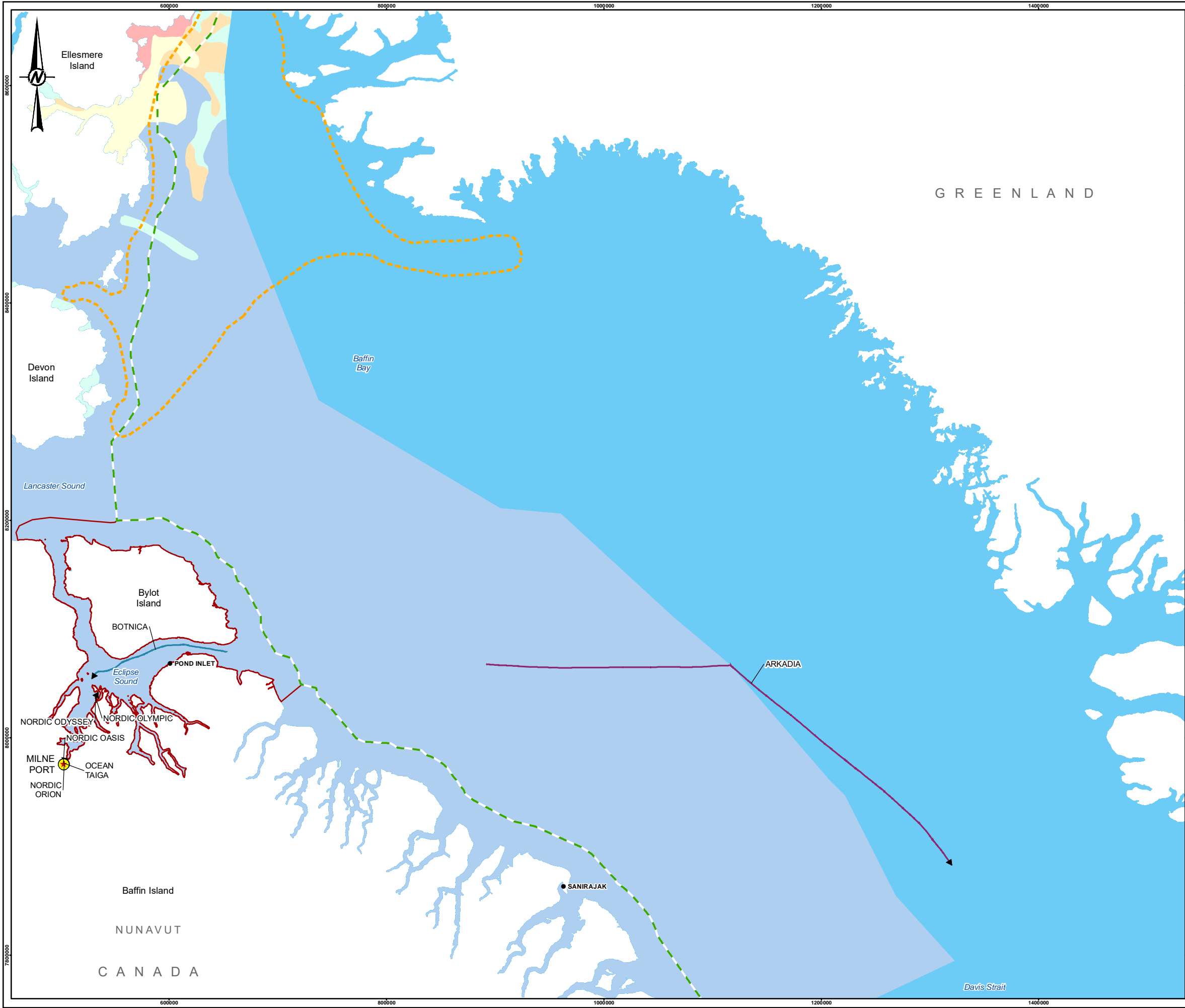
GOLDER

PATH: I:\2018\1663724\Mapping\NAD29000_RegulatorySupport_2019\Monitors\gl1663724_29000_01_Fig01\resolute_bay\DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:38:33 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

28mm

PATH: I:\2018\1663724\Mapping\NAD2000_RegulatorySupport_2019\Monitors\gl1663724_29000_01_Fig01Ice2_BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:30:31 PM



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- ARKADIA
- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 14, 2019 (UTC)

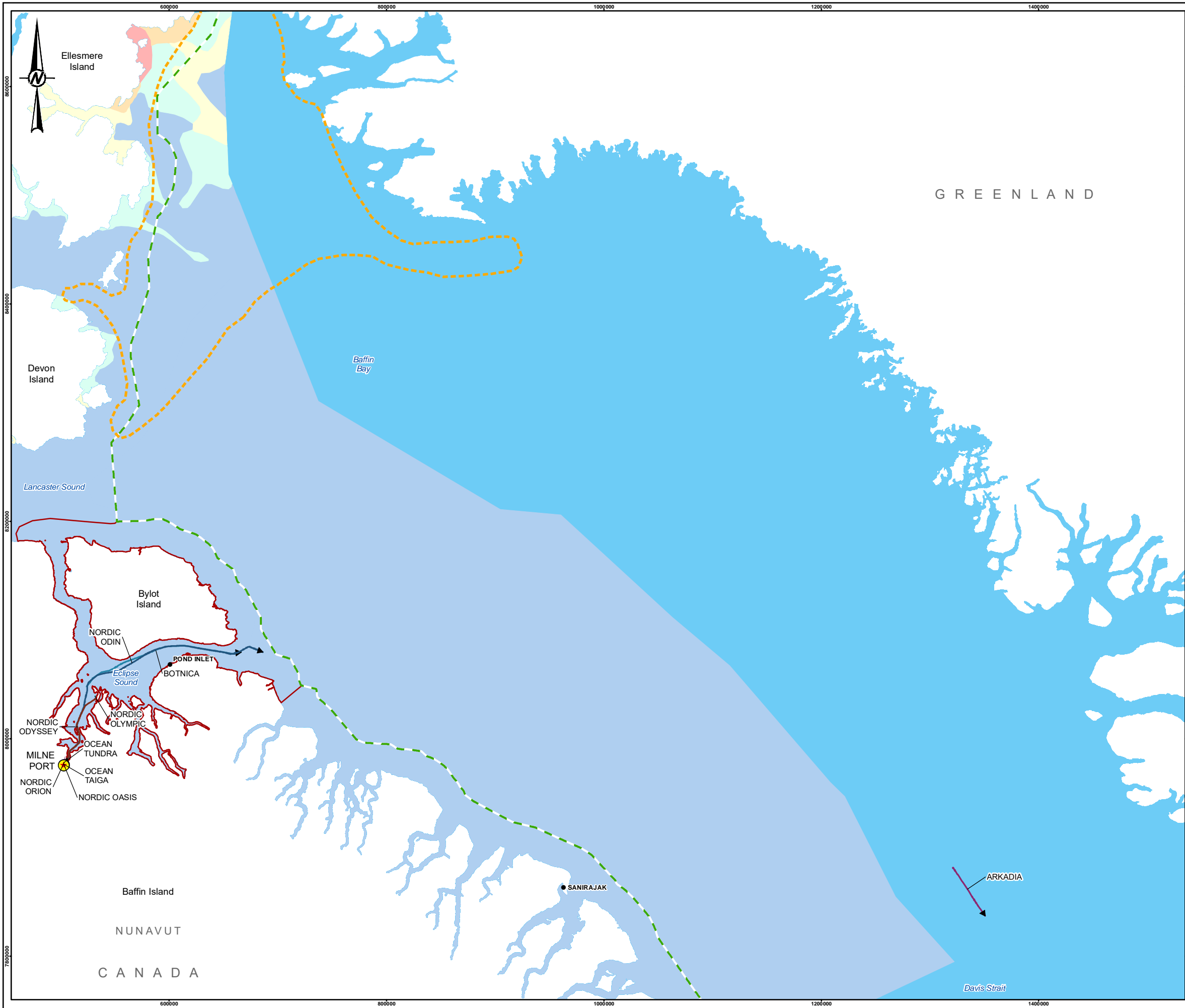
CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	25

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 25mm

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LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- ARKADIA
- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

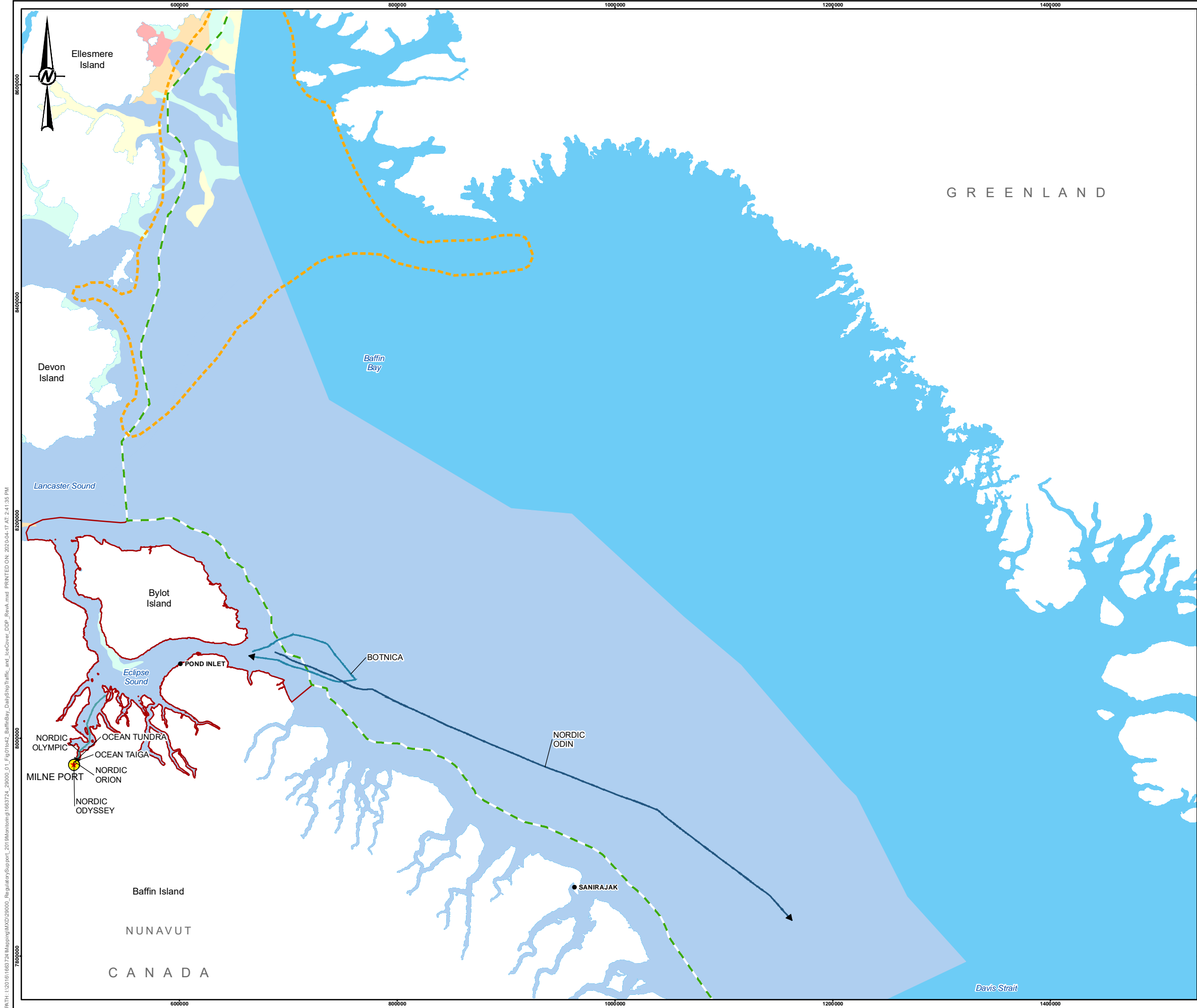
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 15, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	26

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 28mm



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

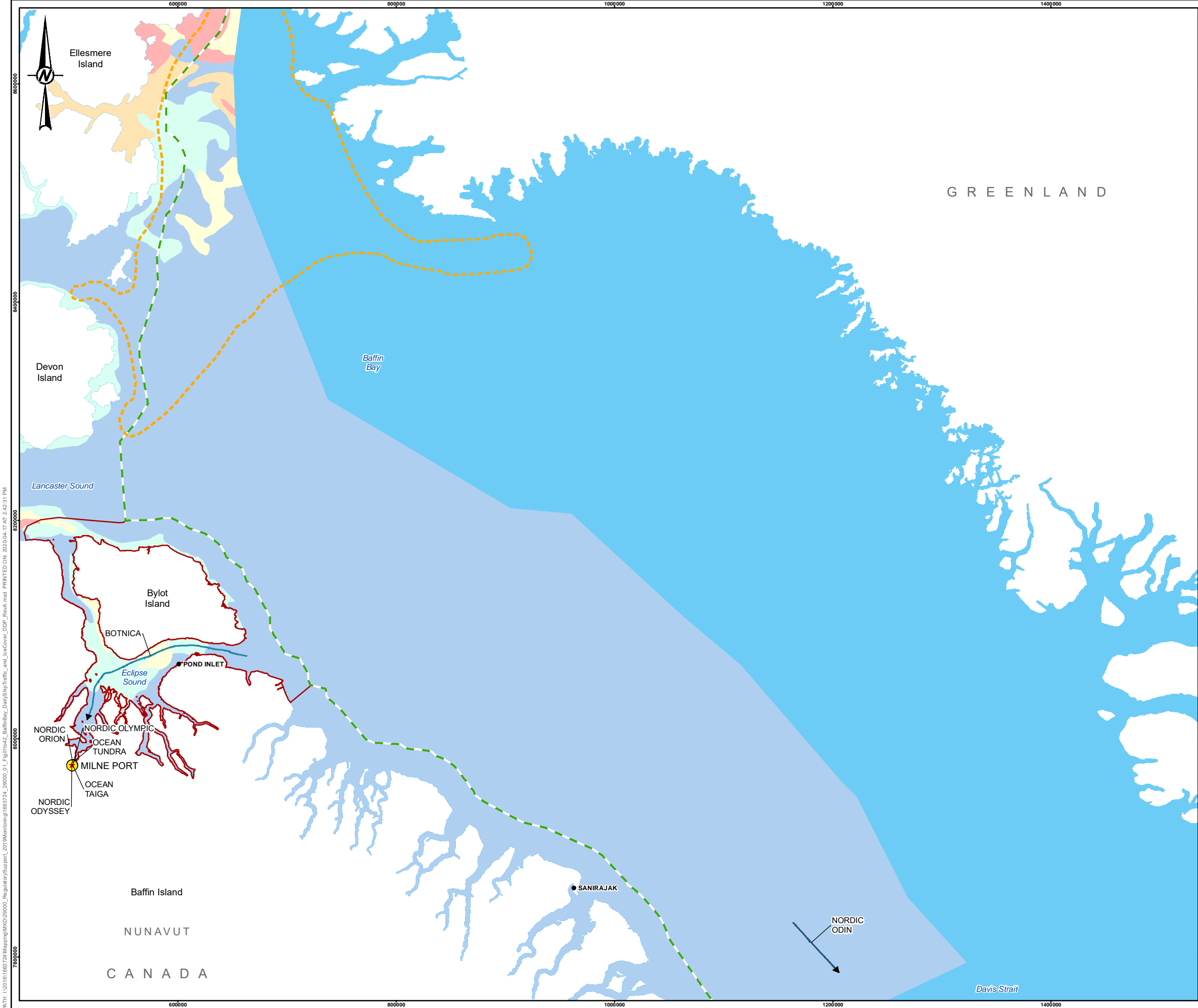
MARY RIVER PROJECT

TITLE

2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 16, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO. 1663724 CONTROL 29000-01 REV. A FIGURE 27



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OASIS
- NORDIC ODIN
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

PROJECT
MARY RIVER PROJECT

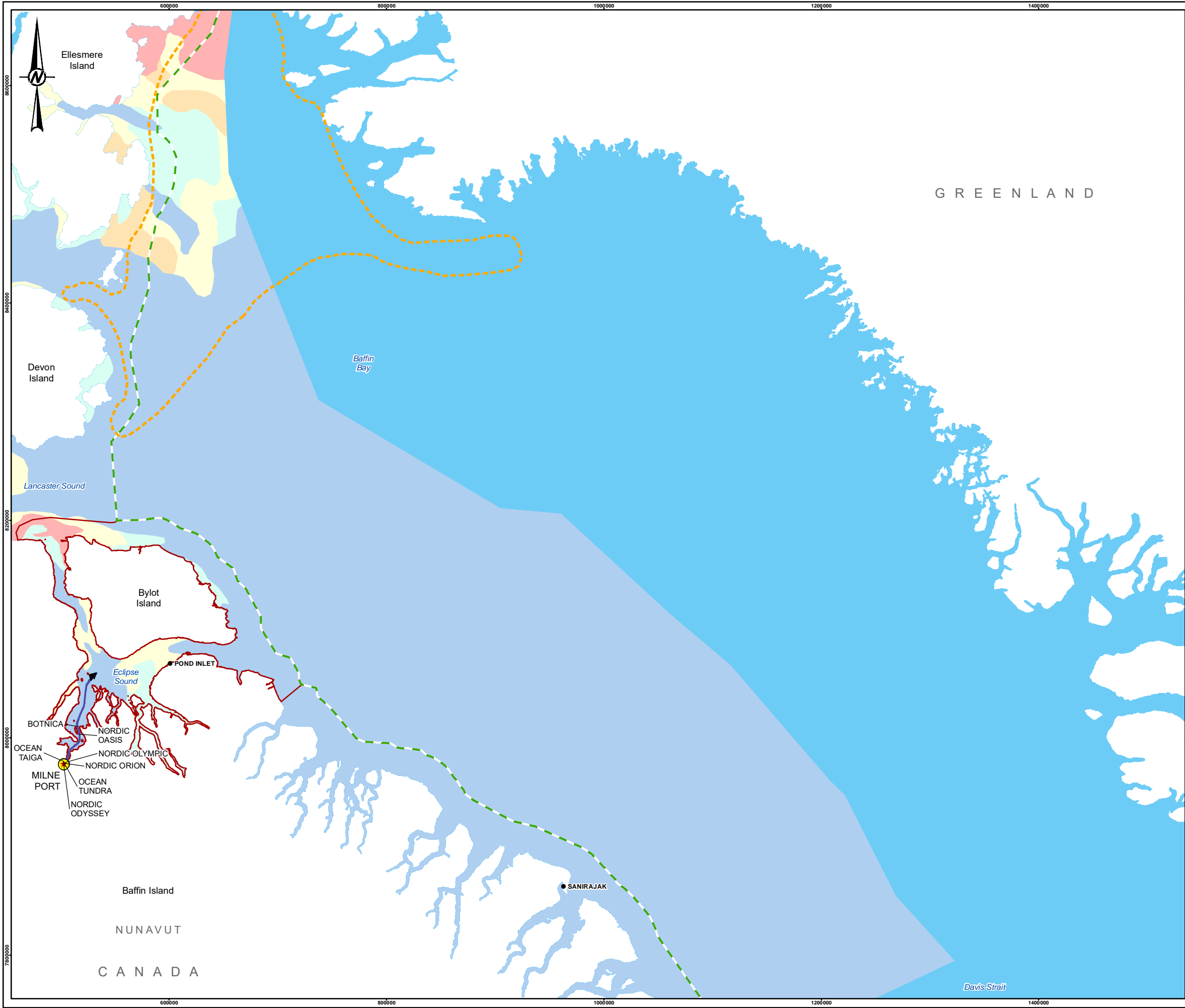
TITLE
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 17, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO. 1663724 CONTROL 29000-01 REV. A FIGURE 28

GOLDER

PATH: I:\2018\1663724\Mapping\NCD\29000_01_Fig01\cs2_BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:43:34 PM



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OASIS
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATIONS OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

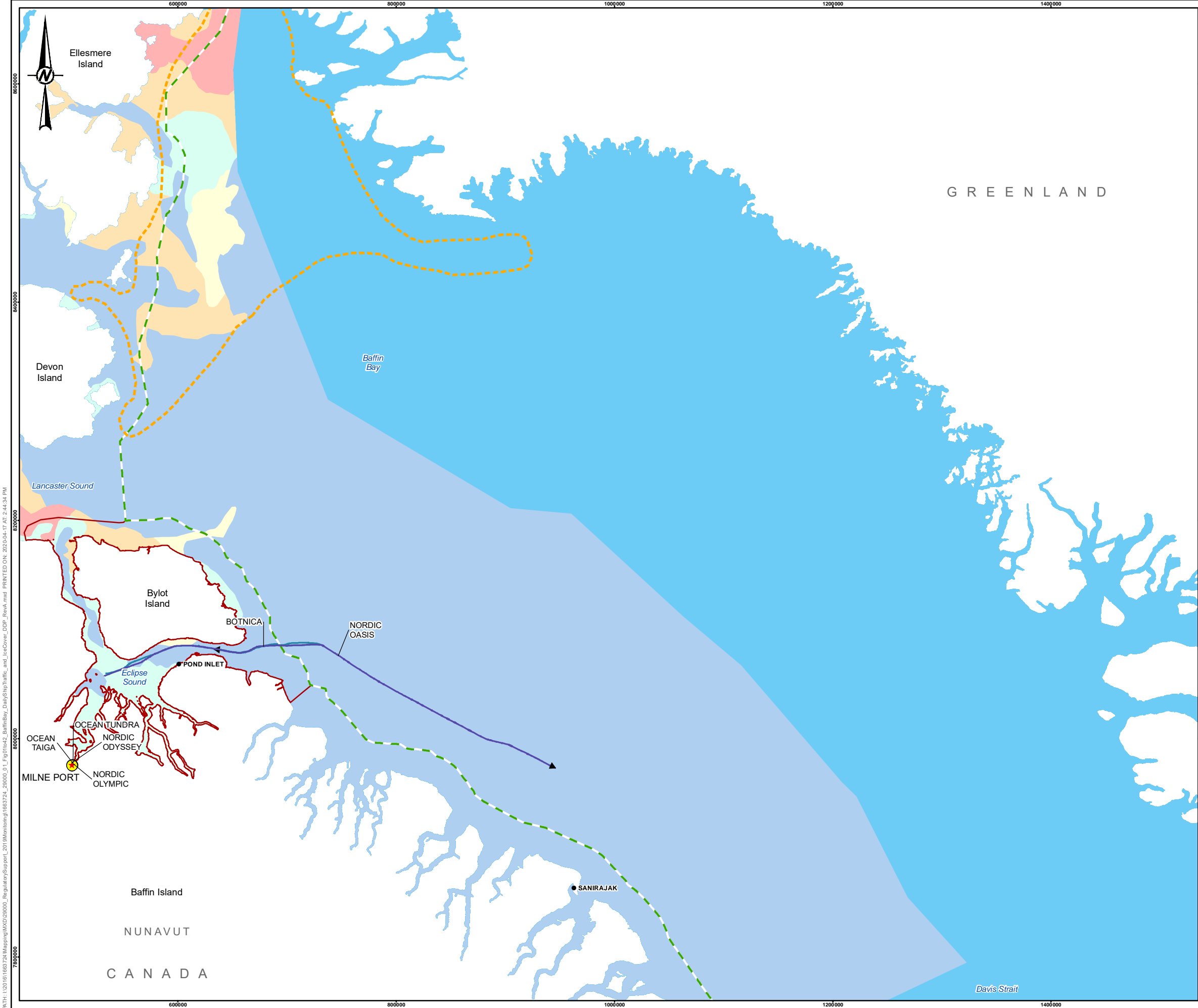
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 18, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	29

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 25mm



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OASIS
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

PROJECT
MARY RIVER PROJECT

TITLE
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 19, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

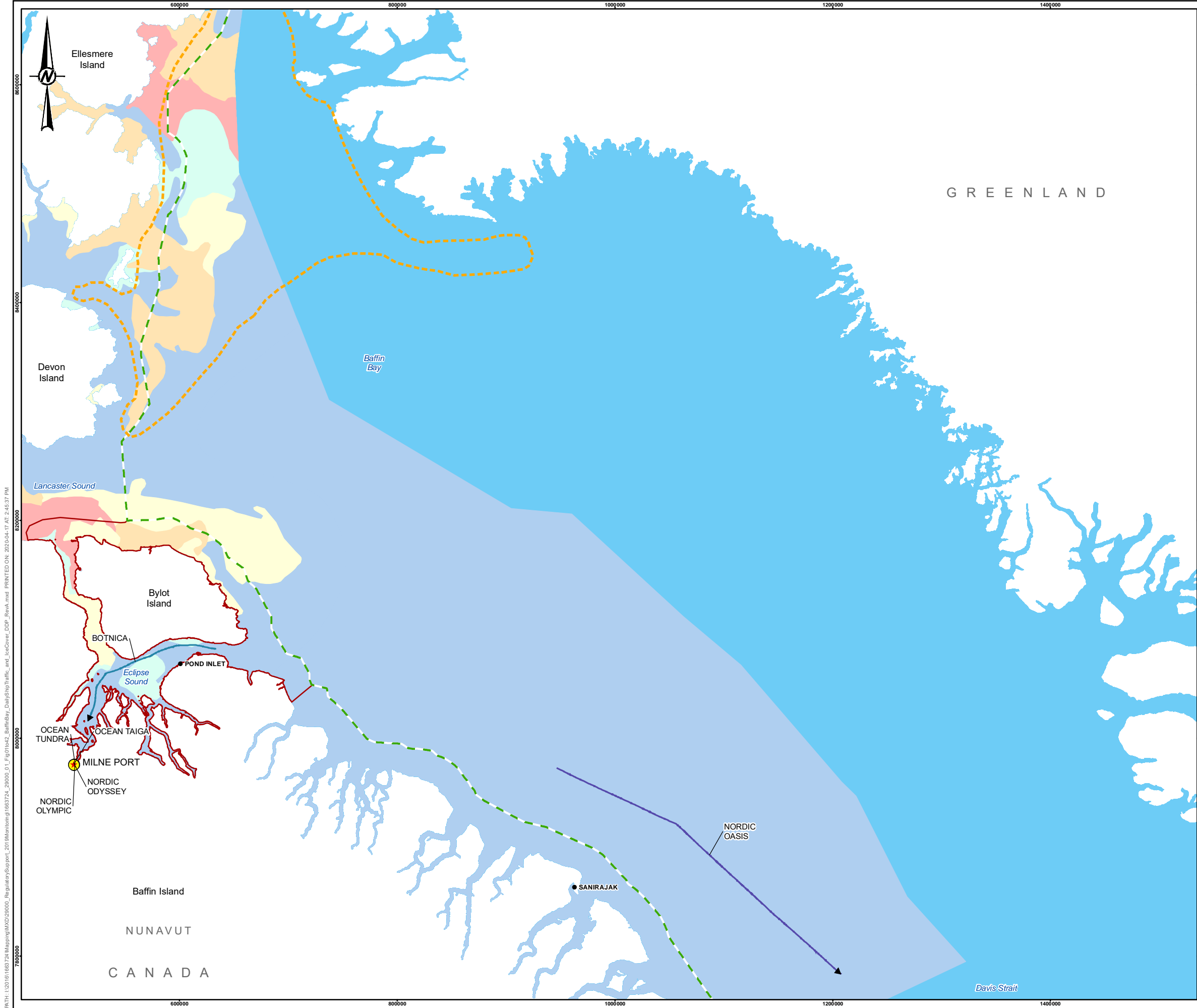
GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	30

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

28mm



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OASIS
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)
ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

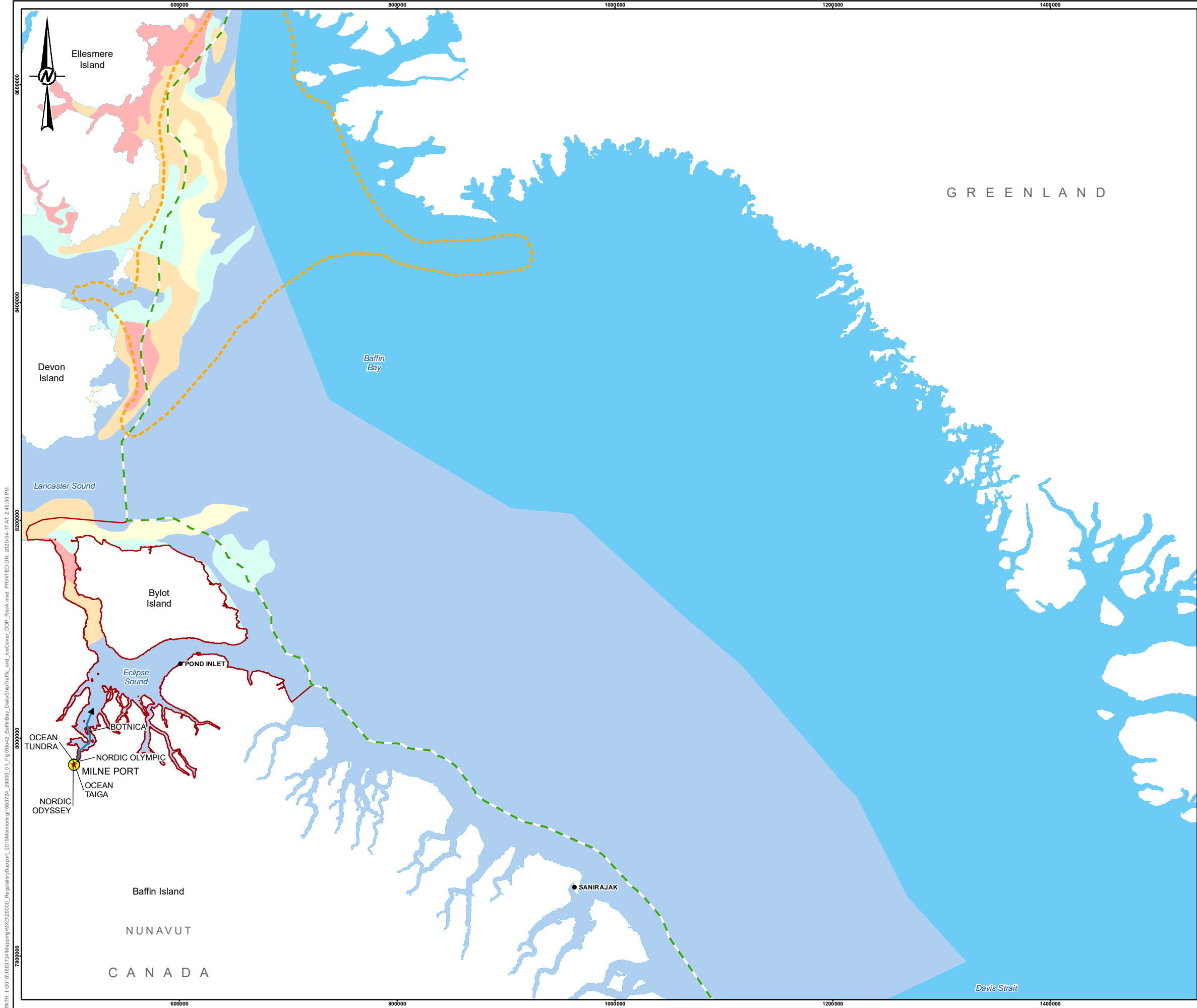
PROJECT
MARY RIVER PROJECT

TITLE
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 20, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	31



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

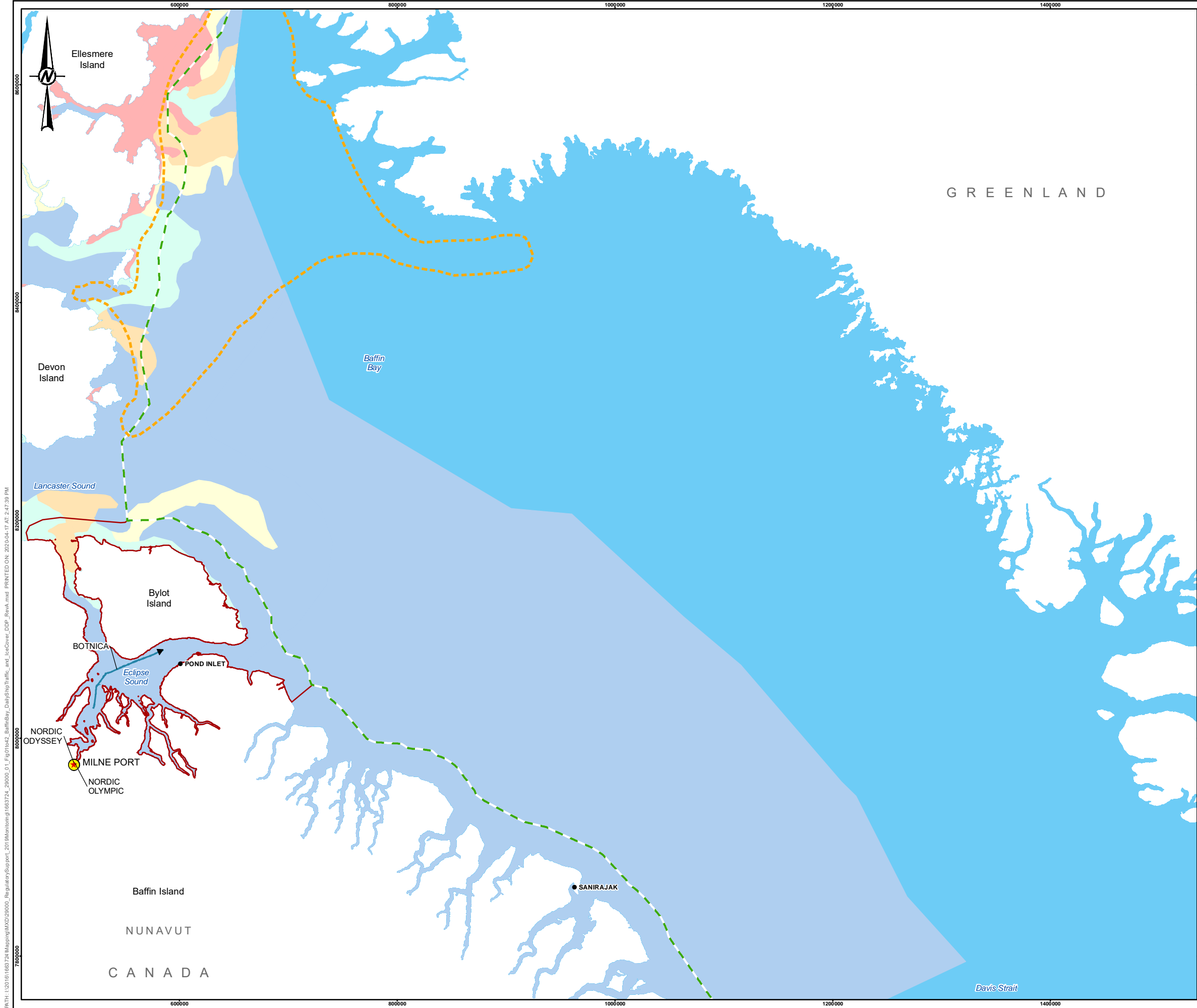
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2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 21, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	32



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

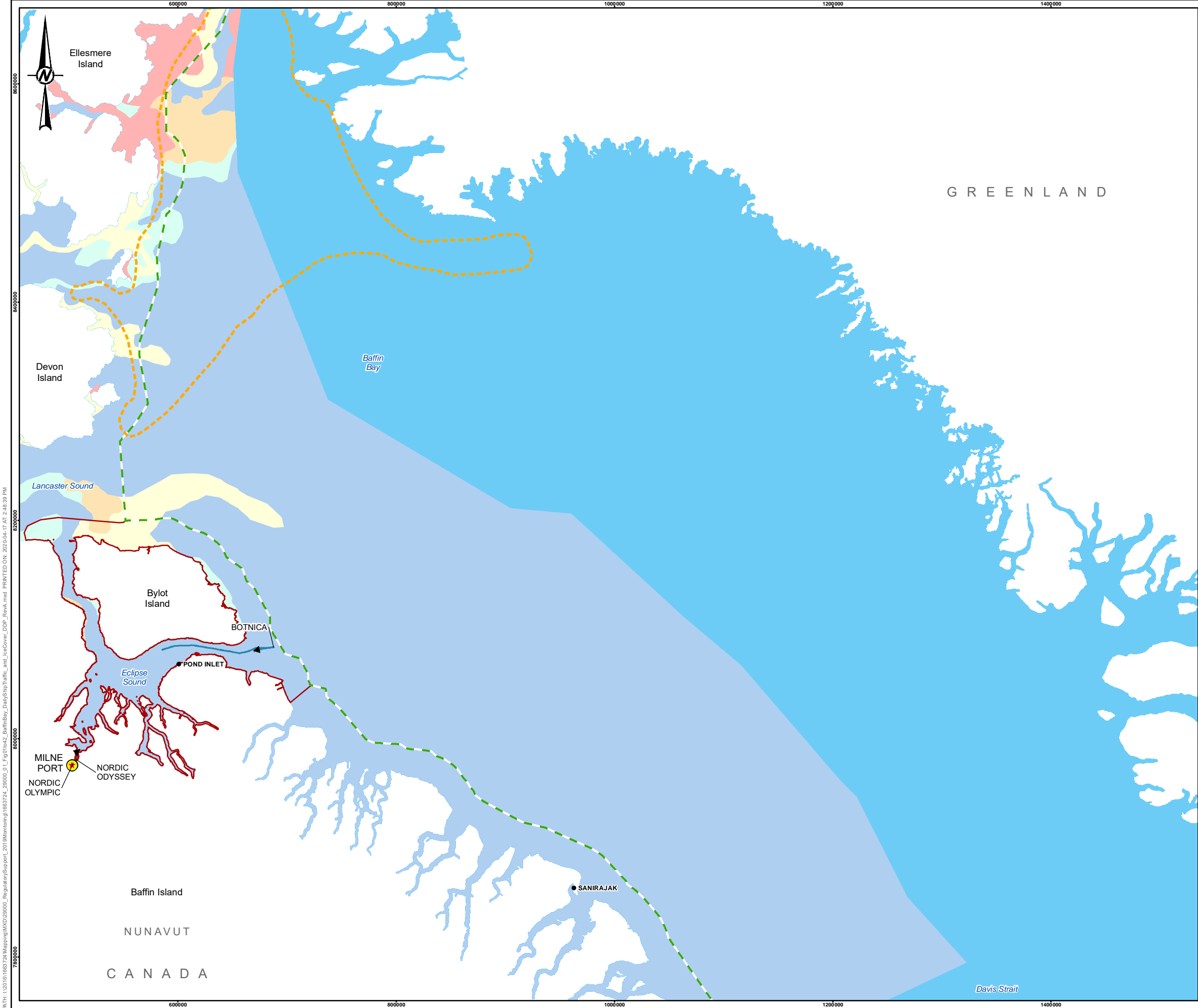
TITLE

2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 22, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	33



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATIONS OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 23, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO. 1663724

CONTROL 29000-01

REV. A

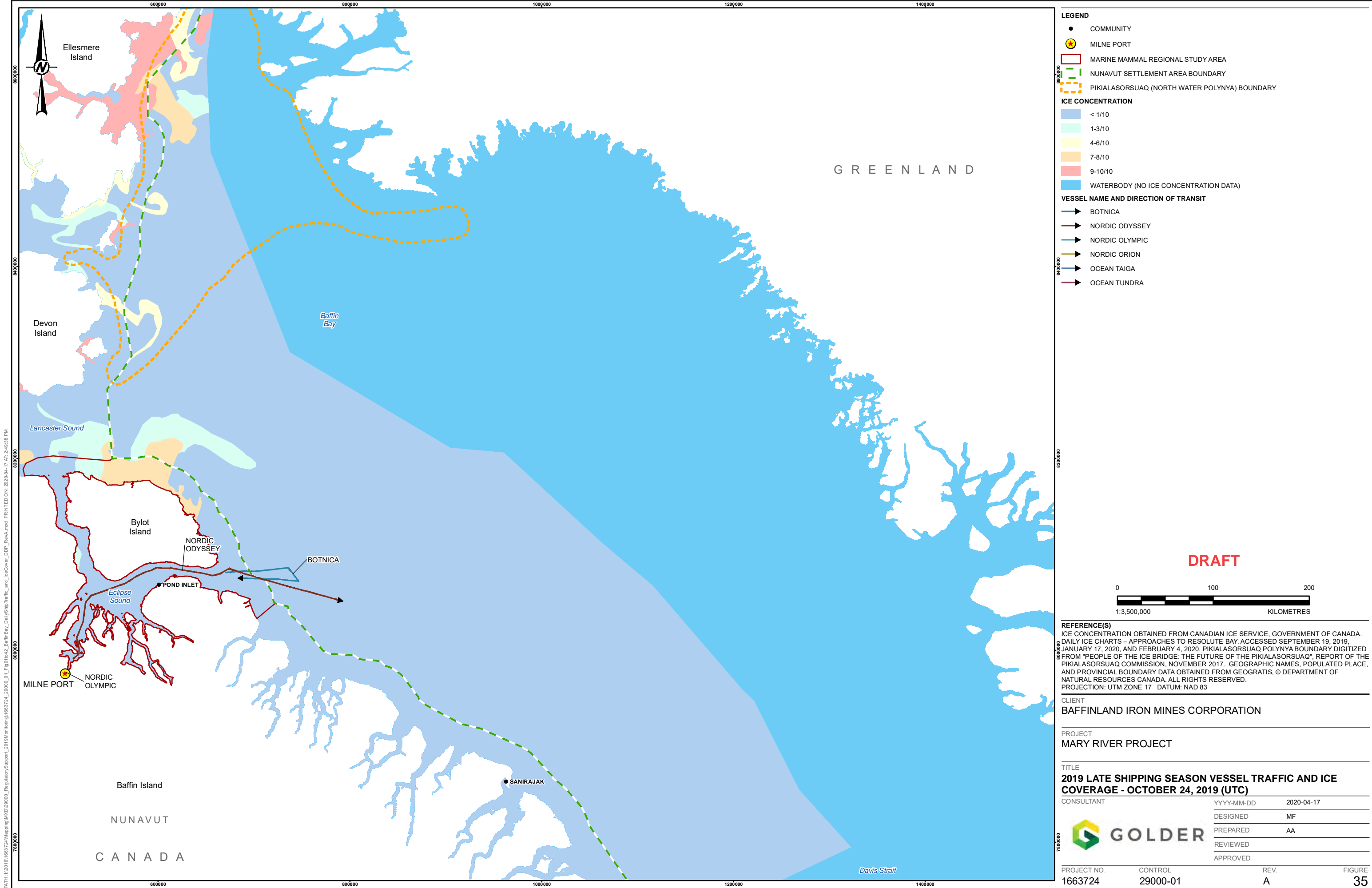
FIGURE 34

GOLDER

PATH: I:\2018\1663724\Mapping\NAD29000_RegulatorySupport_2019\Monitors\gl1663724_29000_01_Fig01\resolute_bay\BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:48:39 PM

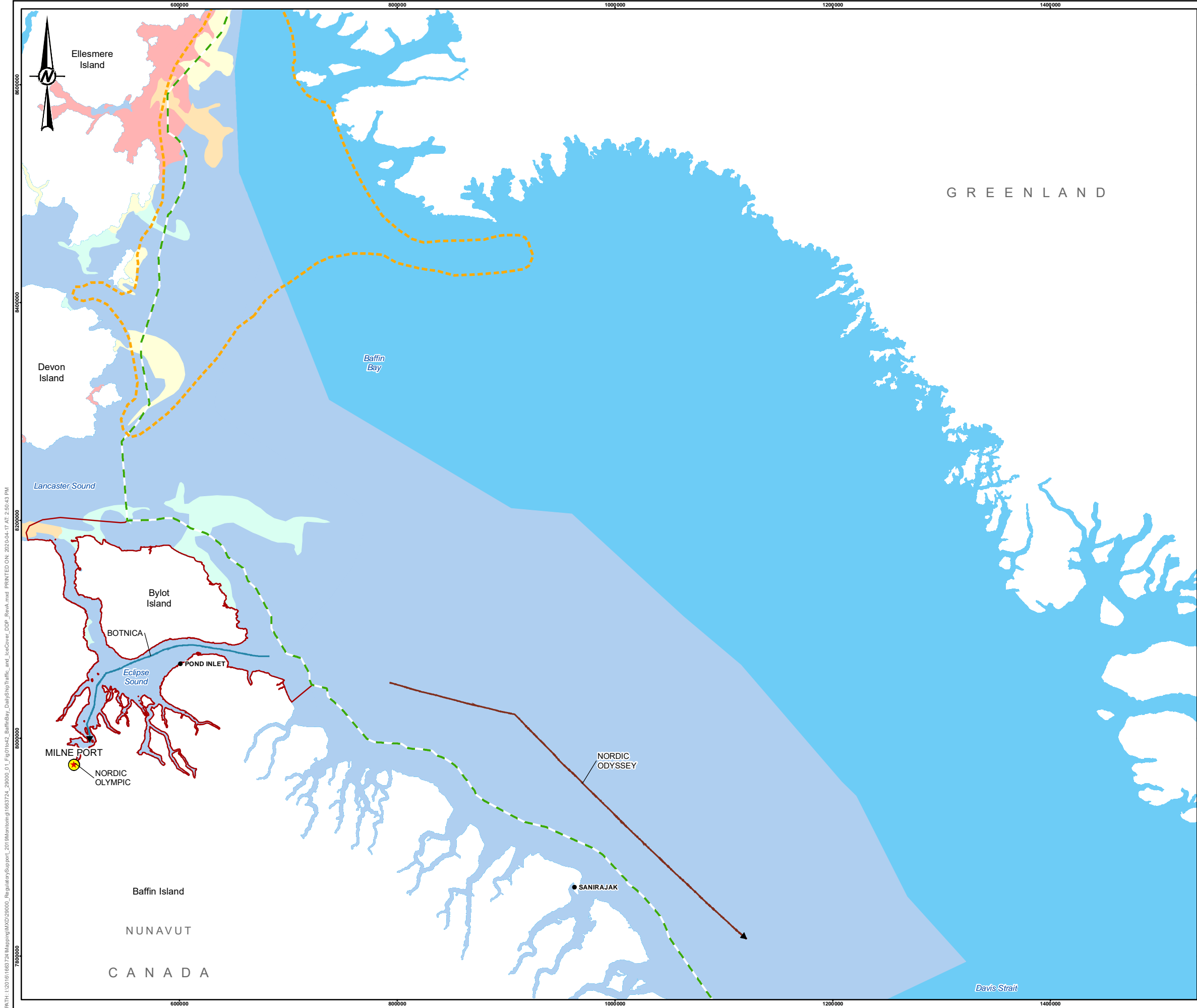
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

28mm



PATH: I:\2019\1663724\Mapping\NCD\29000_RegulatorySupport_2019\Monitors\gl1663724_29000_01_Fig01\resolute_bay\DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:49:38 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 25mm



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 25, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO. 1663724

CONTROL 29000-01

REV. A

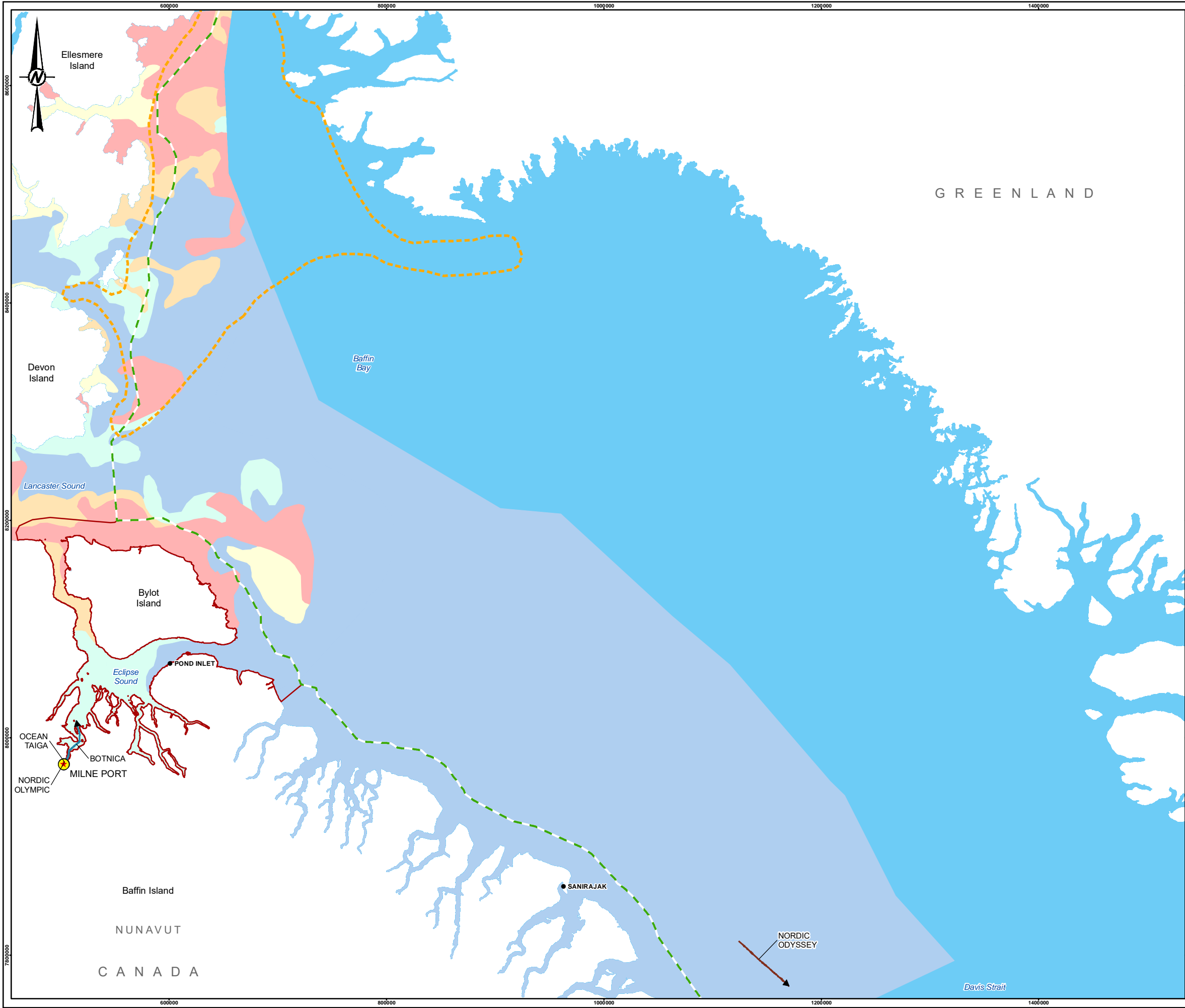
FIGURE 36

GOLDER

PATH: I:\2018\1663724\Mapping\NAD2000_RegulatorySupport_2019\Monitors\gl1663724_29000_01_Fig01\resolute_bay\BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:50:43 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: I:\2018\1663724\Mapping\NCD\29000_RegulatorySupport_2019\Monitors\gl1663724_BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:51:39 PM



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC ODYSSEY
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT
0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATIONS OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

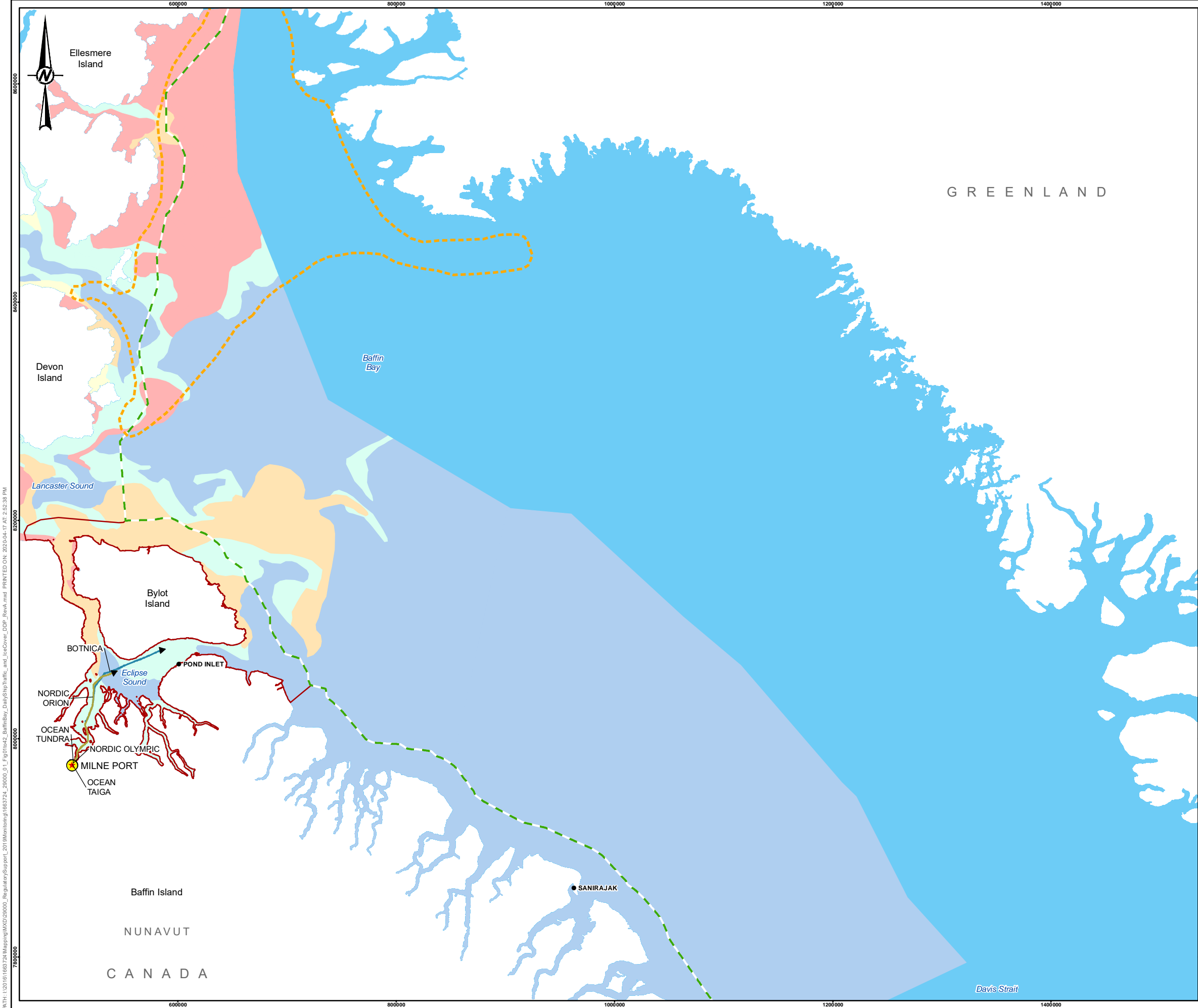
TITLE

2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 26, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	37

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 25mm



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

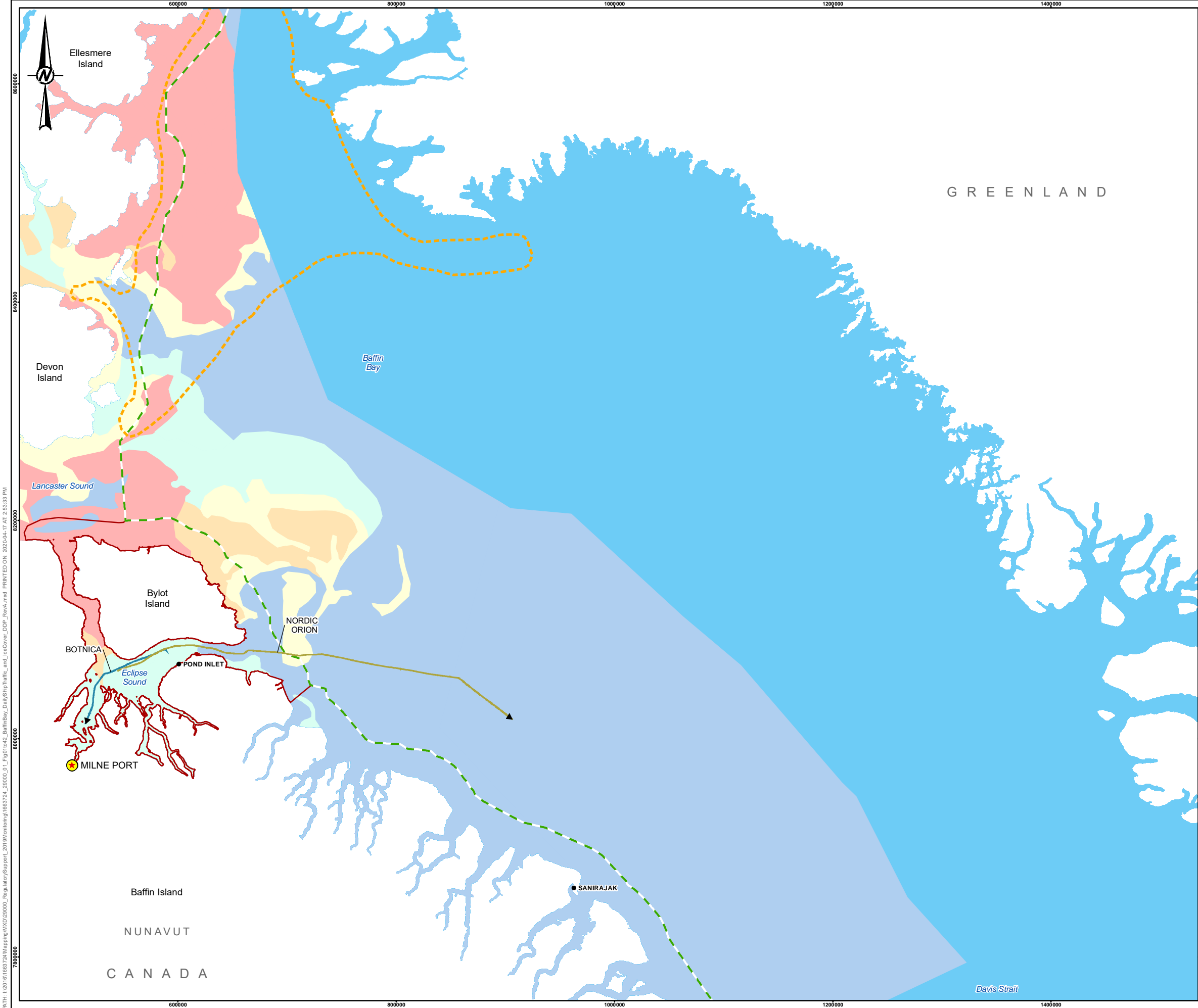
PROJECT
MARY RIVER PROJECT

TITLE
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 27, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	38



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

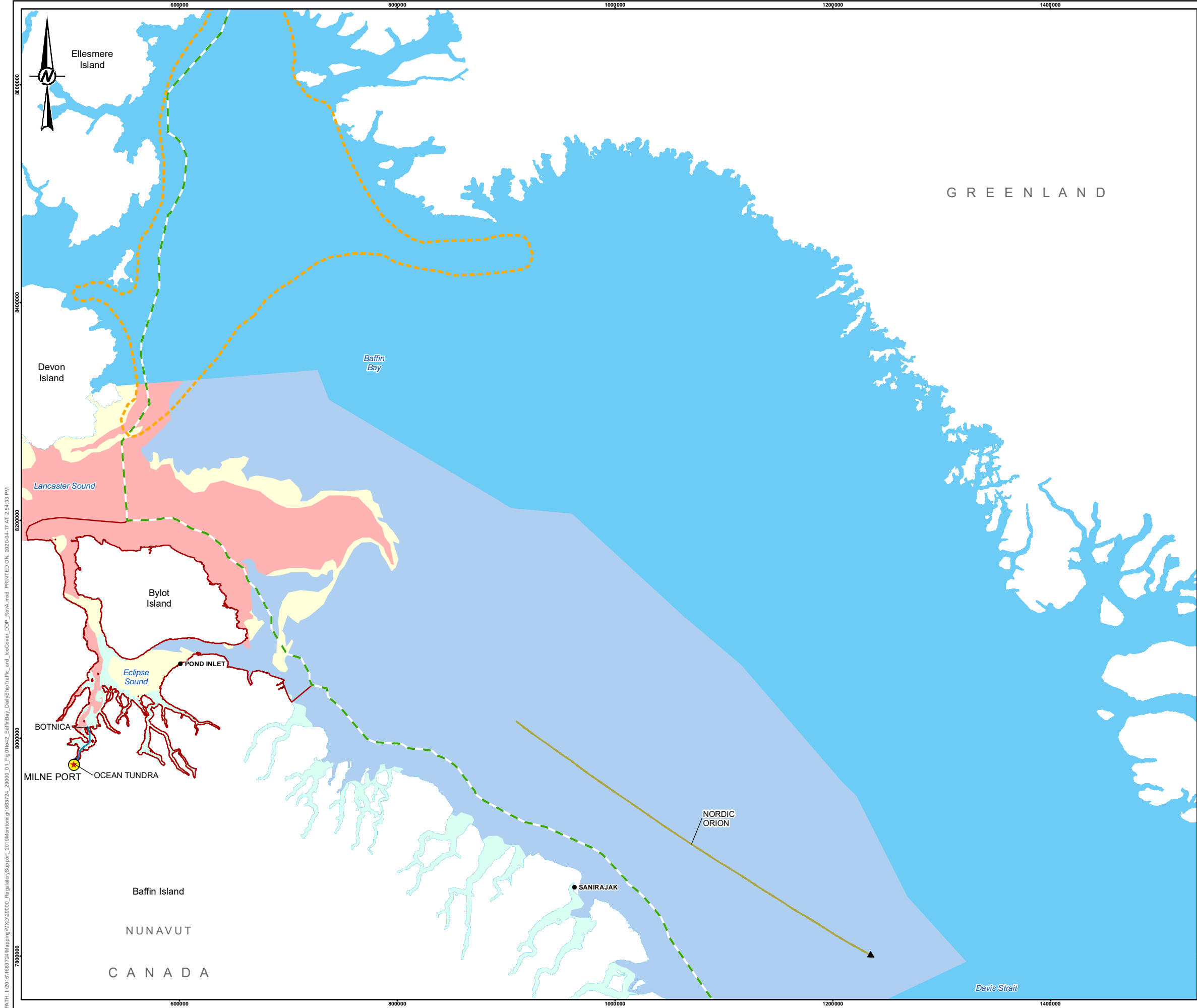
PROJECT
MARY RIVER PROJECT

TITLE
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 28, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO. 1663724	CONTROL 29000-01	REV. A	FIGURE 39
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LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)
ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT
BAFFINLAND IRON MINES CORPORATION

PROJECT
MARY RIVER PROJECT

TITLE
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 29, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

PROJECT NO. 1663724

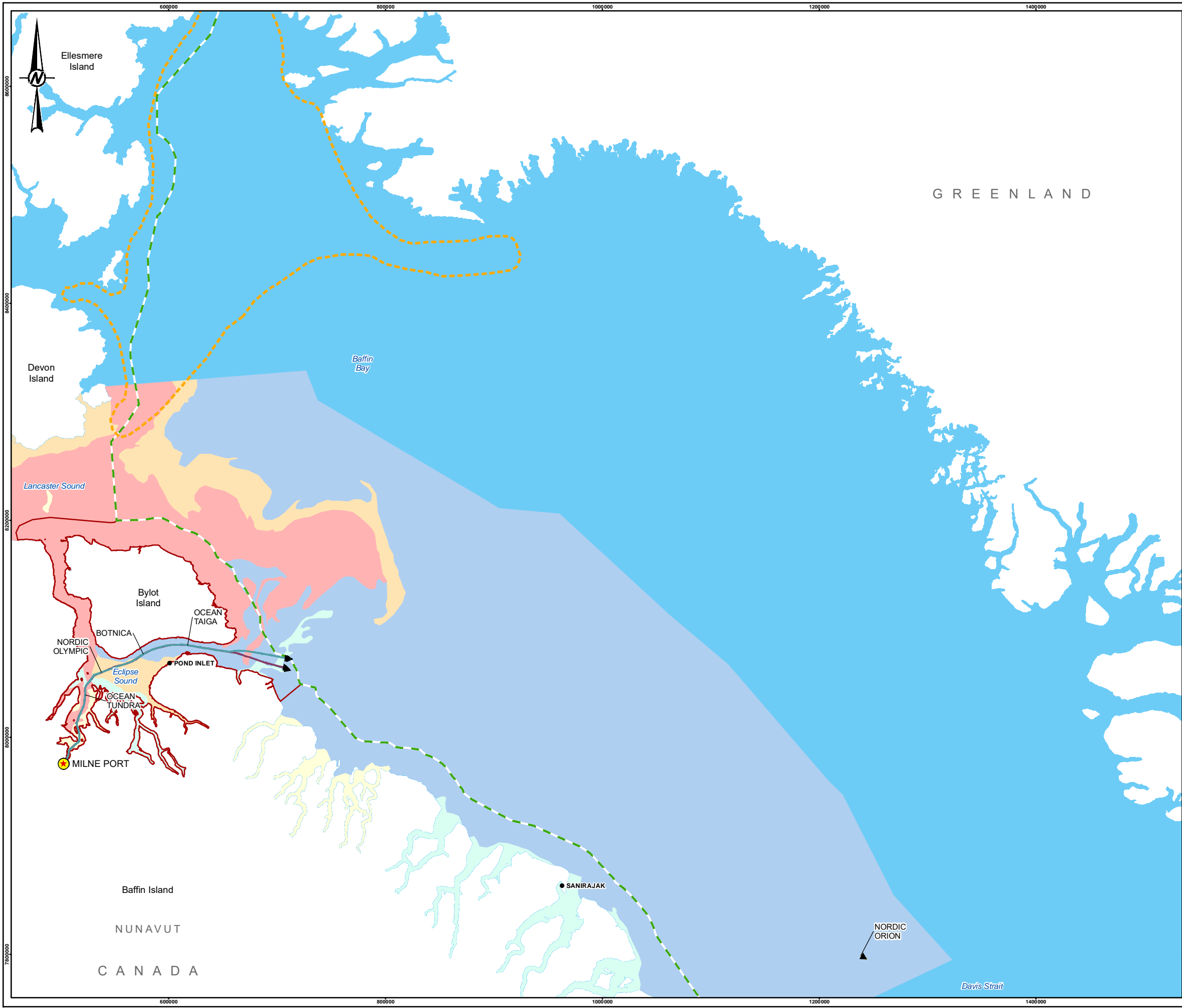
CONTROL 29000-01

REV. A

FIGURE 40

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 28mm

PATH: I:\2018\1663724\Mapping\NAD2000_RegulatorySupport_2019\Monitors\gl1663724_29000_01_Fig01\cs2_BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:52:39 PM



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNYA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OLYMPIC
- NORDIC ORION
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNYA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

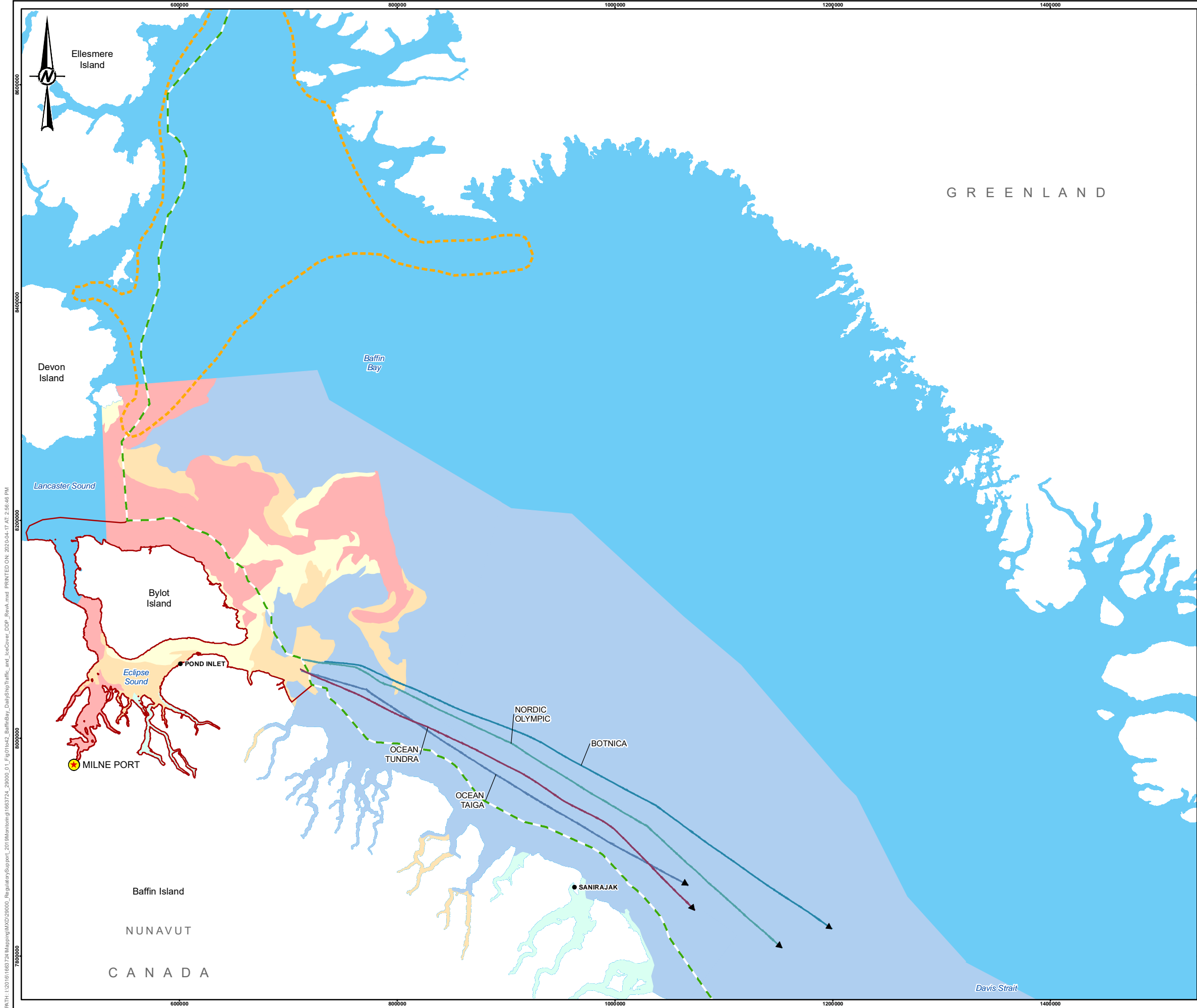
2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 30, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	41

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 25mm



LEGEND

- COMMUNITY
- ★ MILNE PORT
- ▭ MARINE MAMMAL REGIONAL STUDY AREA
- - - NUNAVUT SETTLEMENT AREA BOUNDARY
- - - PIKIALASORSUAQ (NORTH WATER POLYNIA) BOUNDARY

ICE CONCENTRATION

- < 1/10
- 1-3/10
- 4-6/10
- 7-8/10
- 9-10/10
- WATERBODY (NO ICE CONCENTRATION DATA)

VESSEL NAME AND DIRECTION OF TRANSIT

- BOTNICA
- NORDIC OLYMPIC
- OCEAN TAIGA
- OCEAN TUNDRA

DRAFT

0 100 200
1:3,500,000 KILOMETRES

REFERENCE(S)

ICE CONCENTRATION OBTAINED FROM CANADIAN ICE SERVICE, GOVERNMENT OF CANADA. DAILY ICE CHARTS – APPROACHES TO RESOLUTE BAY. ACCESSED SEPTEMBER 19, 2019, JANUARY 17, 2020, AND FEBRUARY 4, 2020. PIKIALASORSUAQ POLYNIA BOUNDARY DIGITIZED FROM "PEOPLE OF THE ICE BRIDGE: THE FUTURE OF THE PIKIALASORSUAQ", REPORT OF THE PIKIALASORSUAQ COMMISSION, NOVEMBER 2017. GEOGRAPHIC NAMES, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
PROJECTION: UTM ZONE 17 DATUM: NAD 83

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

2019 LATE SHIPPING SEASON VESSEL TRAFFIC AND ICE COVERAGE - OCTOBER 31, 2019 (UTC)

CONSULTANT	YYYY-MM-DD	2020-04-17
DESIGNED	MF	
PREPARED	AA	
REVIEWED		
APPROVED		

GOLDER

PROJECT NO.	CONTROL	REV.	FIGURE
1663724	29000-01	A	42

PATH: I:\2018\1663724\Mapping\NCD\29000_RegulatorySupport_2019\Monitors\gl1663724_29000_01_Fig01Ice2_BaffinBay_DailyShipTraffic_and_IceCover_DDP_RevA.mxd PRINTED ON: 2020-04-17 AT: 2:56:46 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B