

**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 65 (2020)
- ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- NON-ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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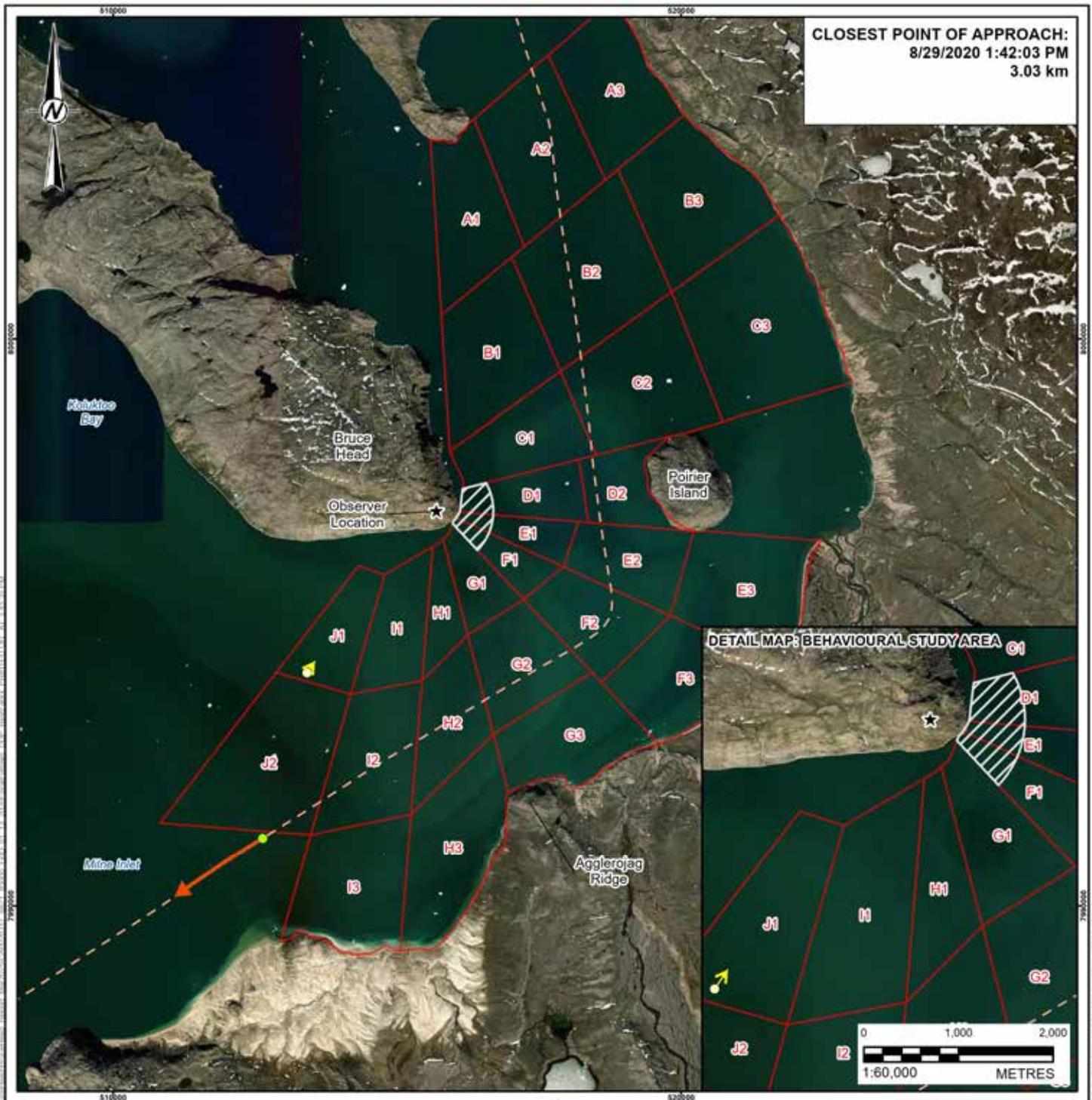
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 65 (2020) AND ACTIVE VESSEL TRANSIT**

CONSULTANT		YYYY-MM-DD	2025-04-24
		DESIGNED	SU
		PREPARED	AA
		REVIEWED	PA
		APPROVED	PA

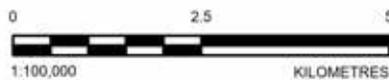
PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-7

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**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 66 (2020)
- ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- NON-ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 66 (2020) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

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REVIEWED PA

APPROVED PA

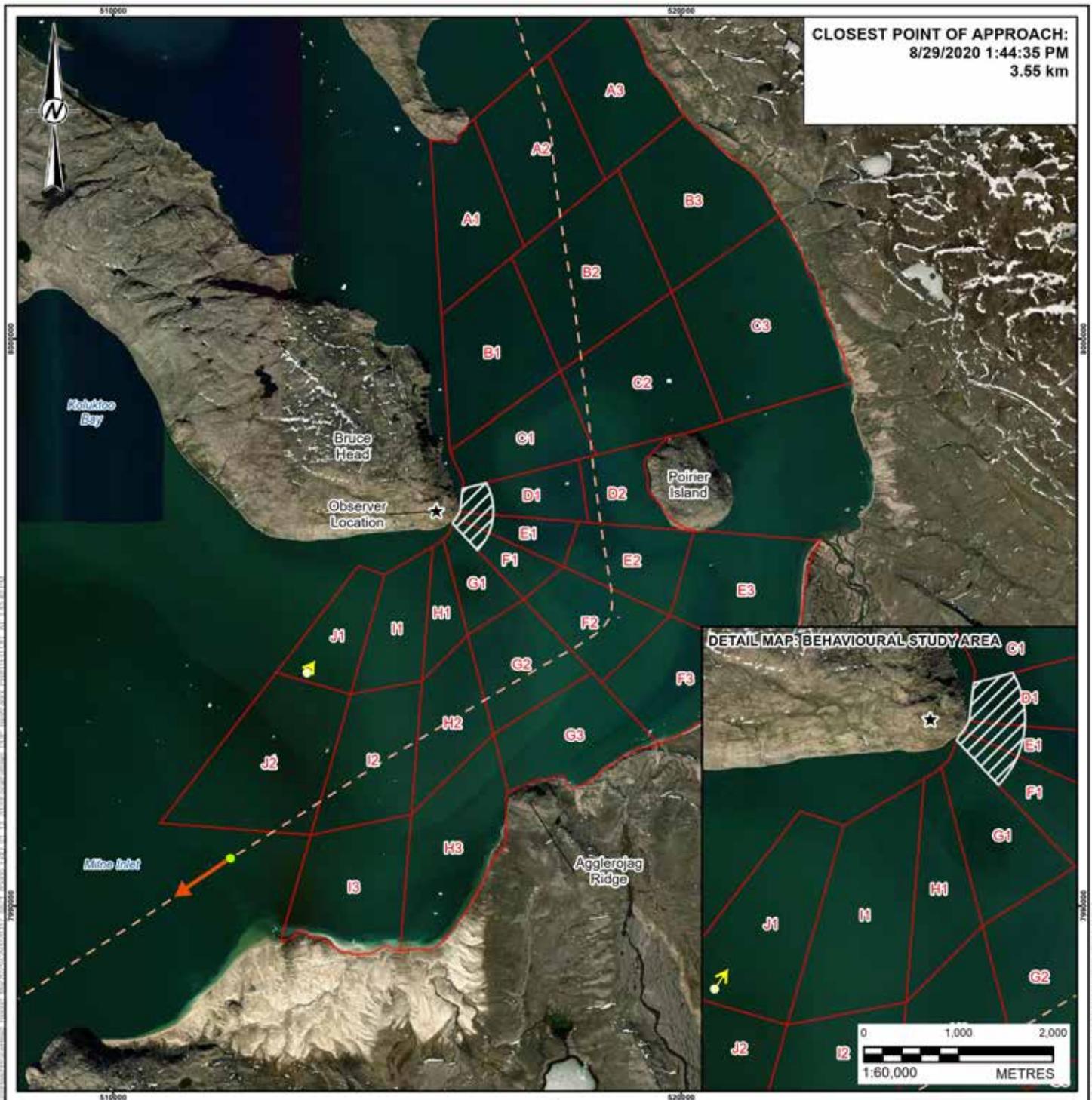
PROJECT NO.  
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CONTROL  
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REV.  
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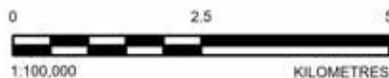
FIGURE  
D-8

If this measurement does not match what is shown, the sheet size has been modified from A7R4.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- NON-ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA
- BEHAVIOURAL STUDY AREA (BSA)



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 67 (2020) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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REVIEWED PA

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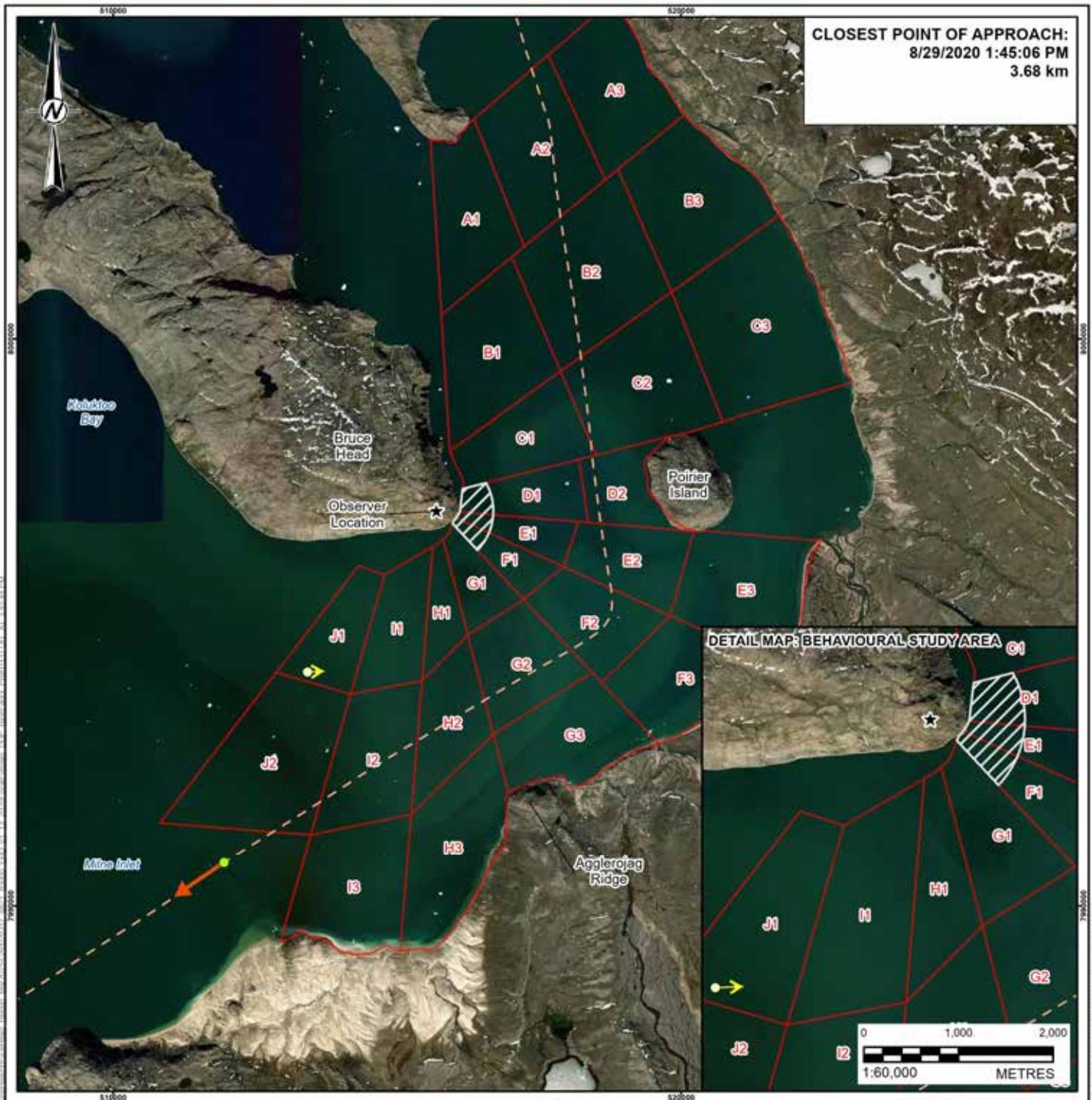
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
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FIGURE  
D-9

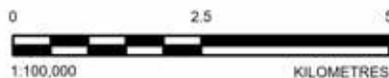
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CLOSEST POINT OF APPROACH:  
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**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- NON-ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 68 (2020) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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APPROVED PA

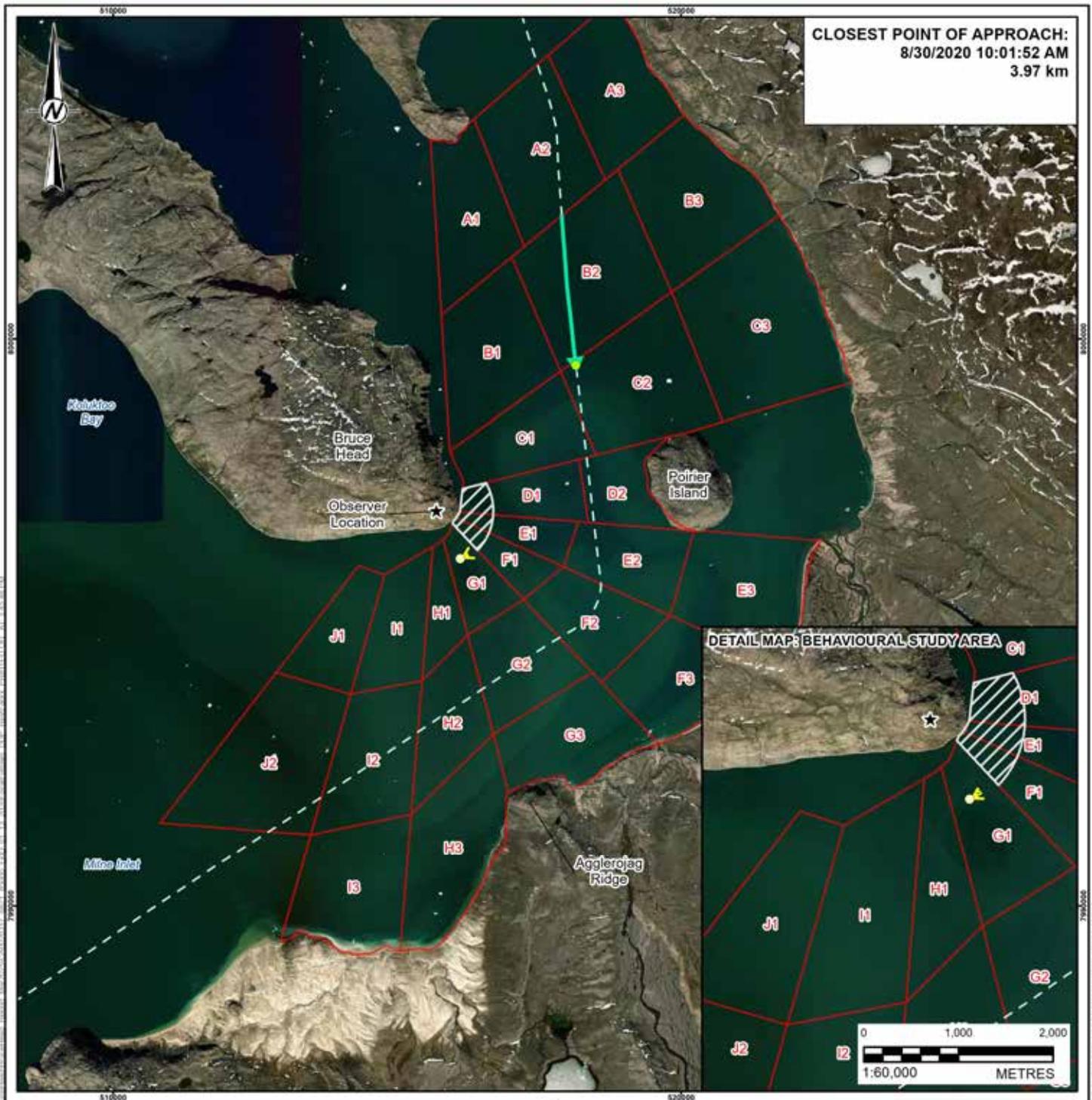
PROJECT NO.  
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CONTROL  
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REV.  
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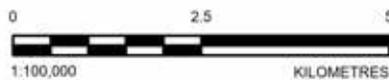
FIGURE  
D-10

If this measurement does not match what is shown, the sheet size has been modified from A7R4.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK B3 (2020)
- ACTIVE VESSEL TRANSIT (BULK DESTINY)
- NON-ACTIVE VESSEL TRANSIT (BULK DESTINY)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 83 (2020) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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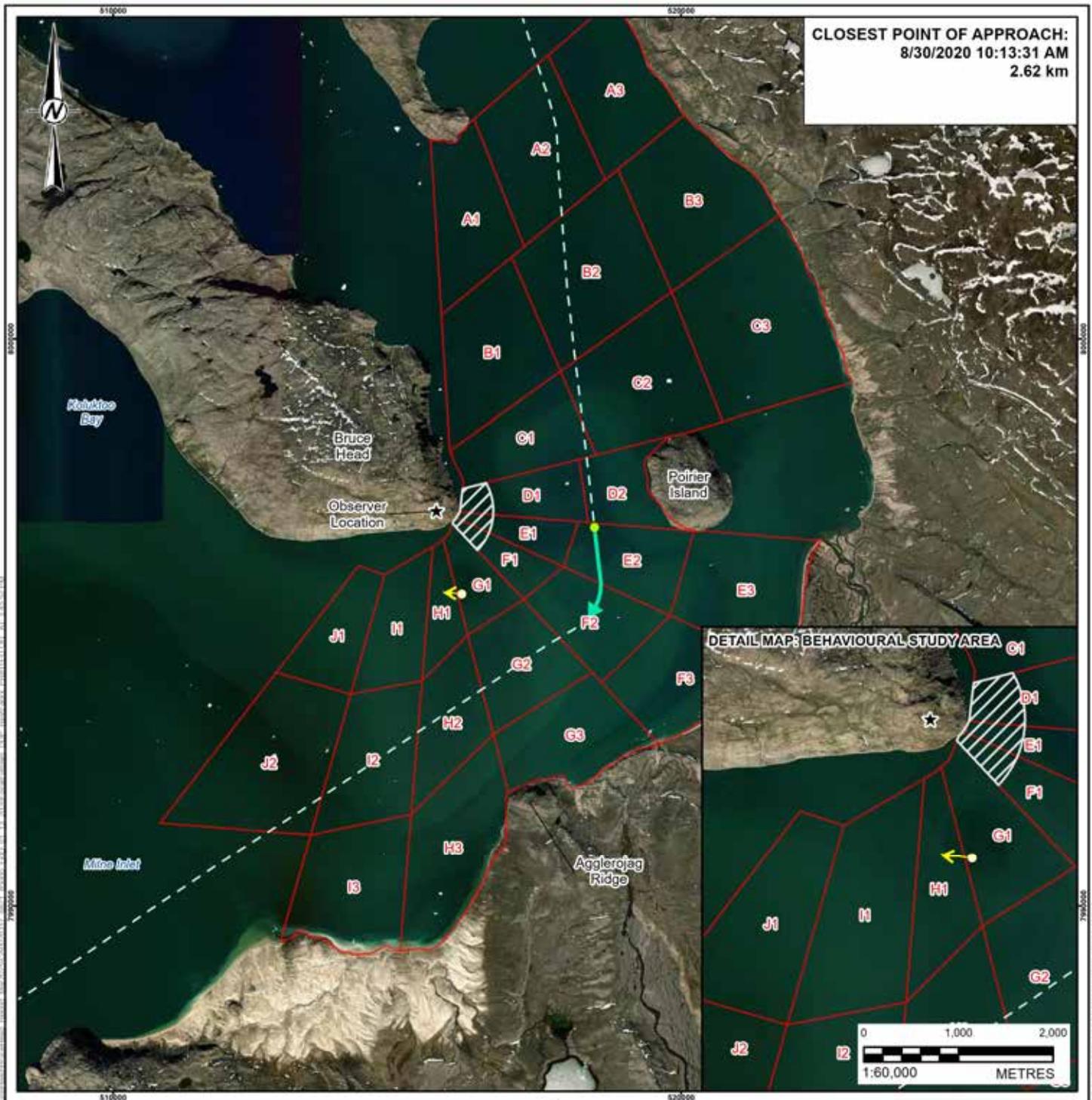
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CONTROL  
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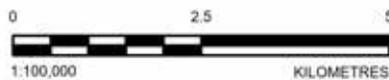
FIGURE  
D-11

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 84 (2020)
- ACTIVE VESSEL TRANSIT (BULK DESTINY)
- NON-ACTIVE VESSEL TRANSIT (BULK DESTINY)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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TITLE  
**FOCAL FOLLOW 84 (2020) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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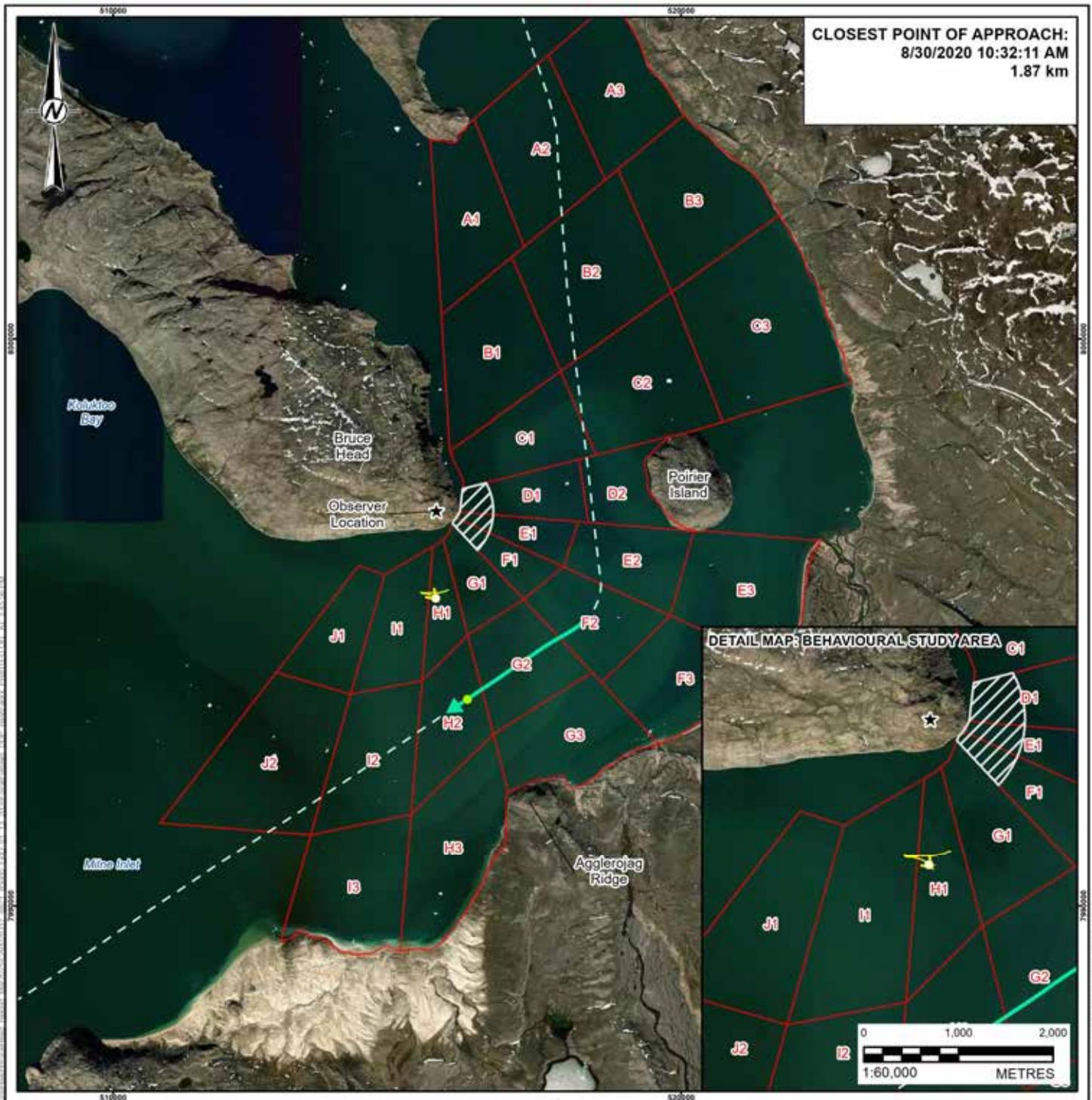
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CONTROL  
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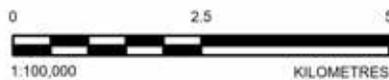
FIGURE  
D-12

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK B5 (2020)
- ACTIVE VESSEL TRANSIT (BULK DESTINY)
- NON-ACTIVE VESSEL TRANSIT (BULK DESTINY)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 85 (2020) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

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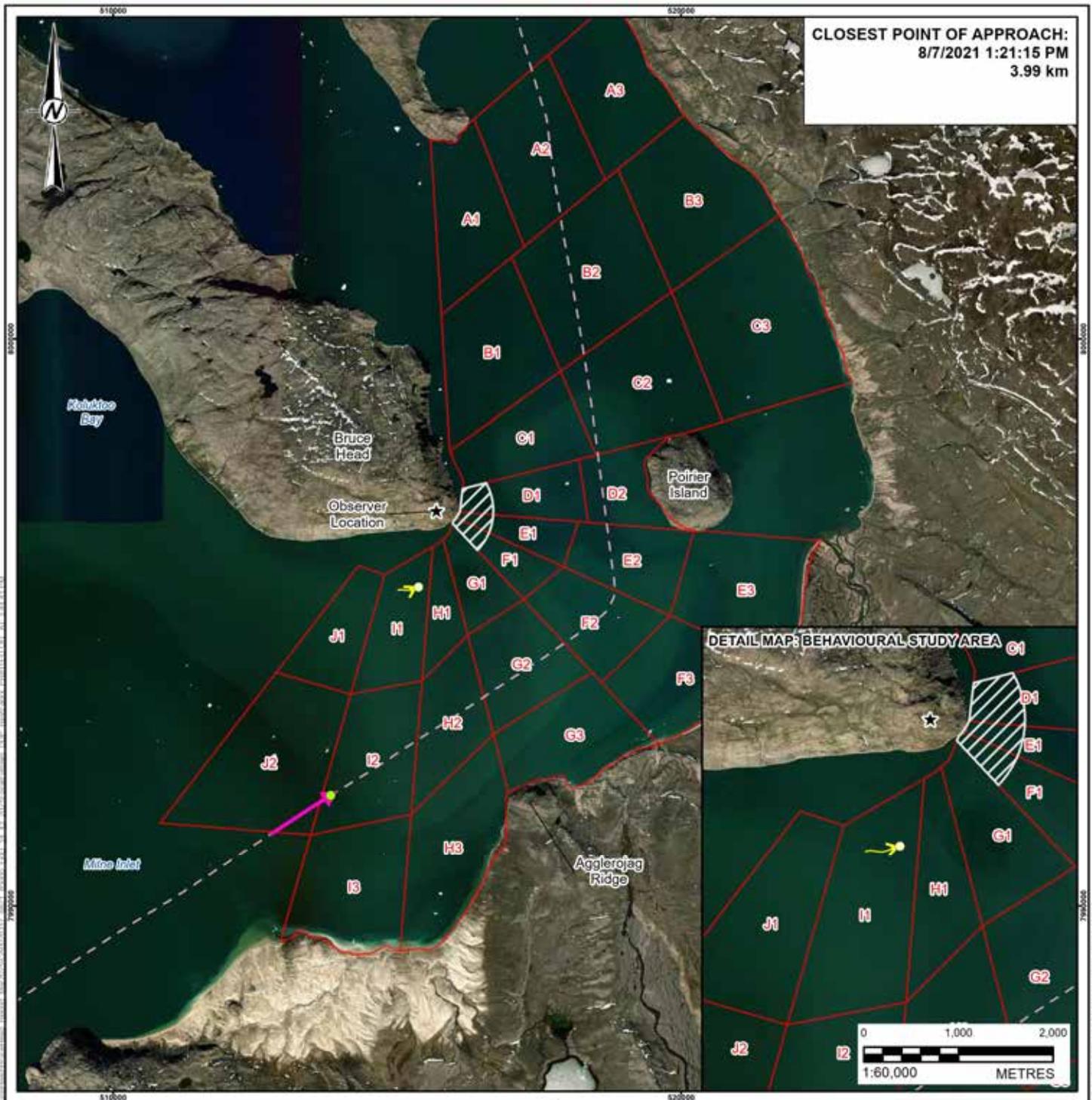
PROJECT NO.  
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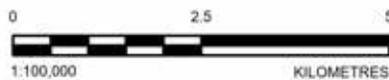
FIGURE  
D-13

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 33 (2021)
- ACTIVE VESSEL TRANSIT (BOTNICA)
- - - NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 33 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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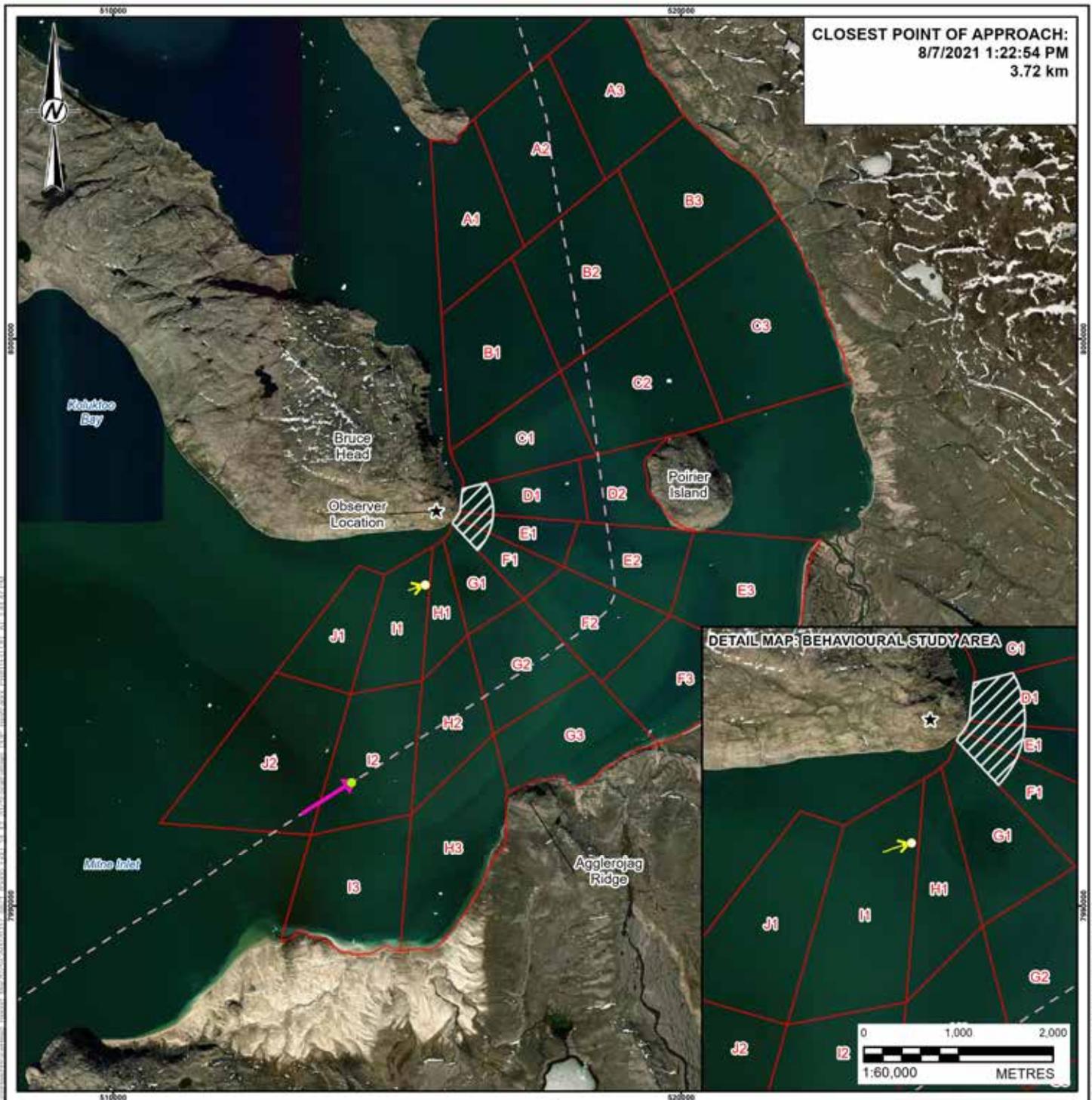
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

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FIGURE  
D-14

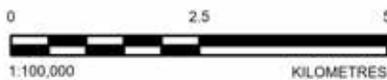
Zsm If THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



CLOSEST POINT OF APPROACH:  
8/7/2021 1:22:54 PM  
3.72 km

**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 34 (2021)
- ACTIVE VESSEL TRANSIT (BOTNICA)
- - - NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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TITLE  
**FOCAL FOLLOW 34 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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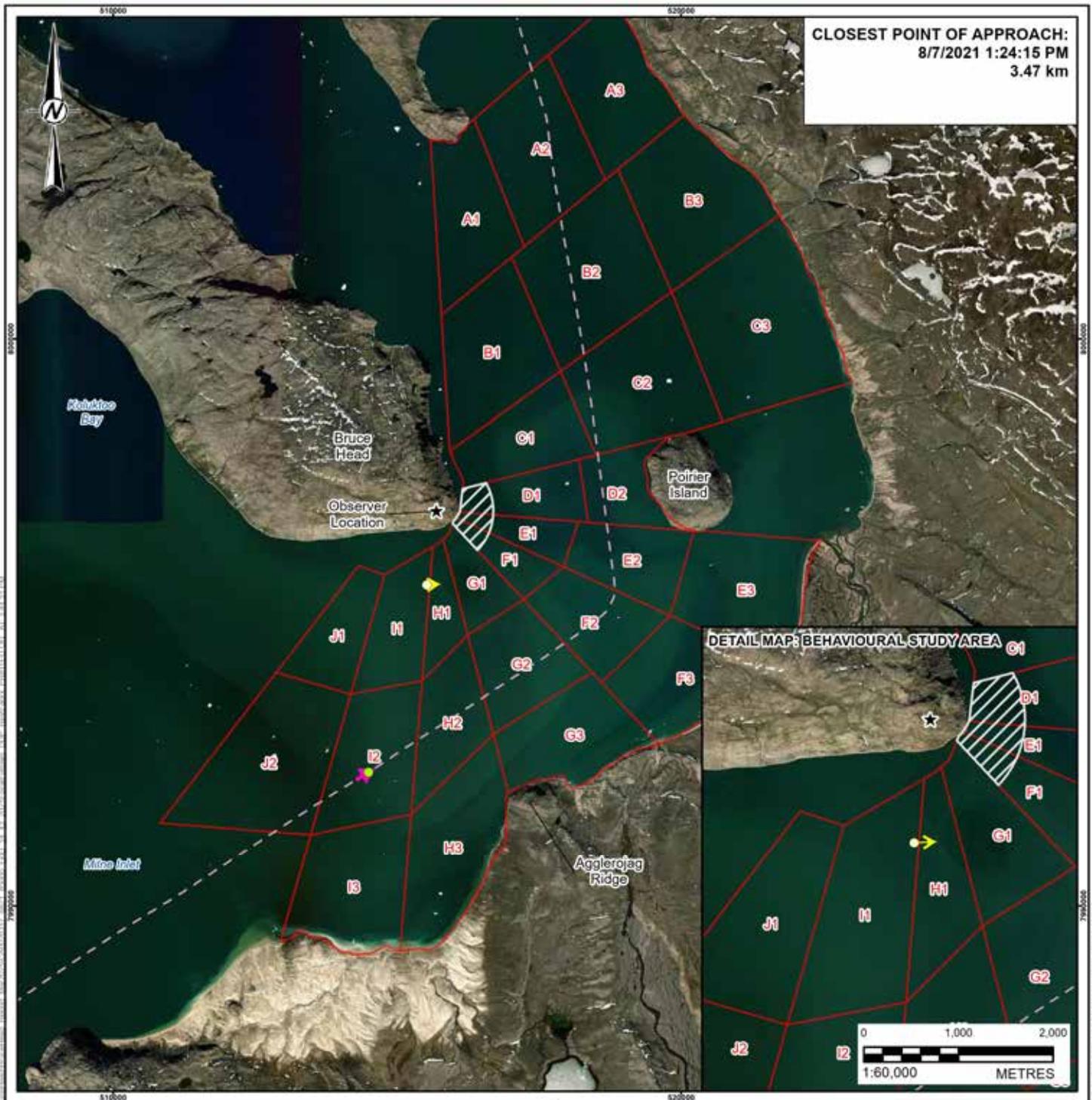
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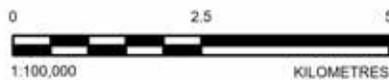
FIGURE  
D-15

If this measurement does not match what is shown, the sheet scale has been modified from A7614.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- ▶ FOCAL FOLLOW TRACK 35 (2021)
- ▶ ACTIVE VESSEL TRANSIT (BOTNICA)
- NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 35 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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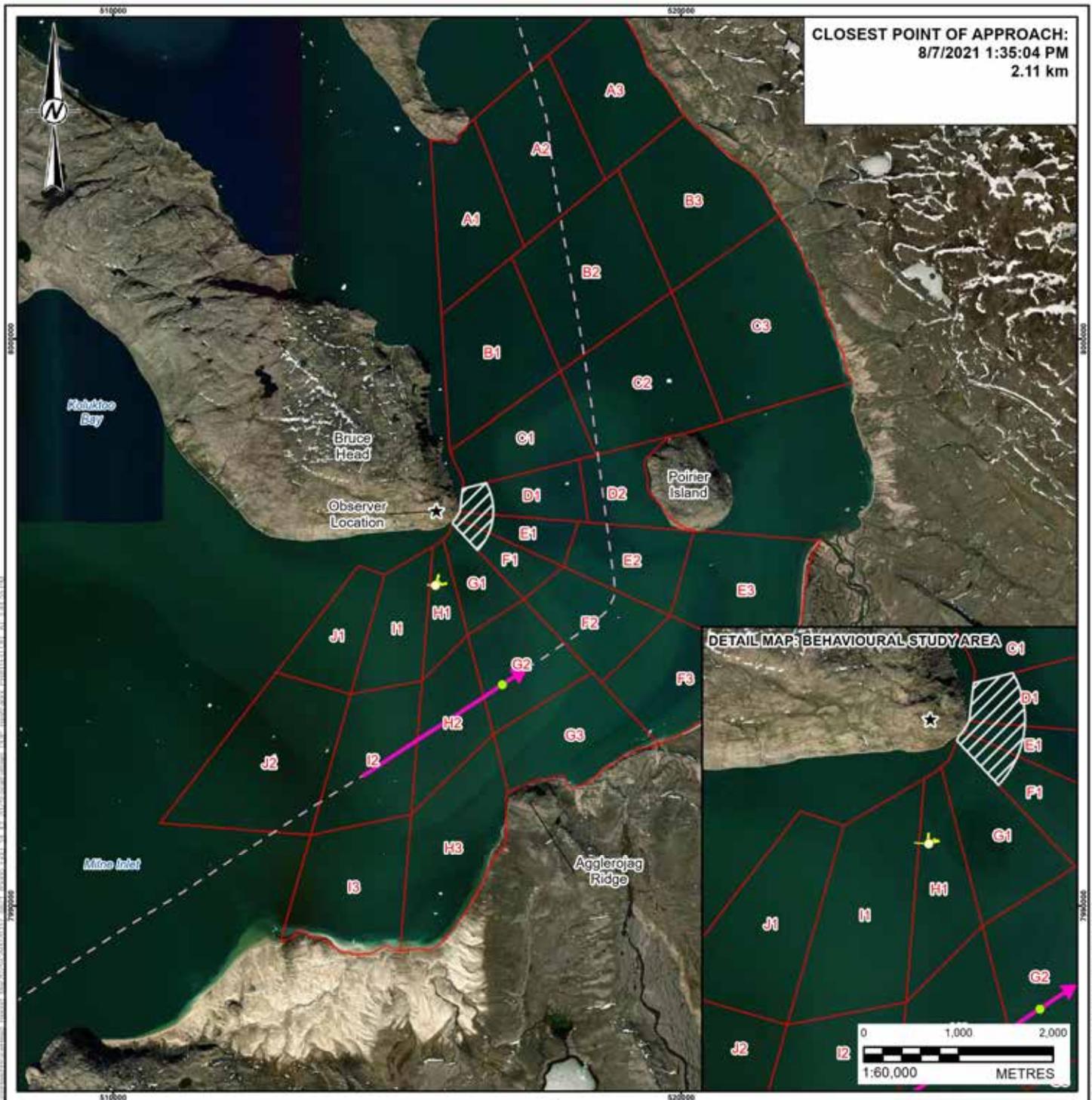
PROJECT NO.  
CA0026317.6821

CONTROL  
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REV.  
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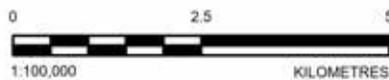
FIGURE  
D-16

If this measurement does not match what is shown, the sheet scale has been modified from A7614.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 36 (2021)
- ACTIVE VESSEL TRANSIT (BOTNICA)
- - - NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 36 (2021) AND ACTIVE VESSEL TRANSIT**

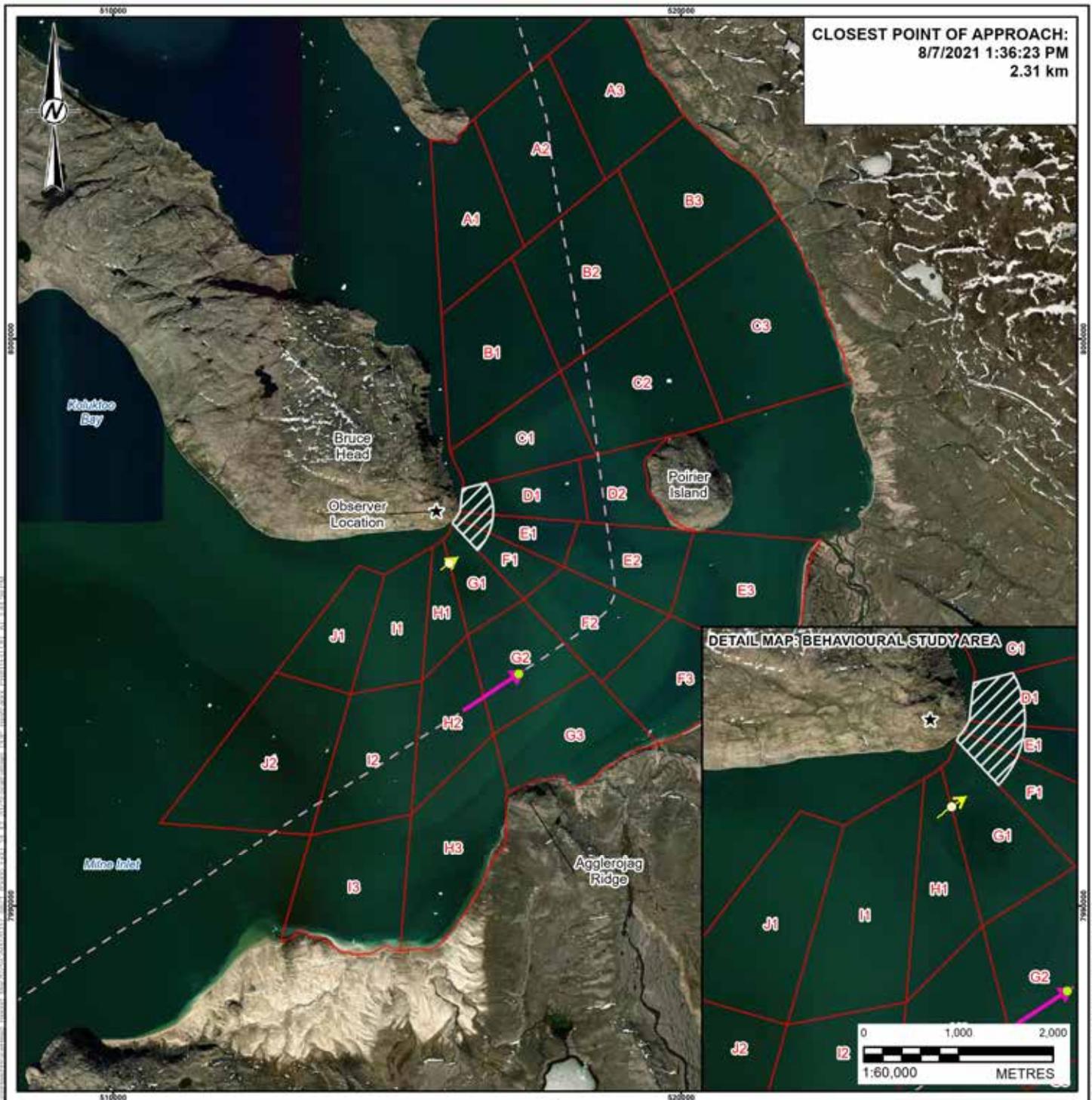
CONSULTANT



YYYY-MM-DD	2025-04-24
DESIGNED	SU
PREPARED	AA
REVIEWED	PA
APPROVED	PA

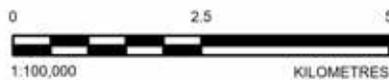
PROJECT NO. CA0026317.6821      CONTROL 85000      REV. 0      FIGURE D-17

If this measurement does not match what is shown, the sheet size has been modified from A7R4.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 37 (2021)
- ACTIVE VESSEL TRANSIT (BOTNICA)
- NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 37 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

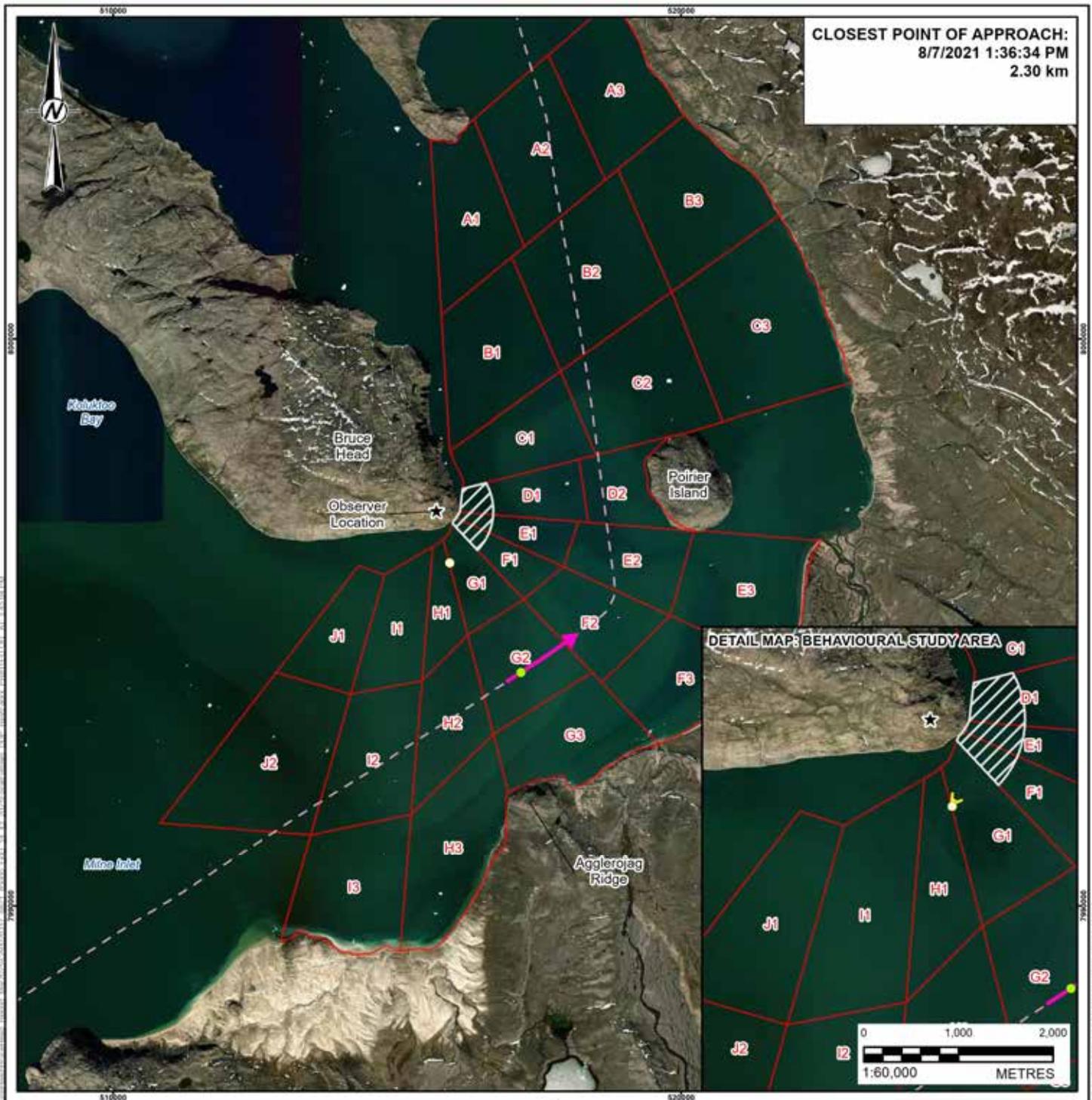
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
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FIGURE  
D-18

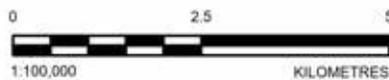
If this measurement does not match what is shown, the sheet size has been modified from A3 to A2.



**CLOSEST POINT OF APPROACH:**  
8/7/2021 1:36:34 PM  
2.30 km

**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 38 (2021)
- ACTIVE VESSEL TRANSIT (BOTNICA)
- NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 38 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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PREPARED AA

REVIEWED PA

APPROVED PA

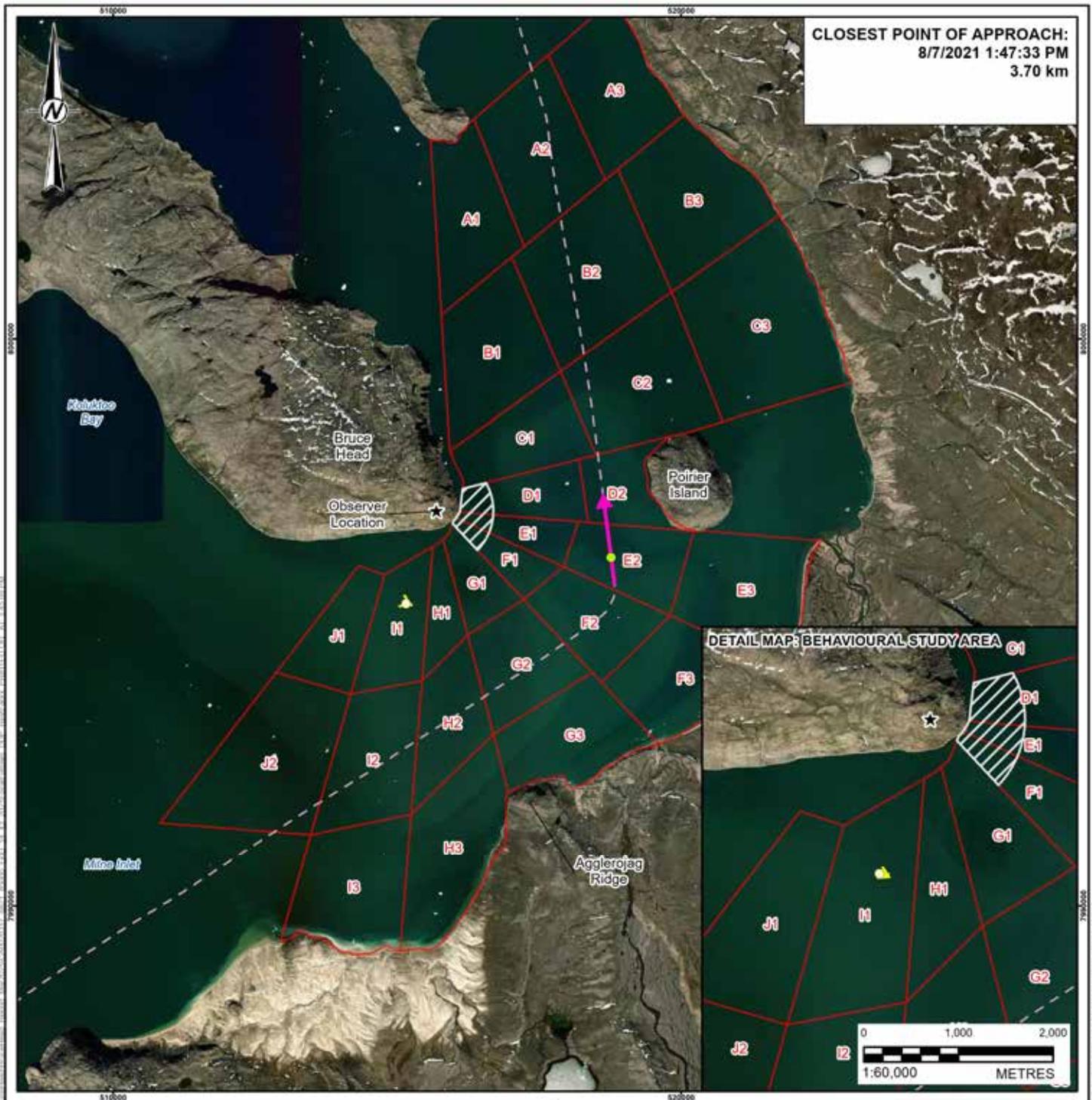
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

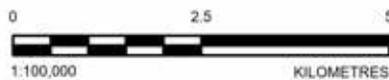
FIGURE  
D-19

If this measurement does not match what is shown, the sheet size has been modified from A3 to A4.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- ▲ FOCAL FOLLOW TRACK 39 (2021)
- ➔ ACTIVE VESSEL TRANSIT (BOTNICA)
- NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 39 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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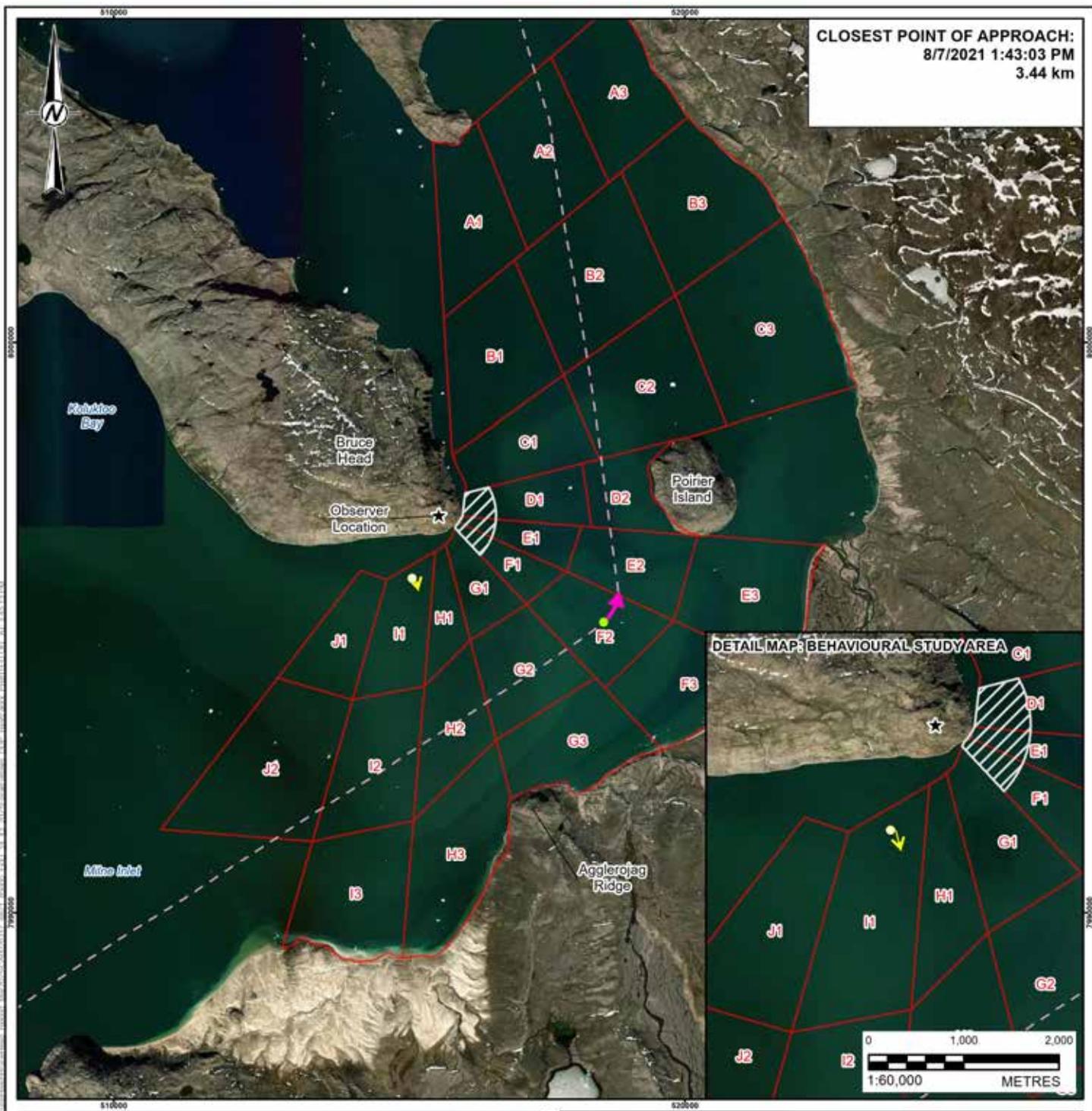
PROJECT NO.  
CA0026317.6821

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85000

REV.  
0

FIGURE  
D-21

If this measurement does not match what is shown, the sheet size has been modified from A3 to A4.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- ▶ FOCAL FOLLOW TRACK 40 (2021)
- ▶ ACTIVE VESSEL TRANSIT (BOTNICA)
- NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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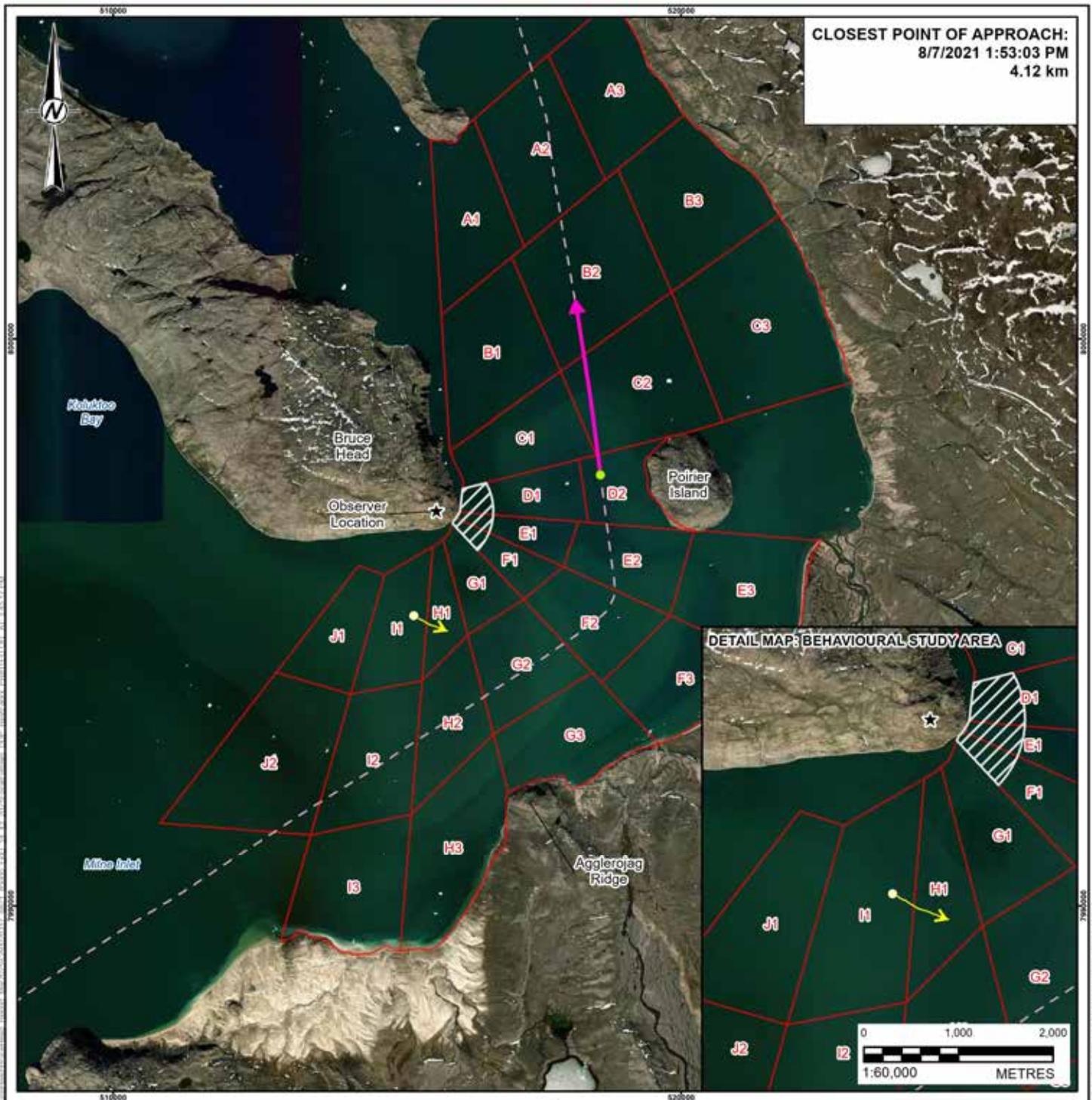
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 40 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT	YYYY-MM-DD	2025-04-24
	DESIGNED	SU
	PREPARED	AA
	REVIEWED	PA
	APPROVED	PA

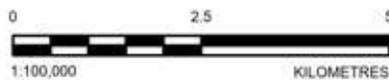
PROJECT NO. CA0026317.6821	CONTROL 85000	REV. 0	FIGURE D-20
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If this measurement does not match what is shown, the sheet size has been modified from A3 to A2.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 41 (2021)
- ACTIVE VESSEL TRANSIT (BOTNICA)
- - - NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 41 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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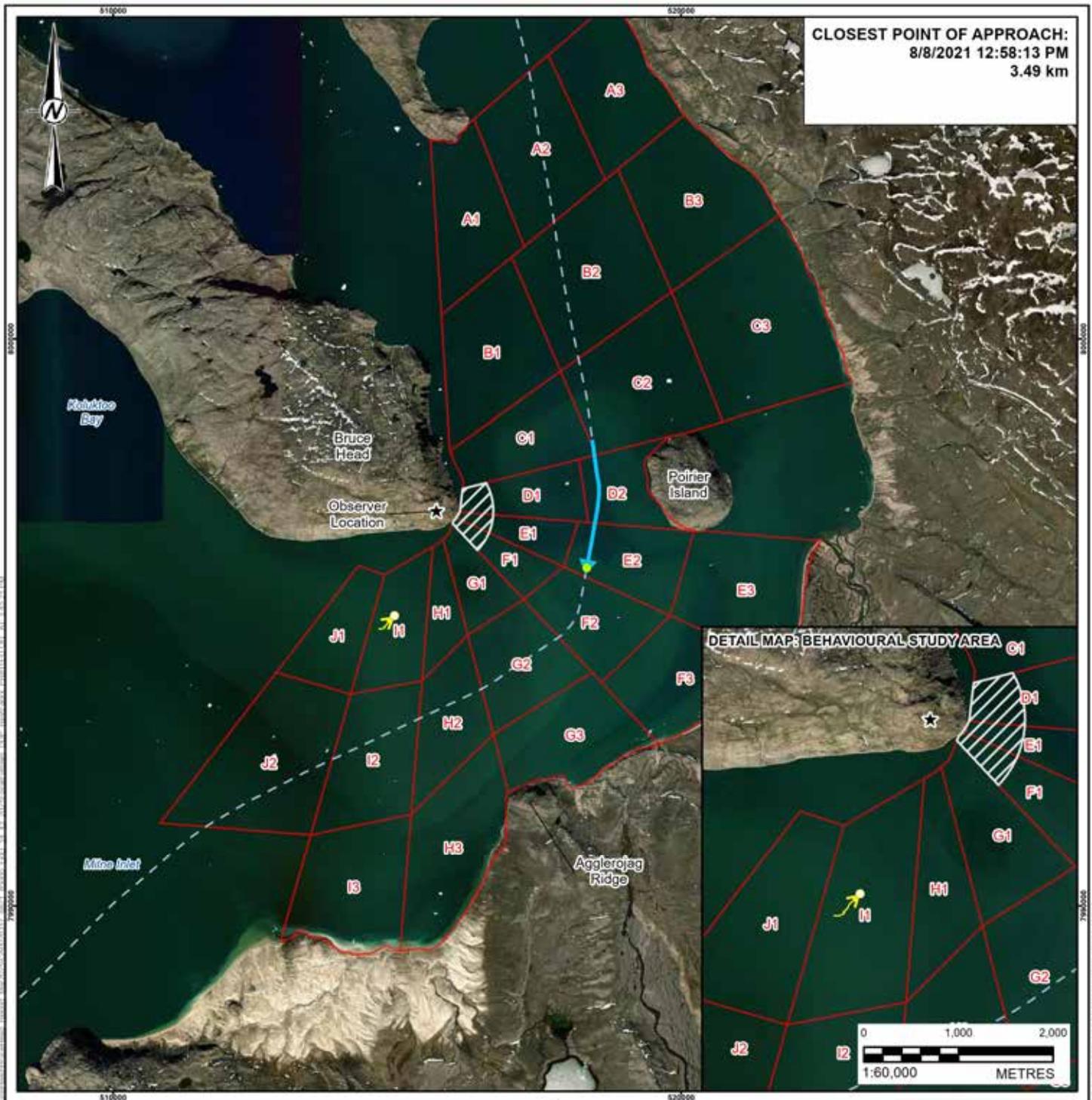
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

FIGURE  
D-22

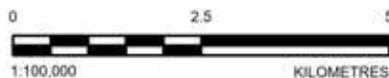
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE



CLOSEST POINT OF APPROACH:  
8/8/2021 12:58:13 PM  
3.49 km

**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 47 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN RUBY)
- - - NON-ACTIVE VESSEL TRANSIT (GOLDEN RUBY)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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TITLE  
**FOCAL FOLLOW 47 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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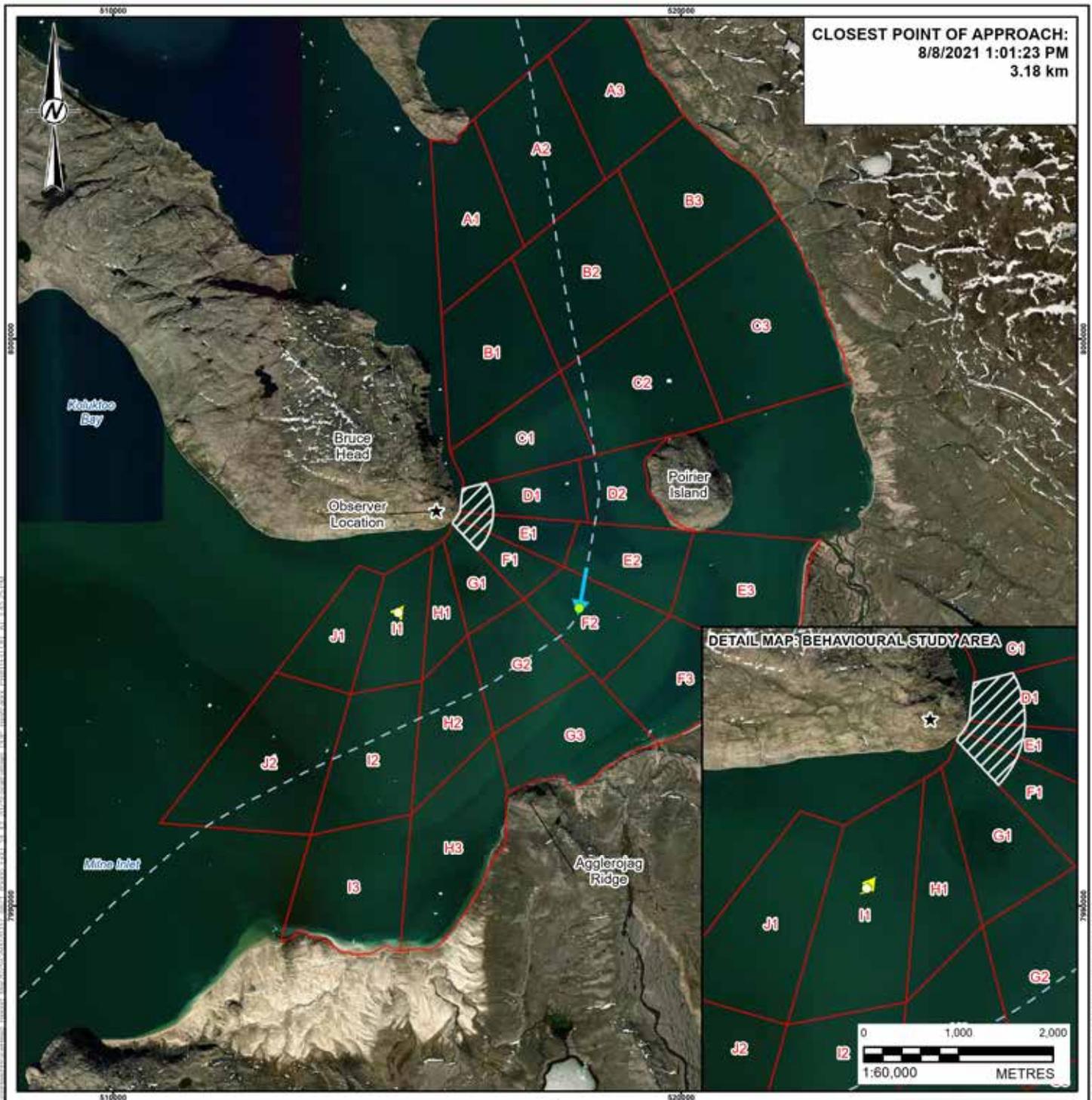
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
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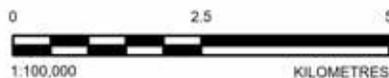
FIGURE  
D-23

If this measurement does not match what is shown, the sheet size has been modified from A3 to A4.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 48 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN RUBY)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN RUBY)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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TITLE  
**FOCAL FOLLOW 48 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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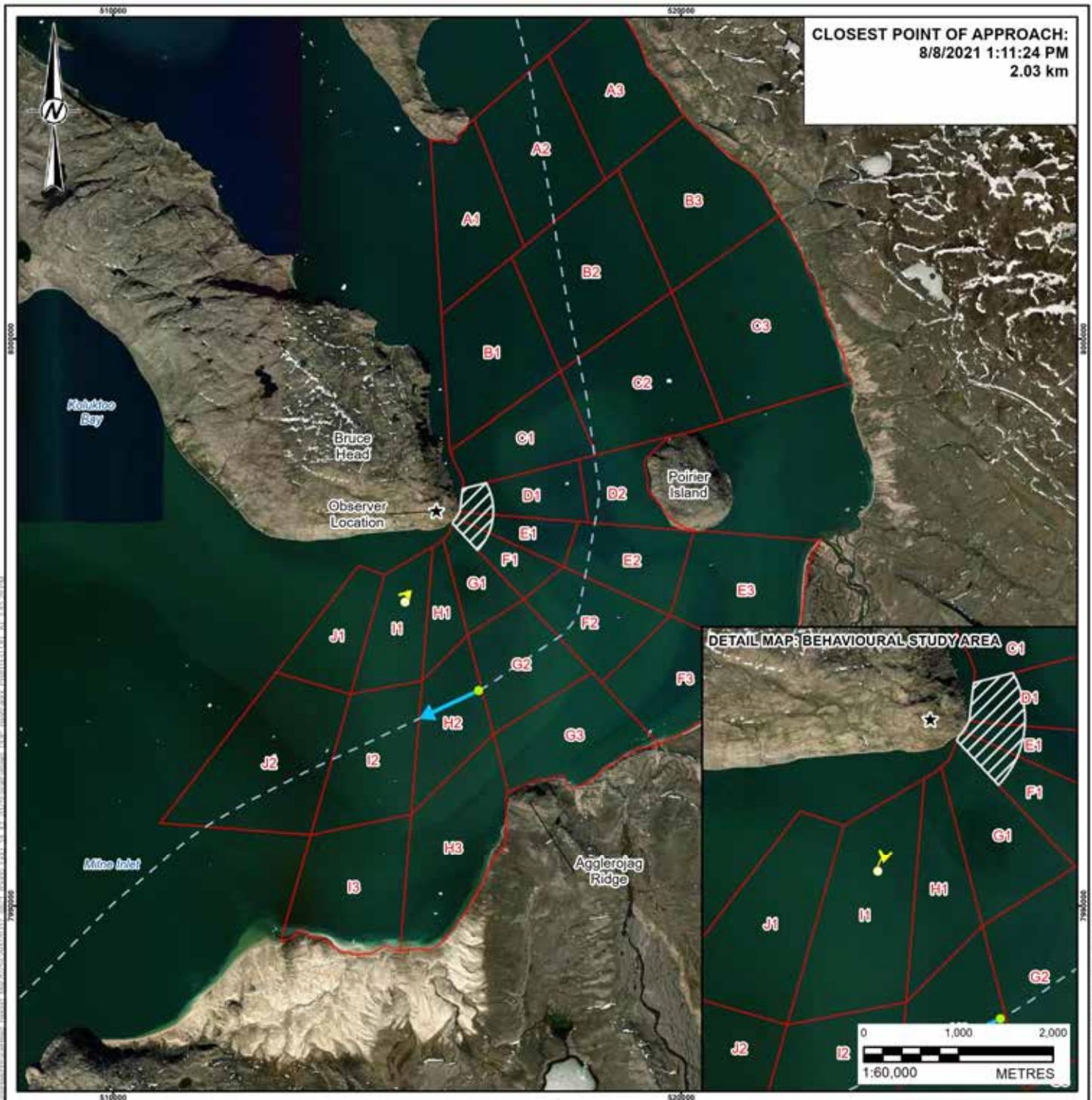
PROJECT NO.  
CA0026317.6821

CONTROL  
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REV.  
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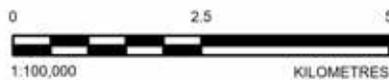
FIGURE  
D-24

If this measurement does not match what is shown, the sheet size has been modified from A3 to A4.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 49 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN RUBY)
- - - NON-ACTIVE VESSEL TRANSIT (GOLDEN RUBY)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 49 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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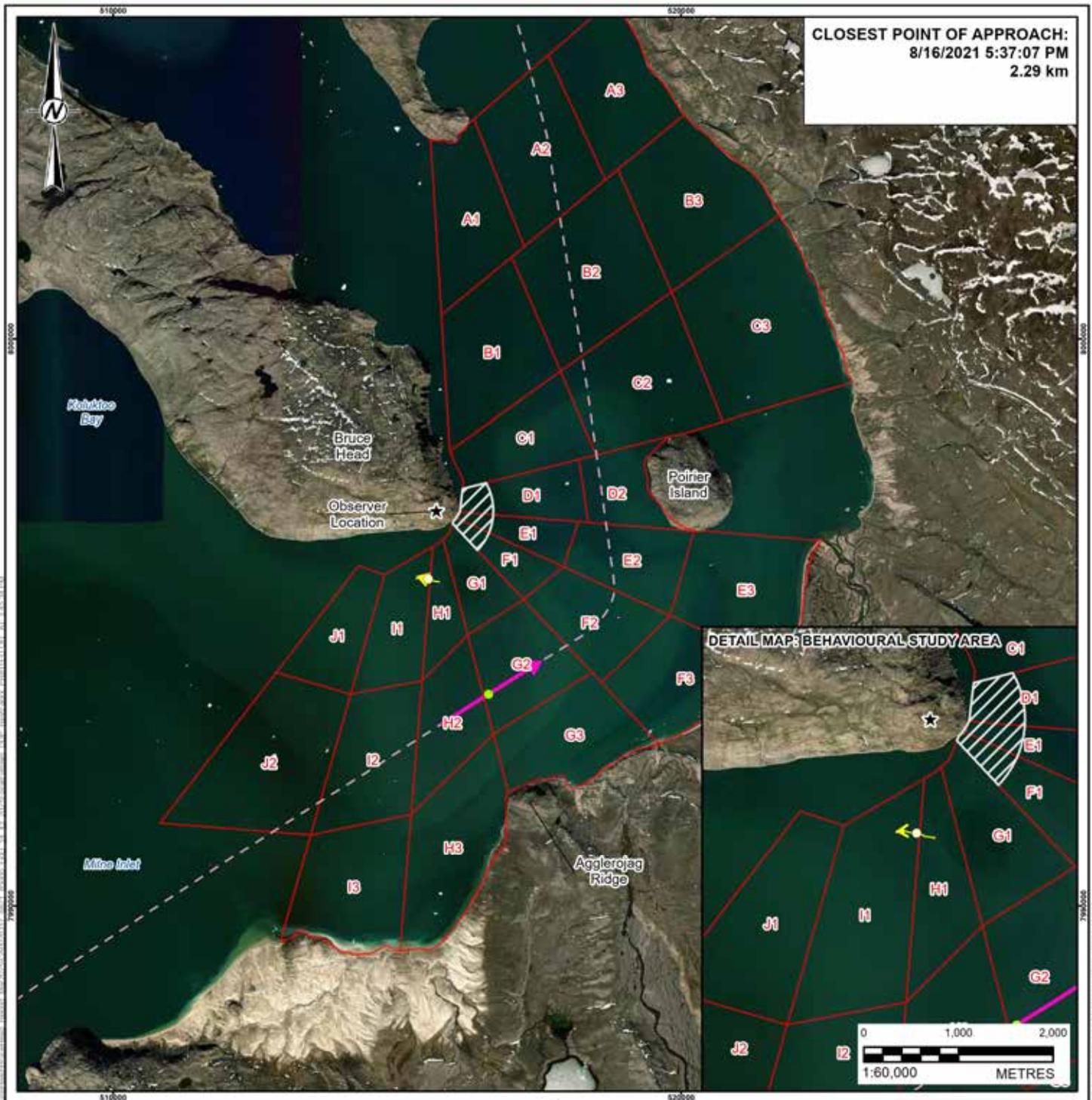
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
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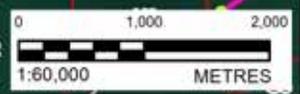
FIGURE  
D-25

If this measurement does not match what is shown, the sheet scale has been modified from A7174.



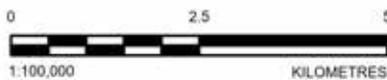
CLOSEST POINT OF APPROACH:  
8/16/2021 5:37:07 PM  
2.29 km

DETAIL MAP: BEHAVIOURAL STUDY AREA



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 85 (2021)
- ACTIVE VESSEL TRANSIT (BOTNICA)
- - - NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 85 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

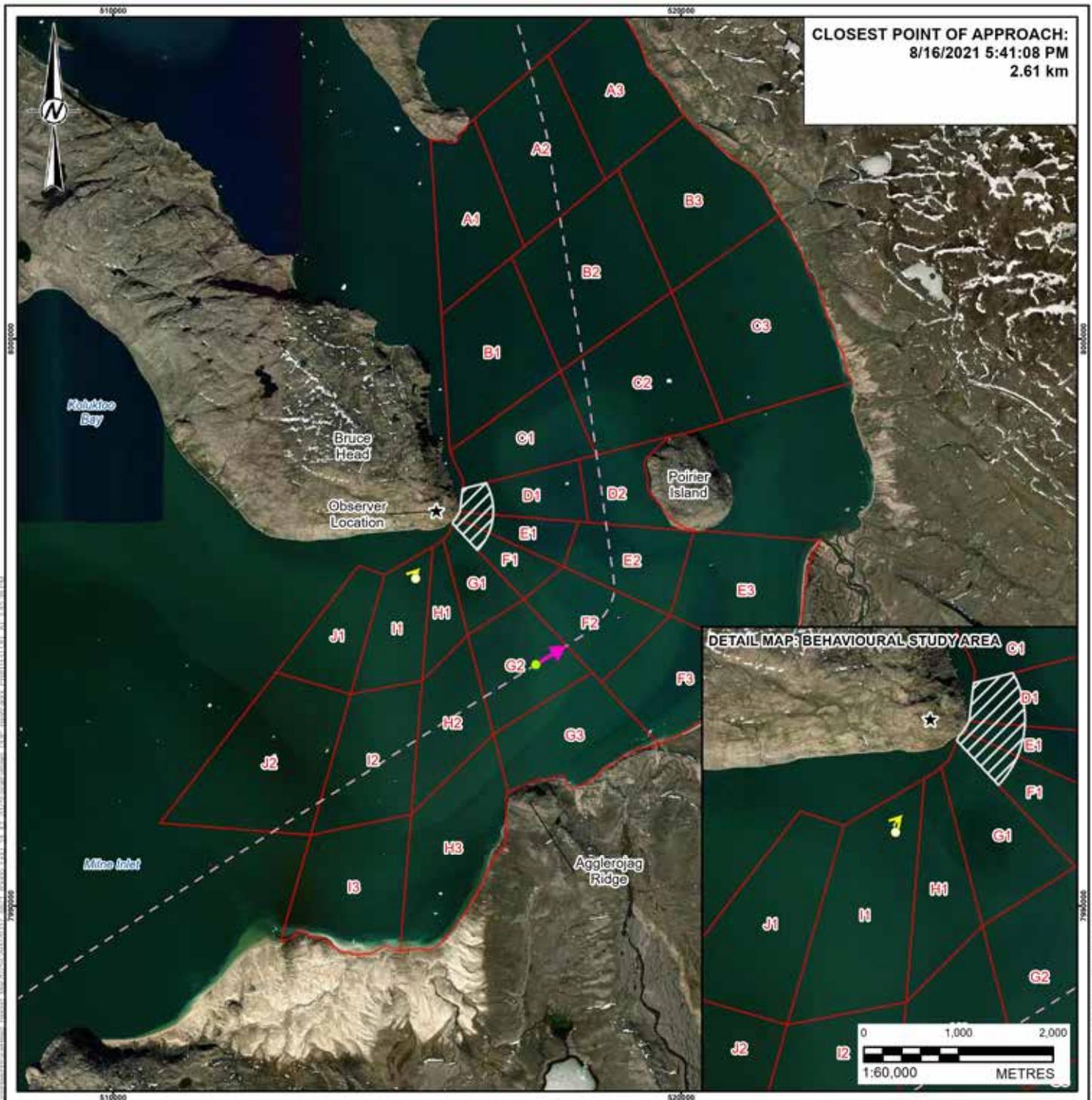
PROJECT NO.  
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CONTROL  
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REV.  
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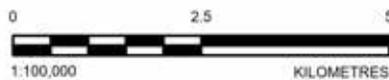
FIGURE  
D-26

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 86 (2021)
- ➔ ACTIVE VESSEL TRANSIT (BOTNICA)
- NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 86 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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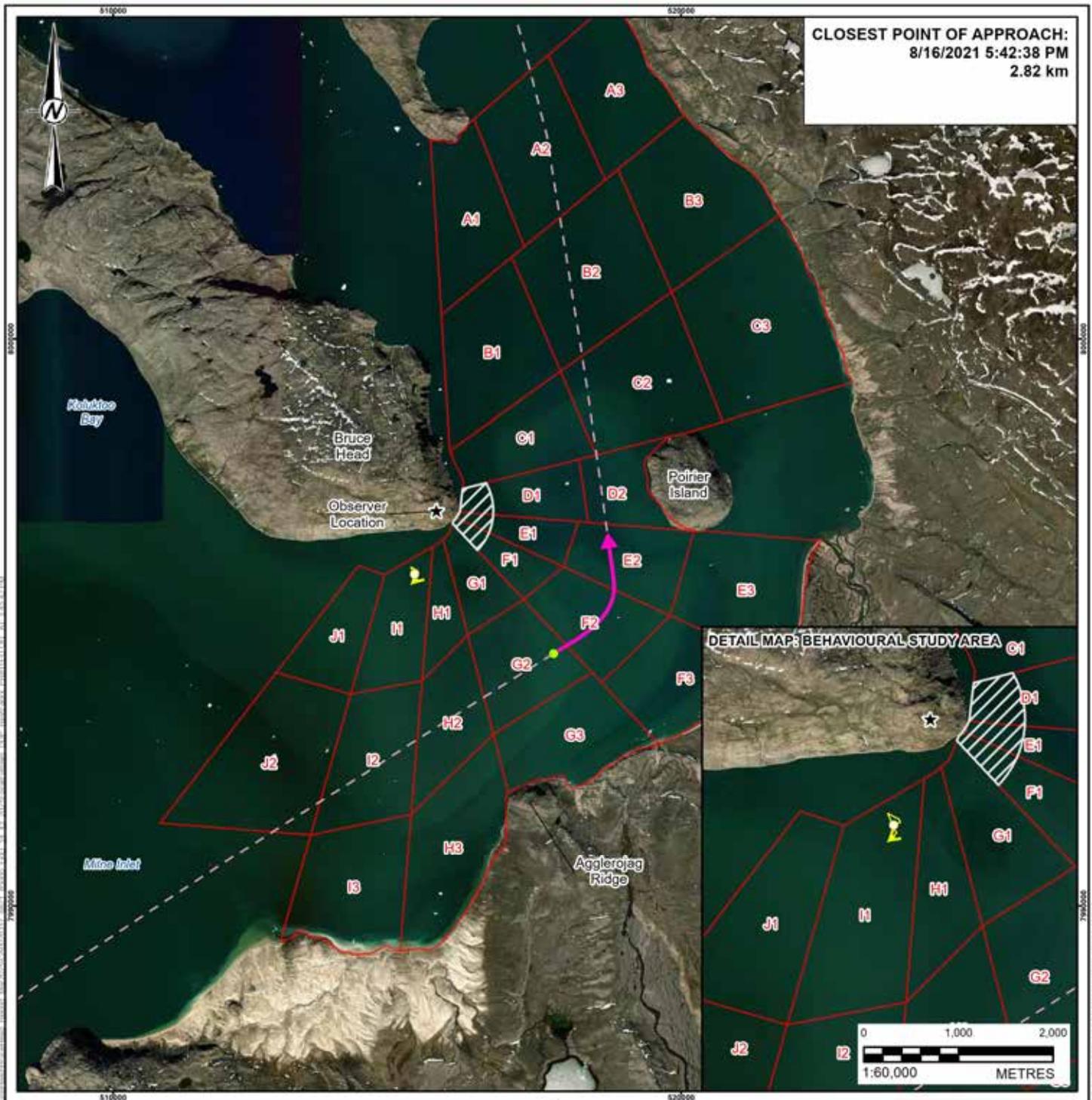
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

FIGURE  
D-27

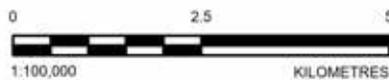
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



**CLOSEST POINT OF APPROACH:**  
8/16/2021 5:42:38 PM  
2.82 km

**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 87 (2021)
- ACTIVE VESSEL TRANSIT (BOTNICA)
- - - NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 87 (2021) AND ACTIVE VESSEL TRANSIT**

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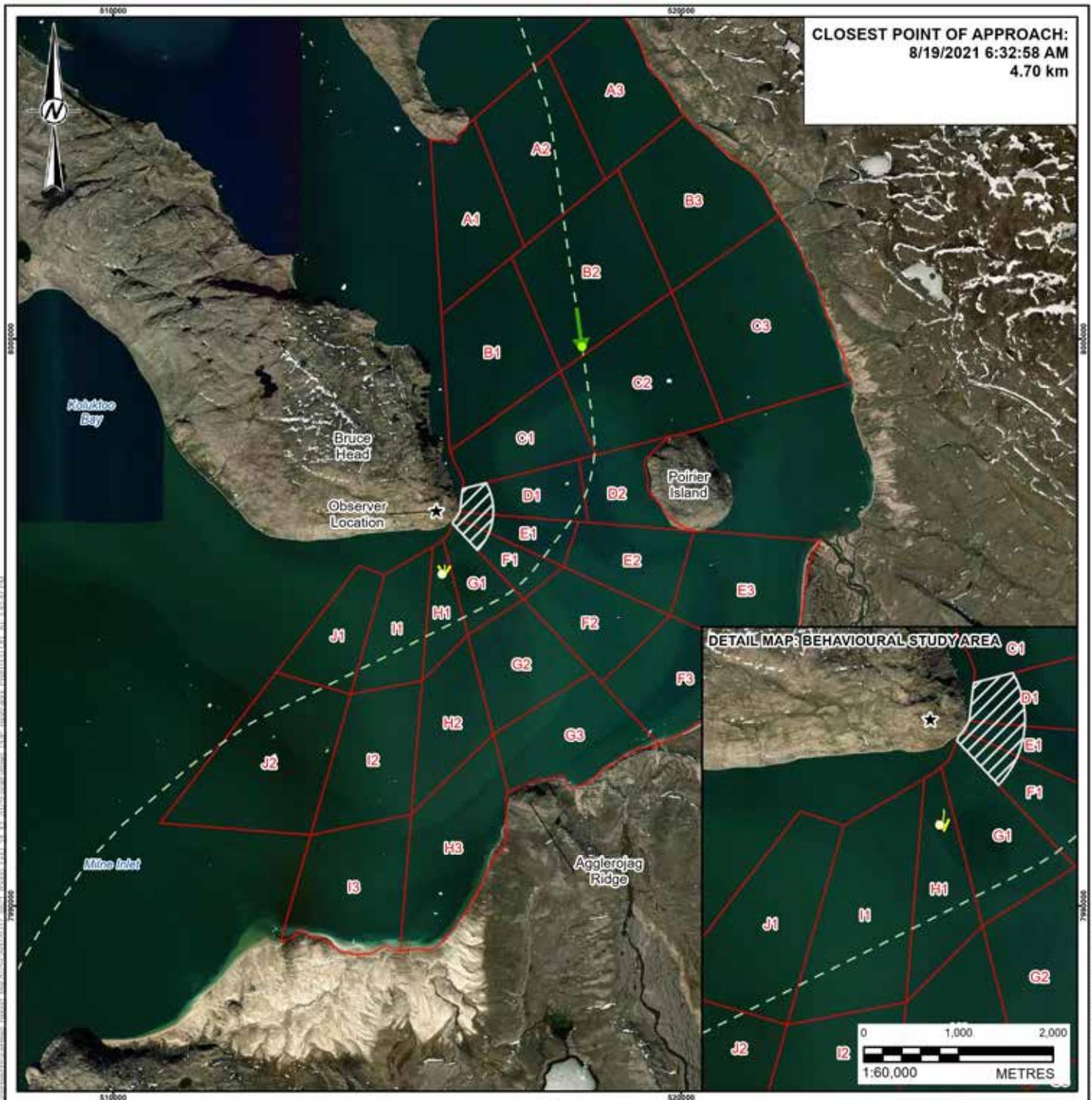
PROJECT NO.  
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CONTROL  
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REV.  
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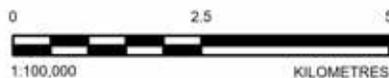
FIGURE  
D-28

If this measurement does not match what is shown, the sheet size has been modified from A3 to A2.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 114 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 114 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

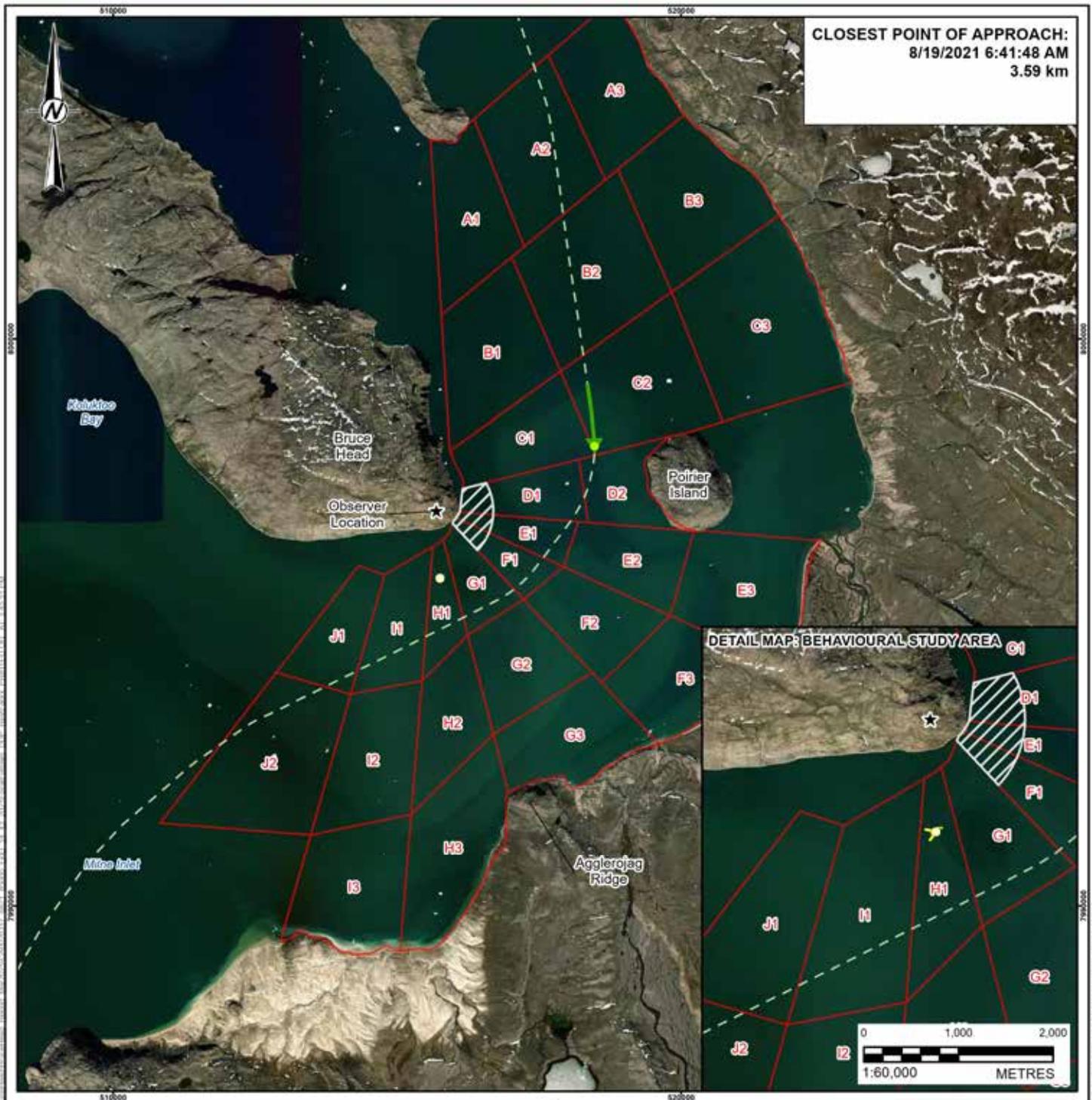
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
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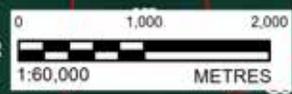
FIGURE  
D-29

If this measurement does not match what is shown, the sheet scale has been modified from A7614.



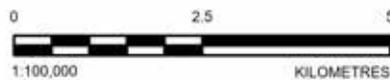
**CLOSEST POINT OF APPROACH:**  
8/19/2021 6:41:48 AM  
3.59 km

**DETAIL MAP: BEHAVIOURAL STUDY AREA**



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 115 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- - - NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 115 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

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PREPARED AA

REVIEWED PA

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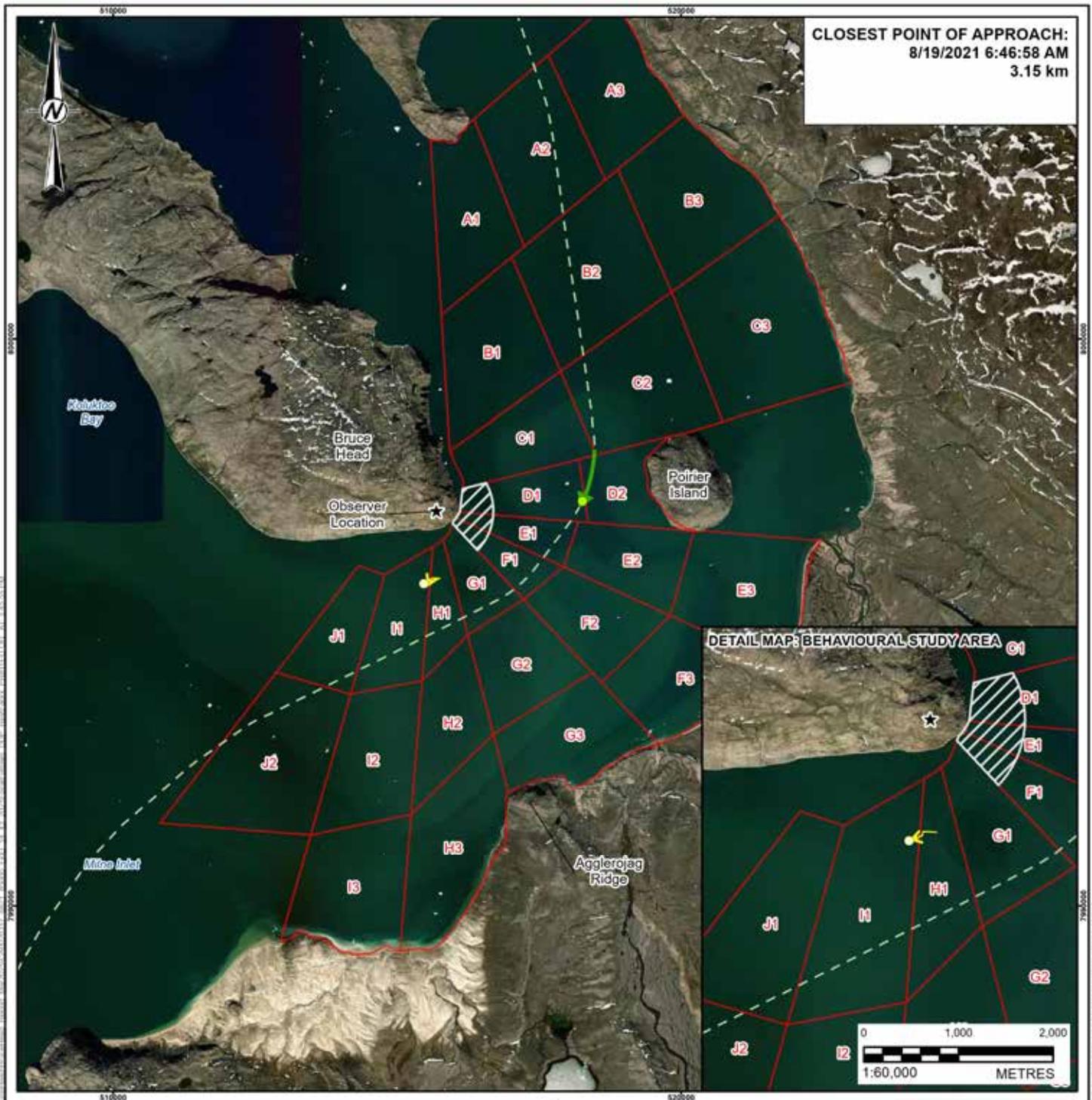
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

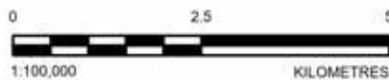
FIGURE  
D-30

If this measurement does not match what is shown, the sheet size has been modified from A3 to A4.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 116 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- - - NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 116 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

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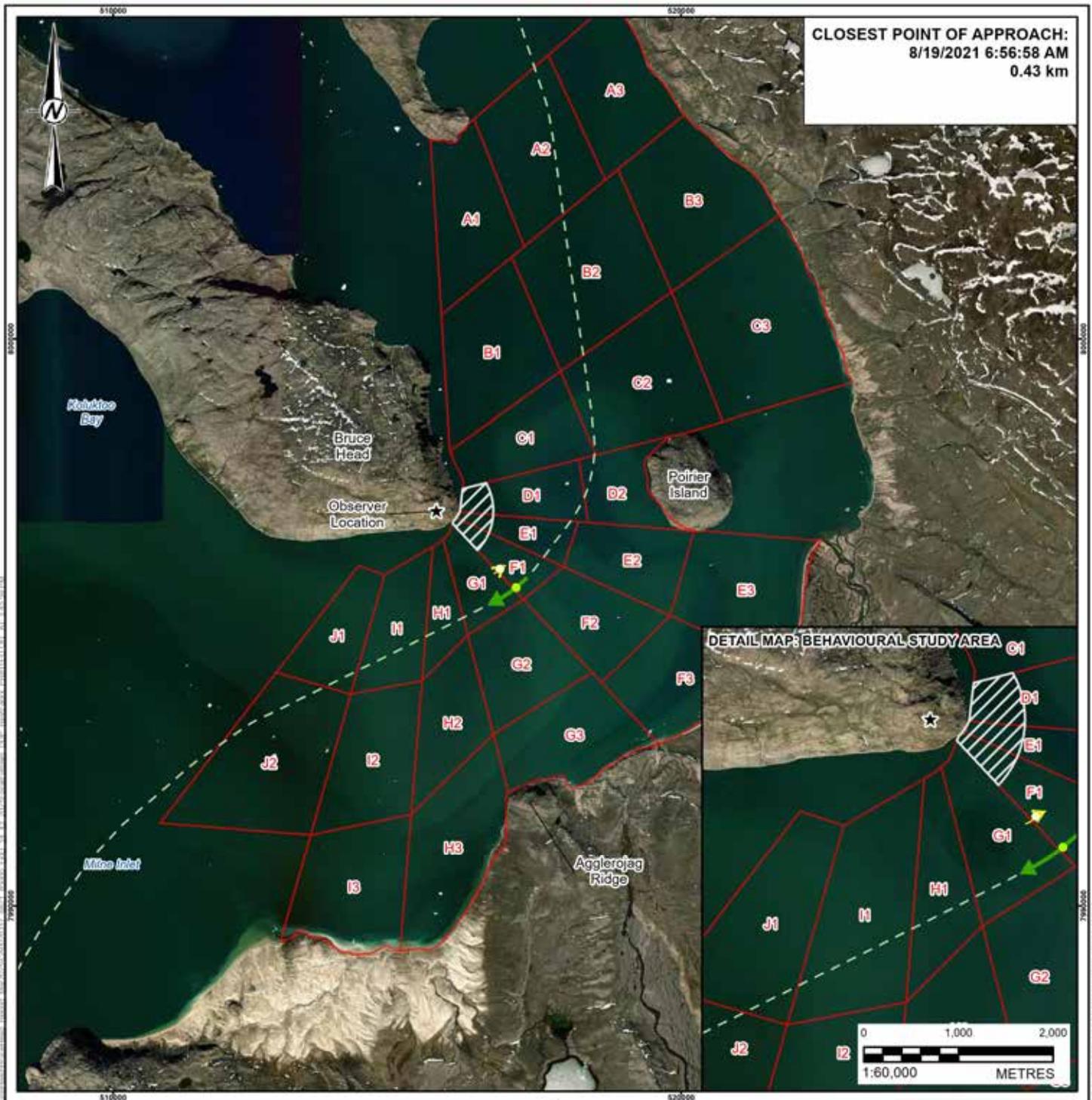
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

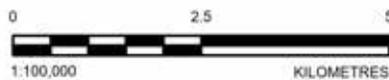
FIGURE  
D-31

If this measurement does not match what is shown, the sheet size has been modified from A3 to A4.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 117 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- - - NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 117 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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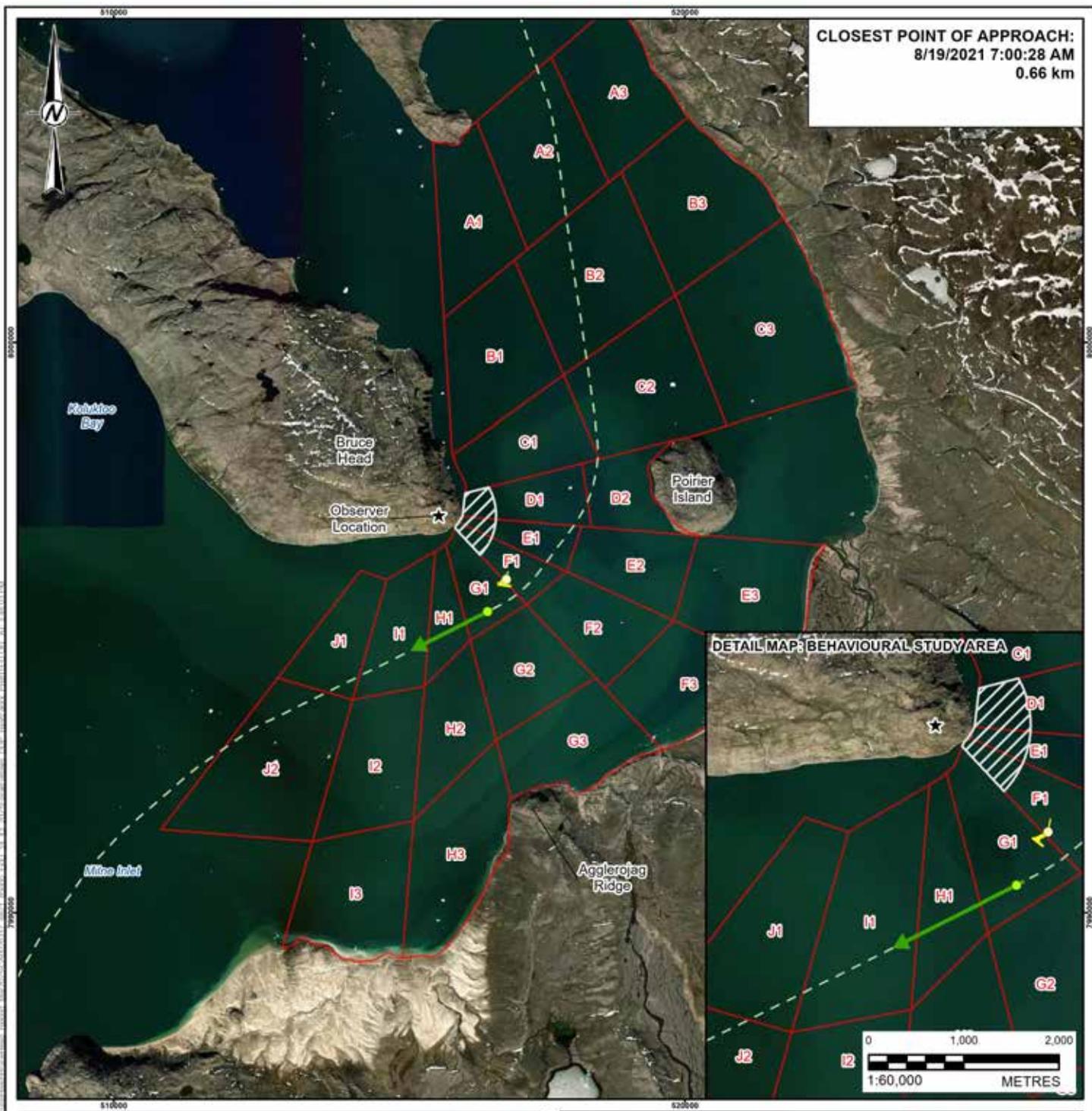
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

FIGURE  
D-32

If this measurement does not match what is shown, the sheet size has been modified from A3 to A4.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- - - NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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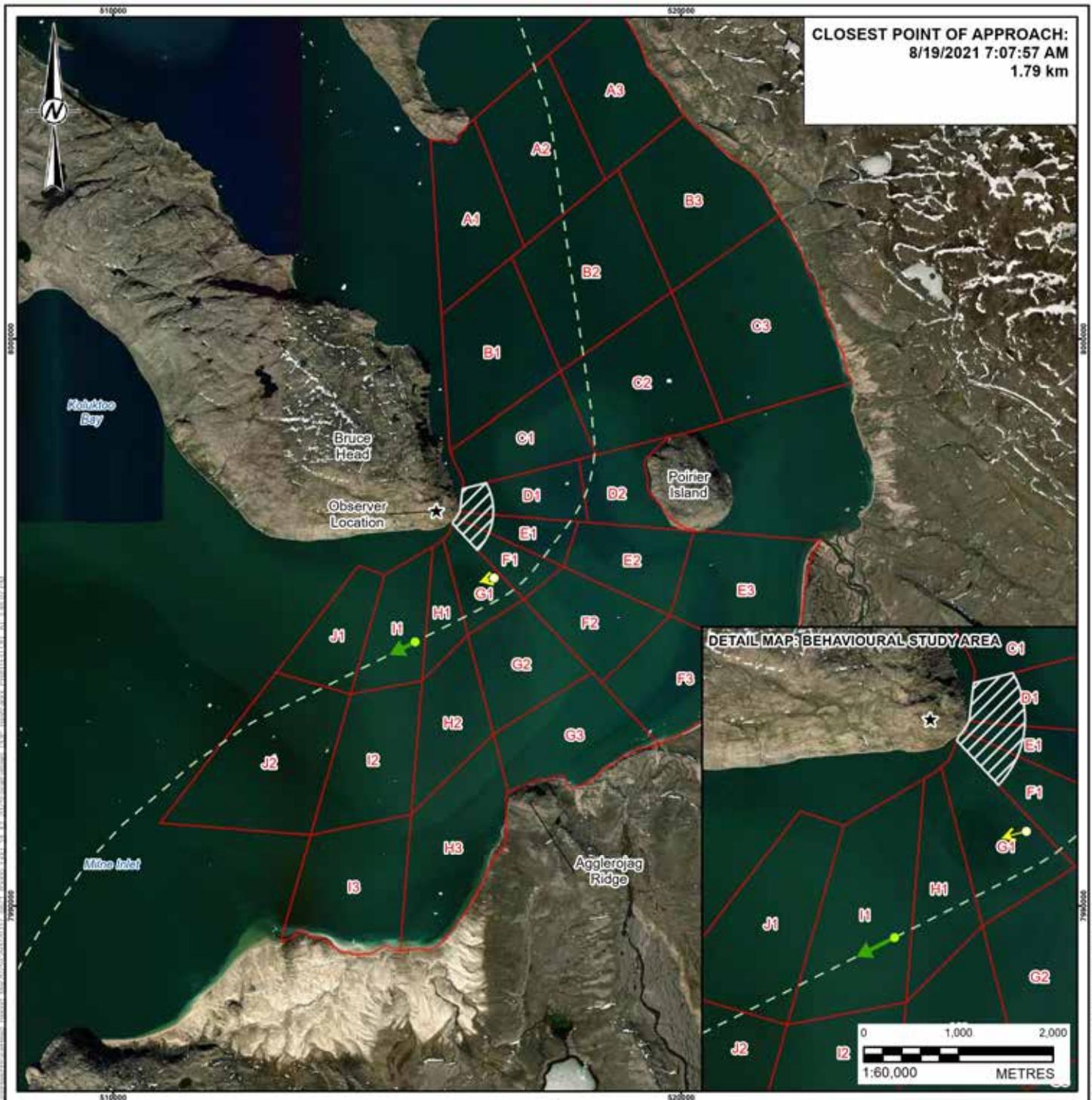
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 118 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT		YYYY-MM-DD	2025-04-24
		DESIGNED	SU
		PREPARED	AA
		REVIEWED	PA
		APPROVED	PA

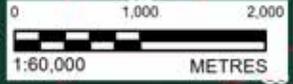
PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-33

If this measurement does not match what is shown, the sheet size has been modified from A7R4.



**CLOSEST POINT OF APPROACH:**  
8/19/2021 7:07:57 AM  
1.79 km

**DETAIL MAP: BEHAVIOURAL STUDY AREA**



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 119 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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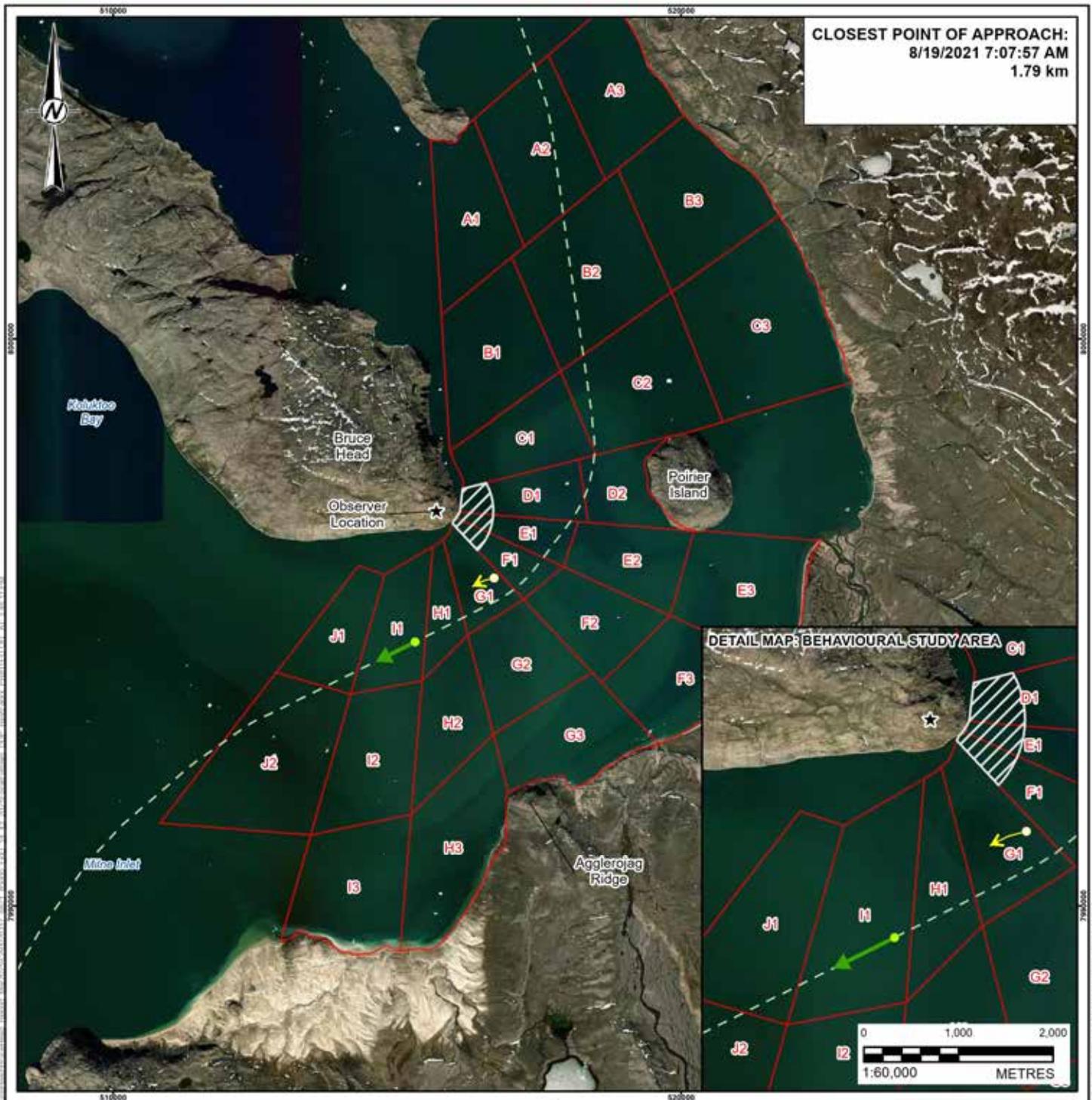
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 119 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT		YYYY-MM-DD	2025-04-24
		DESIGNED	SU
		PREPARED	AA
		REVIEWED	PA
		APPROVED	PA

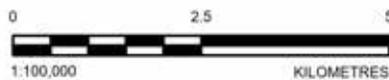
PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-34

If this measurement does not match what is shown, the sheet size has been modified from A3 to A4.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 120 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

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APPROVED PA

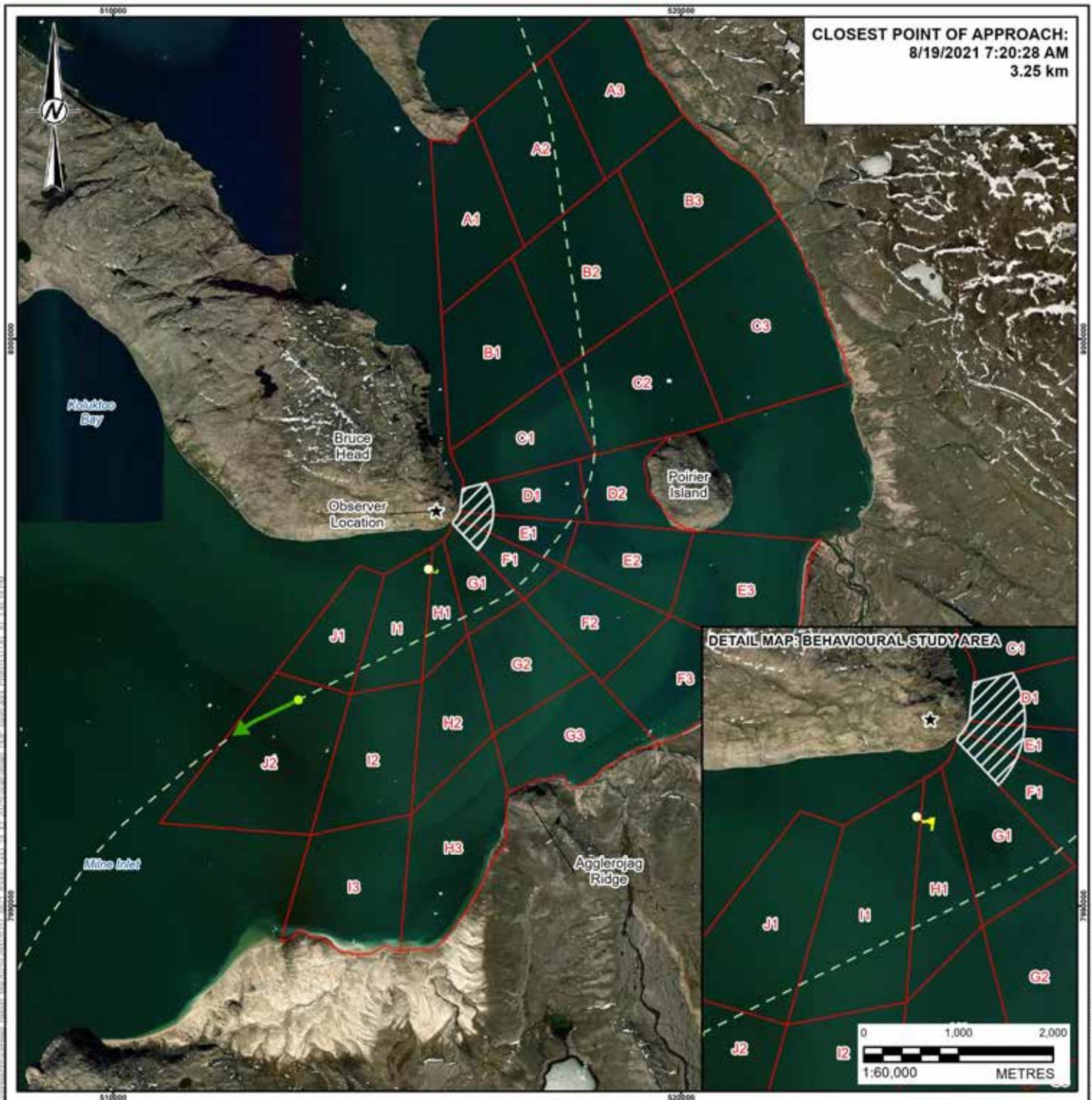
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

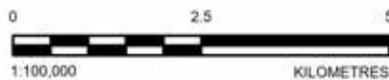
FIGURE  
D-35

If this measurement does not match what is shown, the sheet size has been modified from A3 to A2.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- - - NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 121 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

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REVIEWED PA

APPROVED PA

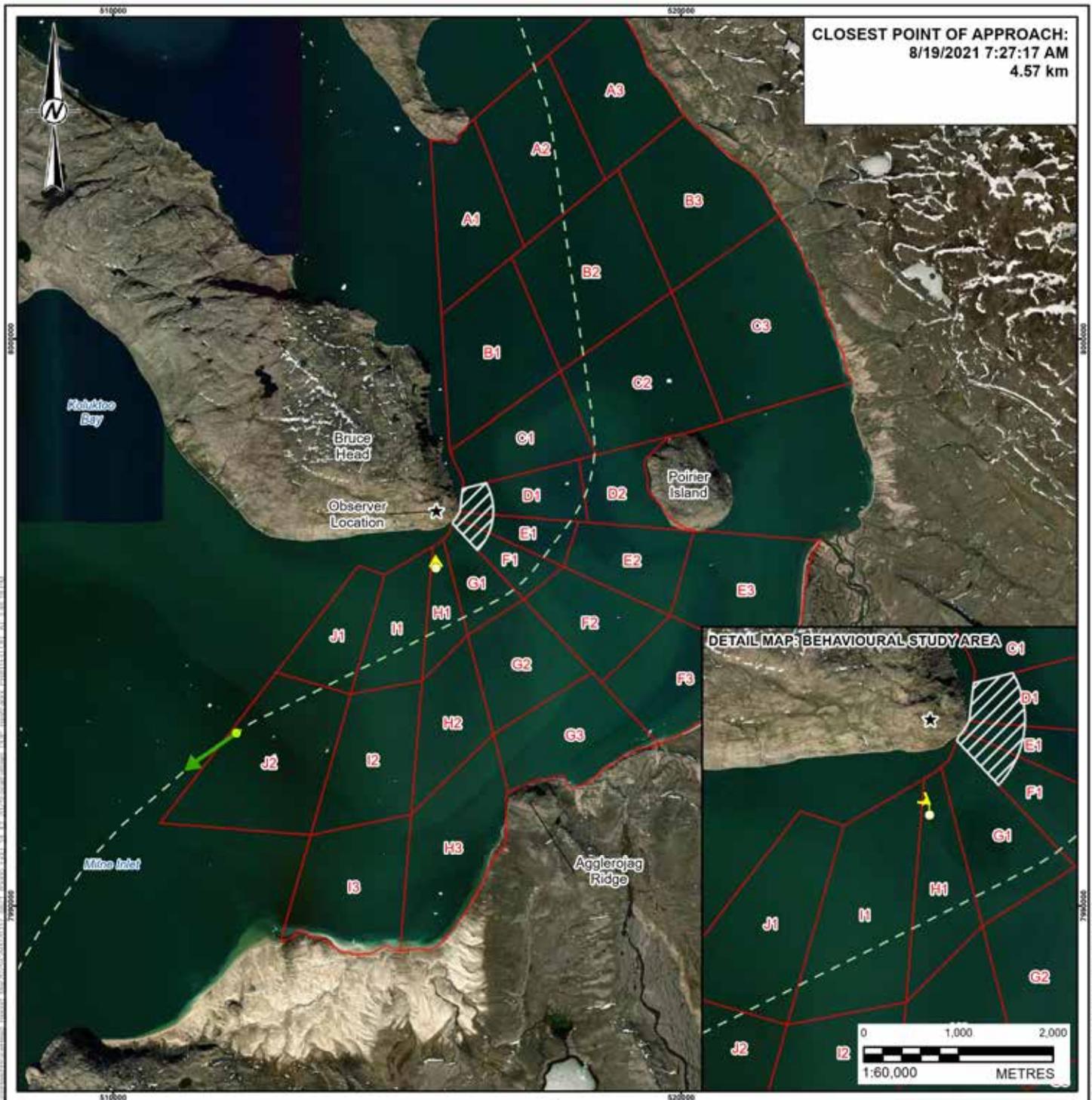
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

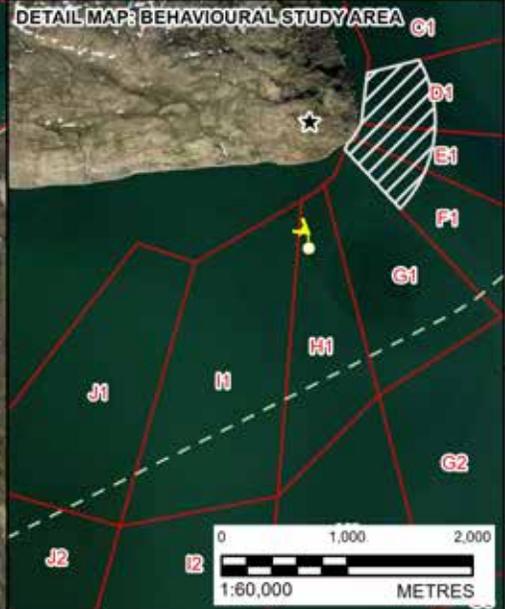
REV.  
0

FIGURE  
D-36

If this measurement does not match what is shown, the sheet size has been modified from A3 to A4.

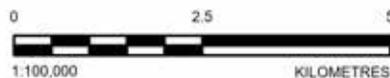


CLOSEST POINT OF APPROACH:  
8/19/2021 7:27:17 AM  
4.57 km



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 122 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- - - NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 122 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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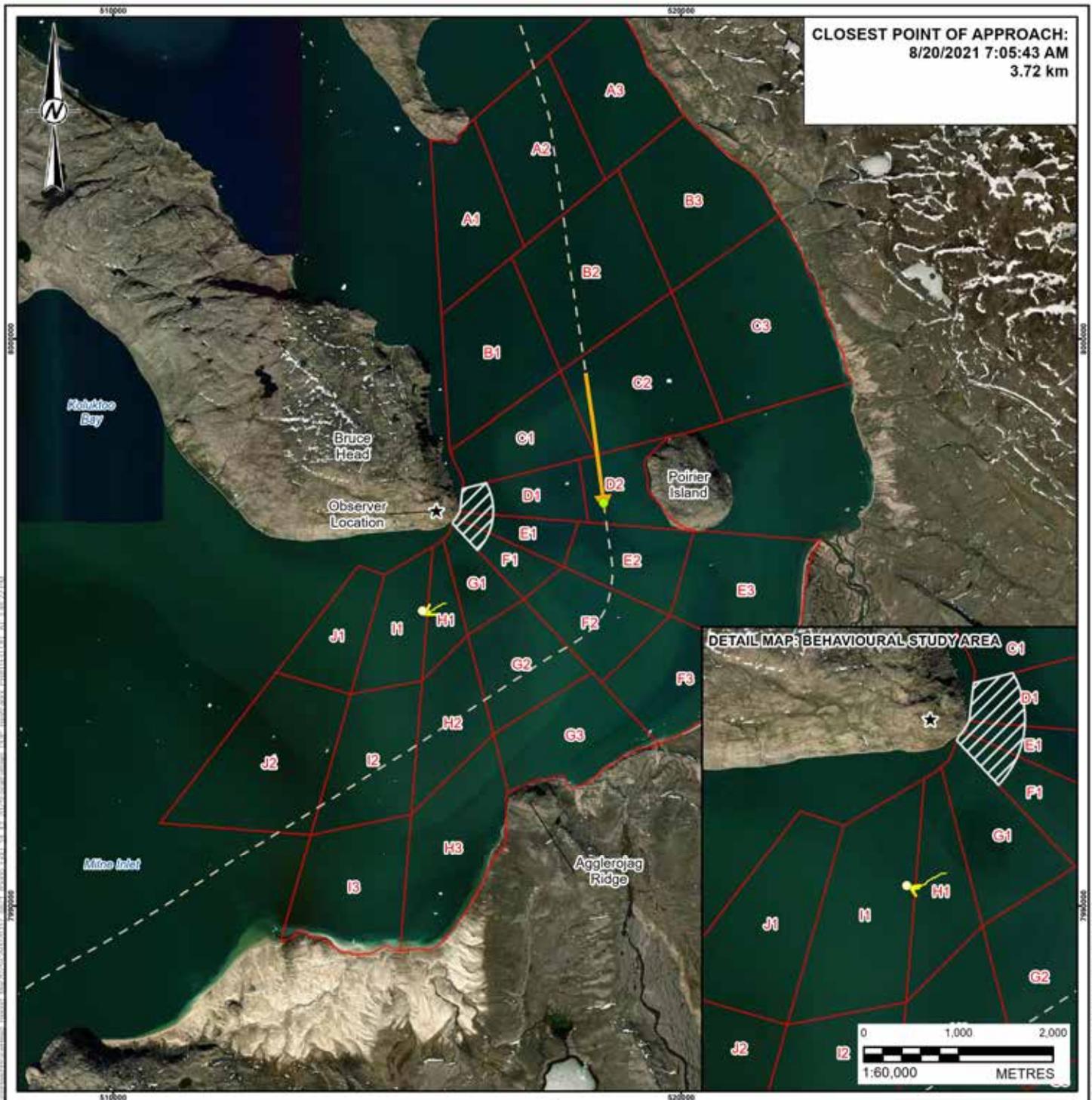
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

FIGURE  
D-37

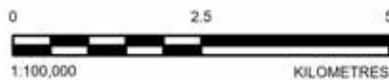
If this measurement does not match what is shown, the sheet size has been modified from A3 to A4.



**CLOSEST POINT OF APPROACH:**  
8/20/2021 7:05:43 AM  
3.72 km

**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 139 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- - - NON-ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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TITLE  
**FOCAL FOLLOW 139 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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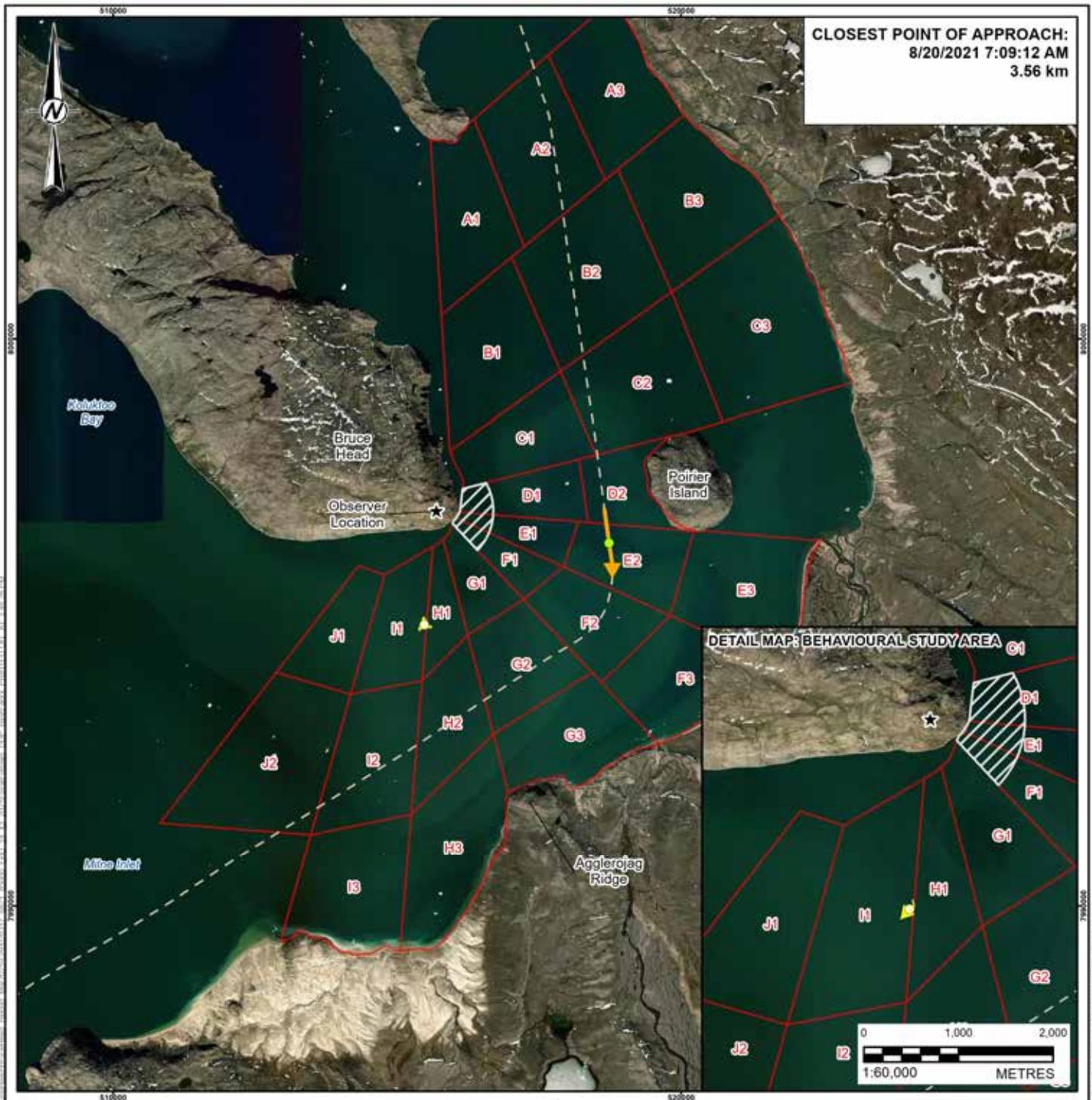
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
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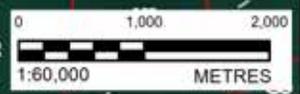
FIGURE  
D-38

If this measurement does not match what is shown, the sheet scale has been modified from A7814.



CLOSEST POINT OF APPROACH:  
8/20/2021 7:09:12 AM  
3.56 km

DETAIL MAP: BEHAVIOURAL STUDY AREA



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- ▲ FOCAL FOLLOW TRACK 140 (2021)
- ➔ ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- - - NON-ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 140 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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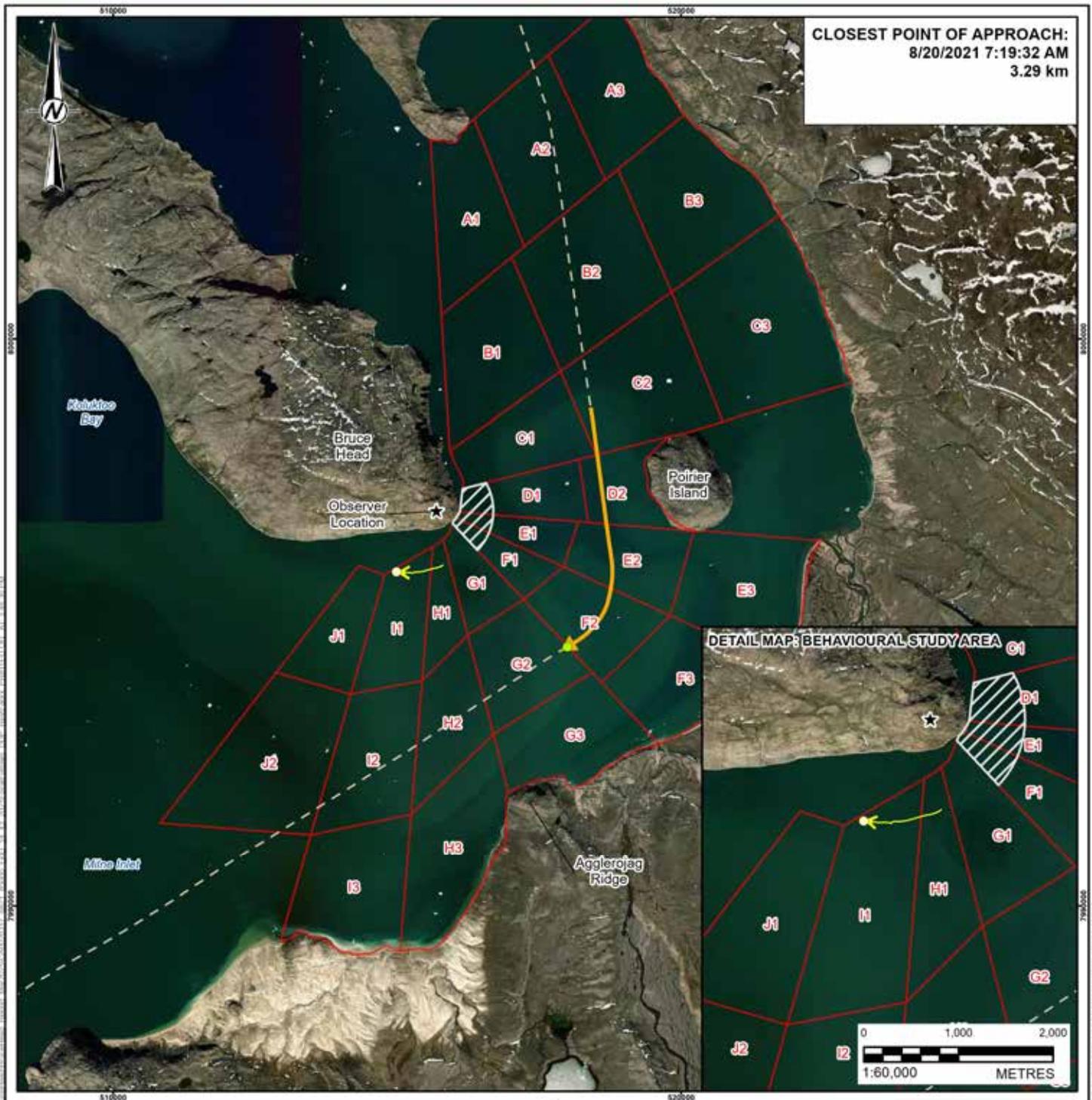
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

FIGURE  
D-39

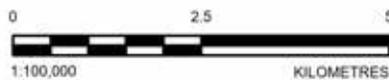
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



**CLOSEST POINT OF APPROACH:**  
8/20/2021 7:19:32 AM  
3.29 km

**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 141 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- - - NON-ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 141 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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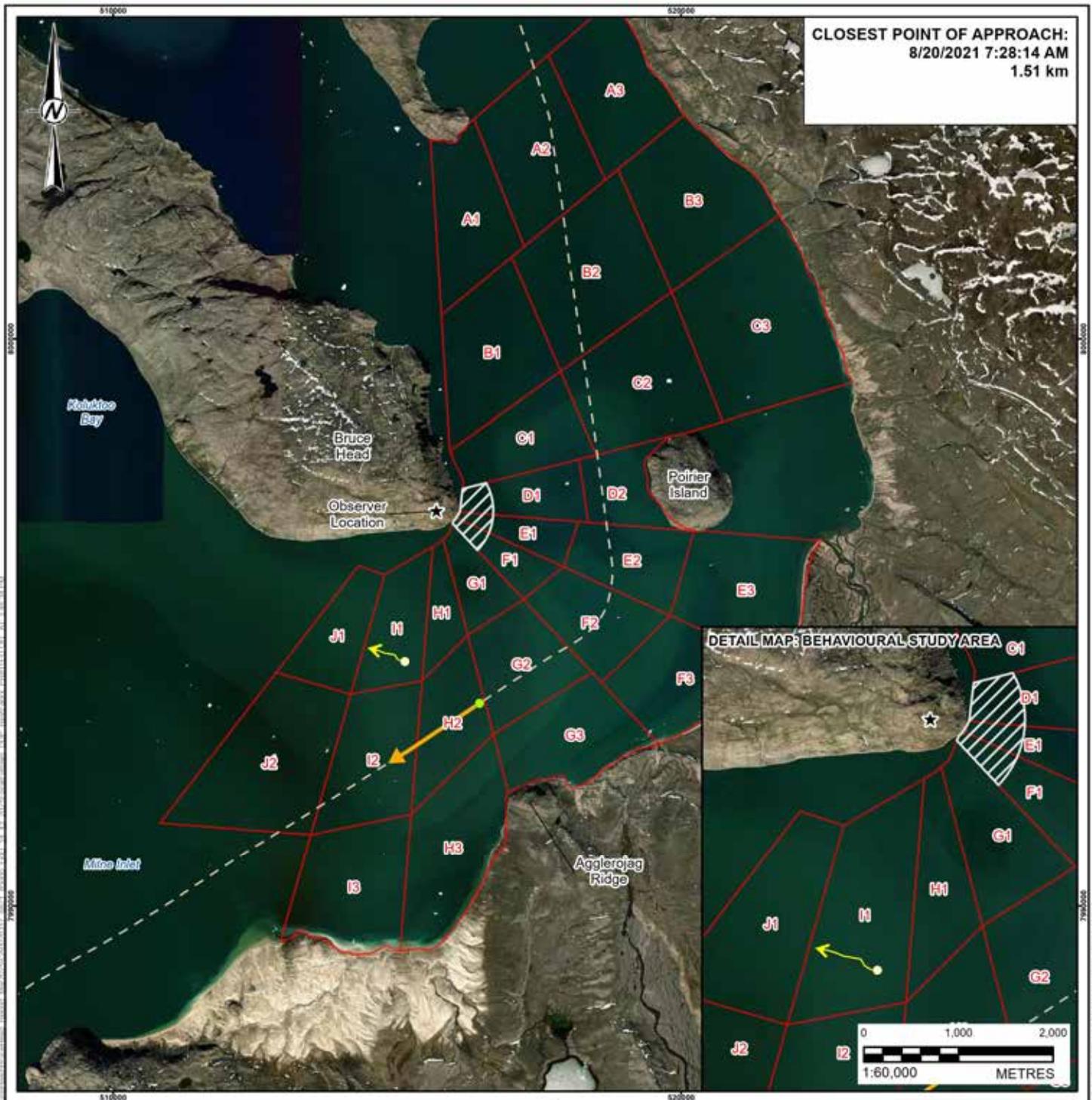
PROJECT NO.  
CA0026317.6821

CONTROL  
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REV.  
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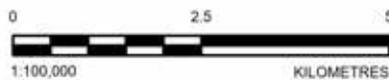
FIGURE  
D-40

If this measurement does not match what is shown, the sheet size has been modified from A3 to A4.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 142 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

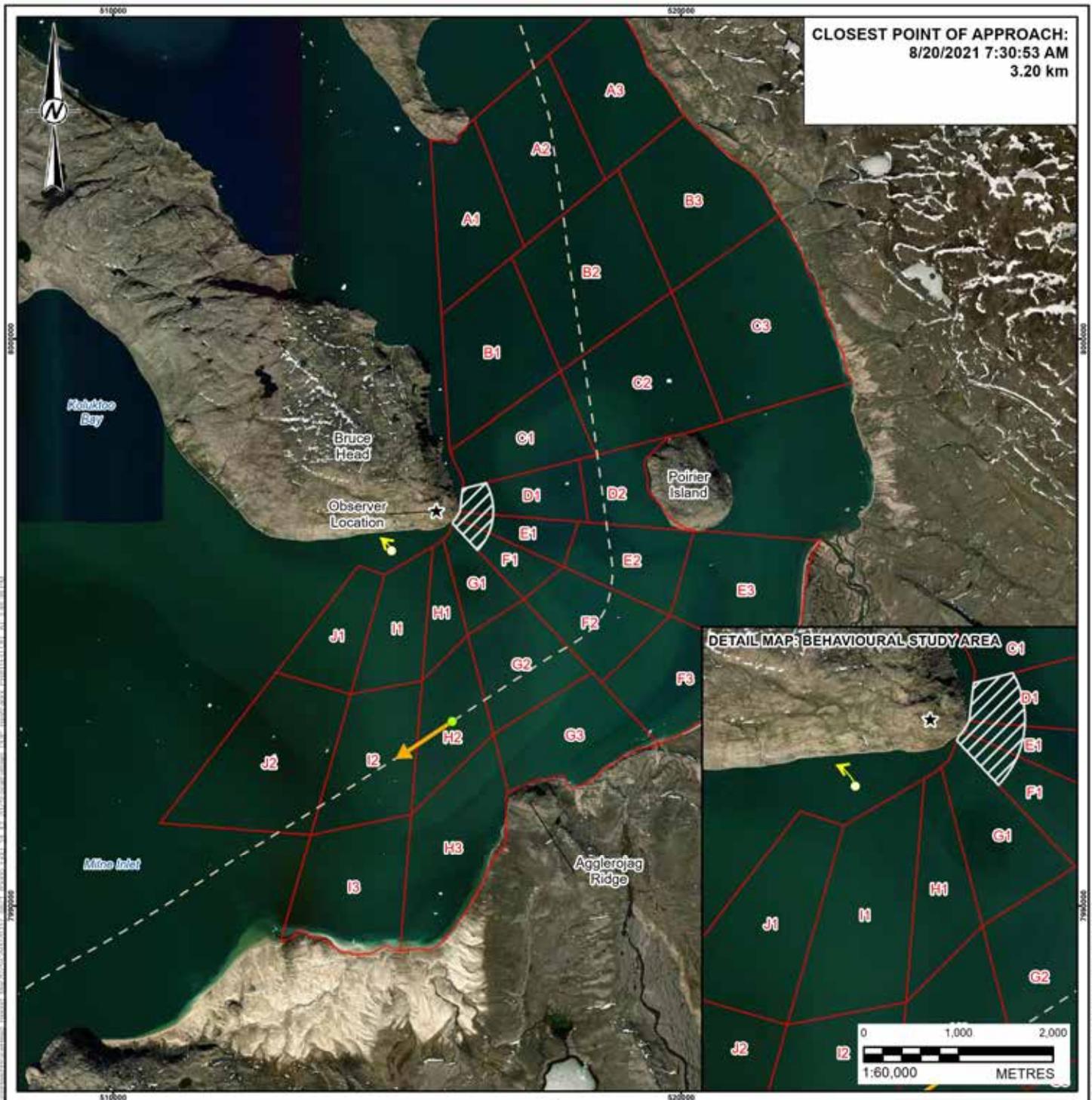
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

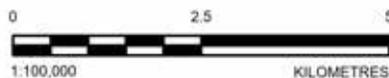
FIGURE  
D-41

If this measurement does not match what is shown, the sheet scale has been modified from A7614.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 143 (2021) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

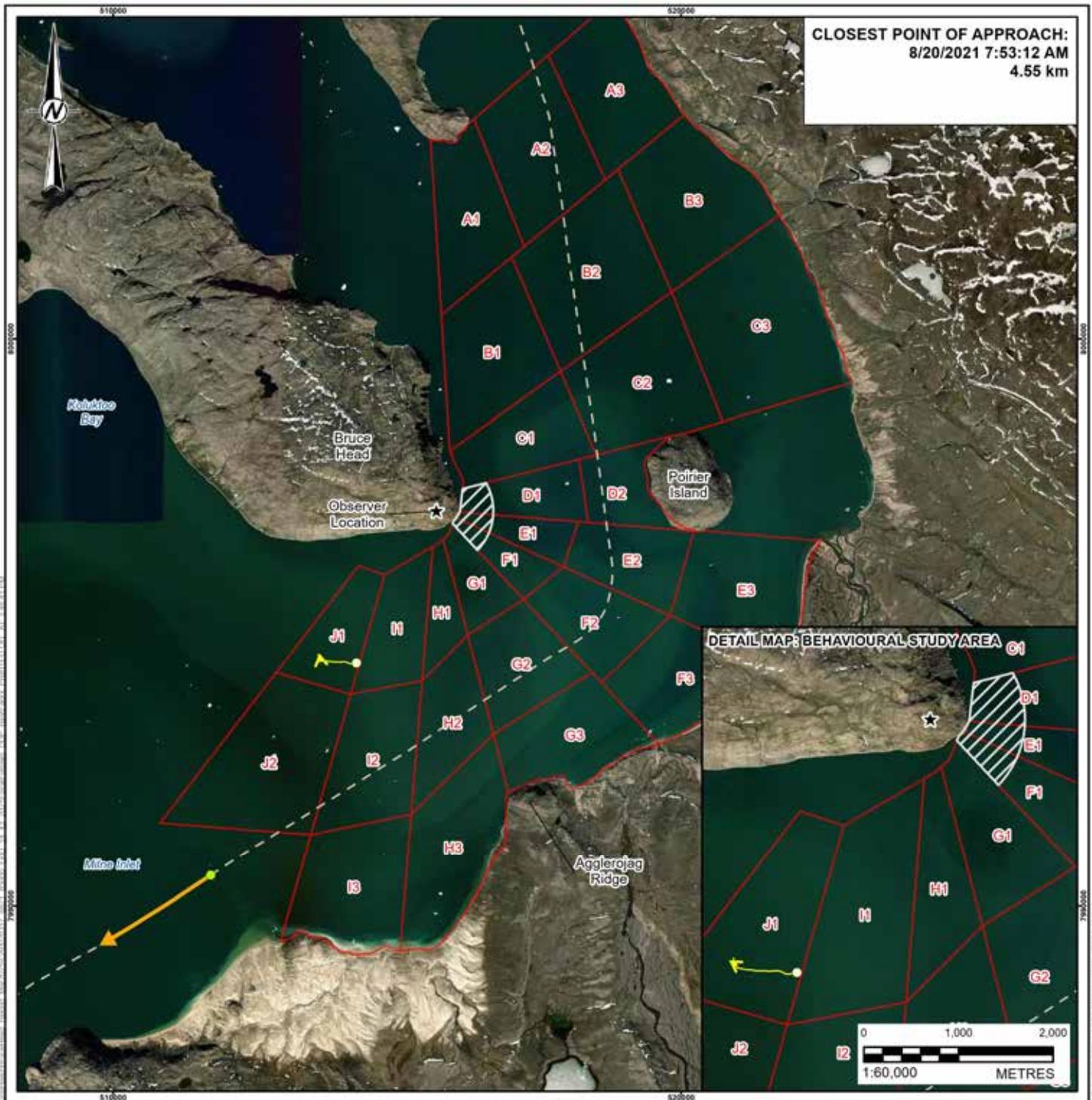
PROJECT NO.  
CA0026317.6821

CONTROL  
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REV.  
0

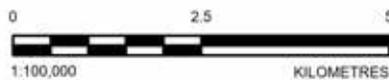
FIGURE  
D-42

If this measurement does not match what is shown, the sheet scale has been modified from A7104.



**LEGEND**

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 144 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- - - NON-ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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BAFFINLAND IRON MINES CORPORATION

PROJECT  
MARY RIVER PROJECT

TITLE  
FOCAL FOLLOW 144 (2021) AND ACTIVE VESSEL TRANSIT

CONSULTANT



YYYY-MM-DD 2025-04-24

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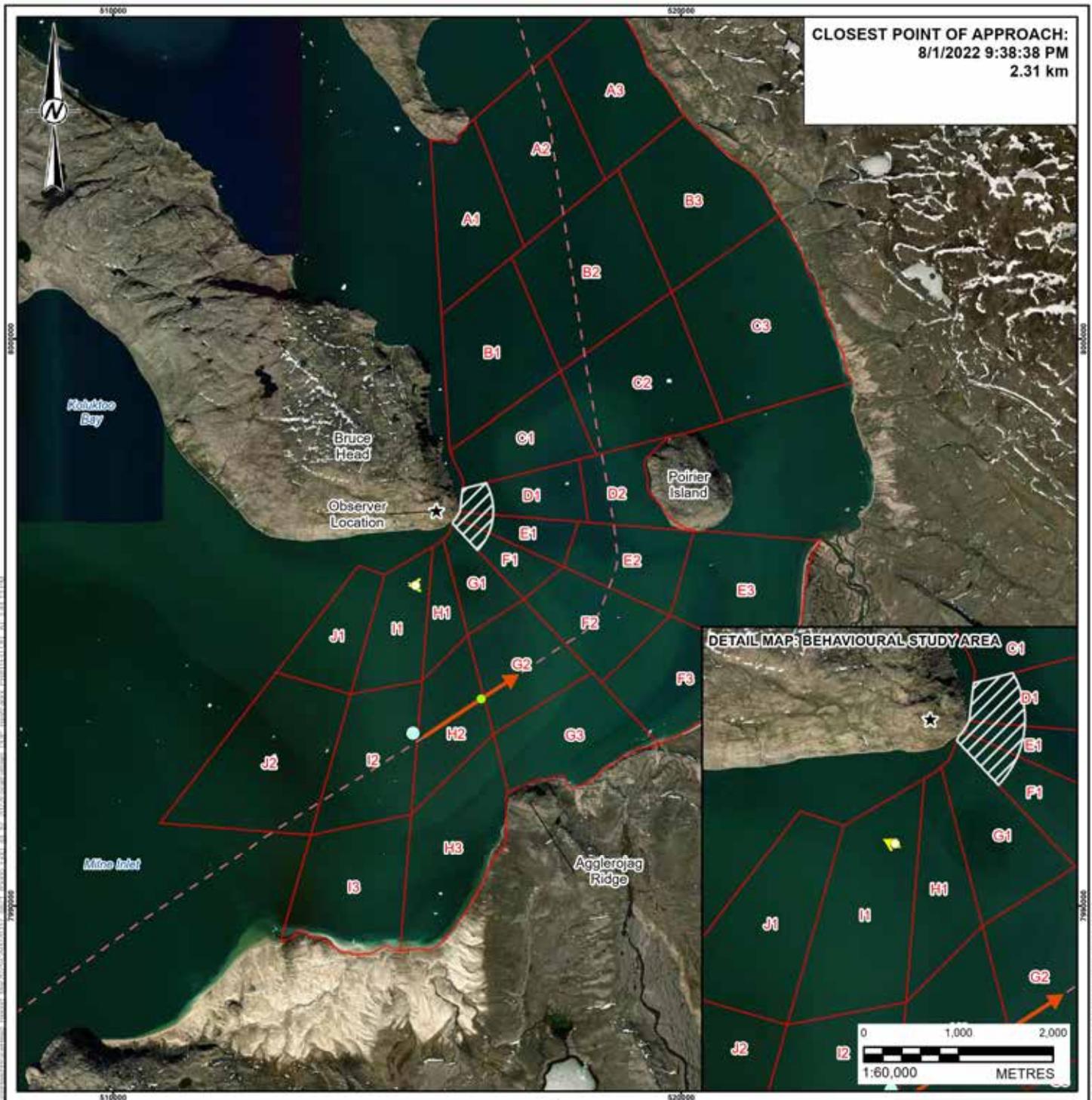
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
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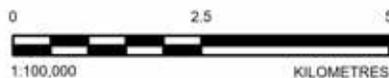
FIGURE  
D-43

If this measurement does not match what is shown, the sheet scale has been modified from A7614.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 16 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- NON-ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
MARY RIVER PROJECT

TITLE  
FOCAL FOLLOW 16 (2022) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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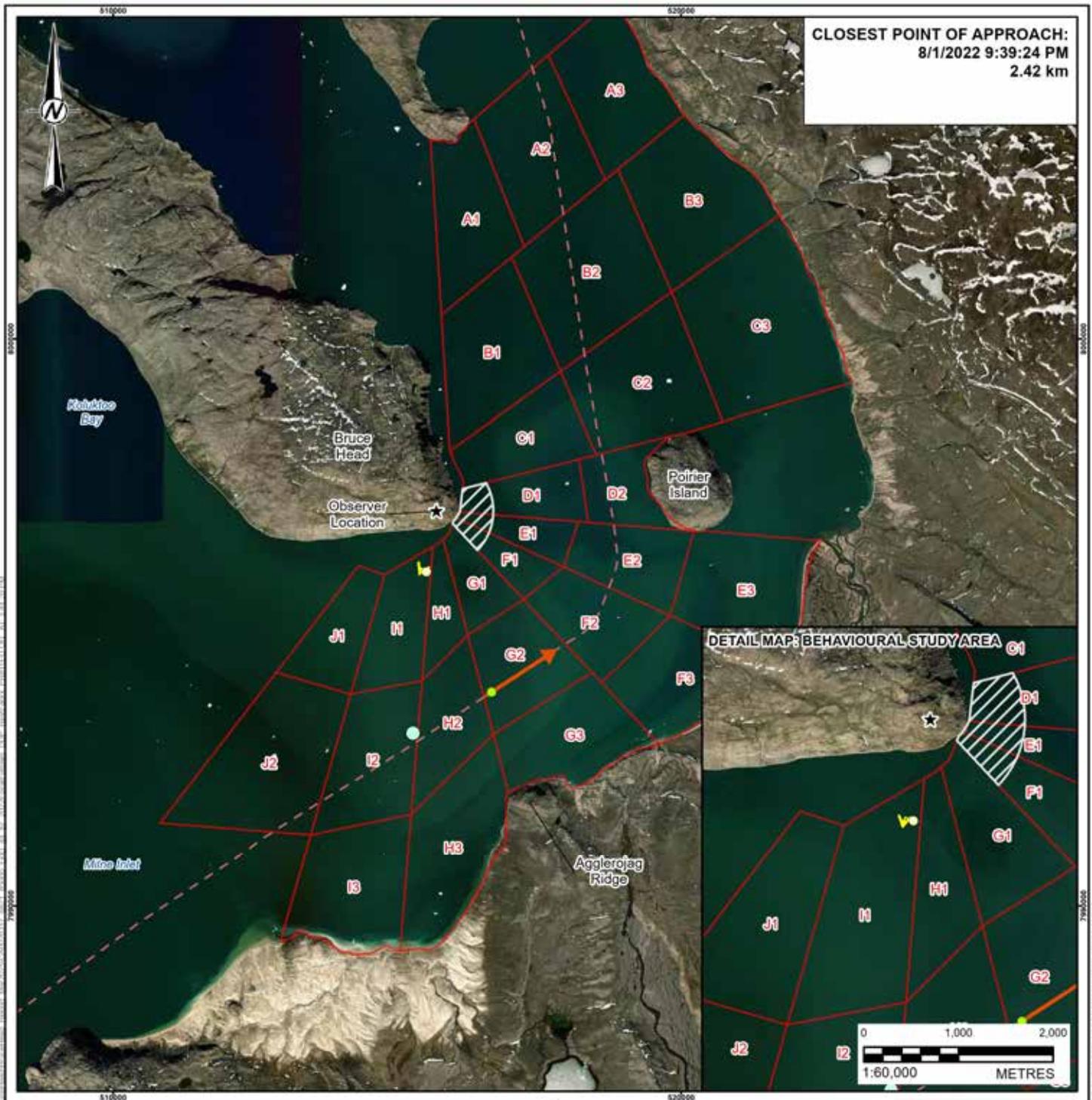
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
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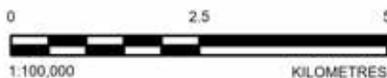
FIGURE  
D-44

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 17 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- - - NON-ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 17 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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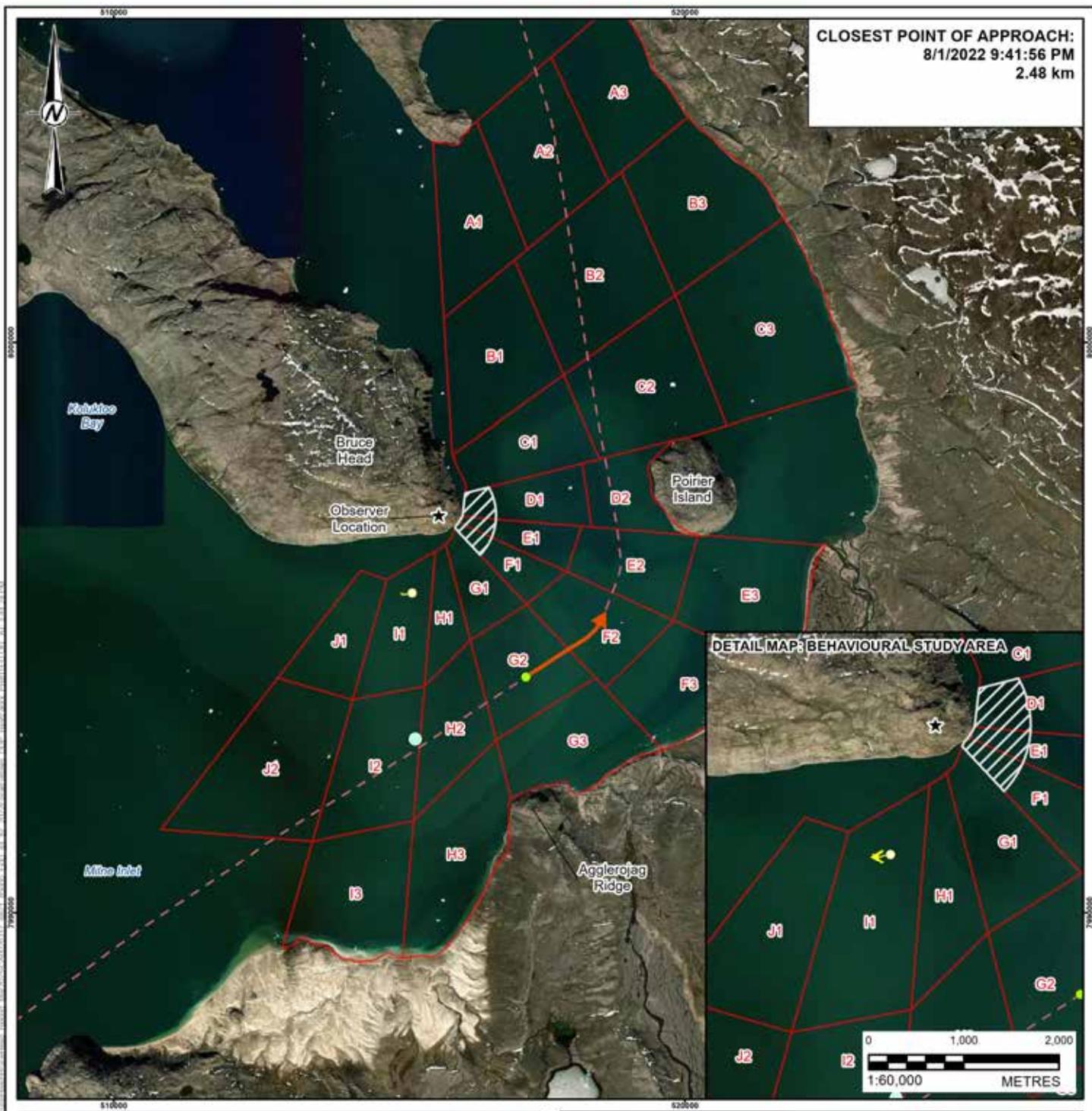
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

FIGURE  
D-45

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 18 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- - - NON-ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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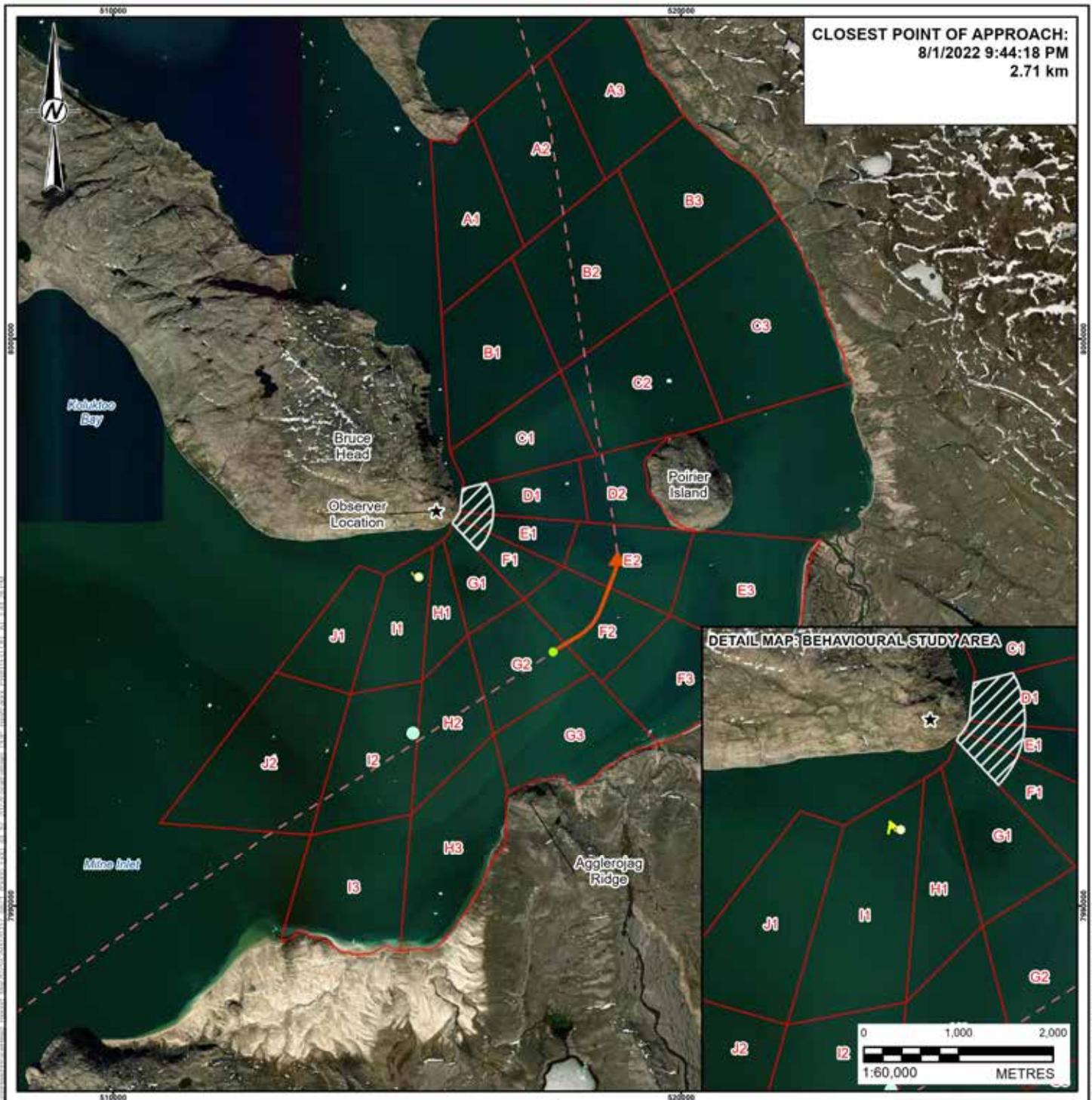
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 18 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT		YYYY-MM-DD	2025-04-24
		DESIGNED	SU
		PREPARED	AA
		REVIEWED	PA
		APPROVED	PA

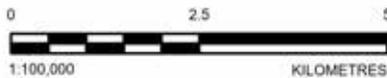
PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-46

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 19 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- - - NON-ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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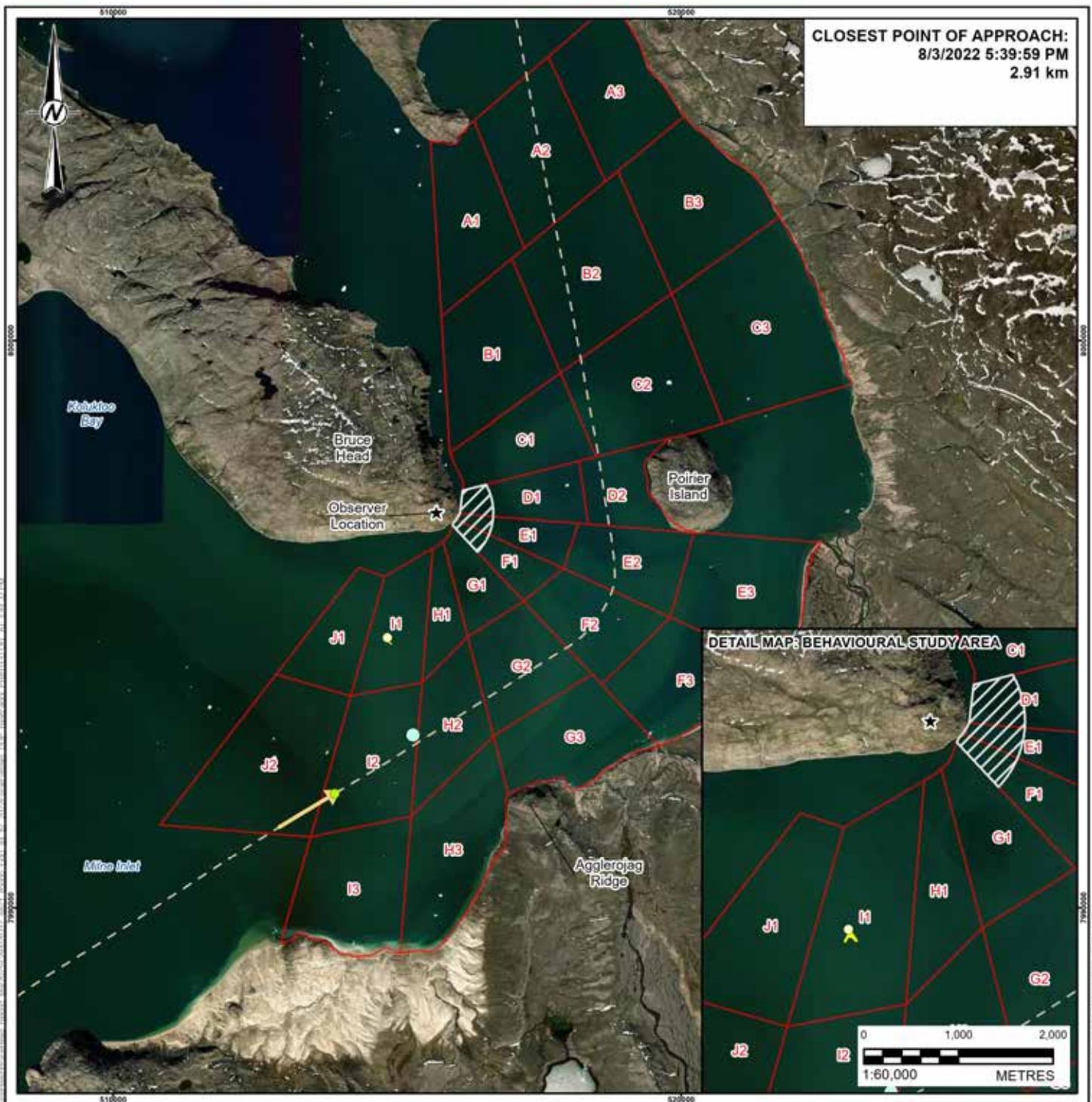
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 19 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT	YYYY-MM-DD	2025-04-24
	DESIGNED	SU
	PREPARED	AA
	REVIEWED	PA
	APPROVED	PA

PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-47

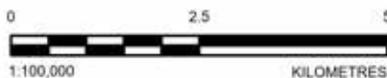
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE



**CLOSEST POINT OF APPROACH:**  
8/3/2022 5:39:59 PM  
2.91 km

**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 25 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC ODIN)
- NON-ACTIVE VESSEL TRANSIT (NORDIC ODIN)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 25 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

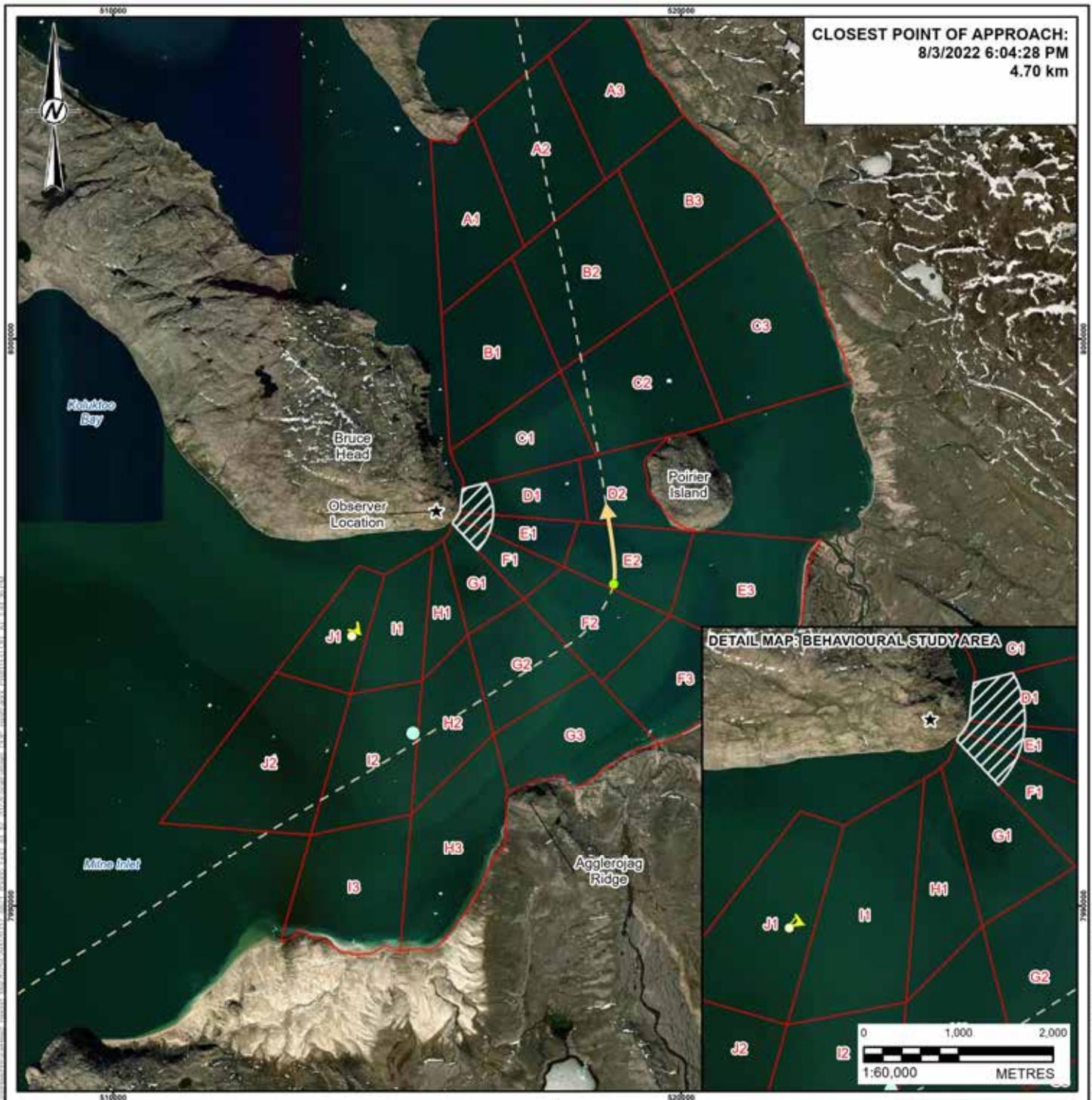
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
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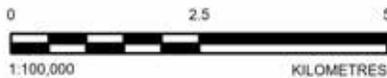
FIGURE  
D-48

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 26 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC ODIN)
- NON-ACTIVE VESSEL TRANSIT (NORDIC ODIN)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 26 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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REVIEWED PA

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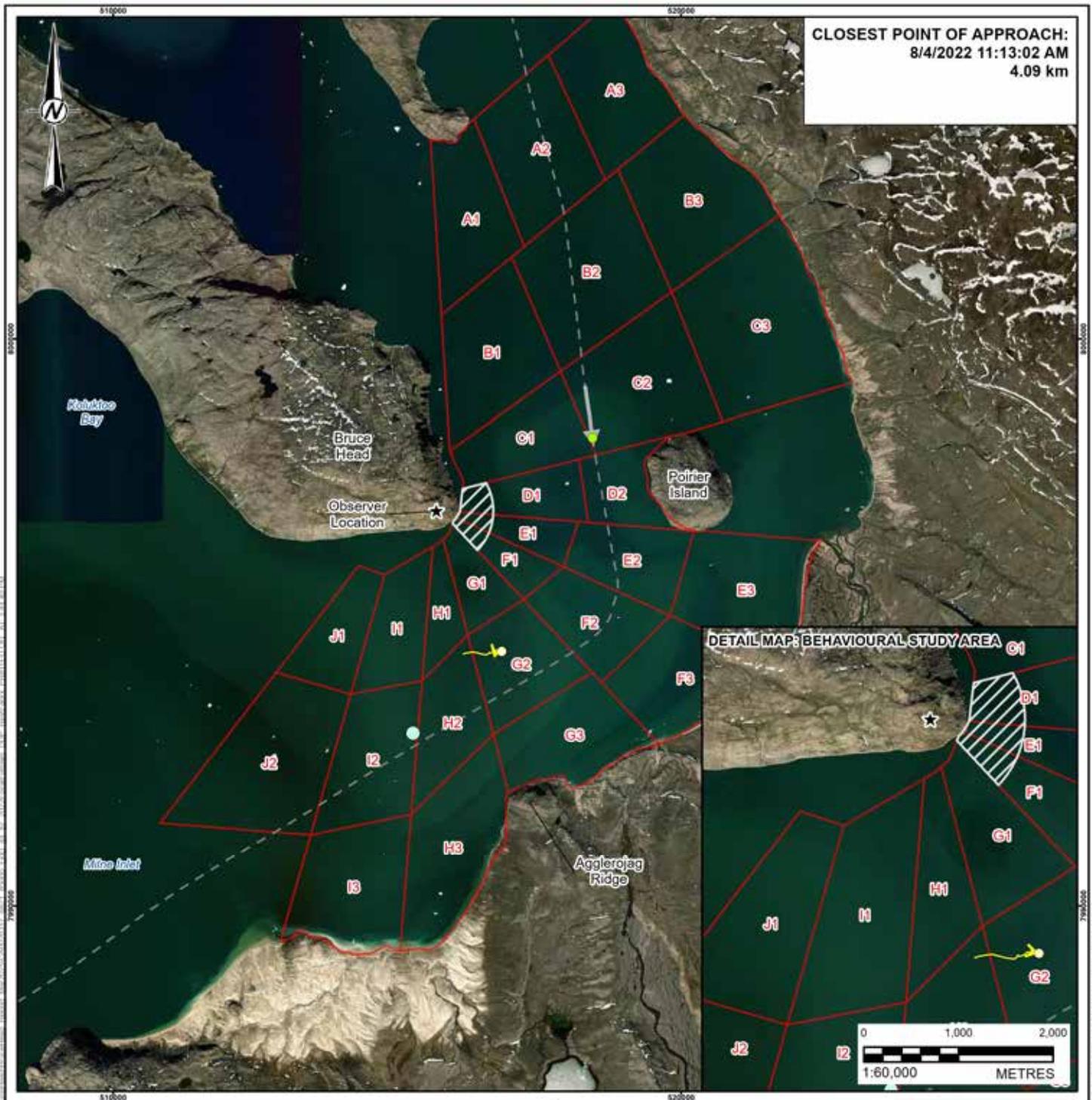
PROJECT NO.  
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CONTROL  
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REV.  
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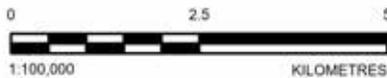
FIGURE  
D-49

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 30 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- - NON-ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 30 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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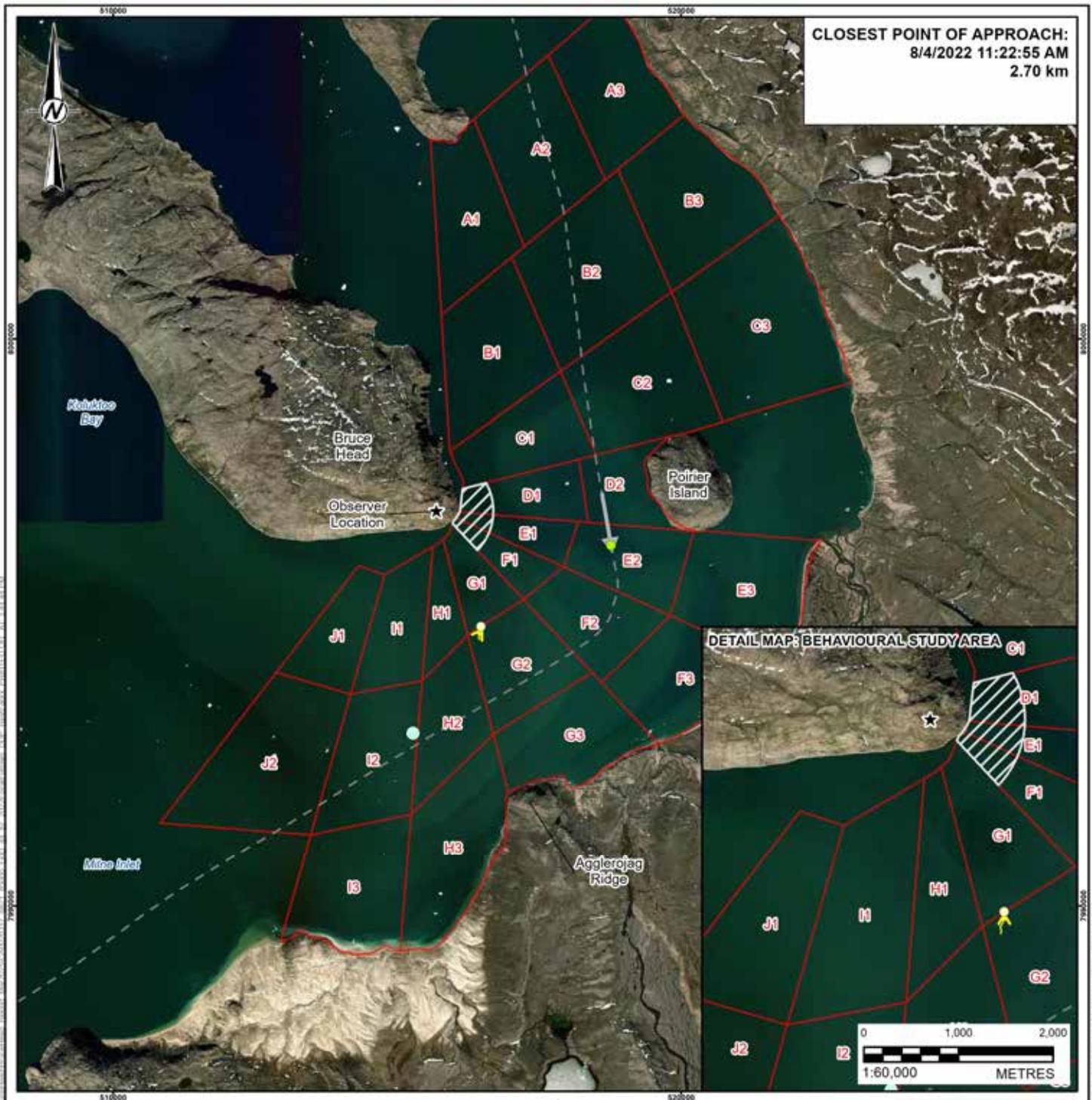
PROJECT NO.  
CA0026317.6821

CONTROL  
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REV.  
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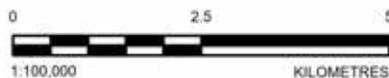
FIGURE  
D-50

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ANTRIA 25mm



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 31 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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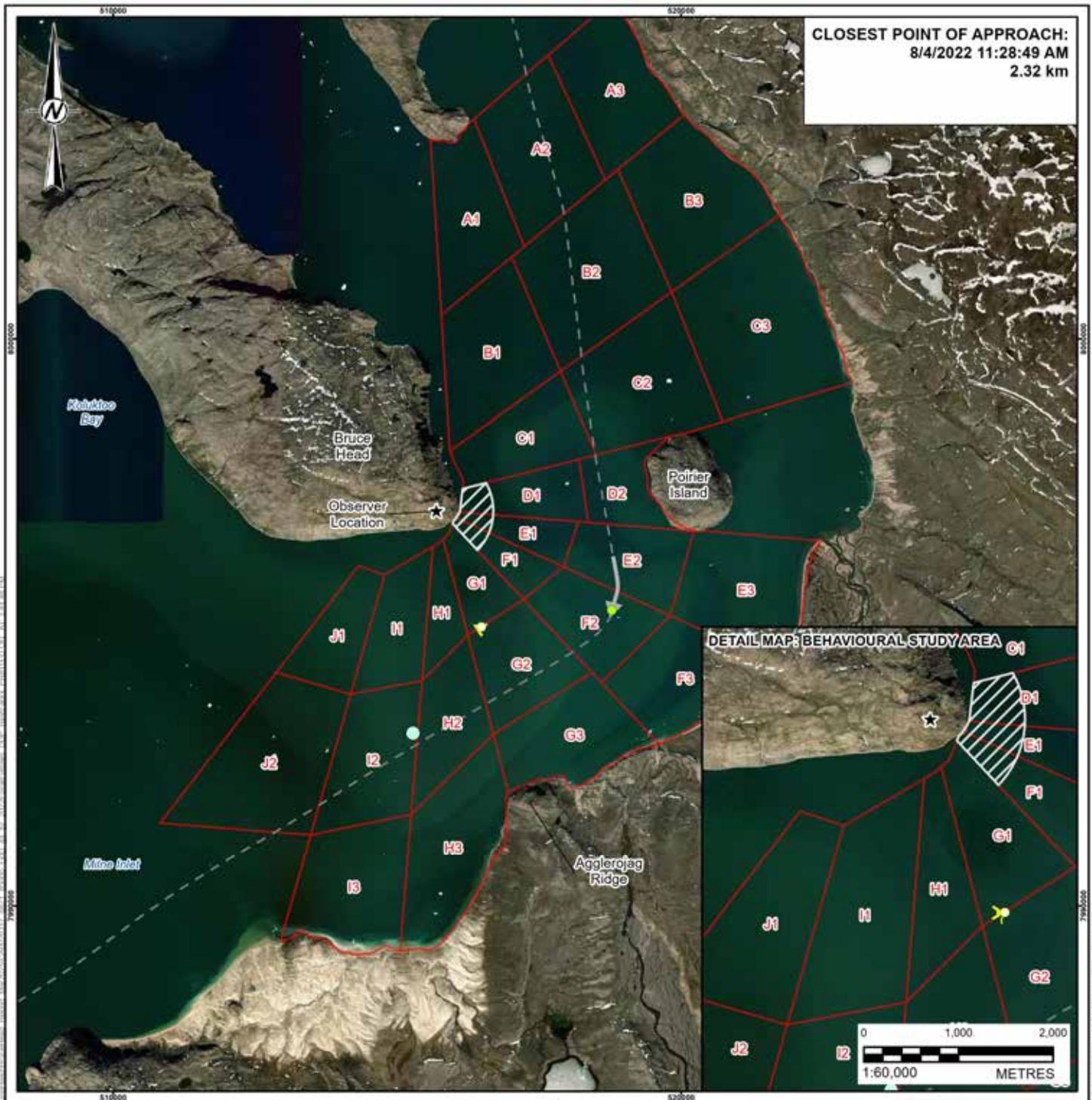
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 31 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT	YYYY-MM-DD	2025-04-24
	DESIGNED	SU
	PREPARED	AA
	REVIEWED	PA
	APPROVED	PA

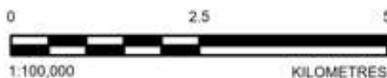
PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-51

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 32 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 32 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



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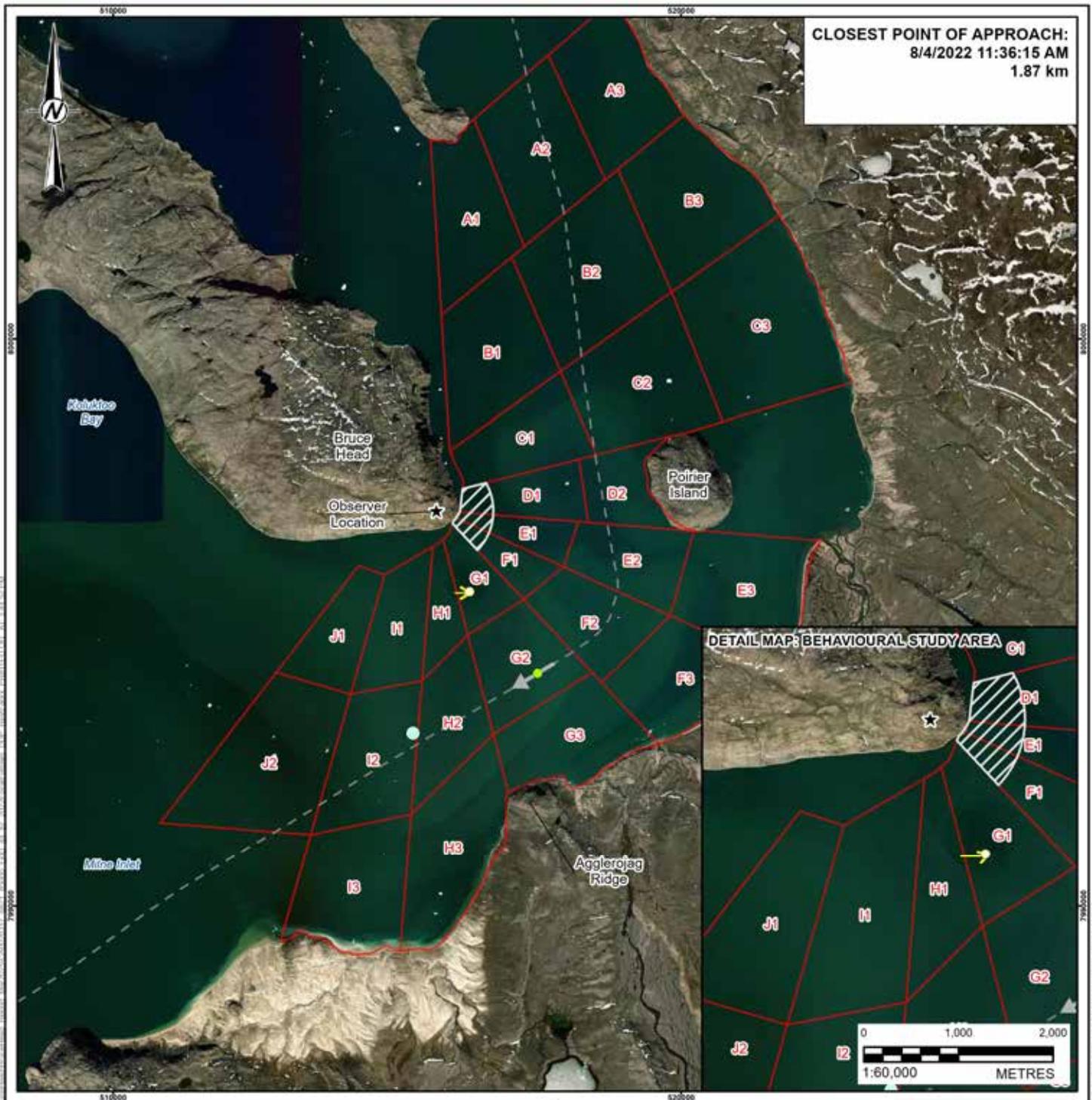
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CONTROL  
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REV.  
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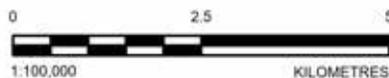
FIGURE  
D-52

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 33 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT  
MARY RIVER PROJECT

TITLE  
FOCAL FOLLOW 33 (2022) AND ACTIVE VESSEL TRANSIT

CONSULTANT



YYYY-MM-DD 2025-04-24

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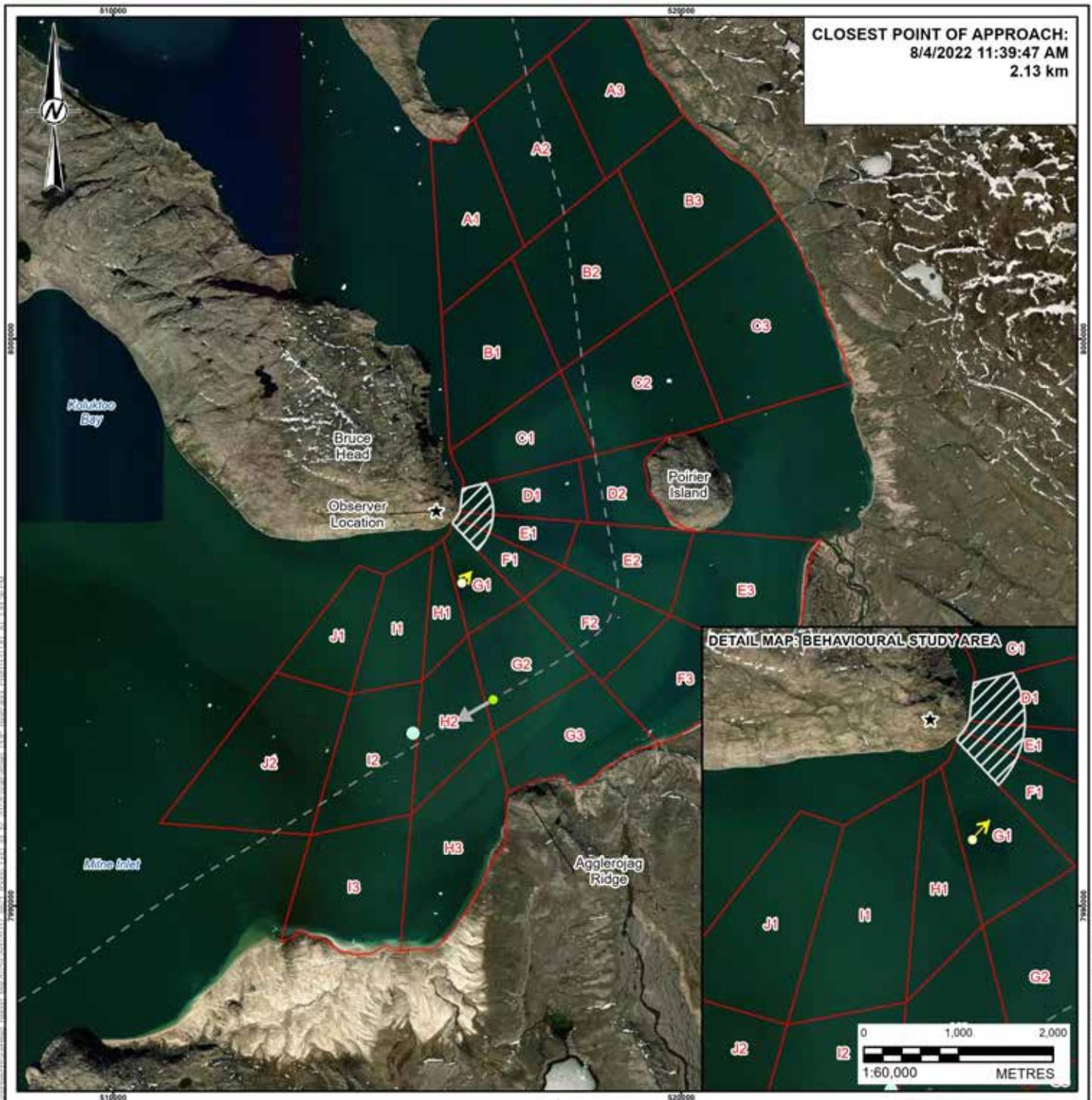
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

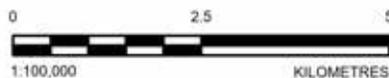
FIGURE  
D-53

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 34 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 34 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

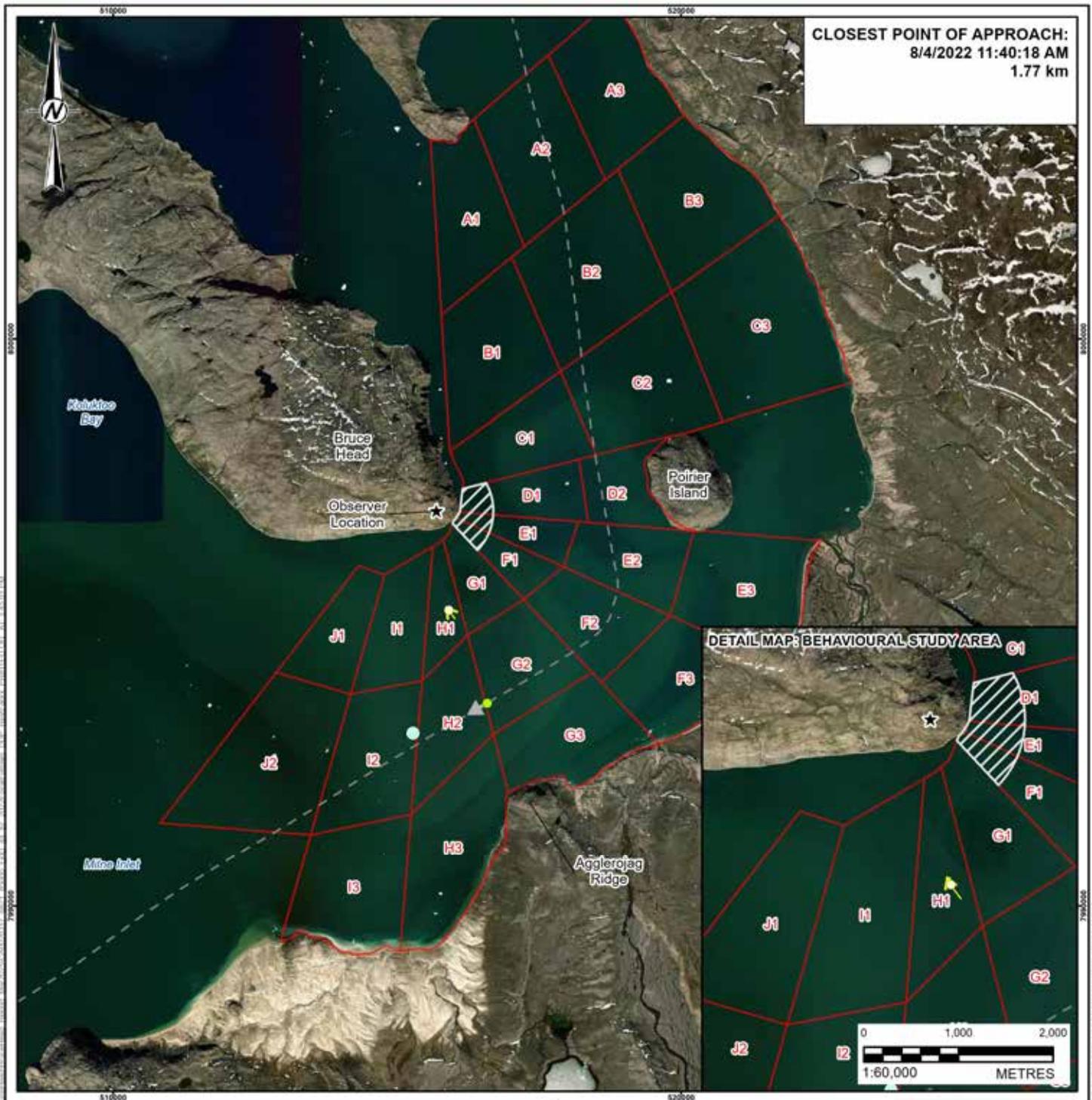
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

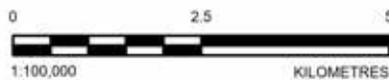
FIGURE  
D-54

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 35 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

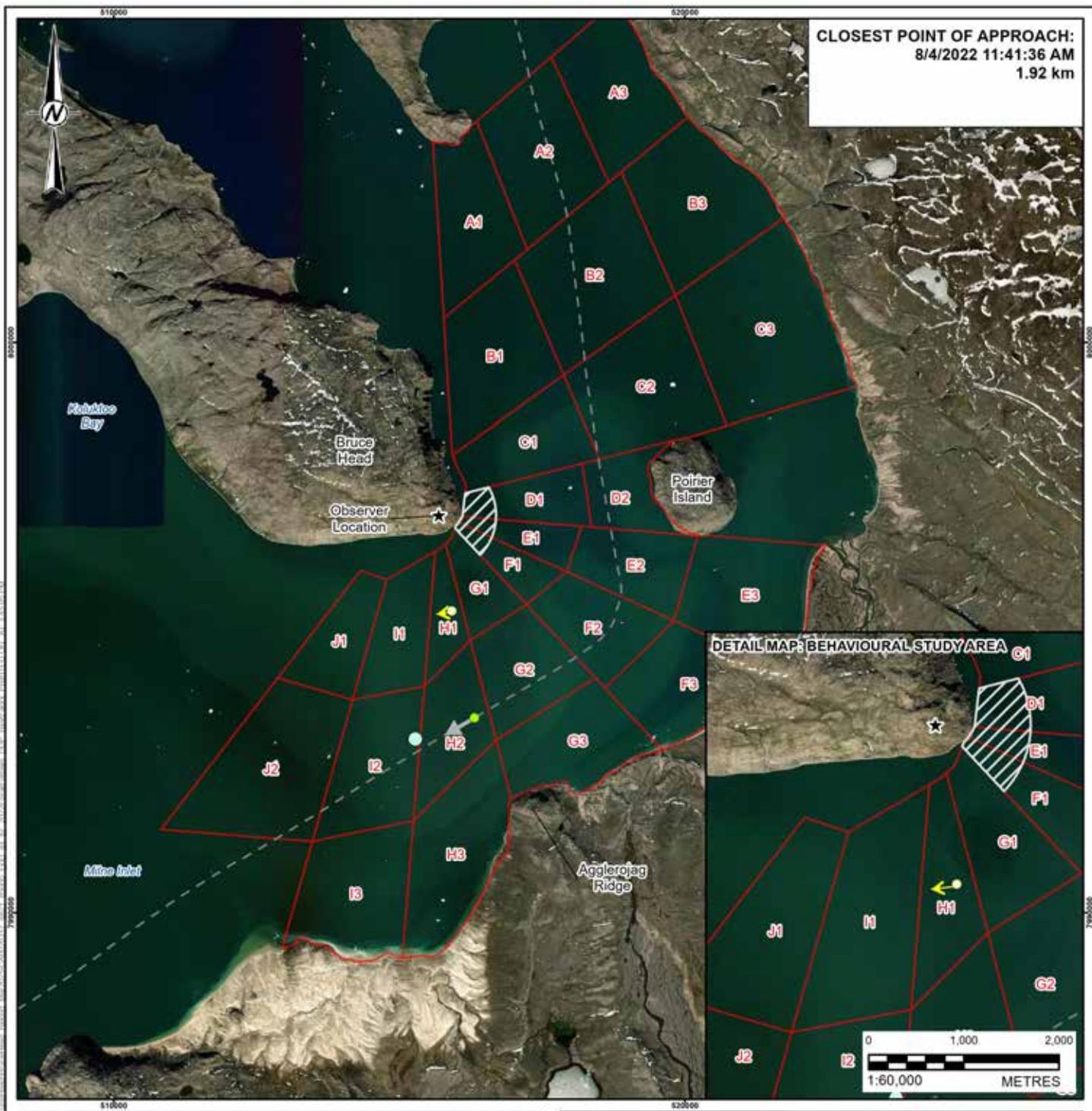
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 35 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT	YYYY-MM-DD	2025-04-24
	DESIGNED	SU
	PREPARED	AA
	REVIEWED	PA
	APPROVED	PA

PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-55

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 36 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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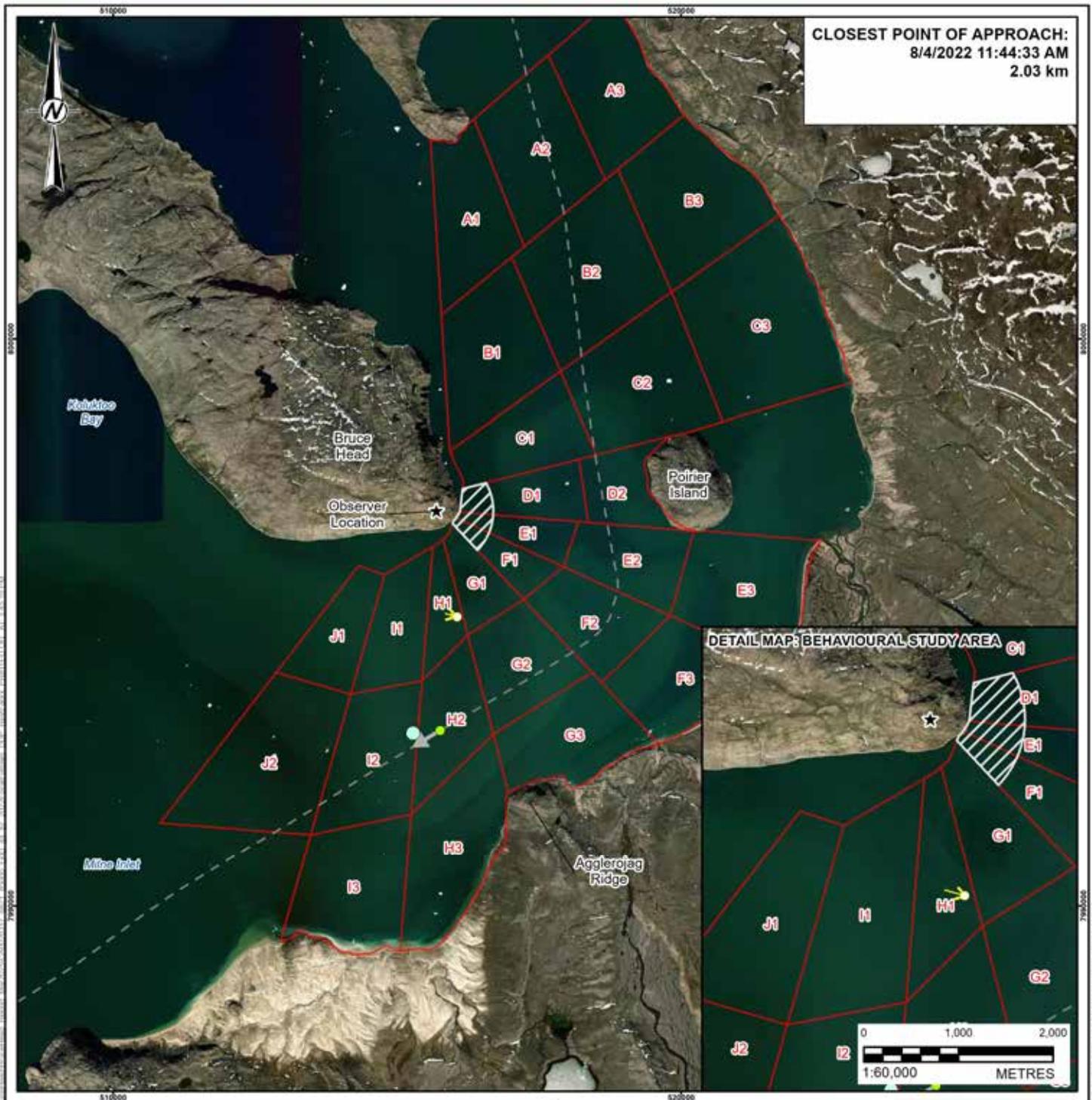
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 36 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT		YYYY-MM-DD	2025-04-24
		DESIGNED	SU
		PREPARED	AA
		REVIEWED	PA
		APPROVED	PA

PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-56

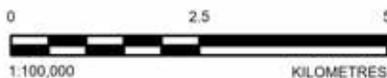
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE.



CLOSEST POINT OF APPROACH:  
8/4/2022 11:44:33 AM  
2.03 km

**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 37 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 37 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

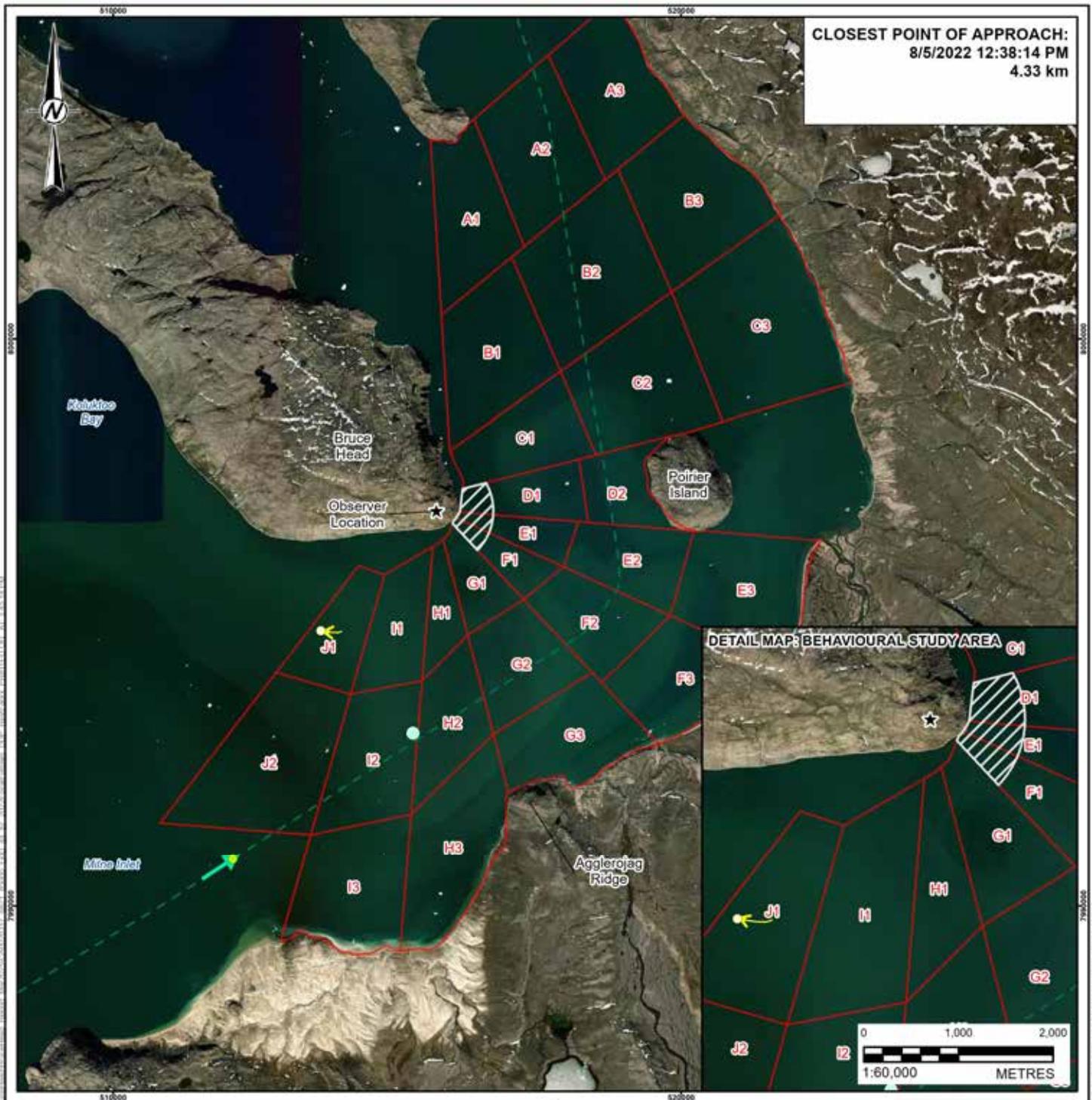
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

FIGURE  
D-57

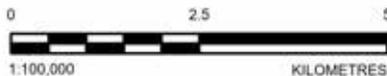
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE



CLOSEST POINT OF APPROACH:  
8/5/2022 12:38:14 PM  
4.33 km

**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 54 (2022)
- ACTIVE VESSEL TRANSIT (ARKADIA)
- - - NON-ACTIVE VESSEL TRANSIT (ARKADIA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 54 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

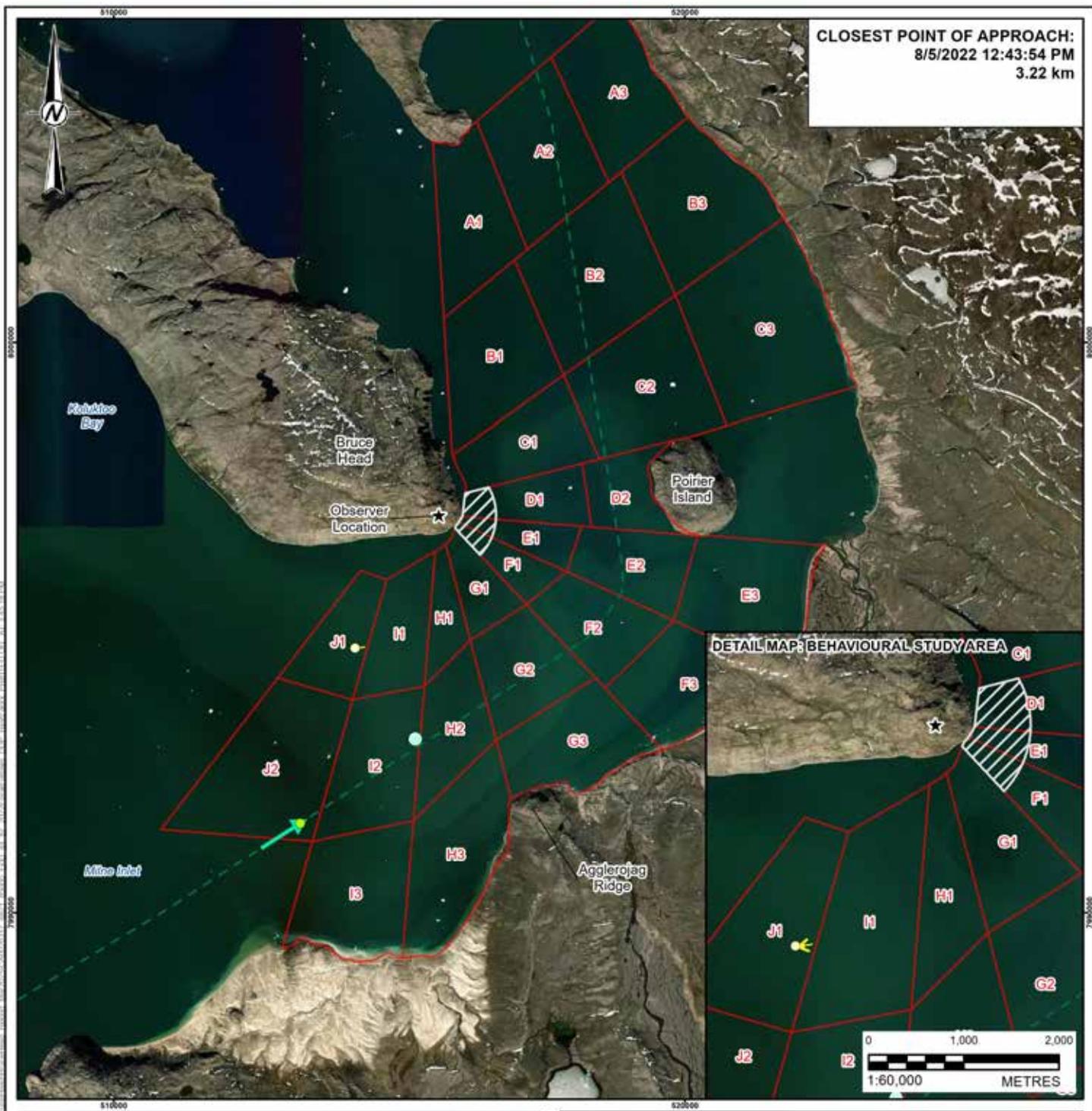
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

FIGURE  
D-58

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ANTRIA 25mm



CLOSEST POINT OF APPROACH:  
8/5/2022 12:43:54 PM  
3.22 km

**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 55 (2022)
- ACTIVE VESSEL TRANSIT (ARKADIA)
- NON-ACTIVE VESSEL TRANSIT (ARKADIA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

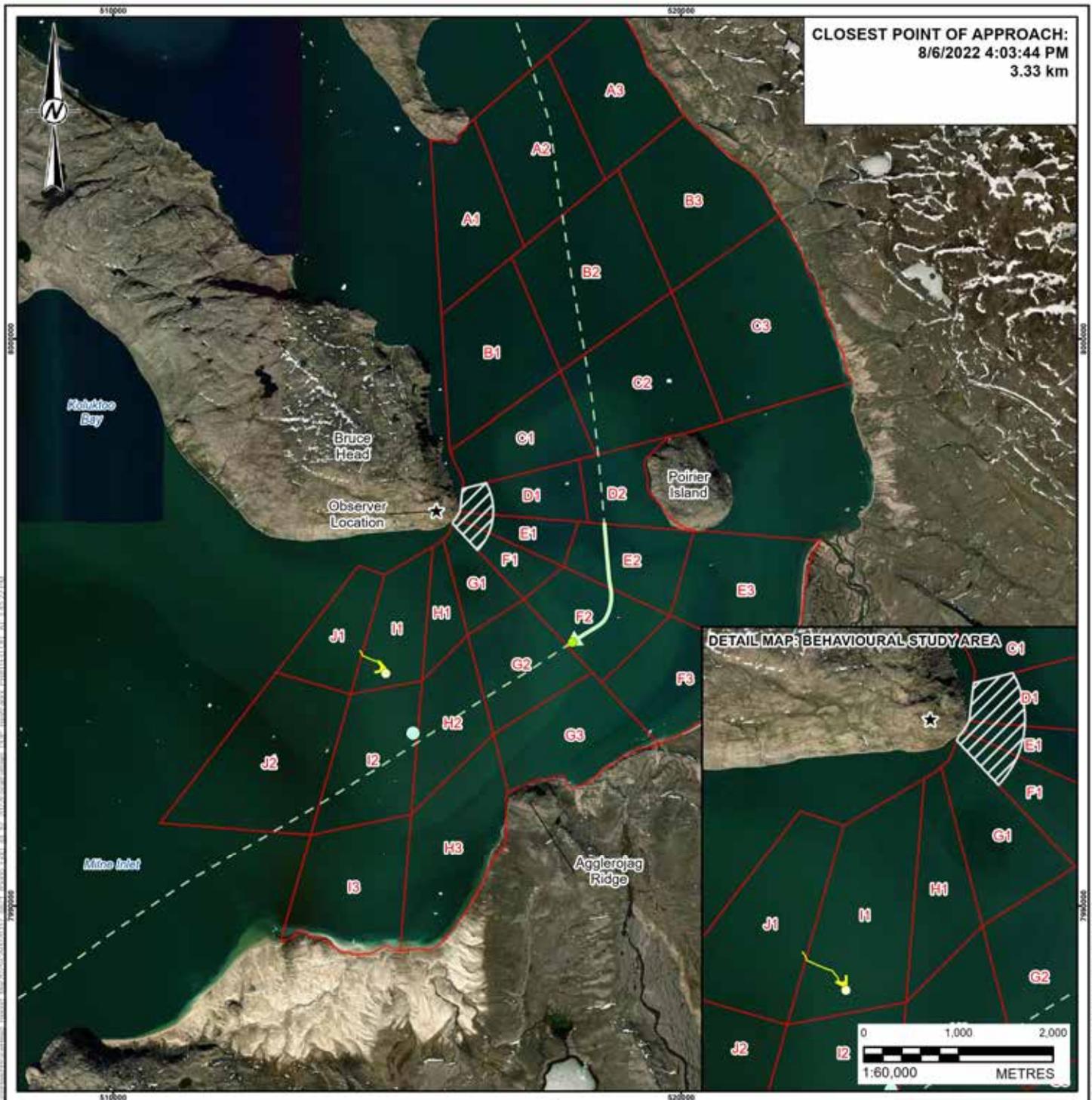
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 55 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT		YYYY-MM-DD	2025-04-24
		DESIGNED	SU
		PREPARED	AA
		REVIEWED	PA
		APPROVED	PA

PROJECT NO. CA0026317.6821      CONTROL 85000      REV. 0      FIGURE D-59

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 63 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC QINNGUA)
- NON-ACTIVE VESSEL TRANSIT (NORDIC QINNGUA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 63 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

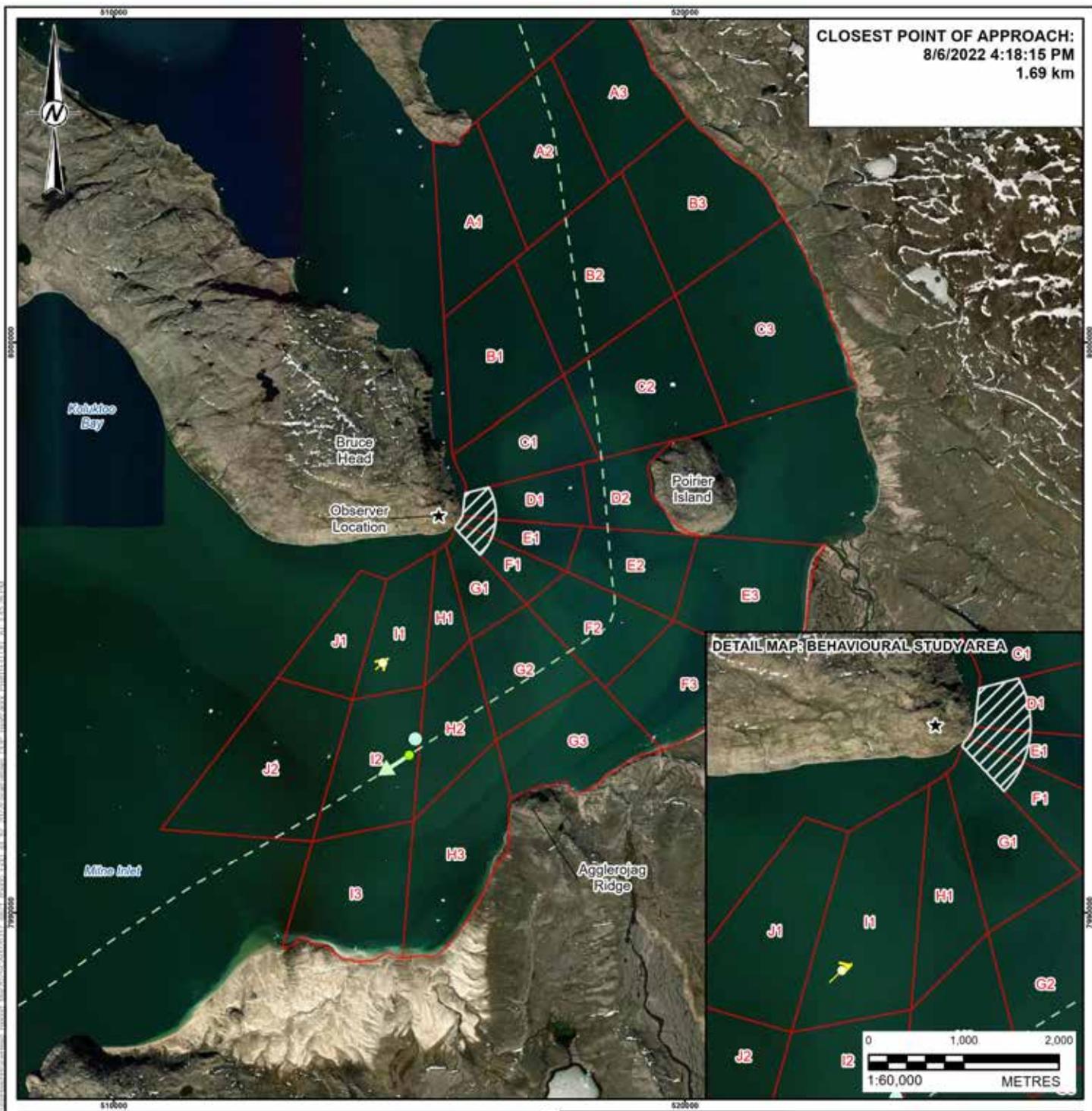
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

FIGURE  
D-60

If this measurement does not match what is shown, the sheet size has been modified from A3 to A4.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 64 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC QINNGUA)
- NON-ACTIVE VESSEL TRANSIT (NORDIC QINNGUA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

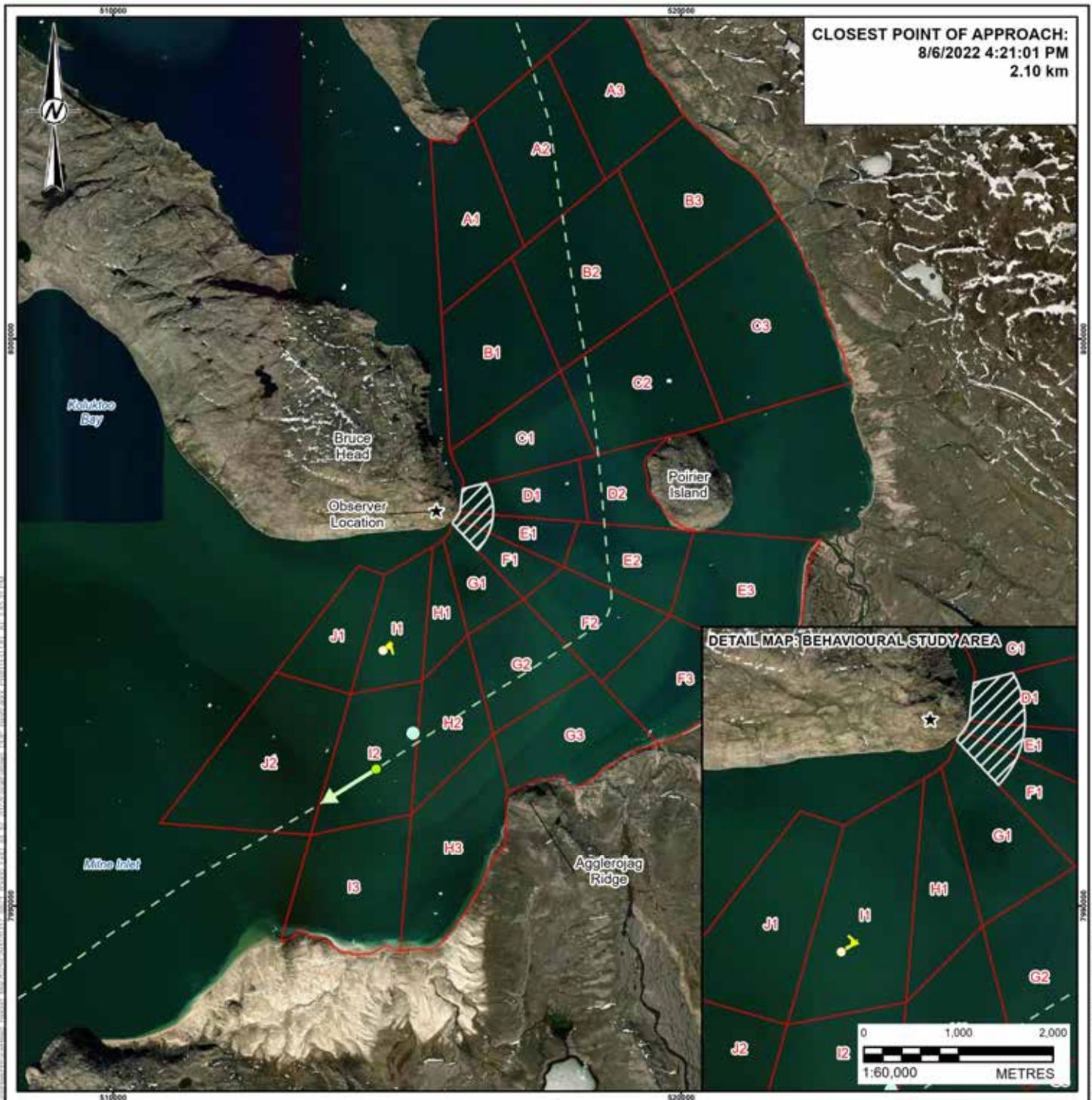
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 64 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT		YYYY-MM-DD	2025-04-24
		DESIGNED	SU
		PREPARED	AA
		REVIEWED	PA
		APPROVED	PA

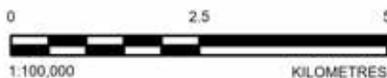
PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-61

If this measurement does not match what is shown, the sheet size has been modified from A784.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 65 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC QINNGUA)
- NON-ACTIVE VESSEL TRANSIT (NORDIC QINNGUA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 65 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

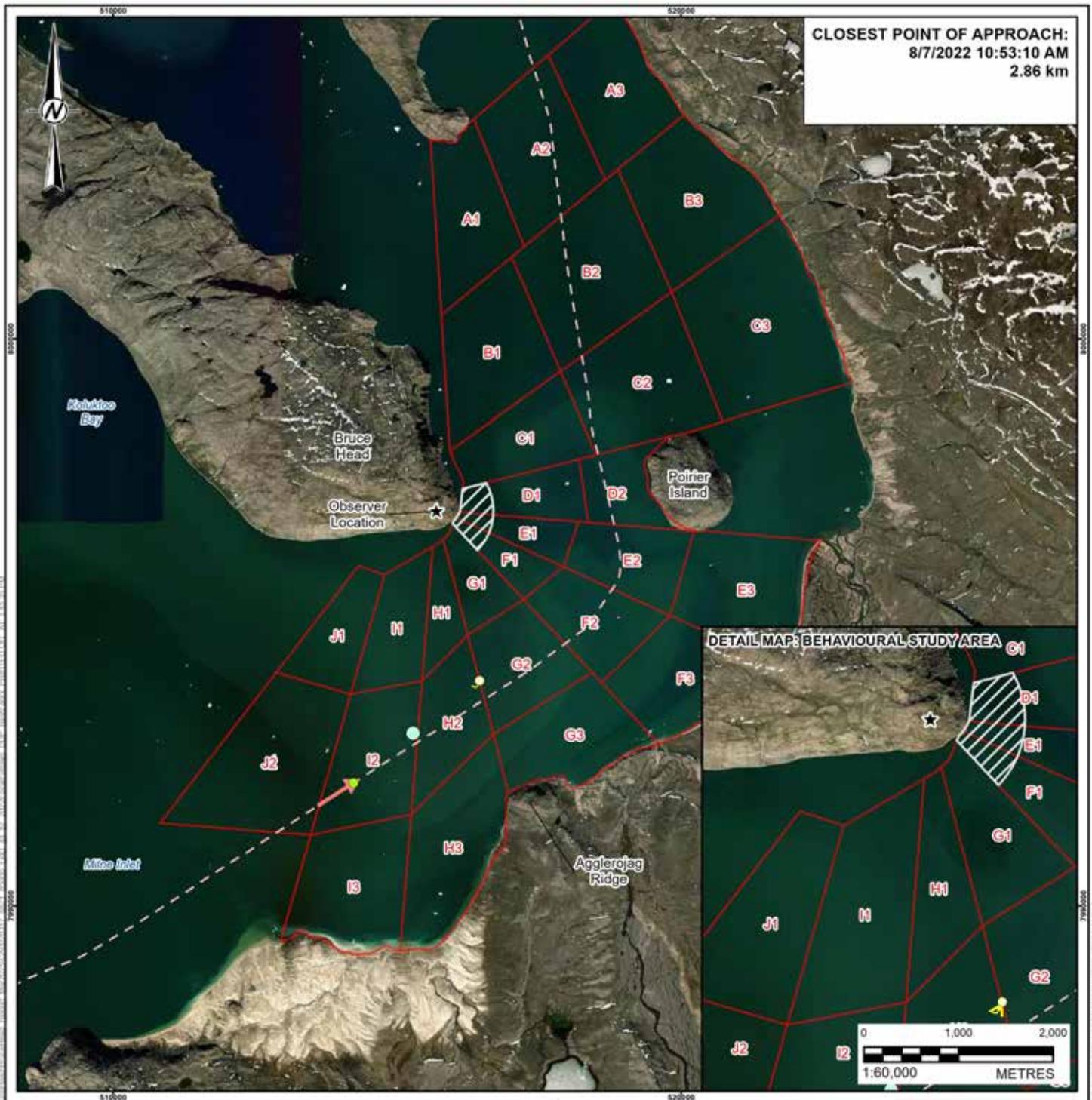
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

FIGURE  
D-62

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



CLOSEST POINT OF APPROACH:  
8/7/2022 10:53:10 AM  
2.86 km

**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 70 (2022)
- ACTIVE VESSEL TRANSIT (M.V.GOLDEN BRILLIANT)
- - - NON-ACTIVE VESSEL TRANSIT (M.V.GOLDEN BRILLIANT)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 70 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

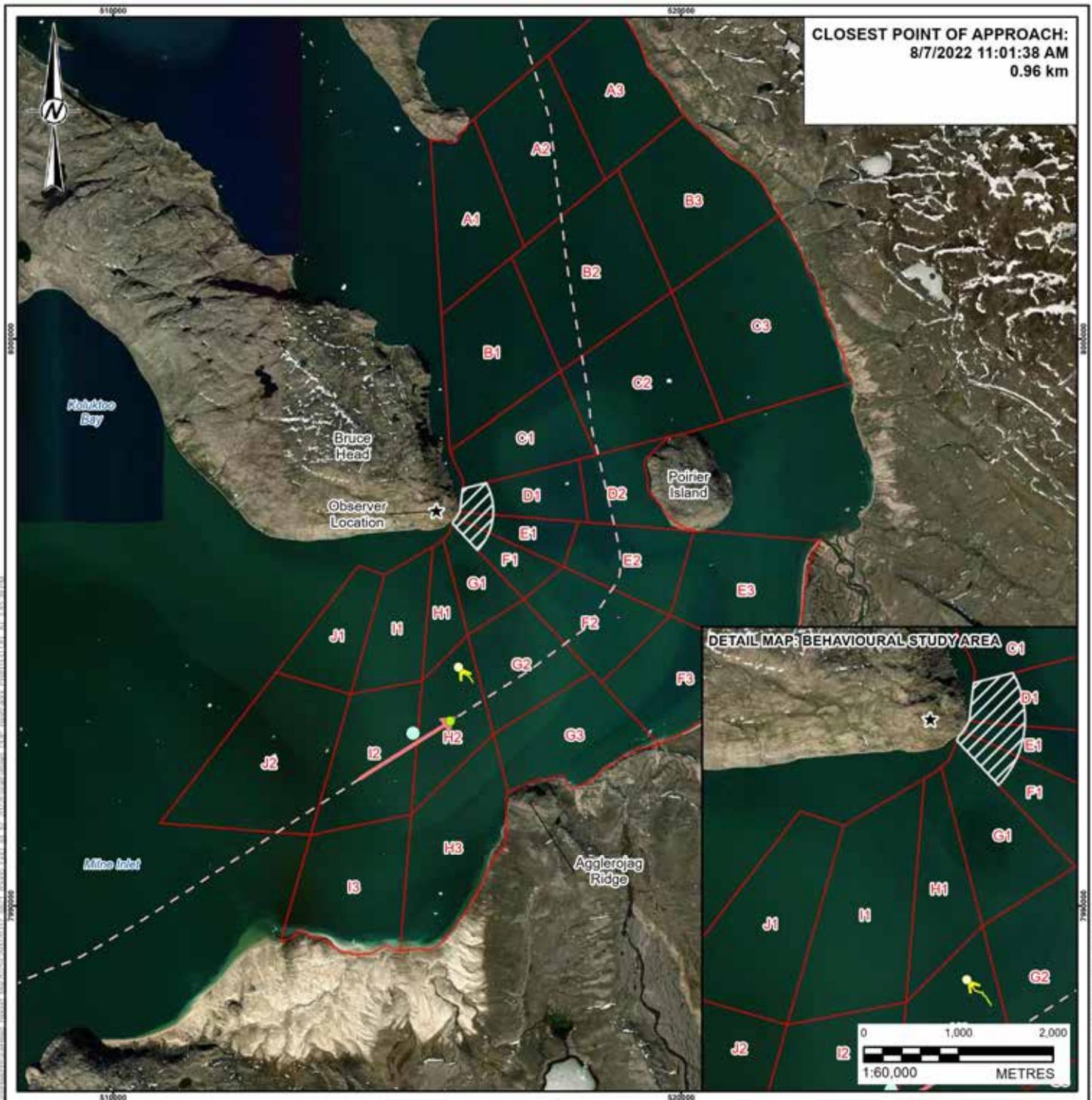
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

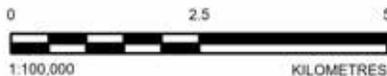
FIGURE  
D-63

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 71 (2022)
- ACTIVE VESSEL TRANSIT (M.V.GOLDEN BRILLIANT)
- - - NON-ACTIVE VESSEL TRANSIT (M.V.GOLDEN BRILLIANT)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 71 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

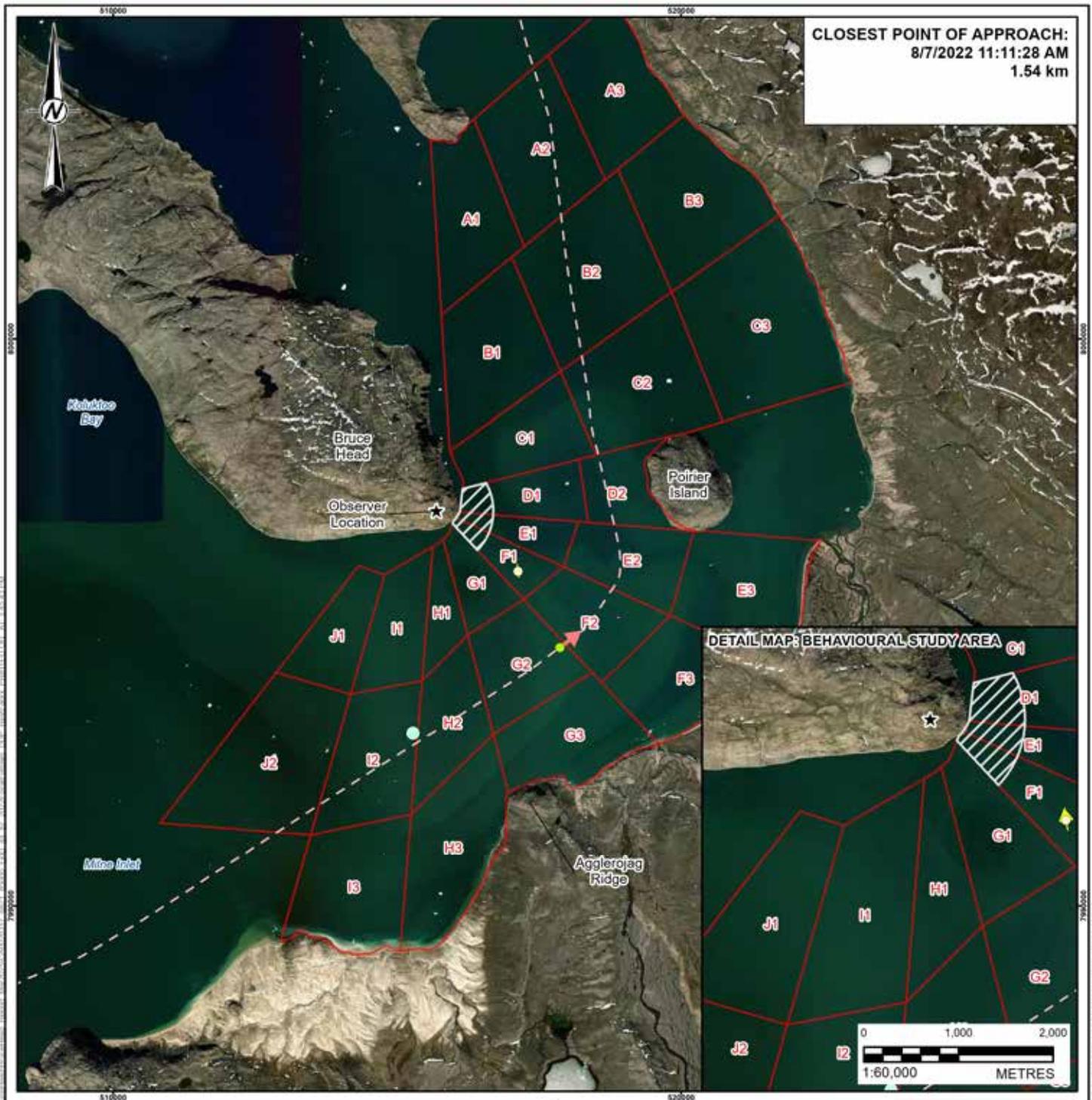
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

FIGURE  
D-64

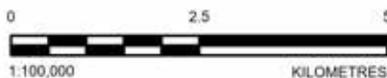
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM AFRICA 25m



CLOSEST POINT OF APPROACH:  
8/7/2022 11:11:28 AM  
1.54 km

**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 72 (2022)
- ACTIVE VESSEL TRANSIT (M.V.GOLDEN BRILLIANT)
- NON-ACTIVE VESSEL TRANSIT (M.V.GOLDEN BRILLIANT)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 72 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

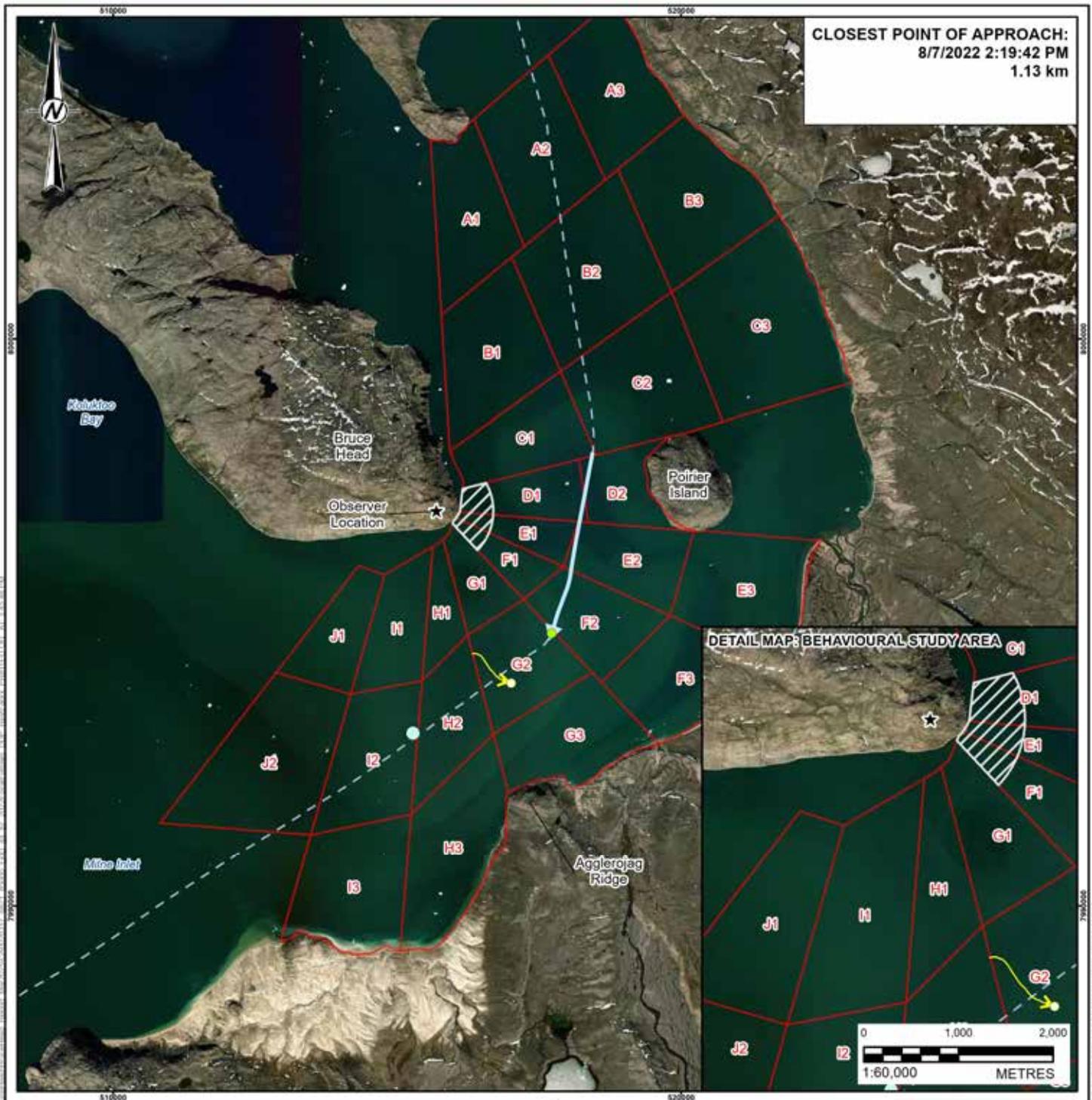
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

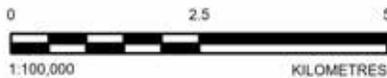
FIGURE  
D-65

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 74 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC ORION)
- NON-ACTIVE VESSEL TRANSIT (NORDIC ORION)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 74 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

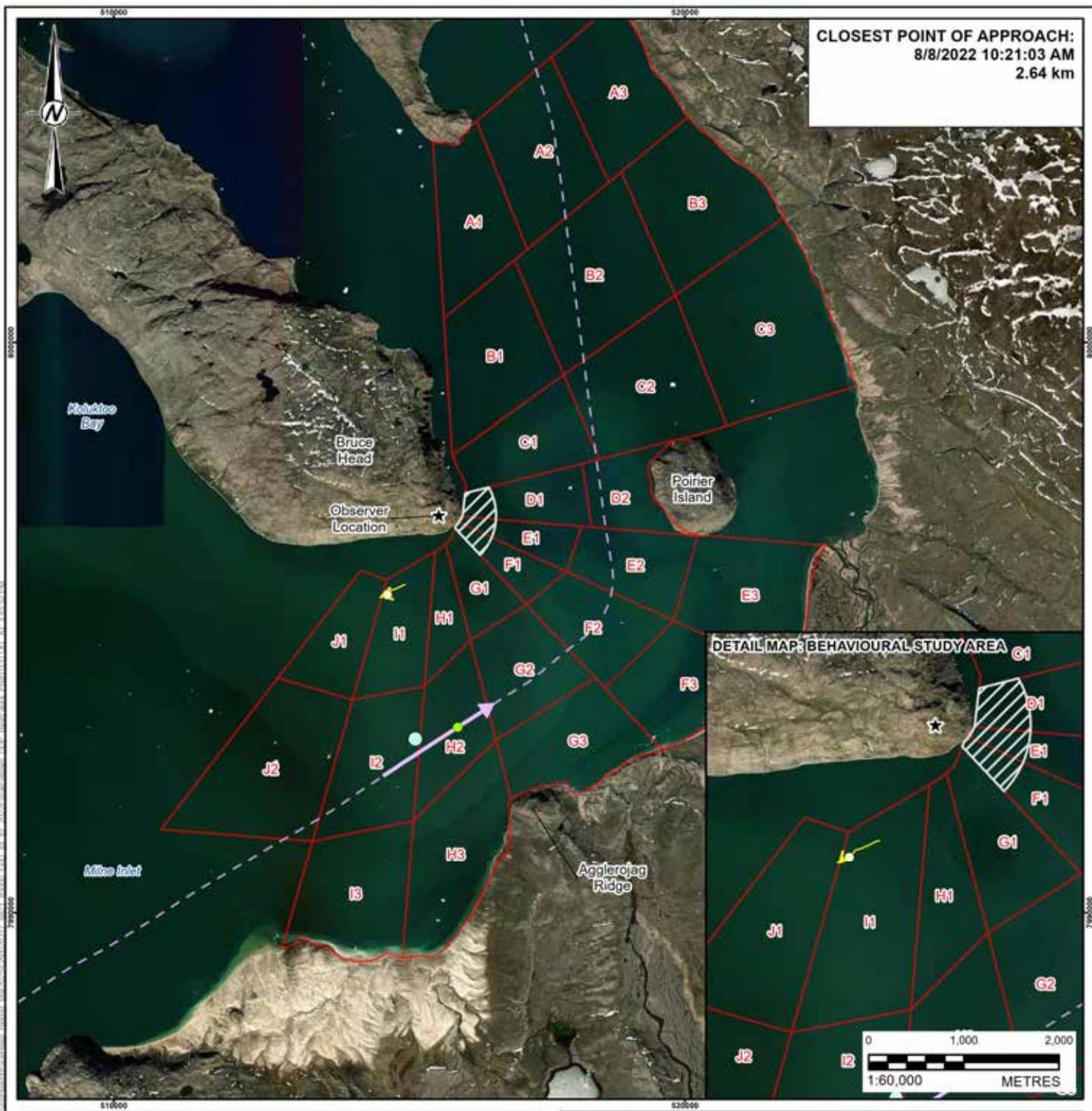
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

FIGURE  
D-66

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE.



CLOSEST POINT OF APPROACH:  
8/8/2022 10:21:03 AM  
2.64 km

**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 78 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC ODYSSEY)
- NON-ACTIVE VESSEL TRANSIT (NORDIC ODYSSEY)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

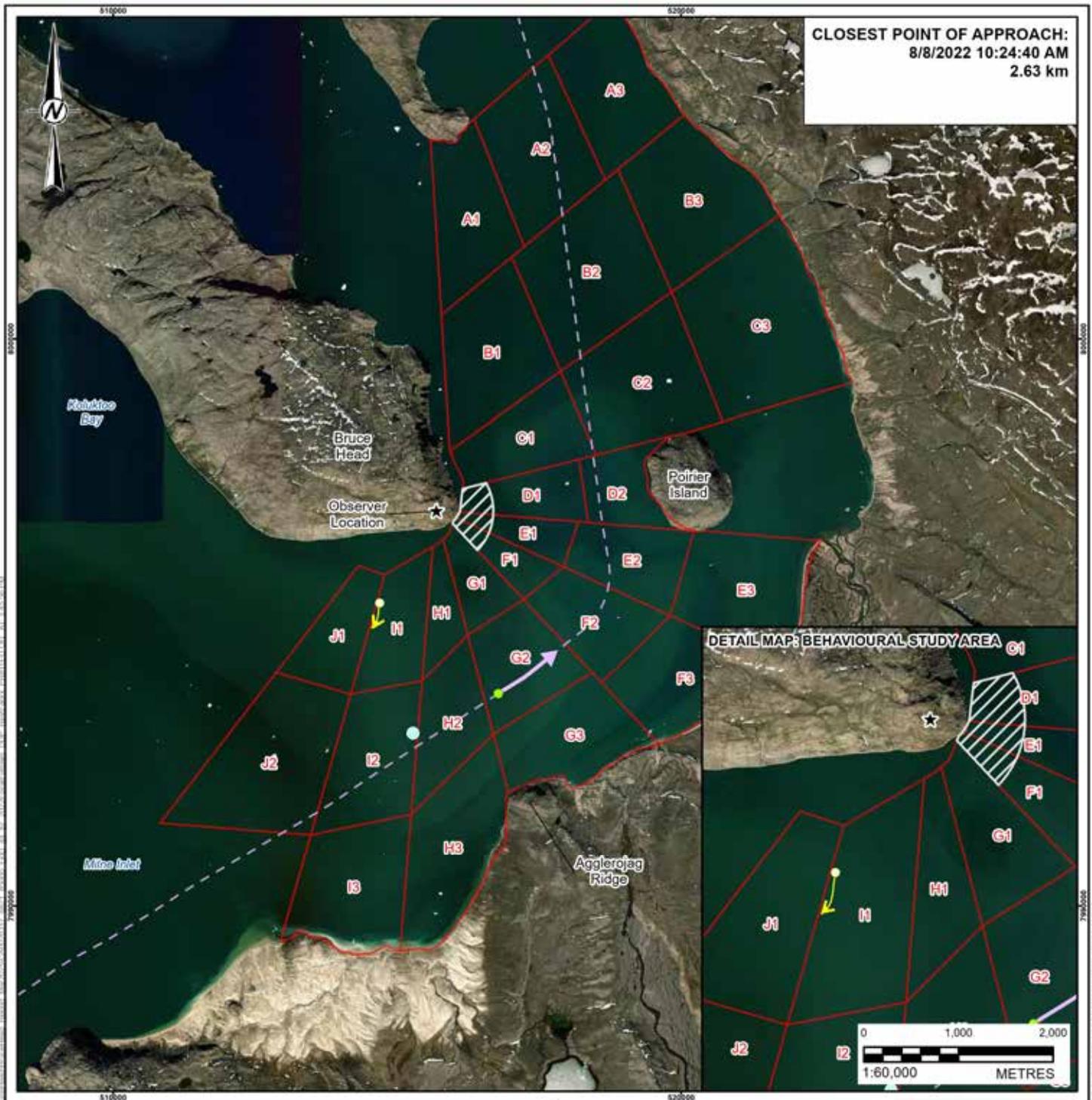
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 78 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT		YYYY-MM-DD	2025-04-24
		DESIGNED	SU
		PREPARED	AA
		REVIEWED	PA
		APPROVED	PA

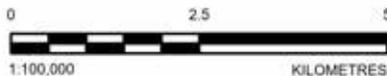
PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-67

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 79 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC ODYSSEY)
- NON-ACTIVE VESSEL TRANSIT (NORDIC ODYSSEY)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
BAFFINLAND IRON MINES CORPORATION

PROJECT  
MARY RIVER PROJECT

TITLE  
FOCAL FOLLOW 79 (2022) AND ACTIVE VESSEL TRANSIT

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

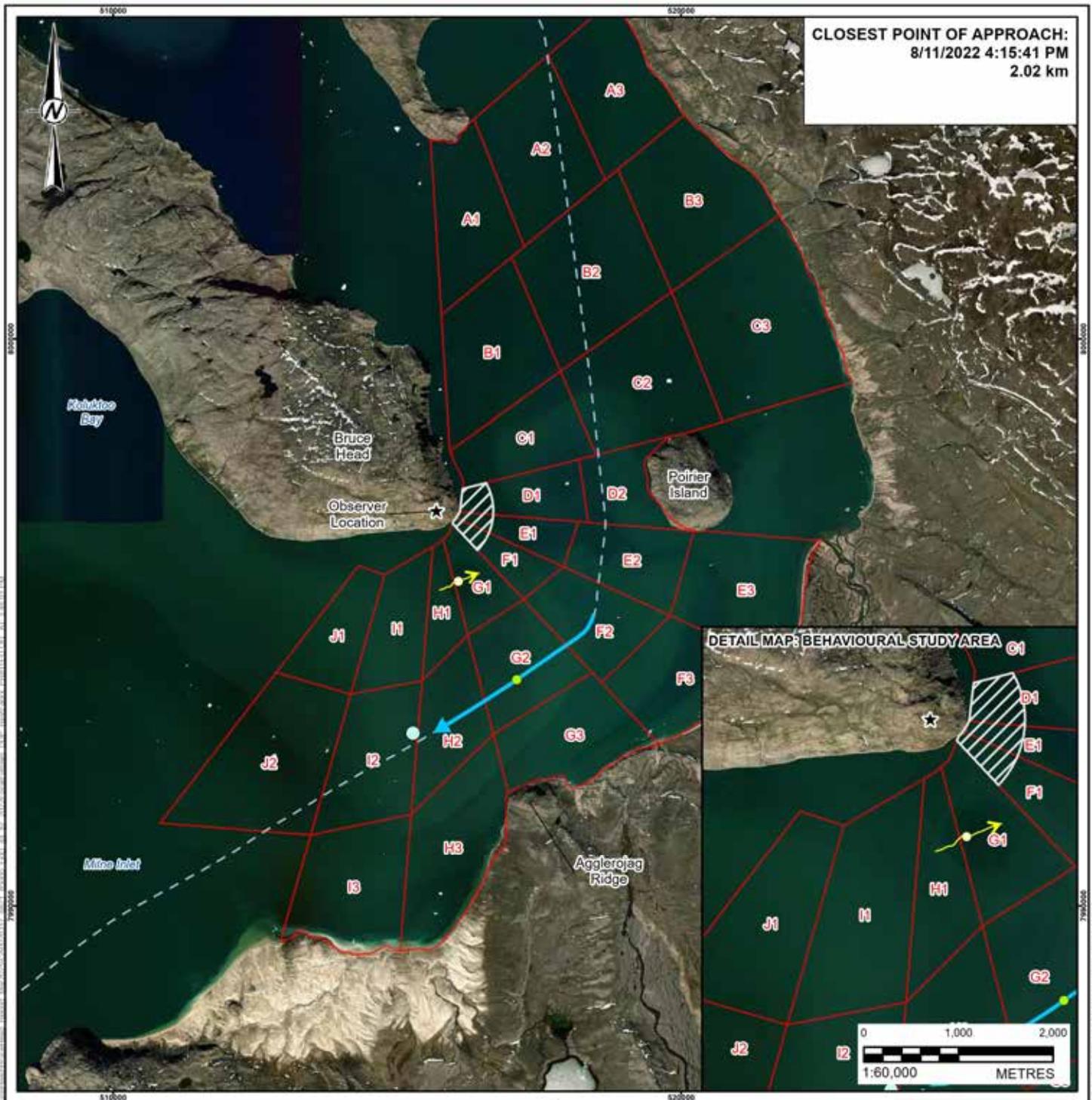
PROJECT NO.  
CA0026317.6821

CONTROL  
85000

REV.  
0

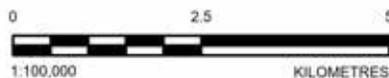
FIGURE  
D-68

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 98 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN SUEK)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN SUEK)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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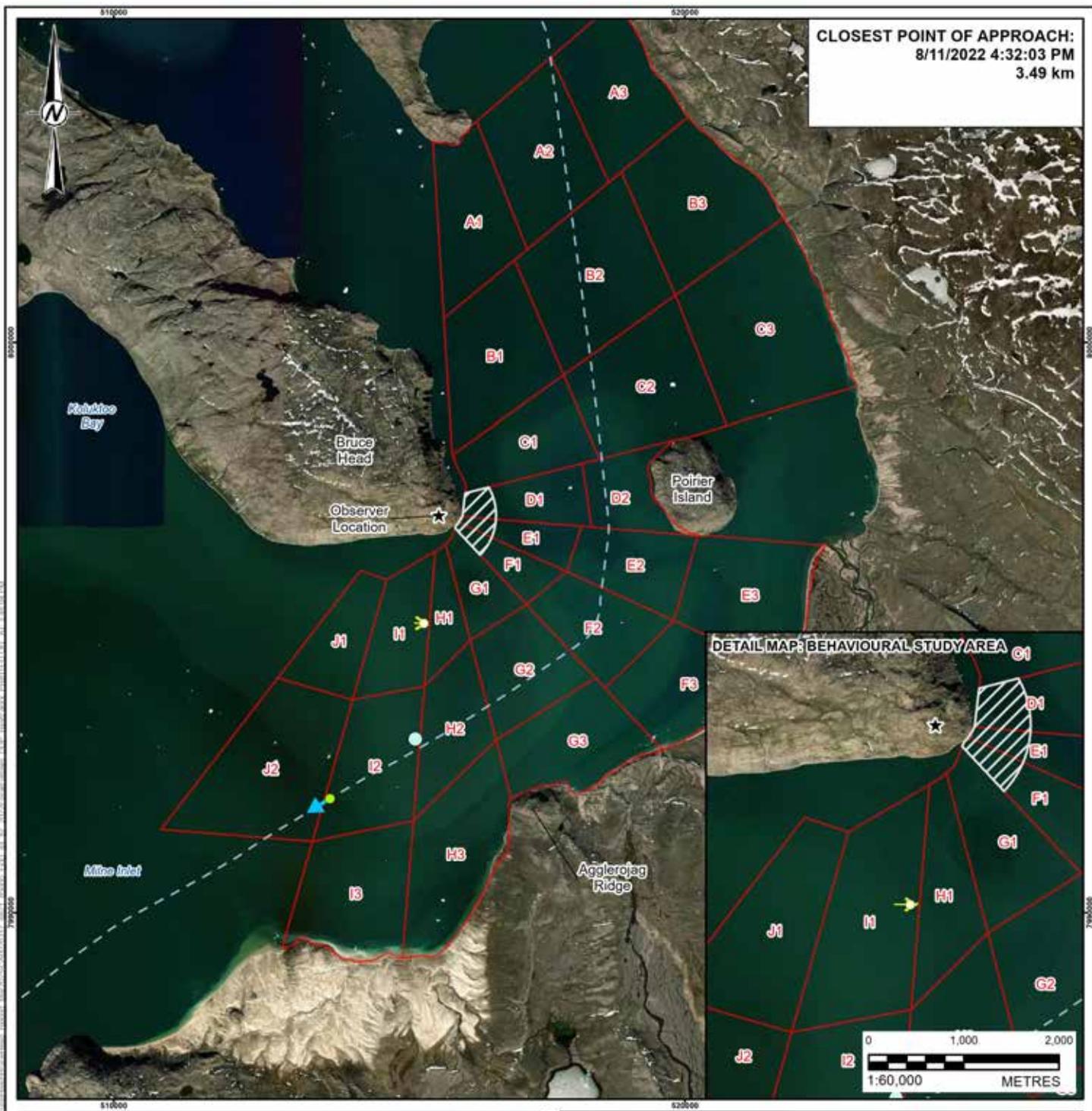
PROJECT  
MARY RIVER PROJECT

TITLE  
FOCAL FOLLOW 98 (2022) AND ACTIVE VESSEL TRANSIT

CONSULTANT	WSP	YYYY-MM-DD	2025-04-24
DESIGNED	SU	REVIEWED	PA
PREPARED	AA	APPROVED	PA

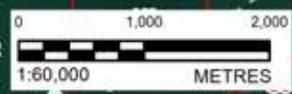
PROJECT NO. CA0026317.6821 CONTROL 85000 REV. 0 FIGURE D-69

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE.



CLOSEST POINT OF APPROACH:  
8/11/2022 4:32:03 PM  
3.49 km

DETAIL MAP: BEHAVIOURAL STUDY AREA



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 99 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN SUEK)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN SUEK)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

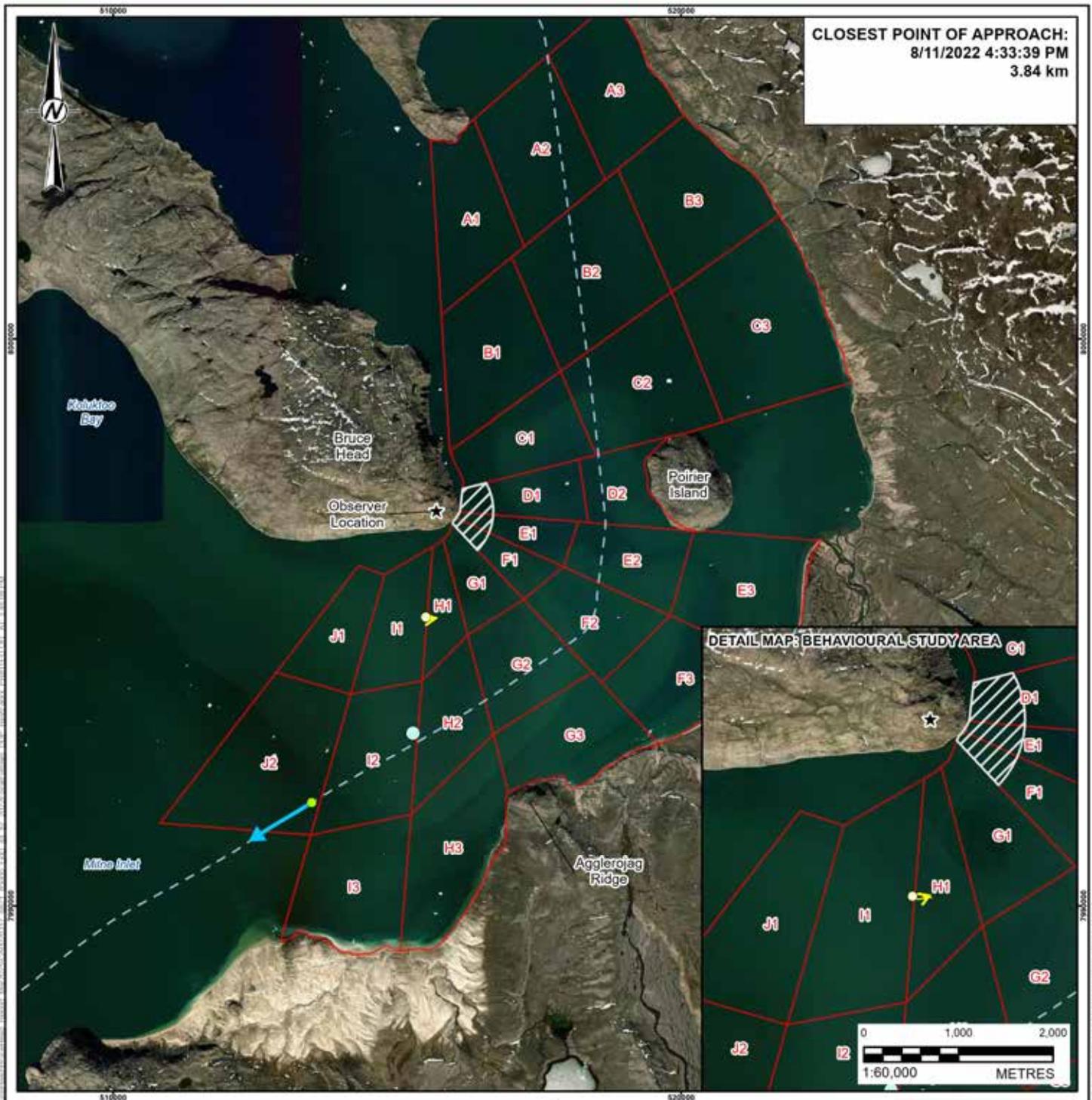
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 99 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT	YYYY-MM-DD	2025-04-24
	DESIGNED	SU
	PREPARED	AA
	REVIEWED	PA
	APPROVED	PA

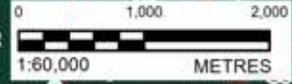
PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-70

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



CLOSEST POINT OF APPROACH:  
8/11/2022 4:33:39 PM  
3.84 km

DETAIL MAP: BEHAVIOURAL STUDY AREA



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 100 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN SUEK)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN SUEK)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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**BAFFINLAND IRON MINES CORPORATION**

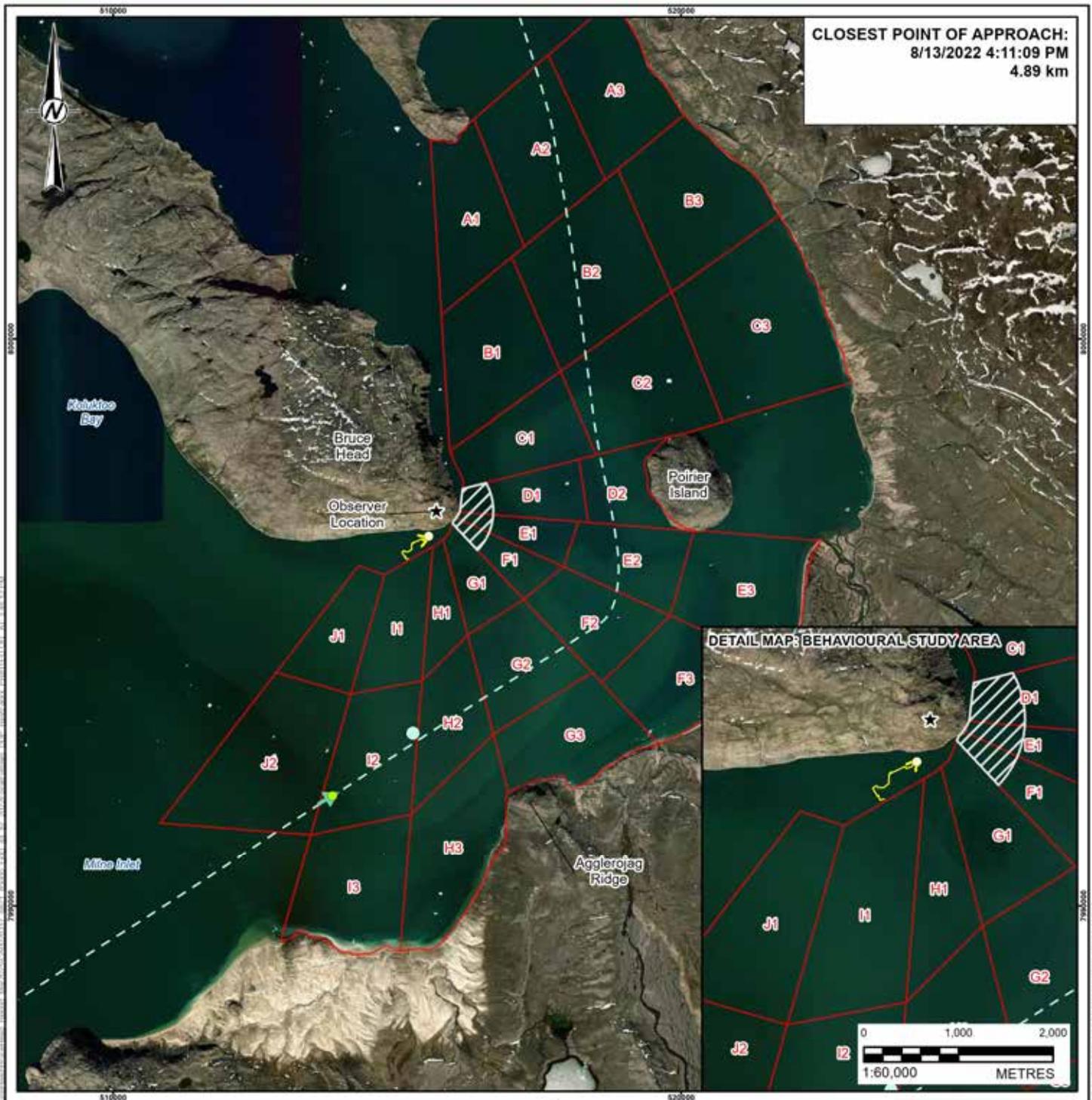
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 100 (2022) AND ACTIVE VESSEL TRANSIT**

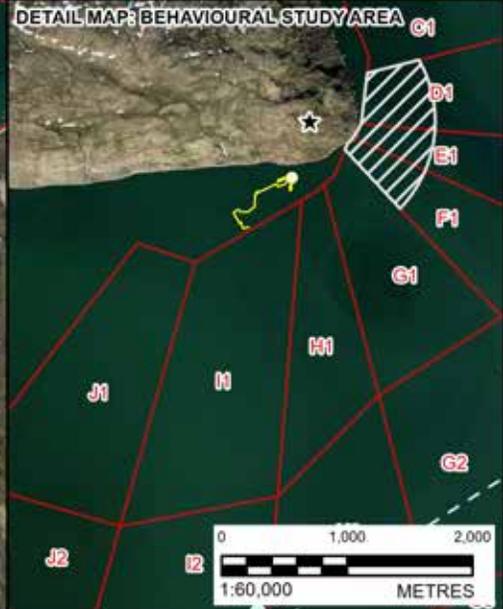
CONSULTANT		YYYY-MM-DD	2025-04-24
		DESIGNED	SU
		PREPARED	AA
		REVIEWED	PA
		APPROVED	PA

PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-71

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE



CLOSEST POINT OF APPROACH:  
8/13/2022 4:11:09 PM  
4.89 km



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 107 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC NULUJAAK)
- NON-ACTIVE VESSEL TRANSIT (NORDIC NULUJAAK)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

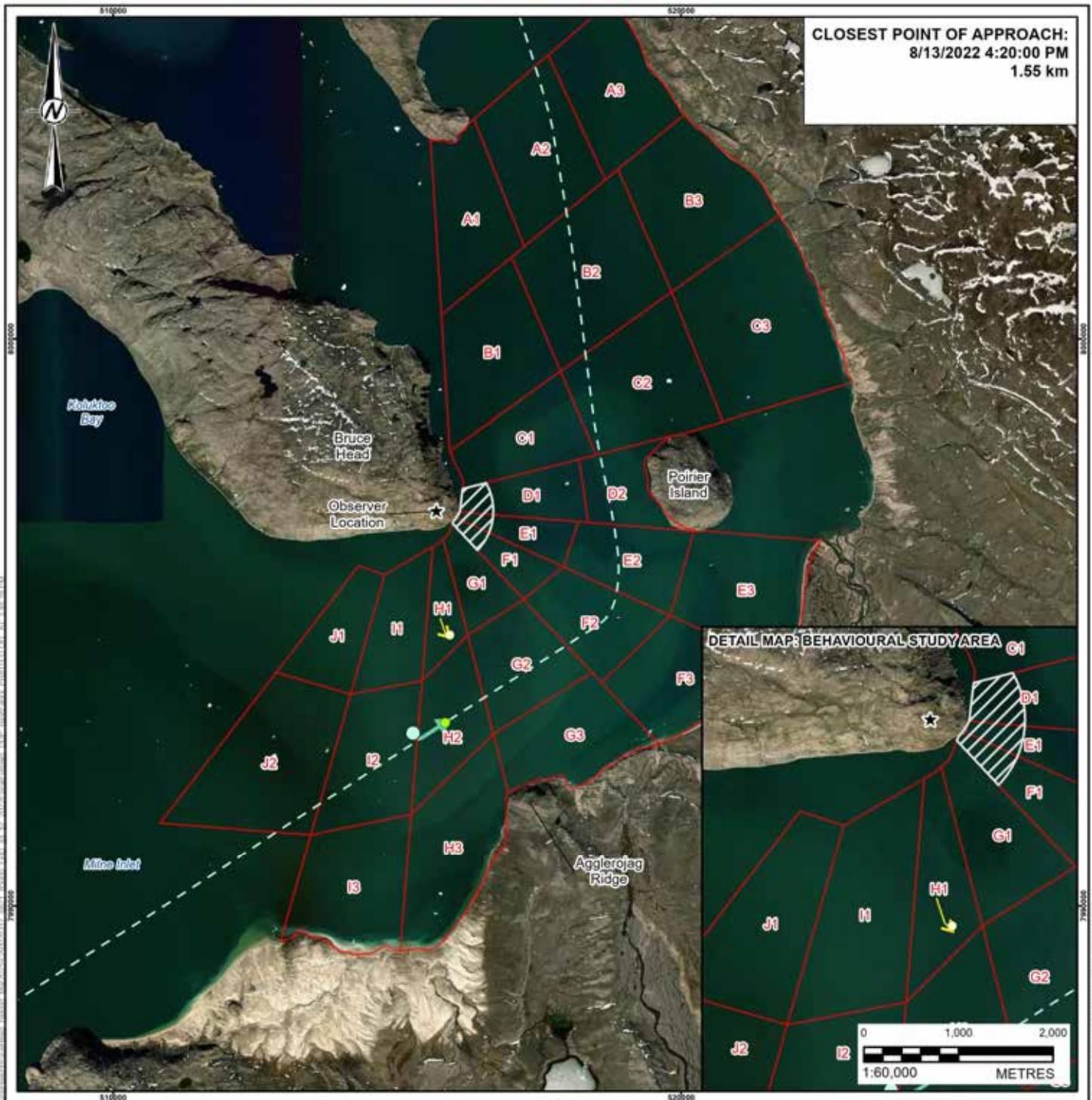
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 107 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT		YYYY-MM-DD	2025-04-24
		DESIGNED	SU
		PREPARED	AA
		REVIEWED	PA
		APPROVED	PA

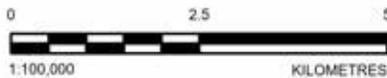
PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-72

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.



**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 108 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC NULUJJAAK)
- NON-ACTIVE VESSEL TRANSIT (NORDIC NULUJJAAK)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

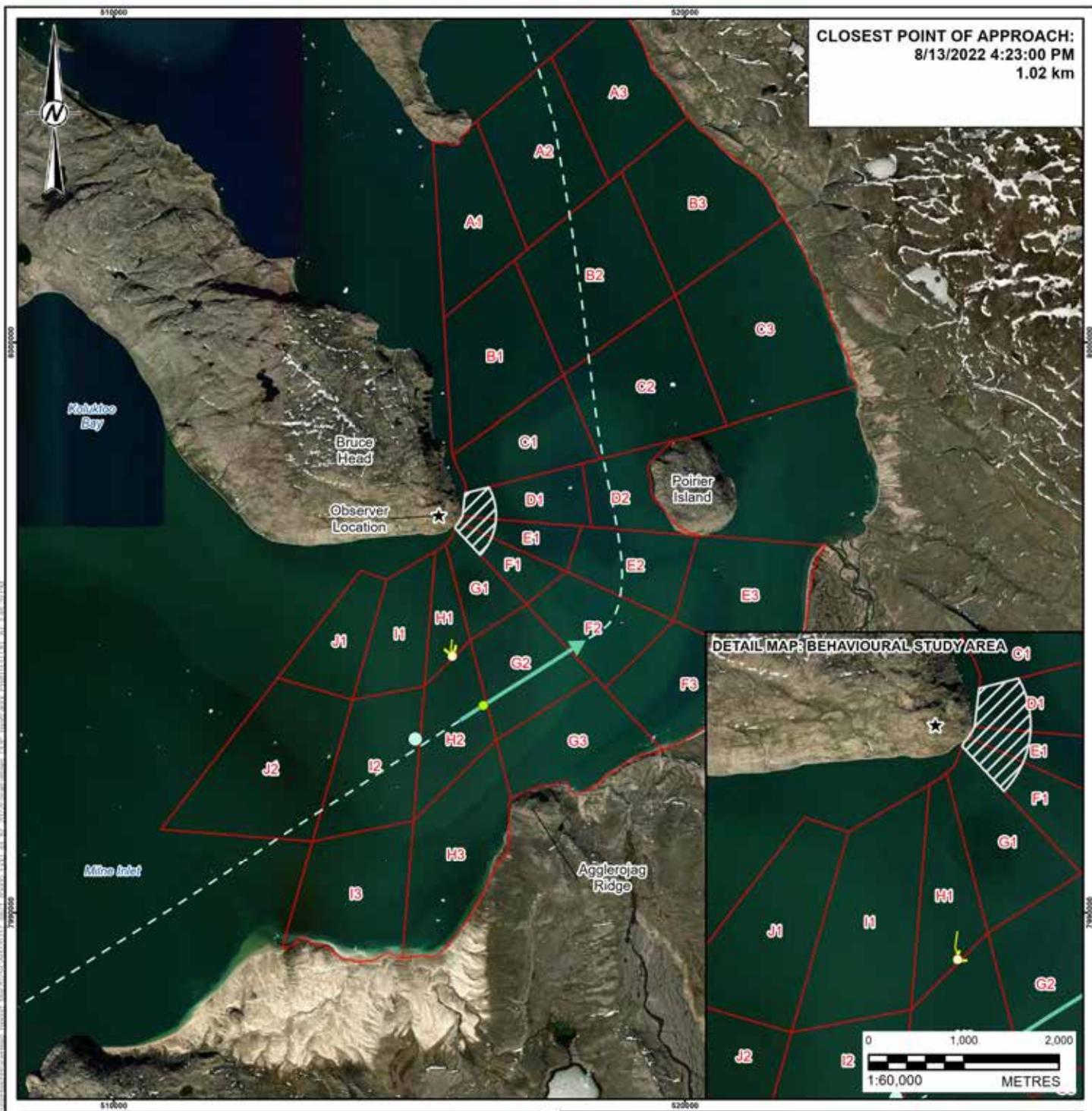
PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 108 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT			YYYY-MM-DD	2025-04-24
DESIGNED			SU	
PREPARED			AA	
REVIEWED			PA	
APPROVED			PA	

PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-73

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN ADJUSTED FROM ABOVE



CLOSEST POINT OF APPROACH:  
8/13/2022 4:23:00 PM  
1.02 km

**LEGEND**

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- OBSERVER LOCATION
- FOCAL FOLLOW TRACK 109(2022)
- ACTIVE VESSEL TRANSIT (NORDIC NULUJJAAK)
- NON-ACTIVE VESSEL TRANSIT (NORDIC NULUJJAAK)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



**REFERENCE(S)**

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT  
**BAFFINLAND IRON MINES CORPORATION**

PROJECT  
**MARY RIVER PROJECT**

TITLE  
**FOCAL FOLLOW 109 (2022) AND ACTIVE VESSEL TRANSIT**

CONSULTANT		YYYY-MM-DD	2025-04-24
		DESIGNED	SU
		PREPARED	AA
		REVIEWED	PA
		APPROVED	PA

PROJECT NO.	CONTROL	REV.	FIGURE
CA0026317.6821	85000	0	D-74

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SCALE HAS BEEN MODIFIED FROM ABOVE.