AR-011b
AR-011a
AR-010a
AR-009a
AR-008
AR-007
AR-006
AR-005a
AR-004
AR-003a
AR-002a
AR-001a
STEENSBY INLET
STEENSBY PORT
SCALE 500 250 0 500 1,000 1,500 Metres

LEGEND:

ACCESS ROAD CROSSING SURVEY YEAR
- 2007
- 2008
- 2010
- STREAM CROSSING
- FISH BARRIER (CONFIRMED)
- FISH BARRIER (AERIAL PHOTO INTERPRETATION)
- CONTOUR
- MILNE INLET TOTE ROAD (EXISTING)
- RAILWAY ALIGNMENT (PROPOSED)
- CONSTRUCTION ACCESS ROAD (PROPOSED)
- WATER
- INFRASTRUCTURE

NOTES:

1. BASE MAP 1:50,000 © HER MAJESTY THE QUEEN IN RIGHTS OF CANADA DEPARTMENT OF NATURAL RESOURCES (2009.) ALL RIGHTS RESERVED.
2. TOPOGRAPHY PROVIDED BY EAGLE MAPPING (2005).
3. PROPOSED RAILWAY ALIGNMENT PROVIDED BY CANRAIL CONSULTANTS INC.
4. PROPOSED RAILWAY CONSTRUCTION ACCESS ROAD ALIGNMENT PROVIDED BY CANRAIL CONSULTANTS INC. DRAWING NO.: RAILWAY ALIGNMENT AND CONST ACCESS RD - MARY RIVER STEENSBY 2010 -12AUG2010.DWG
5. LOCATION OF PROPOSED INFRASTRUCTURE IS APPROXIMATE AND SUBJECT TO FIELD ADJUSTEMENTS
6. CONTOUR INTERVAL IS 25 AND IS IN METRES.

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

Access Road Stream Crossing Sites (MAP K)

North/South Consultants Inc.
Aquatic Environment Specialists

P/A NO.: -
REF NO.: -
DATE: 19/11/2010
REV: 2

Path: G:\MARYRIV_GDB\EIS_GDB\EIS_Figures_2010EIS_Figures\MXD\Synthesis_RailLine_AccessRoad\Rev2Apdx\20101119_ApdxAR_sg.mxd

Rail Alignment Watercourse Crossing Assessment

Location

Crossing ID: AR-011a
UTM Coordinates: 17 W 600316 7812164
Date/Time Surveyed: 26-Aug-10

General Physical Characteristics

Floodplain Width (m):	N/M	**Channel Pattern:**	N/M	**Stage:**	N/A
Channel Confinement:	N/M	**Channel Gradient (range):**	N/M	**Flow Regime:**	INT
Bank Height (range in m):	N/M	**Bank Shape:**	N/M	**T_W (°C):**	N/M

Hydrology & Habitat Characteristics

N/M

Fisheries Information

Electrofishing Conducted:	N	**Effort (min):**	N/A	**Electrofisher Settings:**	N/A

Fish Habitat Potential

Species	Spawning	Overwintering	Rearing	Migration Corridor
ARCH	No	No	No	No
NNST	No	No	No	No

Comments & Summary

Saturated wetted connection between two shallow waterbodies (each < 3 m deep) that are unlikely to support fish.

Baffinland Iron Mines
Mary River Project

North/South Consultants Inc.
Aquatic Environment Specialists

Fish Habitat Quality – NO FISH HABITAT

Rail Alignment Watercourse Crossing Assessment

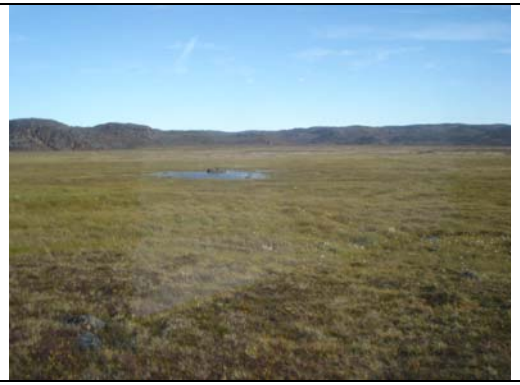
Location

Crossing ID: AR-011a
UTM Coordinates: 17 W 600316 7812164

Date/Time Surveyed: 26-Aug-10

Photographs

A



B

C

Figure 1. View of crossing area (A), view upstream of crossing (B), view downstream of crossing (C).

Rail Alignment Watercourse Crossing Assessment

Location

Crossing ID: AR-010a
UTM Coordinates: 17 W 599526 7811586
Date/Time Surveyed: 26-Aug-10

General Physical Characteristics

Floodplain Width (m):	N/M	**Channel Pattern:**	N/M	**Stage:**	N/A
Channel Confinement:	N/M	**Channel Gradient (range):**	N/M	**Flow Regime:**	EPH
Bank Height (range in m):	N/M	**Bank Shape:**	N/M	**T_W (°C):**	N/M

Hydrology & Habitat Characteristics

N/M

Fisheries Information

Electrofishing Conducted:	N	**Effort (min):**	N/A	**Electrofisher Settings:**	N/A

Fish Habitat Potential

Species	Spawning	Overwintering	Rearing	Migration Corridor
ARCH	No	No	No	No
NNST	No	No	No	No

Comments & Summary

Ephemeral saturated drain with disjoined, undefined channel. Drains into AR-009A.

Rail Alignment Watercourse Crossing Assessment

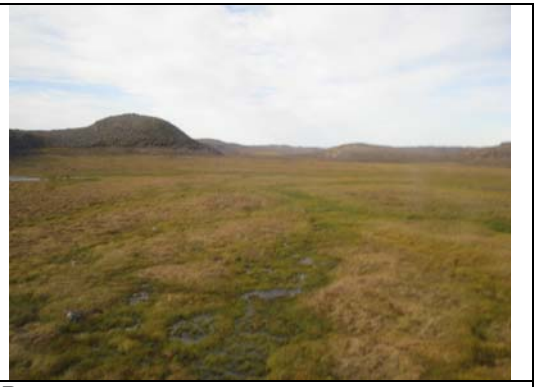
Location

Crossing ID: AR-010a
UTM Coordinates: 17 W 599526 7811586

Date/Time Surveyed: 26-Aug-10

Photographs

A



B

Figure 1. Aerial view of crossing looking upstream (A), aerial view of crossing looking downstream (B).

Rail Alignment Watercourse Crossing Assessment

Location

Crossing ID: AR-009a
UTM Coordinates: 17 W 598690 7810889
Date/Time Surveyed: 26-Aug-10

General Physical Characteristics

Floodplain Width (m):	N/M	**Channel Pattern:**	N/M	**Stage:**	N/A
Channel Confinement:	N/M	**Channel Gradient (range):**	N/M	**Flow Regime:**	INT
Bank Height (range in m):	N/M	**Bank Shape:**	N/M	**T_W (°C):**	N/M

Hydrology & Habitat Characteristics

N/M

Fisheries Information

Electrofishing Conducted:	N	**Effort (min):**	N/A	**Electrofisher Settings:**	N/A

Fish Habitat Potential

Species	Spawning	Overwintering	Rearing	Migration Corridor
ARCH	No	No	No	No
NNST	No	No	No	No

Comments & Summary

Intermittent drainage with no defined channel. Drains into potential fish bearing waterbody (> 4 m deep); however, between waterbody and crossing location, the drain had an un-stepped gradient > 30%. Crossing location not accessible to fish from downstream waterbody. No headwater waterbody.

Rail Alignment Watercourse Crossing Assessment

Location

Crossing ID: AR-009a
UTM Coordinates: 17 W 598690 7810889

Date/Time Surveyed: 26-Aug-10

Photographs

A

B

Figure 1. Aerial view of crossing location (A), close-up aerial view of crossing location (B).

Rail Alignment Watercourse Crossing Assessment

Location

Crossing ID: AR-008
UTM Coordinates: 17 W 598461 7809104
Date/Time Surveyed: 26-Aug-10

General Physical Characteristics

Floodplain Width (m):	N/M	**Channel Pattern:**	UD	**Stage:**	N/A
Channel Confinement:	N/M	**Channel Gradient (range):**	N/M	**Flow Regime:**	EPH
Bank Height (range in m):	N/M	**Bank Shape:**	N/M	**T_W (°C):**	N/M

Hydrology & Habitat Characteristics

N/M

Fisheries Information

Electrofishing Conducted:	N	**Effort (min):**	N/A	**Electrofisher Settings:**	N/A

Fish Habitat Potential

Species	Spawning	Overwintering	Rearing	Migration Corridor
ARCH	No	No	No	No
NNST	No	No	Moderate	No

Comments & Summary

Ephemeral saturated drain with no defined channel. Drains into potential fish bearing waterbody (> 4 m deep); therefore, assumed rearing habitat for NNST.

Rail Alignment Watercourse Crossing Assessment

Location

Crossing ID: AR-008
UTM Coordinates: 17 W 598461 7809104

Date/Time Surveyed: 26-Aug-10

Photographs

A

B

C

Figure 1. Aerial view looking upstream from crossing location (A), aerial view of drain inlet to waterbody (B), aerial view of crossing location (C).

Rail Alignment Watercourse Crossing Assessment

Location

Crossing ID: AR-006
UTM Coordinates: 17 W 598616 7807498
Date/Time Surveyed: 26-Aug-10

General Physical Characteristics

Floodplain Width (m):	N/M	**Channel Pattern:**	N/M	**Stage:**	N/A
Channel Confinement:	N/M	**Channel Gradient (range):**	N/M	**Flow Regime:**	EPH
Bank Height (range in m):	N/M	**Bank Shape:**	N/M	**T_W (°C):**	N/M

Hydrology & Habitat Characteristics

N/M

Fisheries Information

Electrofishing Conducted:	N	**Effort (min):**	N/A	**Electrofisher Settings:**	N/A

Fish Habitat Potential

Species	Spawning	Overwintering	Rearing	Migration Corridor
ARCH	No	No	No	No
NNST	No	No	No	No

Comments & Summary

Ephemeral saturated drain with no defined channel. Drains into a shallow waterbody (< 3 m deep) that is unlikely to support fish.

Rail Alignment Watercourse Crossing Assessment

Location

Crossing ID: AR-006
UTM Coordinates: 17 W 598616 7807498

Date/Time Surveyed: 26-Aug-10

Photographs

A

B

Figure 1. Aerial view of drainage (A), aerial view of crossing location (B)

Rail Alignment Watercourse Crossing Assessment

Location

Crossing ID: AR-004
UTM Coordinates: 17 W 598047 7805662
Date/Time Surveyed: 26-Aug-10

General Physical Characteristics

Floodplain Width (m):	N/M	**Channel Pattern:**	UD	**Stage:**	N/A
Channel Confinement:	N/M	**Channel Gradient (range):**	N/M	**Flow Regime:**	EPH
Bank Height (range in m):	N/M	**Bank Shape:**	N/M	**T_W (°C):**	N/M

Hydrology & Habitat Characteristics

N/M

Fisheries Information

Electrofishing Conducted:	N	**Effort (min):**	N/A	**Electrofisher Settings:**	N/A

Fish Habitat Potential

Species	Spawning	Overwintering	Rearing	Migration Corridor
ARCH	No	No	No	No
NNST	No	No	No	No

Comments & Summary

Ephemeral saturated drain with no defined channel. Drains into a shallow waterbody (< 3 m deep) that is unlikely to support fish.

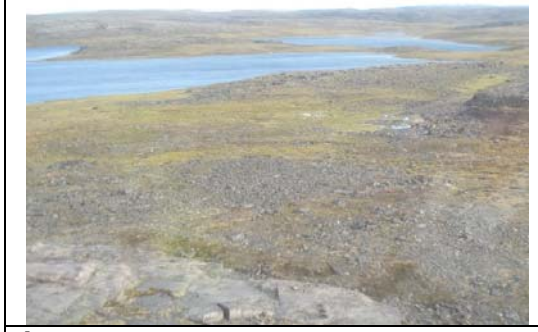
Rail Alignment Watercourse Crossing Assessment

Location

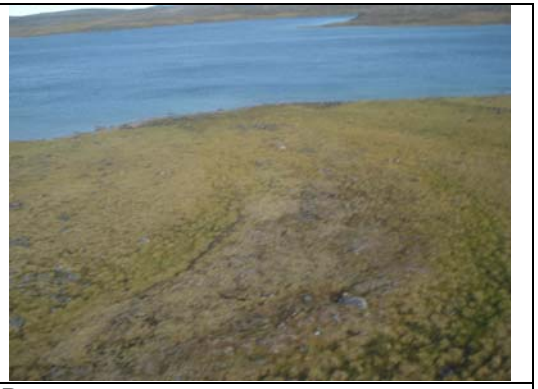
Crossing ID: AR-004
UTM Coordinates: 17 W 598047 7805662

Date/Time Surveyed: 26-Aug-10

Photographs



A



B

Figure 1. Aerial view of drainage (A), aerial view of crossing location (B).

Rail Alignment Watercourse Crossing Assessment

Location

Crossing ID: AR-003a
UTM Coordinates: 17 W 597454 7805480
Date/Time Surveyed: 6-Sept-08 /14:19

General Physical Characteristics

Floodplain Width (m):	N/M	**Channel Pattern:**	Braided, straight	**Stage:**	Normal
Channel Confinement:	PC	**Channel Gradient (range):**	1.5°	**Flow Regime:**	PER
Bank Height (range in m):	UD-2.5	**Bank Shape:**	70% V, 30% S	**T_W (°C):**	4.0

Hydrology & Habitat Characteristics

Distance and Direction from Crossing (m)	Channel Width (m)		Water Depth (m)				Water Velocity (m/s)			
	Wetted	High Water	25%	50%	75%	Max	25%	50%	75%	Max
60D (1 chnls)	44	44	0.07	0.17	0.18	0.37	0.36	0.09	1.32	1.32
40D (3 chnls)	46	72	0.16	0.20	0.57	0.57	0.12	0.57	0.16	0.64
20D (2 chnls)	59	78	0.08	0.26	0.22	0.29	0.25	0.14	0.67	0.05
0 (4 chnls)	60	100	0.06	0.16	0.09	0.28	0.55	0.77	0.64	1.23
20U (3 chnls)	67	134	0.07	0.28	0.22	0.41	0.42	0.34	0.94	0.94
40U (4 chnls)	62.7	85	0.3	0.19	0.19	0.3	0.00	0.49	0.89	0.89
60U (4 chnls)	51.6	100	0.07	0.32	0.37	0.47	0.08	0.27	0.22	0.98

Distance and Direction from Crossing (m)	Stream Morphology Composition (%)						Substrate Composition (%)				
	Riffle	Pool (<0.2 m)	Pool (>0.2 m)	Run	Cascade	Other	Fines	Gravel	Small Cobble	Large Cobble	Boulders
60D	15	40			30	15 rapids		20	30	20	30
40D	40	5	15		40			20	20	40	20
20D	30	10	20		40			15	25	35	25
0	30	20	10		40			5	20	45	30
20U	30	25	10		35			5	20	50	25
40U	30	10	30		30				25	40	35
60U	30	30	10		30				10	60	30

Rail Alignment Watercourse Crossing Assessment

Location

Crossing ID: AR-003a
UTM Coordinates: 17 W 597454 7805480
Date/Time Surveyed: 6-Sept-08 /14:19

Fisheries Information

Electrofishing Conducted: Y
Effort (min): 10:06
Electrofisher Settings: 700V, 40Hz, 30%

Species	Total Caught/Observed	CPUE	Length Range (mm)	Weight Range (g)
ARCH	5	0.50	57-128	2-15
NNST	0	-	-	-

Fish Habitat Potential

Species	Spawning	Overwintering	Rearing	Migration Corridor
ARCH	No	No	High	Low
NNST	No	No	Low	No

Comments & Summary

Fished along the right side of the main channel.

Baffinland Iron Mines
Mary River Project

North/South Consultants Inc.
Aquatic Environment Specialists

Fish Habitat Quality – IMPORTANT

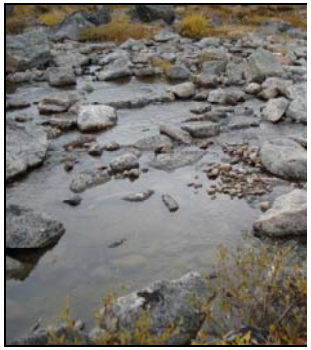
Rail Alignment Watercourse Crossing Assessment

Location

Crossing ID: AR-003a
UTM Coordinates: 17 W 597454 7805480
Date/Time Surveyed: 6-Sept-08 /14:19

Photographs


A


B


C


D


E

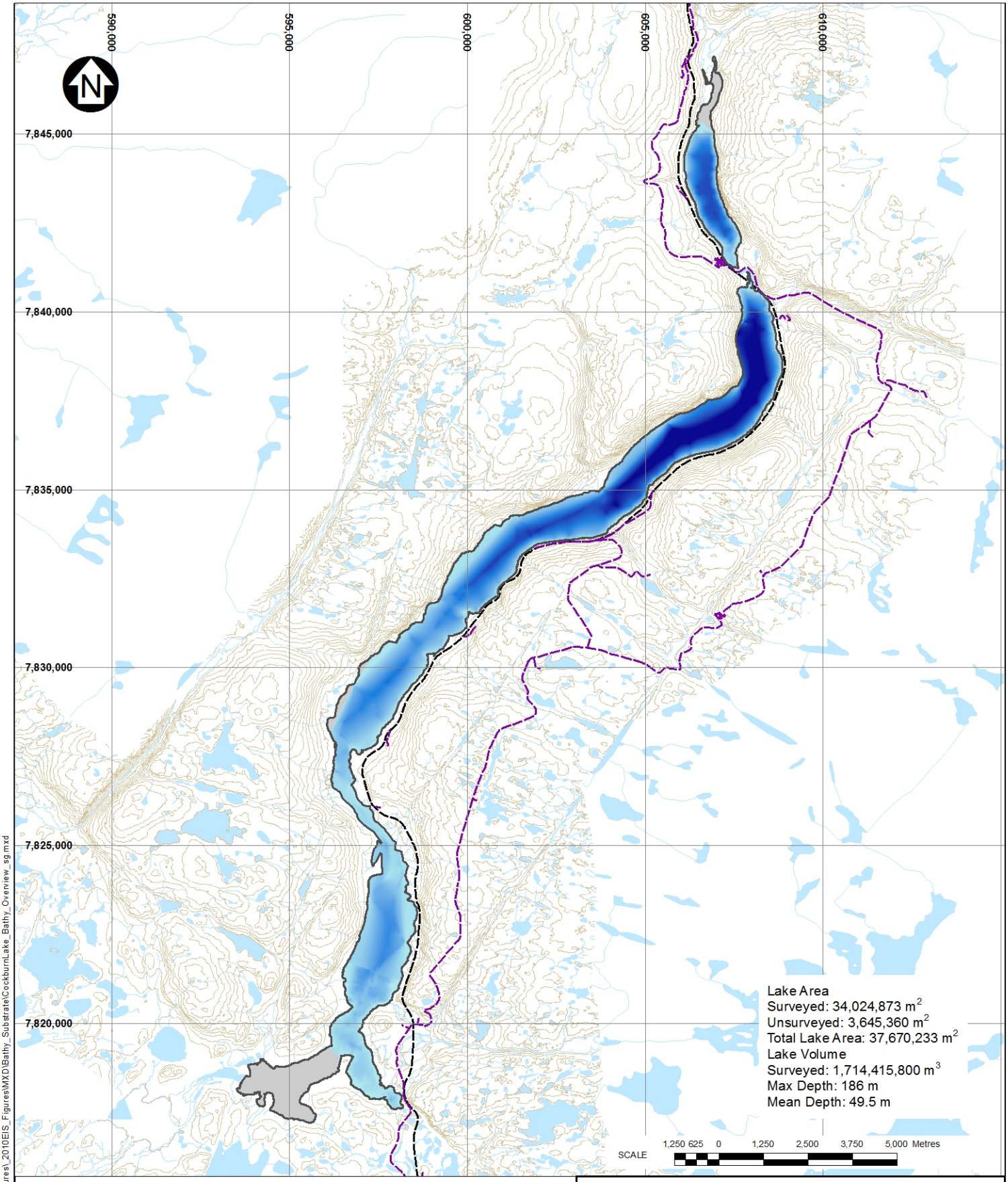

F


G

Figure 1. View of habitat 60 (A), 40 (B), and 20 m (C) downstream of crossing, at the crossing (D), and 20 (E), 40 (F), and 60 m (G) upstream of crossing.

APPENDIX 5.1-4.

COCKBURN LAKE BATHYMETRY AND SUBSTRATE MAPPING.



LEGEND:

- CONTOUR
- RAILWAY CENTERLINE
- CONSTRUCTION ACCESS ROAD

DEPTH

HIGH : 186

LOW : 0

NOTES:

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2. TOPOGRAPHY PROVIDED BY EAGLE MAPPING (2005).
3. DEPTHS OF BATHYMETRIC CONTOURS ARE IN METRES AND ARE RELATIVE TO SHORELINE AT TIME OF SURVEY.
4. CONTOUR INTERVAL IS 25 M AND IS IN METRES.

REV	DATE	ISSUED FOR --	DESIGNED	DRAWN	CHK'D	APP'D
-	DDMMM'10	-	-	-	-	-

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

Cockburn Lake
Bathymetry Overview

North/South Consultants Inc.
Aquatic Environment Specialists

P/A NO.	REF NO.
-	-

DATE: 25/10/2010

REV -

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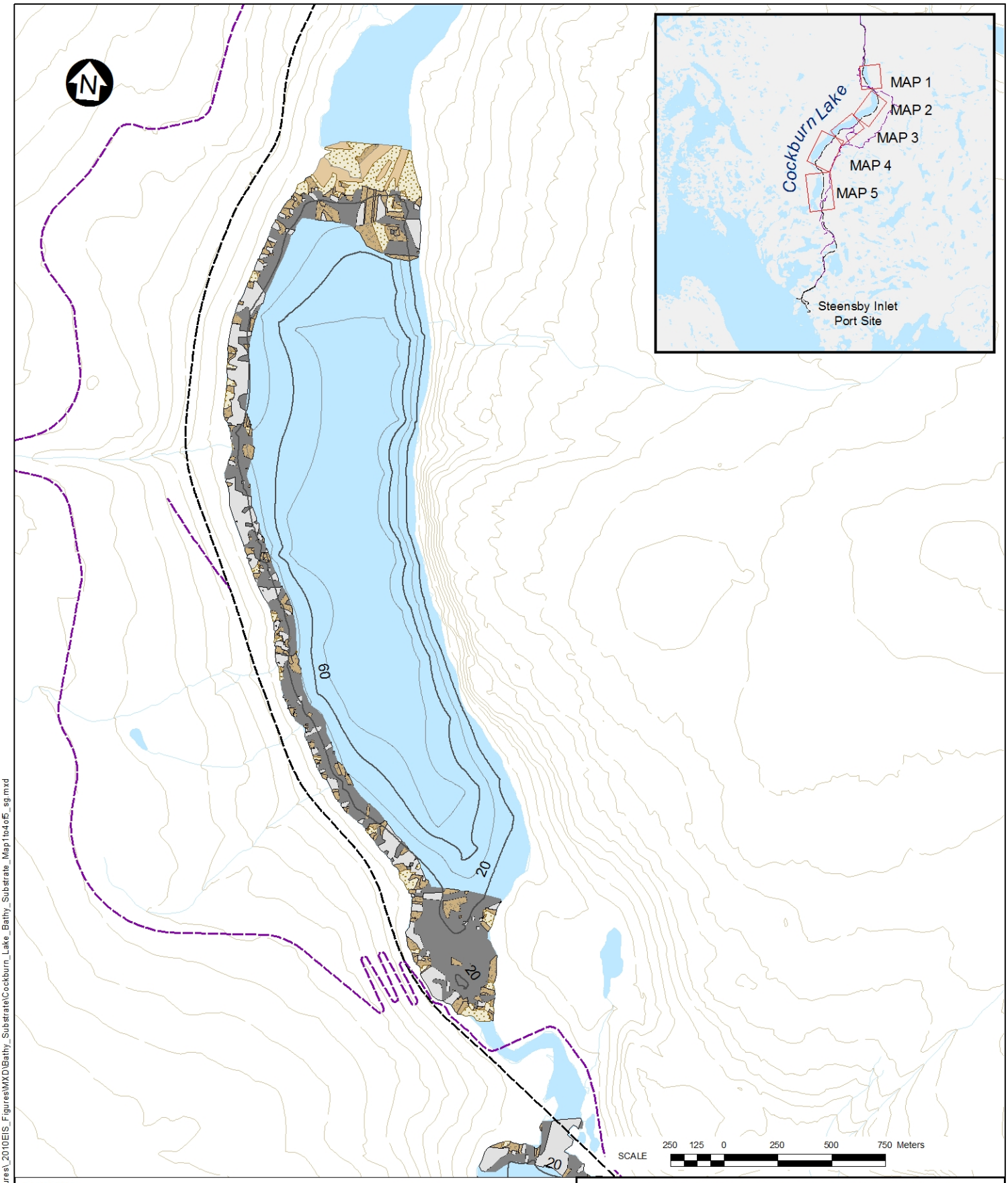

LEGEND:

SUBSTRATE
- BOULDER
- COBBLE - CLAY - MIXED
- COBBLE - PEBBLE
- GRAVEL - COARSE SAND
- SAND

BATHYMETRIC CONTOURS
- MAJOR INTERVALS (20, 60, 100, 140 M)
- MINOR INTERVALS (40, 80, 120, 160 M)
- CONTOUR
- RAILWAY CENTERLINE
- CONSTRUCTION ACCESS ROAD

NOTES:

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2. TOPOGRAPHY PROVIDED BY EAGLE MAPPING (2005).
3. DEPTHS OF BATHYMETRIC CONTOURS ARE IN METRES AND ARE RELATIVE TO SHORELINE AT TIME OF SURVEY.
4. CONTOUR INTERVAL IS 25 M AND IS IN METRES.

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-	DDMMM'10	-	-	-	-	-

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

Cockburn Lake Northwest Basin Bathymetry and Substrate - MAP 1 of 5 -

North/South Consultants Inc.
Aquatic Environment Specialists

P/A NO. -
REF NO. -
DATE: 22/10/2010
REV -

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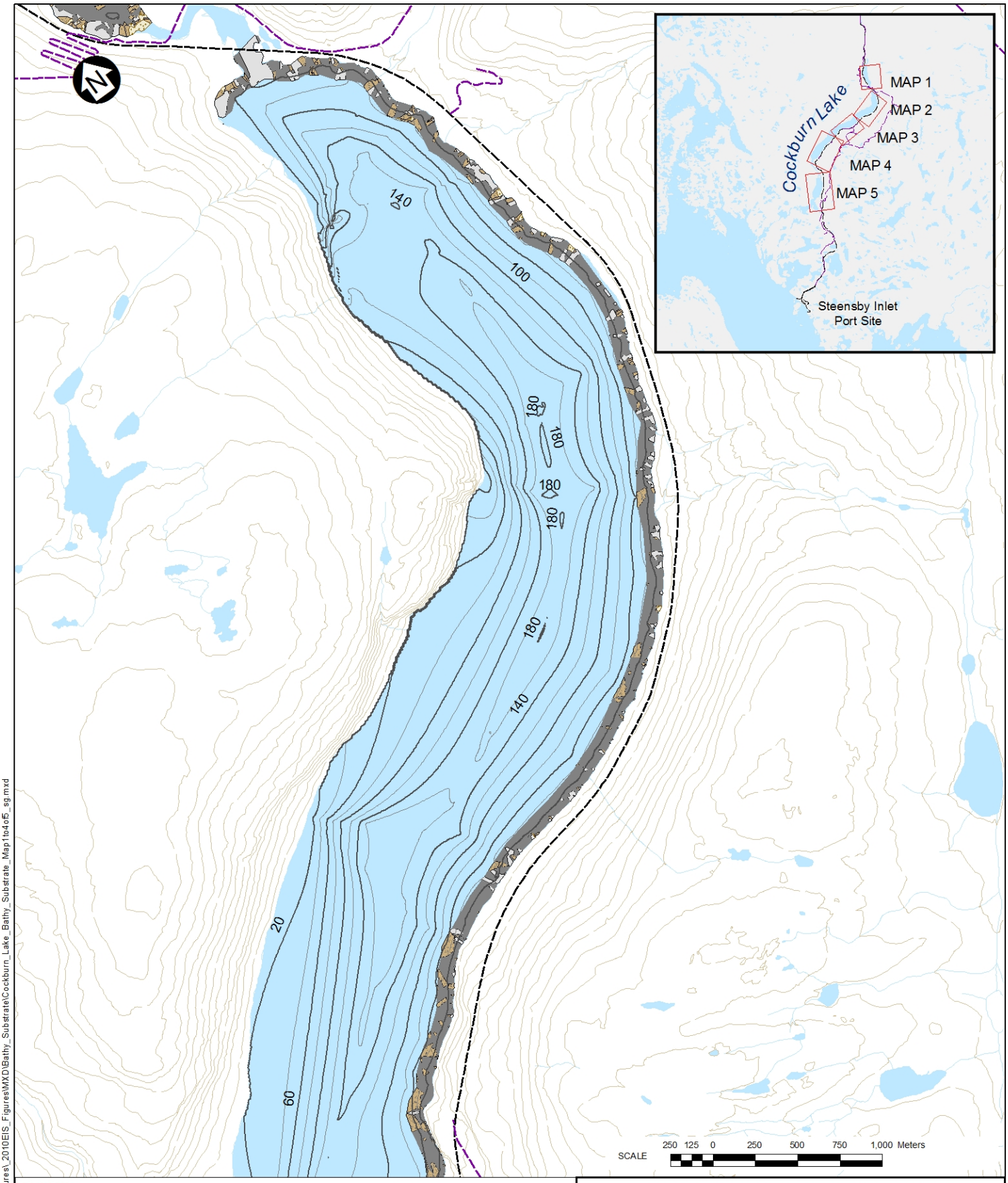

LEGEND:

SUBSTRATE

- BOULDER
- COBBLE - CLAY - MIXED
- COBBLE - PEBBLE
- GRAVEL - COARSE SAND
- SAND

BATHYMETRIC CONTOURS

- MAJOR INTERVALS (20, 60, 100, 140 M)
- MINOR INTERVALS (40, 80, 120, 160 M)
- CONTOUR
- RAILWAY CENTERLINE
- CONSTRUCTION ACCESS ROAD

NOTES:

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2. TOPOGRAPHY PROVIDED BY EAGLE MAPPING (2005).
3. DEPTHS OF BATHYMETRIC CONTOURS ARE IN METRES AND ARE RELATIVE TO SHORELINE AT TIME OF SURVEY.
4. CONTOUR INTERVAL IS 25 M AND IS IN METRES.

REV	DATE		DESIGNED	DRAWN	CHK'D	APP'D
-	DDMMM'10	ISSUED FOR --	-	-	-	-

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

Cockburn Lake Central Basin Bathymetry and Substrate - MAP 2 of 5 -

North/South Consultants Inc.
Aquatic Environment Specialists

P/A NO.	REF NO.
-	-

DATE: 22/10/2010 REV -

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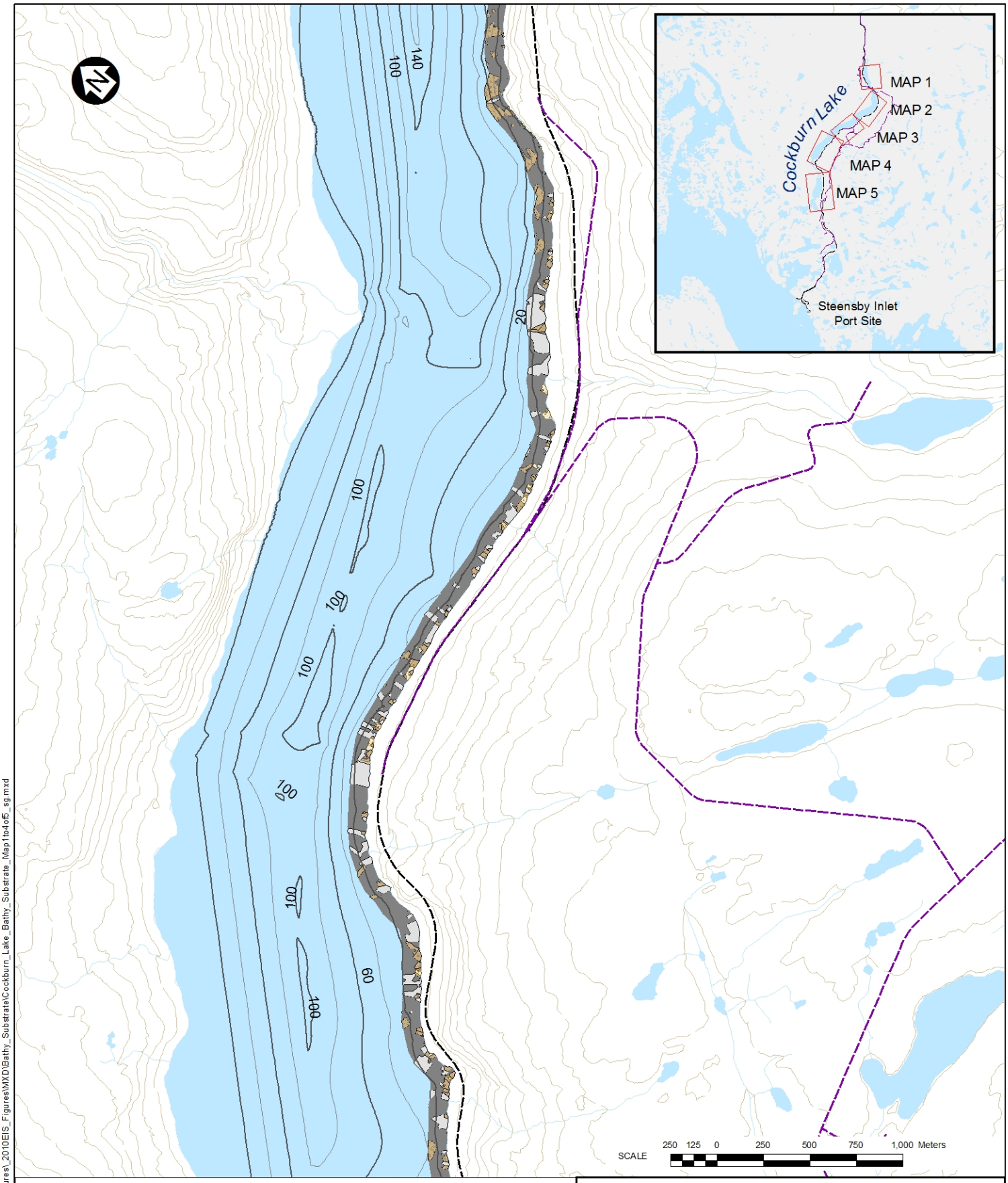

LEGEND:

SUBSTRATE

- BOULDER
- COBBLE - CLAY - MIXED
- COBBLE - PEBBLE
- GRAVEL - COARSE SAND
- SAND

BATHYMETRIC CONTOURS

- MAJOR INTERVALS (20, 60, 100, 140 M)
- MINOR INTERVALS (40, 80, 120, 160 M)
- CONTOUR
- RAILWAY CENTERLINE
- CONSTRUCTION ACCESS ROAD

NOTES:

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2. TOPOGRAPHY PROVIDED BY EAGLE MAPPING (2005).
3. DEPTHS OF BATHYMETRIC CONTOURS ARE IN METRES AND ARE RELATIVE TO SHORELINE AT TIME OF SURVEY.
4. CONTOUR INTERVAL IS 25 M AND IS IN METRES.

REV	DATE	ISSUED FOR --	DESIGNED	DRAWN	CHK'D	APP'D
-	DDMMM'10	-	-	-	-	-

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

Cockburn Lake Central Basin Bathymetry and Substrate - MAP 3 of 5 -

North/South Consultants Inc.
Aquatic Environment Specialists

P/A NO.	REF NO.
-	-

DATE: 22/10/2010

REV -

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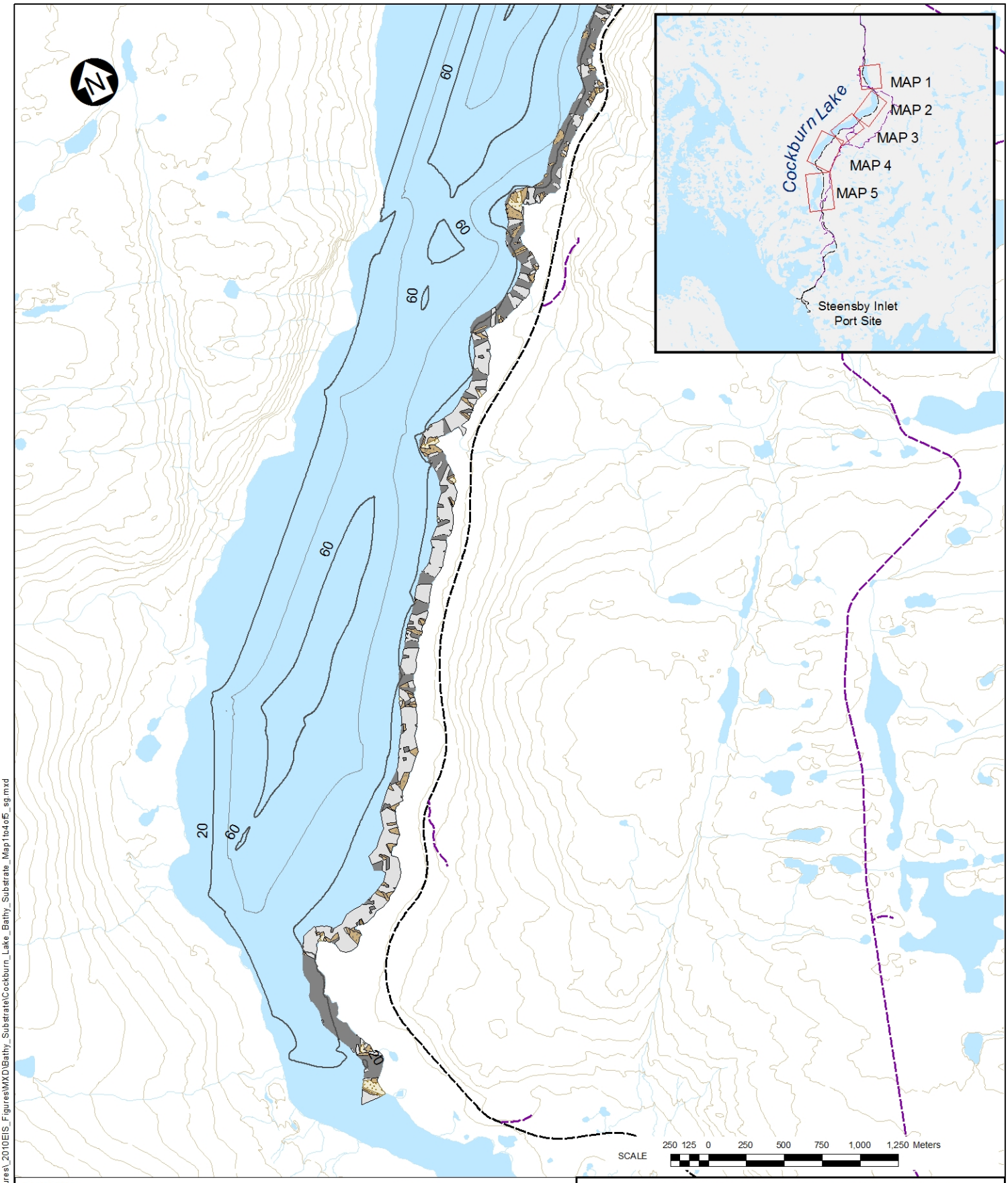

LEGEND:

SUBSTRATE

- BOULDER
- COBBLE - CLAY - MIXED
- COBBLE - PEBBLE
- GRAVEL - COARSE SAND
- SAND

BATHYMETRIC CONTOURS

- MAJOR INTERVALS (20, 60, 100, 140 M)
- MINOR INTERVALS (40, 80, 120, 160 M)
- CONTOUR
- RAILWAY CENTERLINE
- CONSTRUCTION ACCESS ROAD

NOTES:

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2. TOPOGRAPHY PROVIDED BY EAGLE MAPPING (2005).
3. DEPTHS OF BATHYMETRIC CONTOURS ARE IN METRES AND ARE RELATIVE TO SHORELINE AT TIME OF SURVEY.
4. CONTOUR INTERVAL IS 25 M AND IS IN METRES.

REV	DATE	ISSUED FOR --	DESIGNED	DRAWN	CHK'D	APP'D
-	DDMMM'10	-	-	-	-	-

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

Cockburn Lake Central Basin Bathymetry and Substrate - MAP 4 of 5 -

North/South Consultants Inc.
Aquatic Environment Specialists

P/A NO.	REF NO.
-	-

DATE: 22/10/2010 REV -

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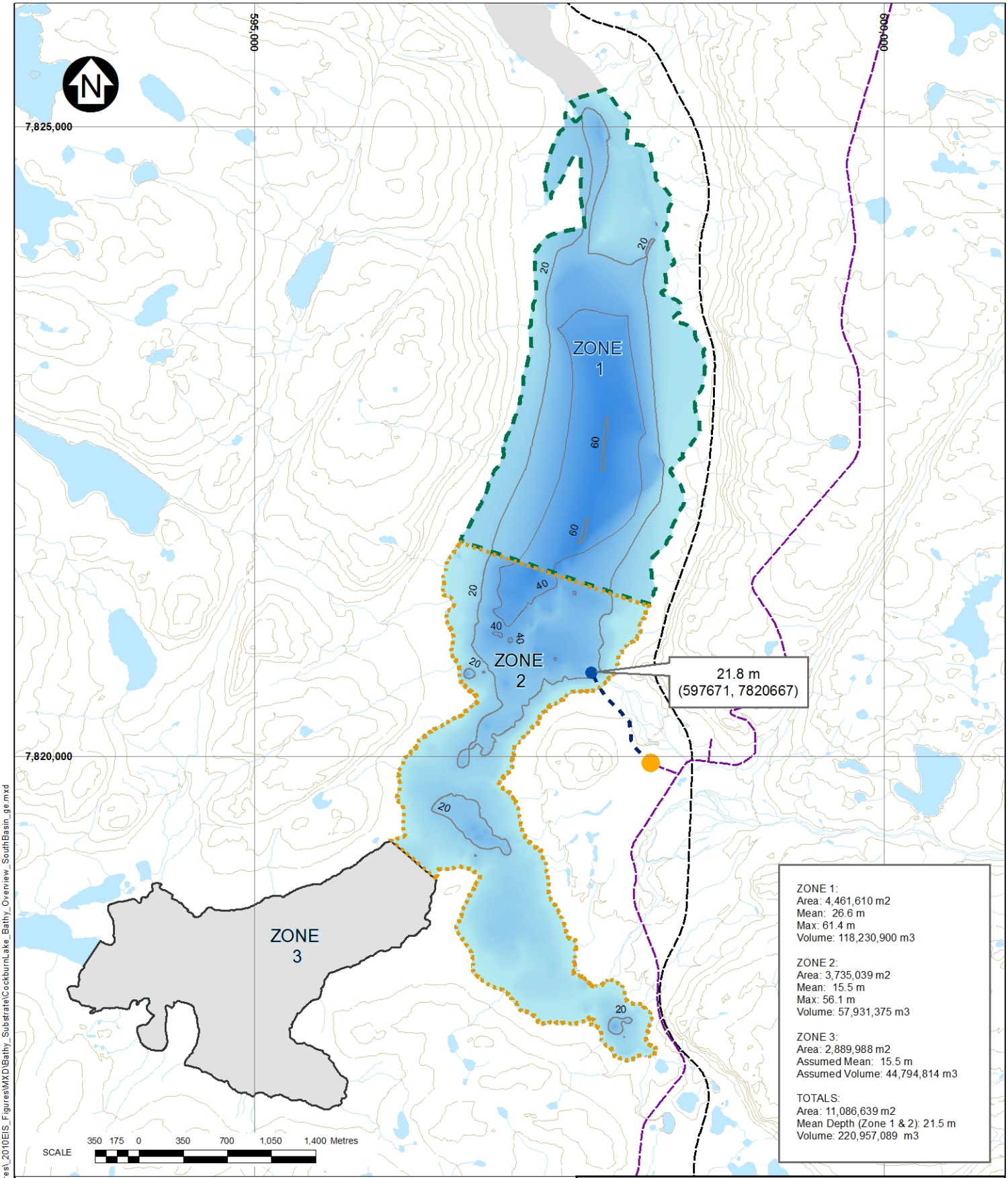

ZONE 1:
Area: 4,461,610 m2
Mean: 26.6 m
Max: 61.4 m
Volume: 118,230,900 m3

ZONE 2:
Area: 3,735,039 m2
Mean: 15.5 m
Max: 56.1 m
Volume: 57,931,375 m3

ZONE 3:
Area: 2,889,988 m2
Assumed Mean: 15.5 m
Assumed Volume: 44,794,814 m3

TOTALS:
Area: 11,086,639 m2
Mean Depth (Zone 1 & 2): 21.5 m
Volume: 220,957,089 m3

LEGEND:

- CONTOUR
- RAILWAY CENTERLINE
- CONSTRUCTION ACCESS ROAD
- PROPOSED CONSTRUCTION CAMP
- PROPOSED WATER INTAKE

DEPTH
HIGH : 61.4
LOW : 0

NOTES:

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2. TOPOGRAPHY PROVIDED BY EAGLE MAPPING (2005).
3. DEPTHS OF BATHYMETRIC CONTOURS ARE IN METRES AND ARE RELATIVE TO SHORELINE AT TIME OF SURVEY.
4. CONTOUR INTERVAL IS 25 M AND IS IN METRES.

REV	DATE	ISSUED FOR --	DESIGNED	DRAWN	CHK'D	APP'D
-	DDMMM'10	-	-	-	-	-

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

Cockburn Lake South Basin
Bathymetry Overview

North/South Consultants Inc.
Aquatic Environment Specialists

P/A NO. -
REF NO. -
DATE: 26/10/2010
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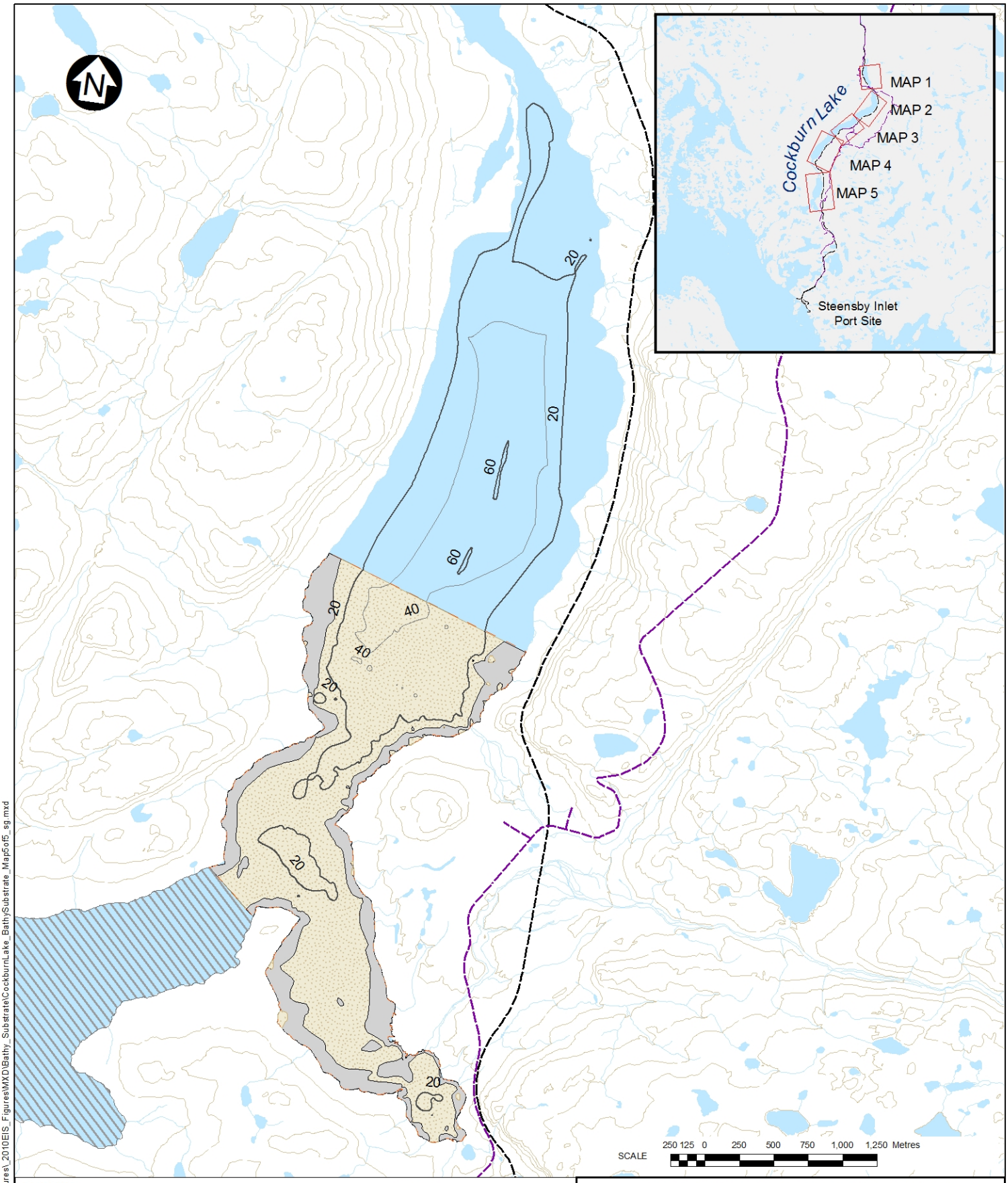

LEGEND:

SUBSTRATE
- COBBLE/BOULDER WITH POCKETS OF SAND
- SAND / SILT / CLAY
- UNSURVEYED
- 2010 SURVEY BOUNDS

BATHYMETRIC CONTOURS
- MAJOR INTERVALS (20, 60, 100, 140 M)
- MINOR INTERVALS (40, 80, 120, 160 M)
- CONTOUR
- RAILWAY CENTERLINE
- CONSTRUCTION ACCESS ROAD

NOTES:

1. BASE MAP: © HER MAJESTY THE QUEEN IN RIGHTS OF CANADA DEPARTMENT OF NATURAL RESOURCES (2009.) ALL RIGHTS RESERVED.
2. TOPOGRAPHY PROVIDED BY EAGLE MAPPING (2005).
3. DEPTHS OF BATHYMETRIC CONTOURS ARE IN METRES AND ARE RELATIVE TO SHORELINE AT TIME OF SURVEY.
4. CONTOUR INTERVAL IS 25 M AND IS IN METRES.

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BAFFINLAND IRON MINES CORPORATION

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Cockburn Lake South Basin Bathymetry and Substrate - MAP 5 of 5 -

North/South Consultants Inc.
Aquatic Environment Specialists

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