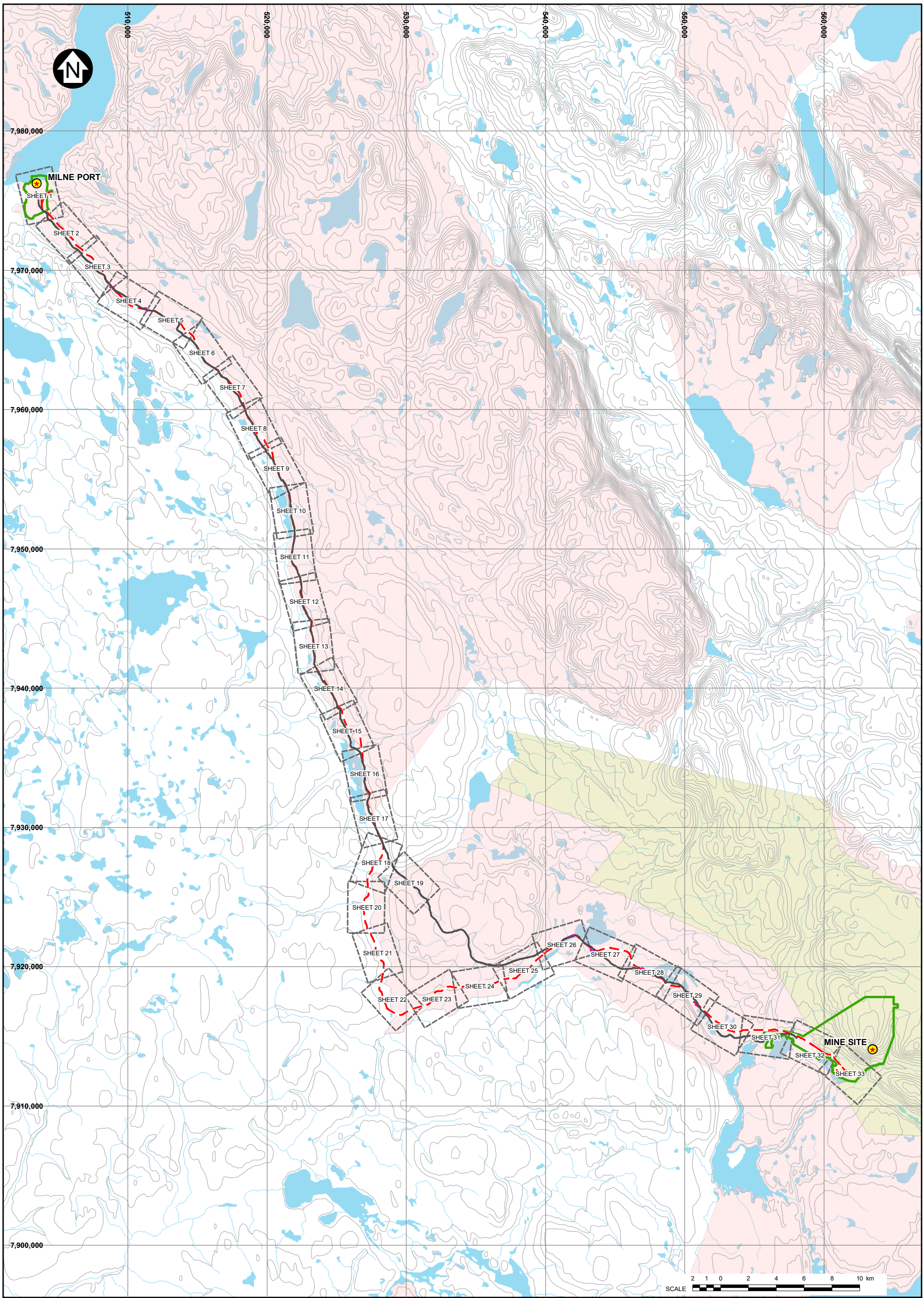
Attachment 10

North Railway Detailed Figures

(34 Pages)



LEGEND:

- MILNE PORT / MINE SITE
- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY
- REFERENCE SHEET EXTENT
- POTENTIAL DEVELOPMENT AREA
- WATER

NOTES:

1. COORDINATE GRID IS IN METRES.
   COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. BASE MAP: HER MAJESTY THE QUEEN IN RIGHTS OF CANADA, DEPARTMENT OF NATURAL RESOURCES, (2004).
3. FIGURE CREATED BY KNIGHT PIESOLD LIMITED.

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Baffinland

MARY RIVER PROJECT

NORTH RAILWAY KEY PLAN

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.1 REV 0

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LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 1 OF 33)

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P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.2 REV 0

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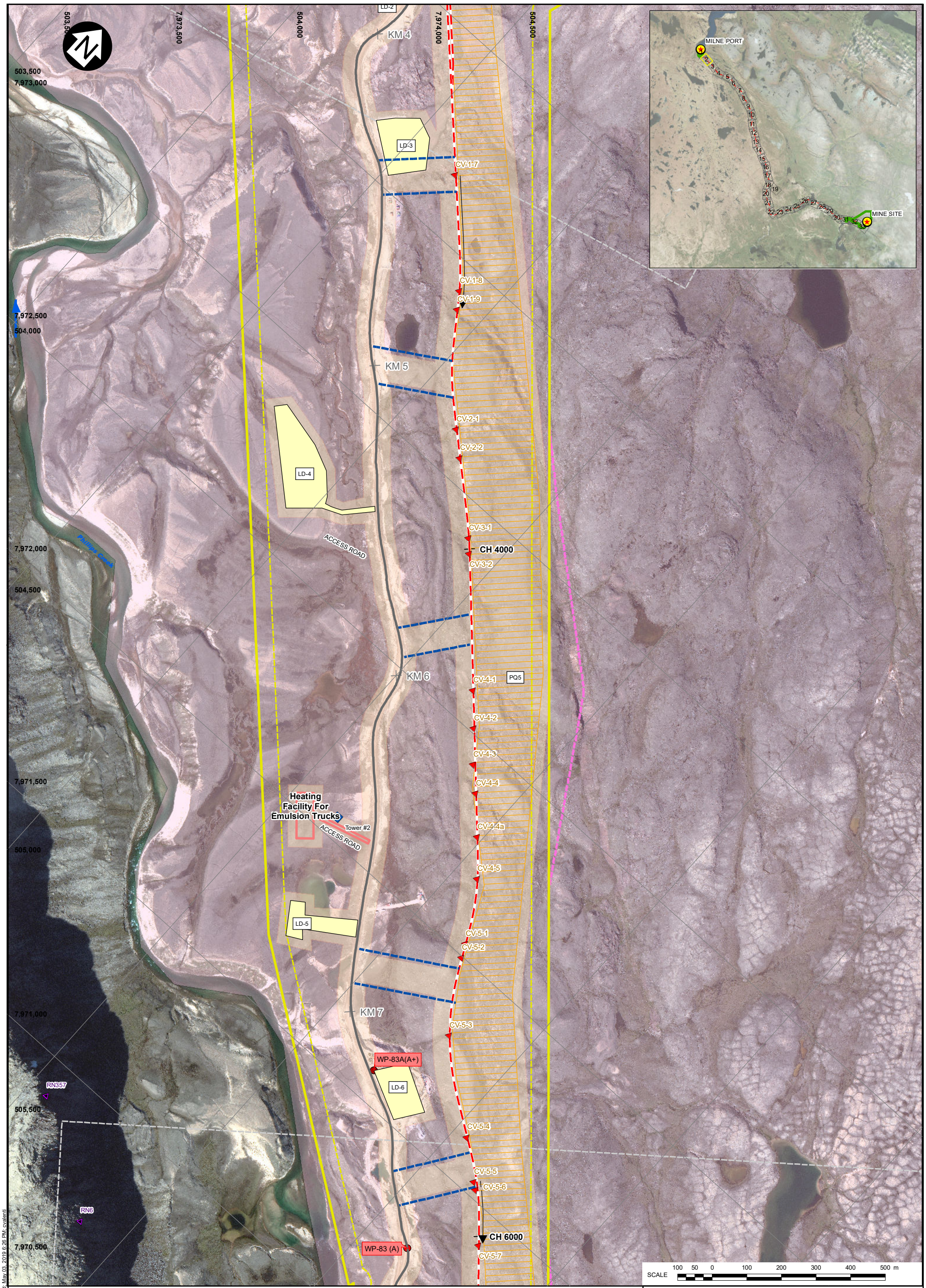

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 2 OF 33)

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FIGURE A10.3 REV 0

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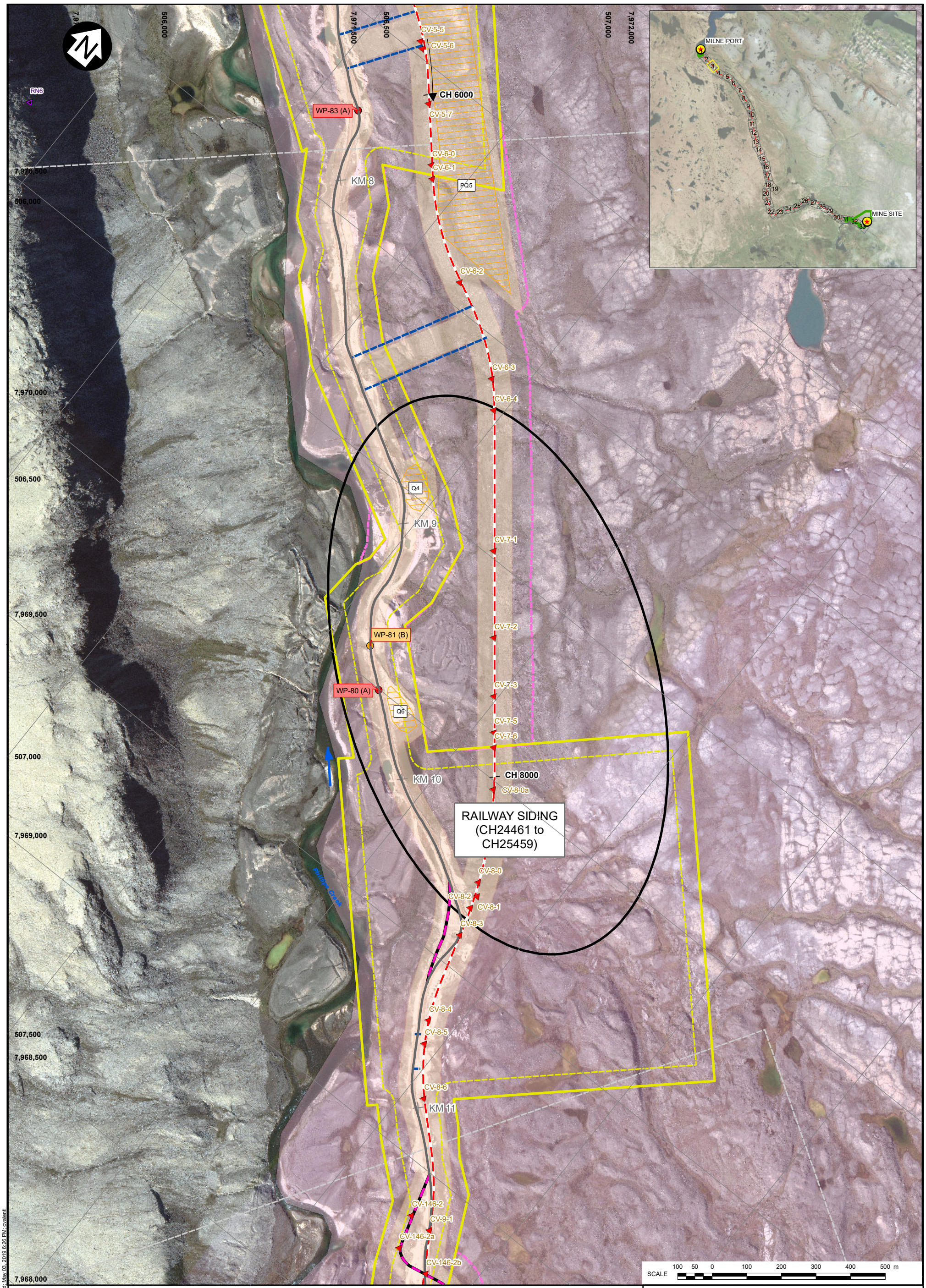

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA
- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS
- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 3 OF 33)

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FIGURE A10.4 REV 0

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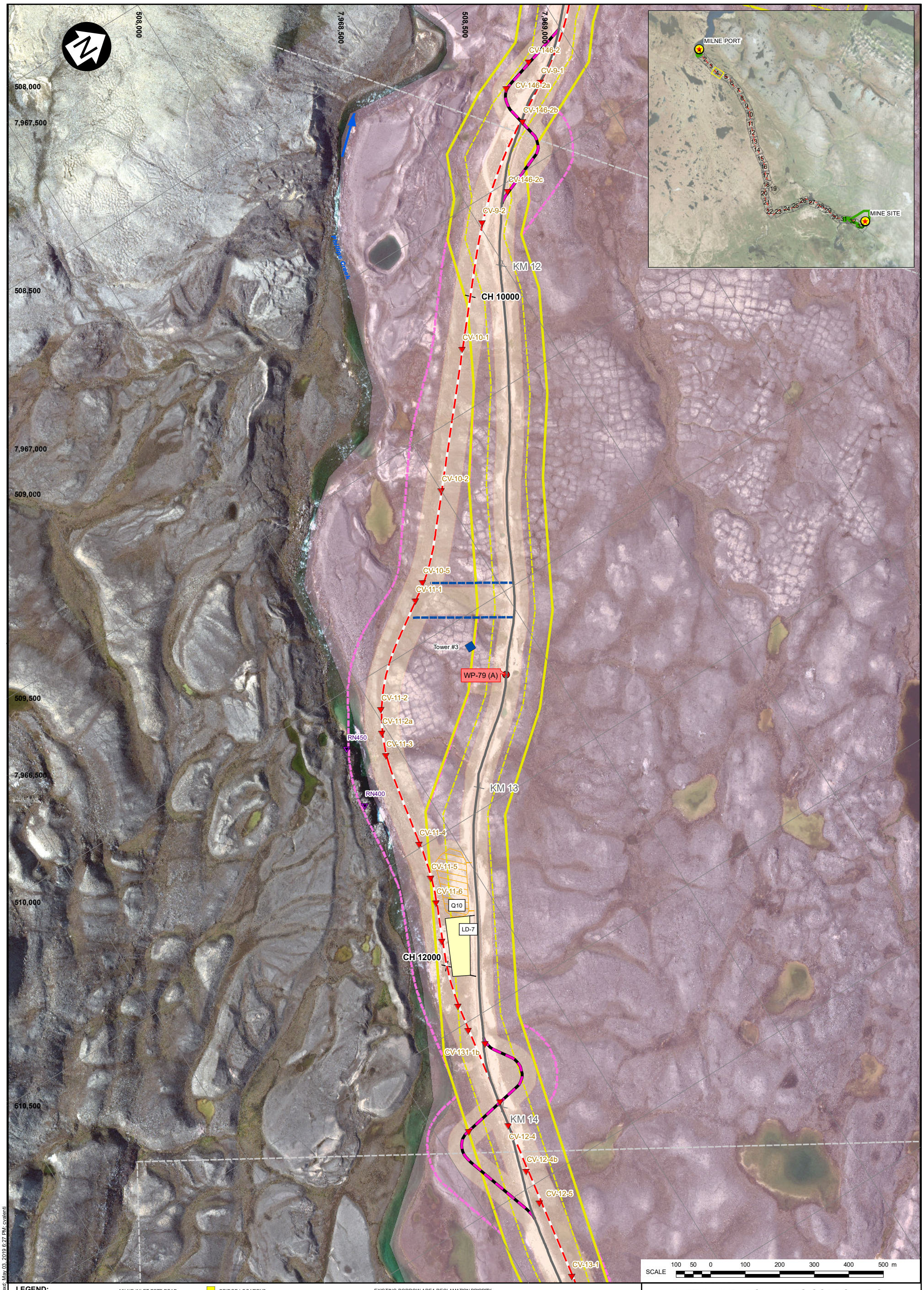

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 4 OF 33)

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FIGURE A10.5 REV 0

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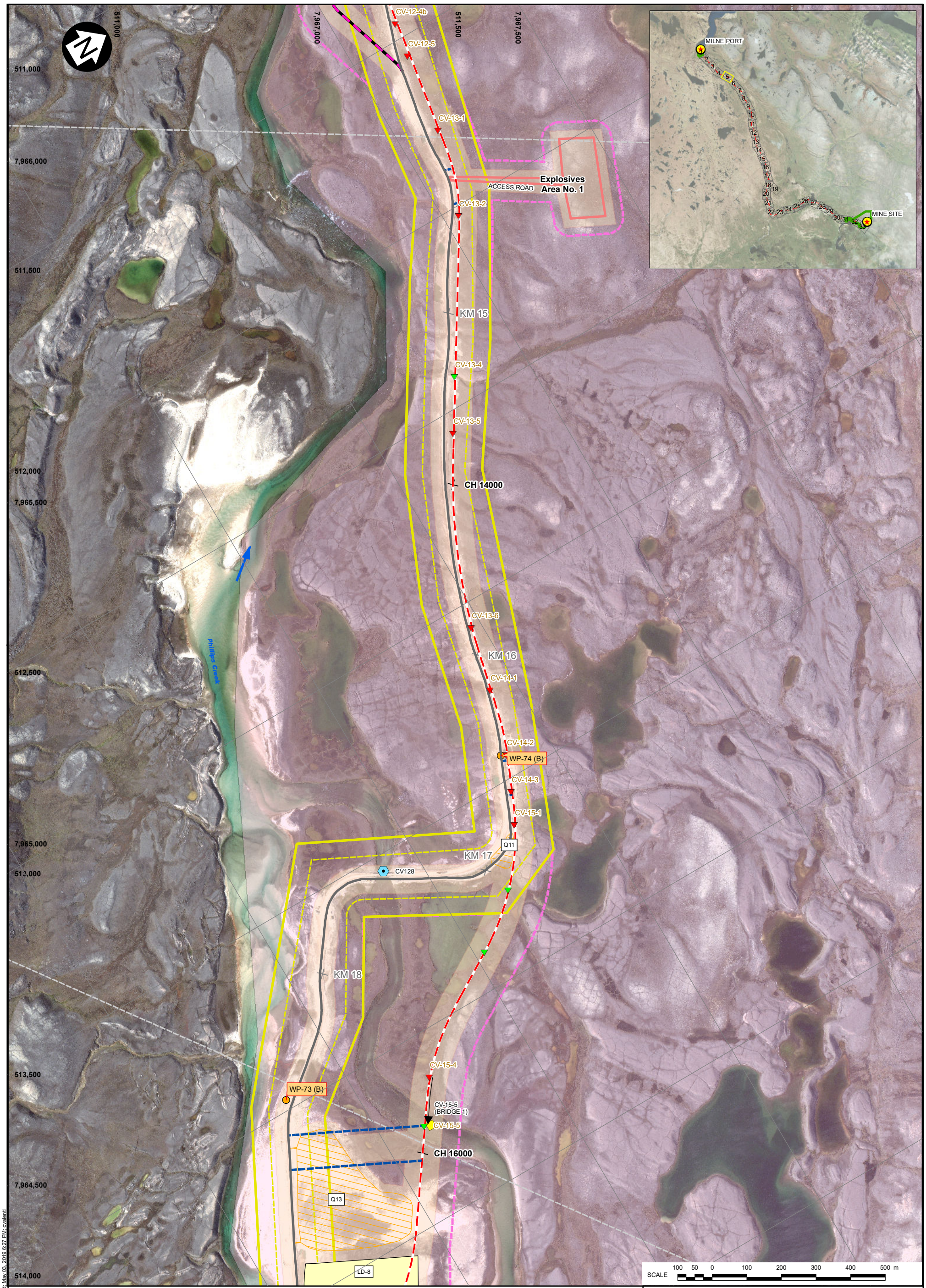

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 5 OF 33)

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FIGURE A10.6 REV 0

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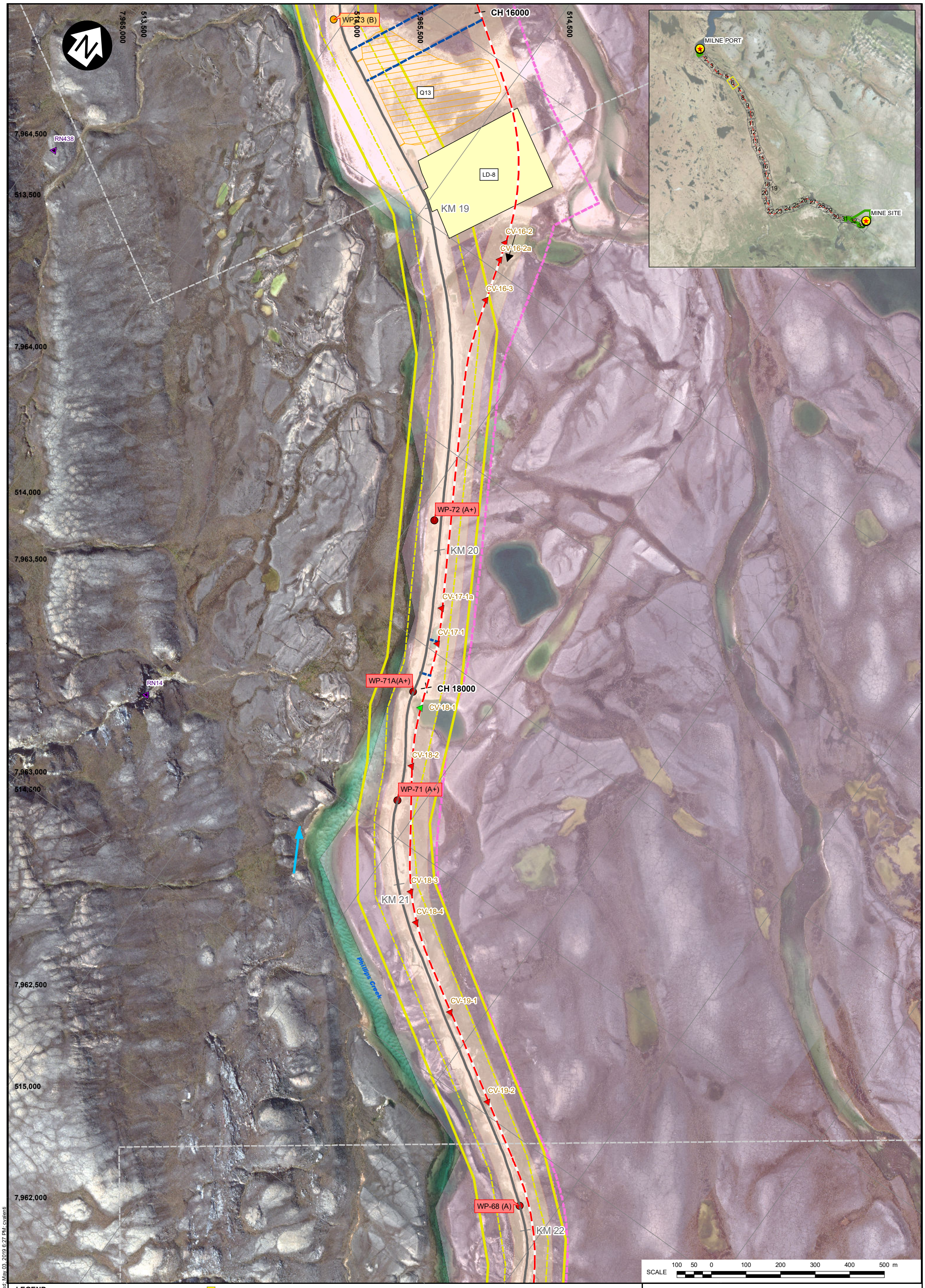

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 6 OF 33)

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FIGURE A10.7 REV 0

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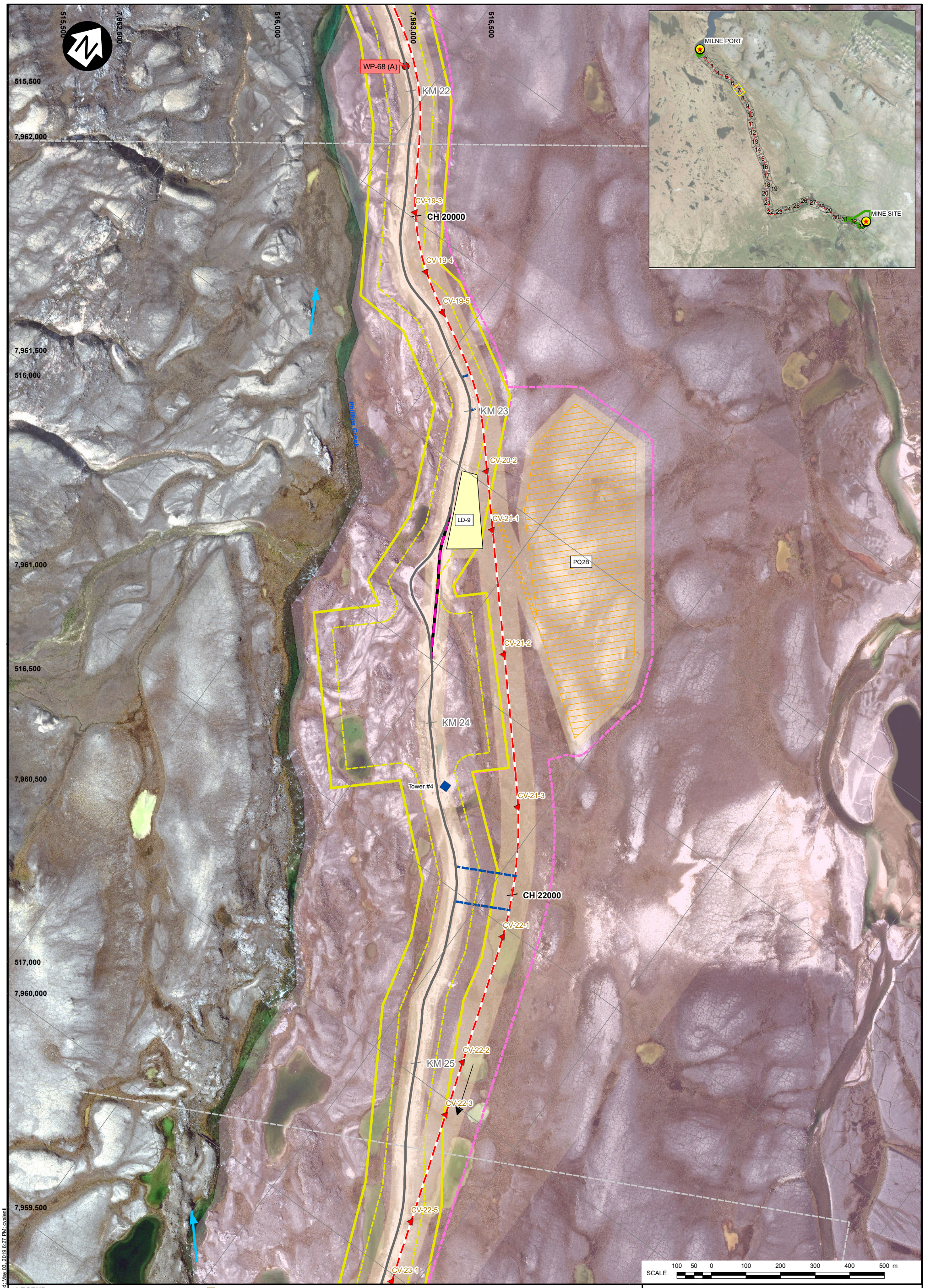

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA
- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS
- BRIDGE LOCATIONS
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- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

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2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 7 OF 33)

Knight Piésold CONSULTING

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NB102-181/53	3

FIGURE A10.8 REV 0

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LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
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- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 8 OF 33)

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FIGURE A10.9 REV 0

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LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
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- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
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- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 9 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.10 REV 0

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LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
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EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
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- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED
0	02MAY'19	ISSUED WITH REPORT	RAC	AS/CJV	SRA

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 10 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.11 REV 0

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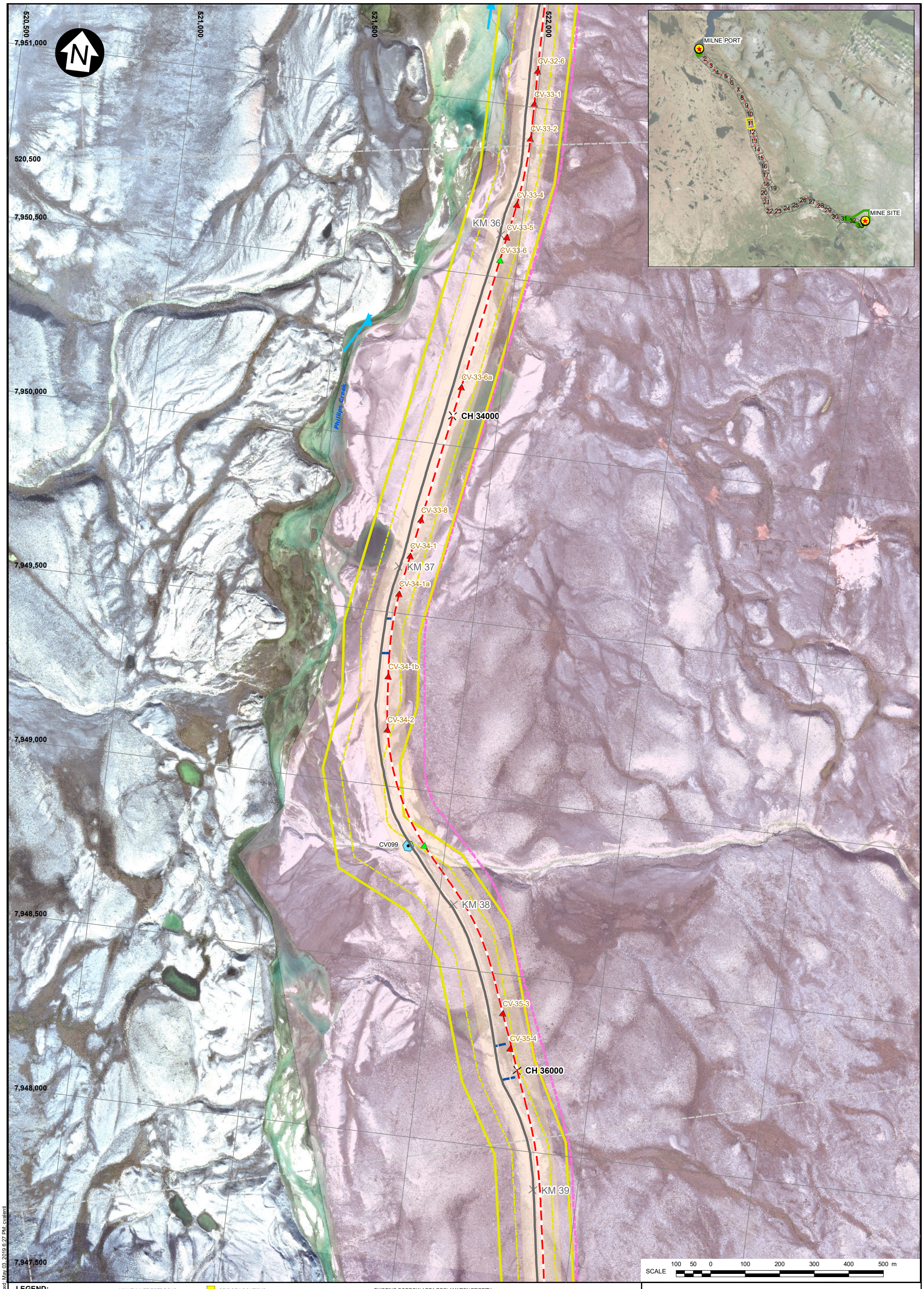

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 11 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.12 REV 0

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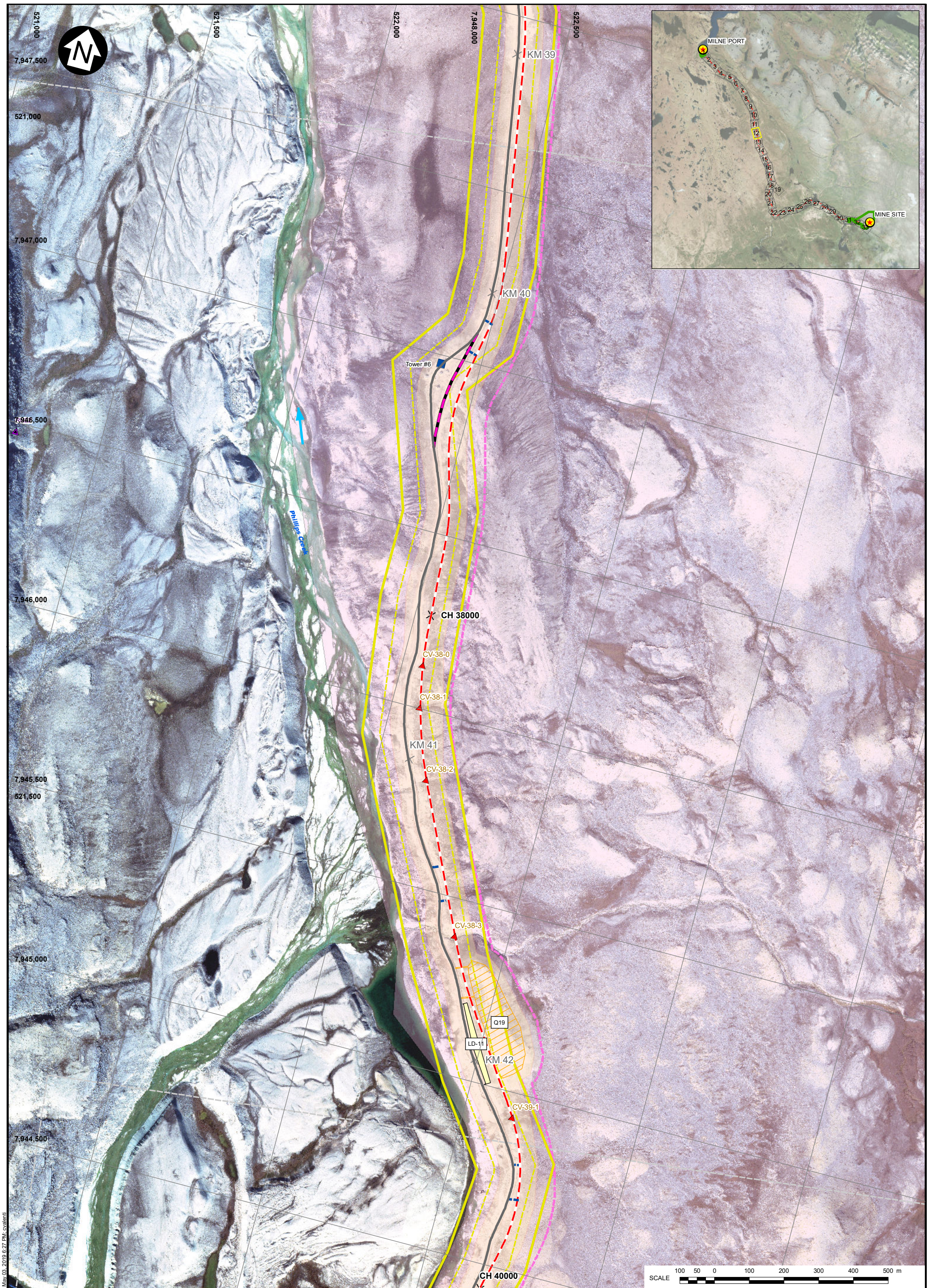

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 12 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.13 REV 0

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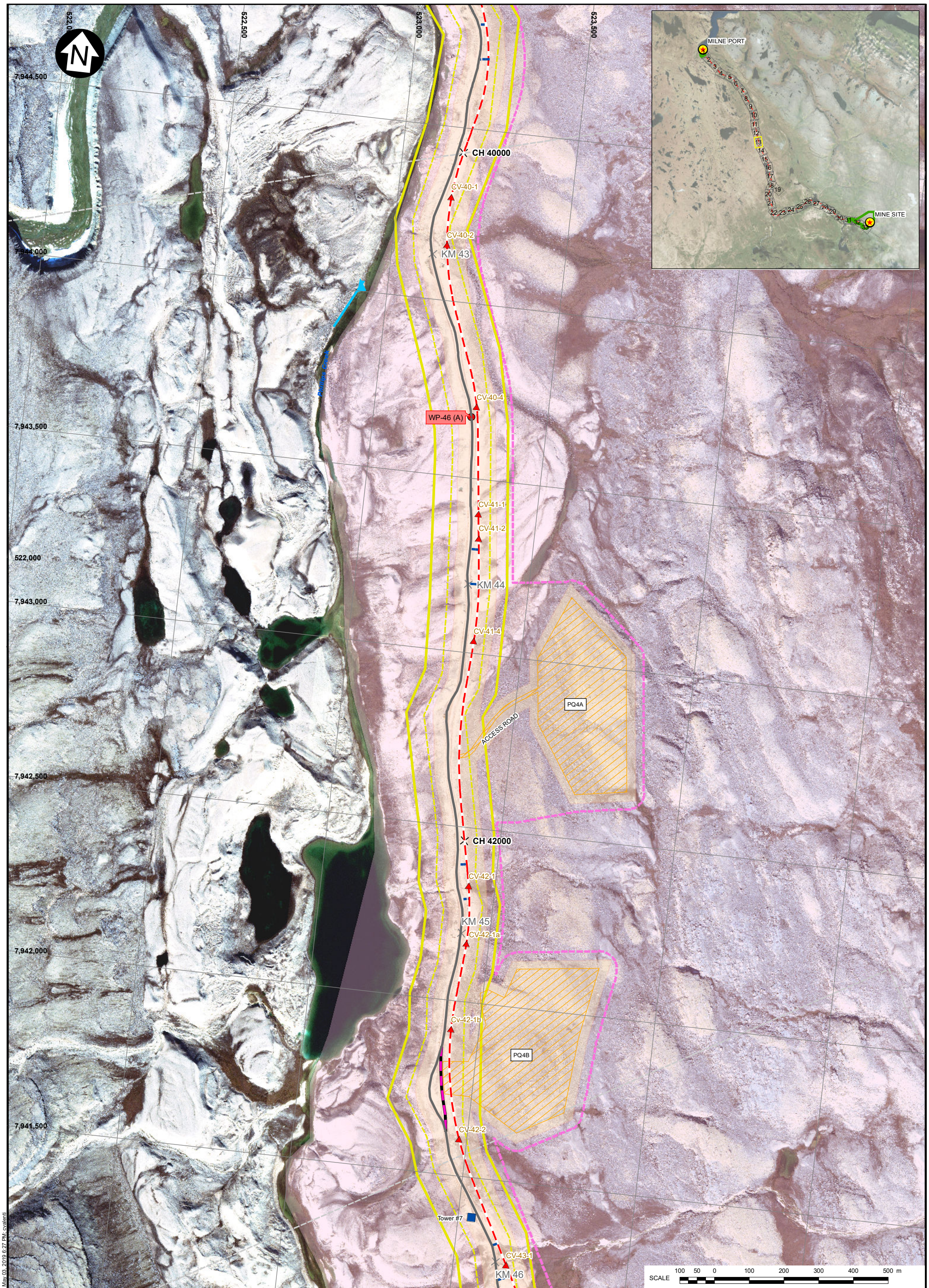

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 13 OF 33)

Knight Piésold CONSULTING

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FIGURE A10.14 REV 0

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LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 14 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.15 REV 0

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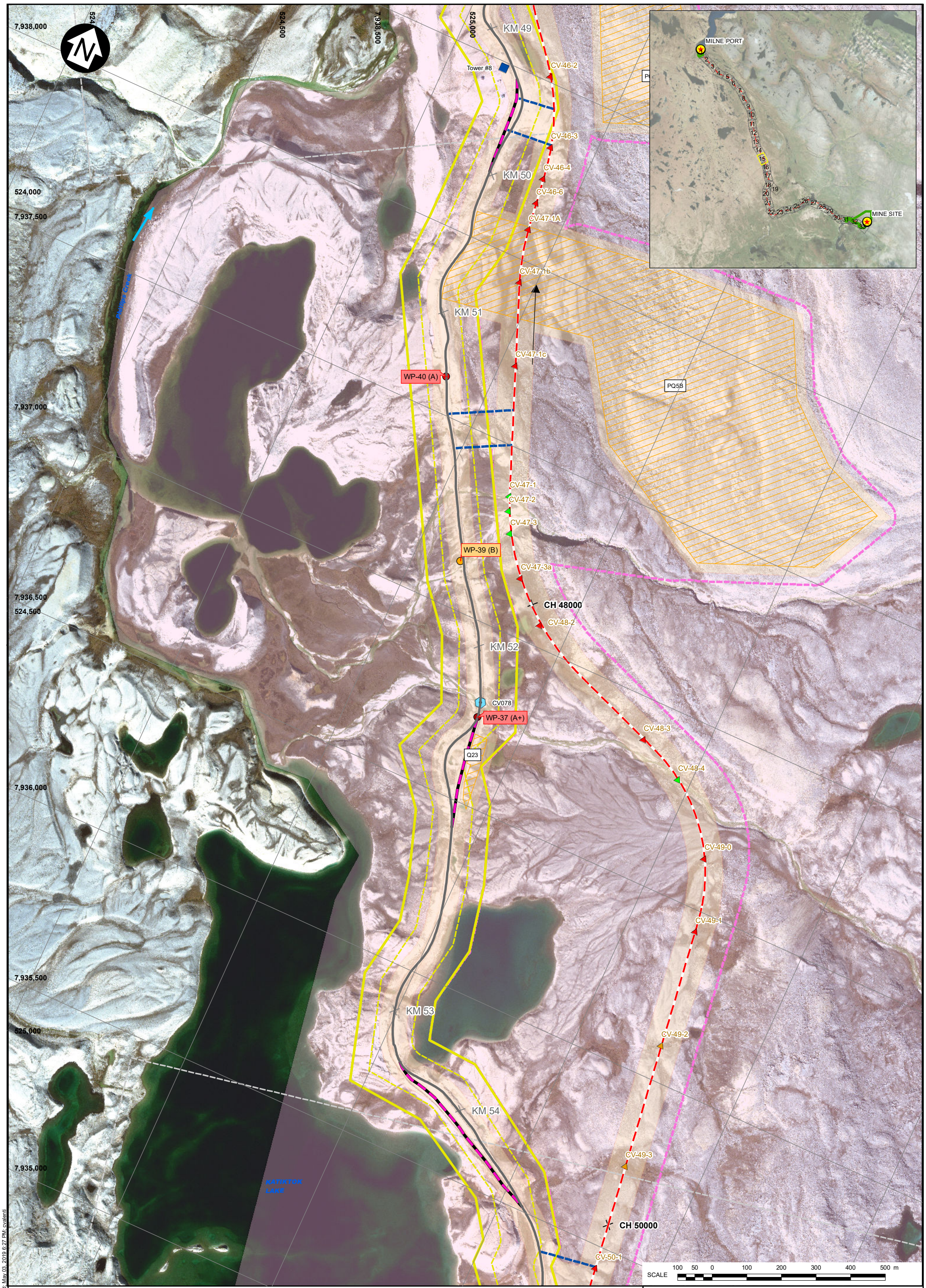

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA
- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS
- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 15 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.16 REV 0

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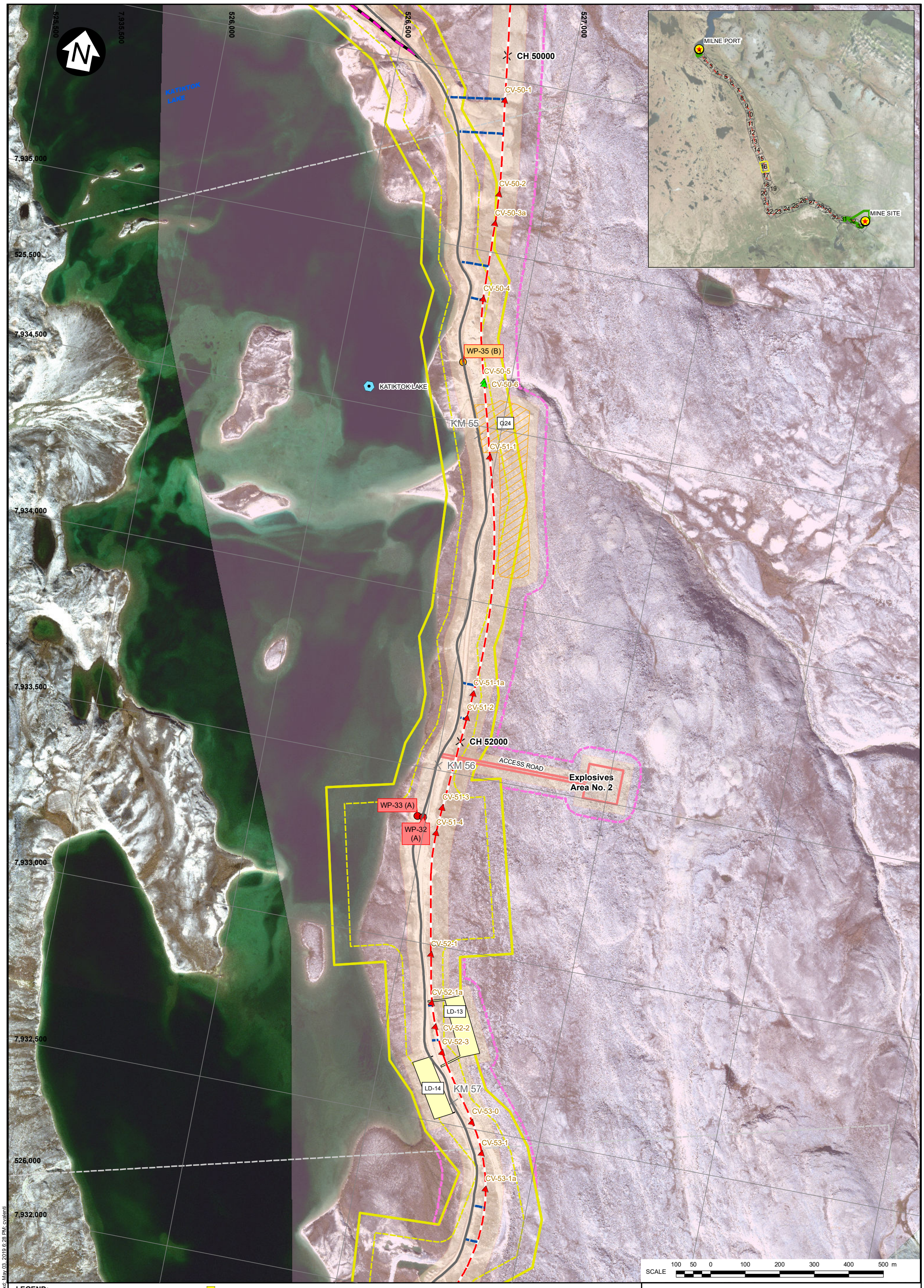

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

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3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 16 OF 33)

Knight Piésold CONSULTING

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NB102-181/53	3

FIGURE A10.17 REV 0

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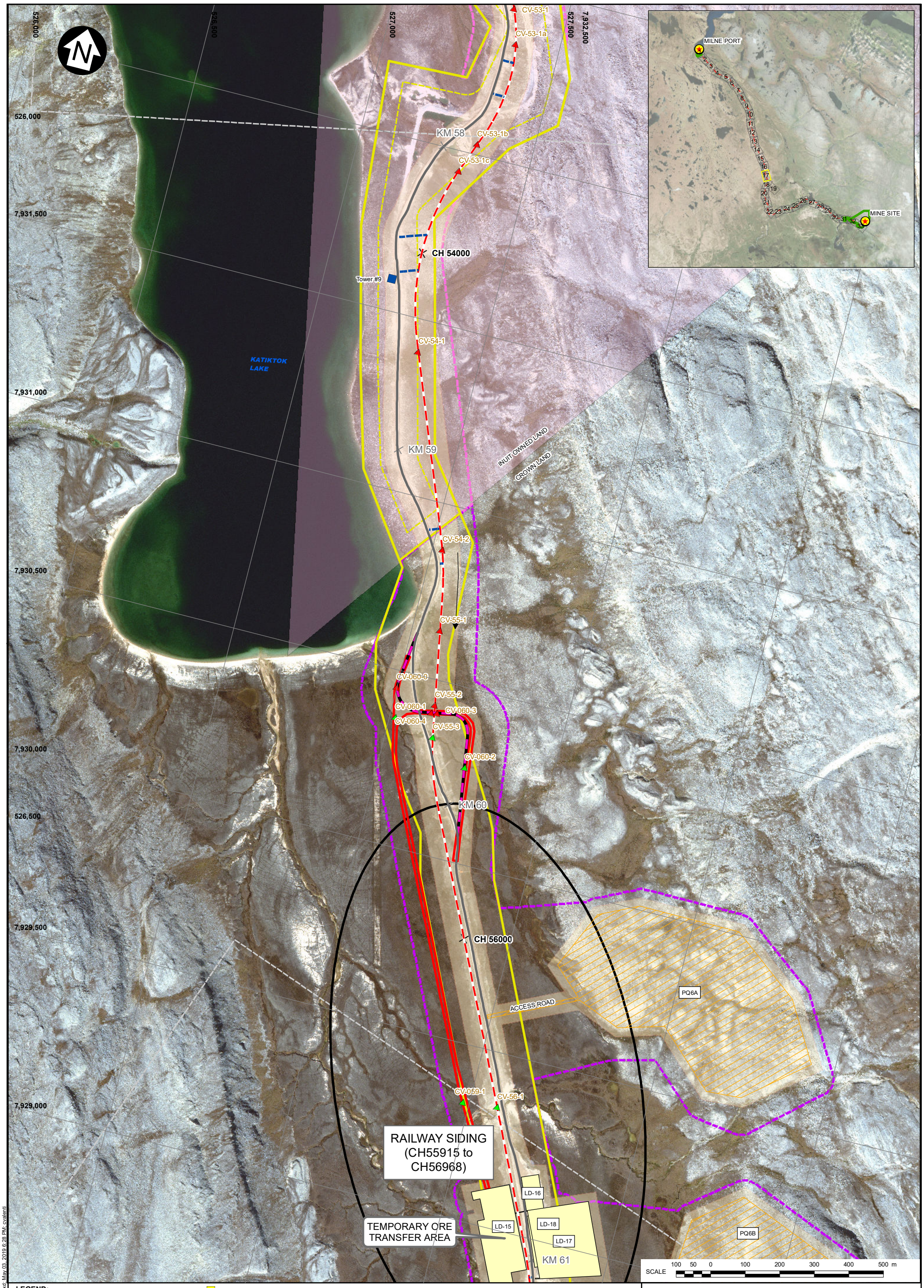

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

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2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY DETAILED CONSTRUCTION PHASE LAYOUT (SHEET 17 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
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FIGURE A10.18 REV 0

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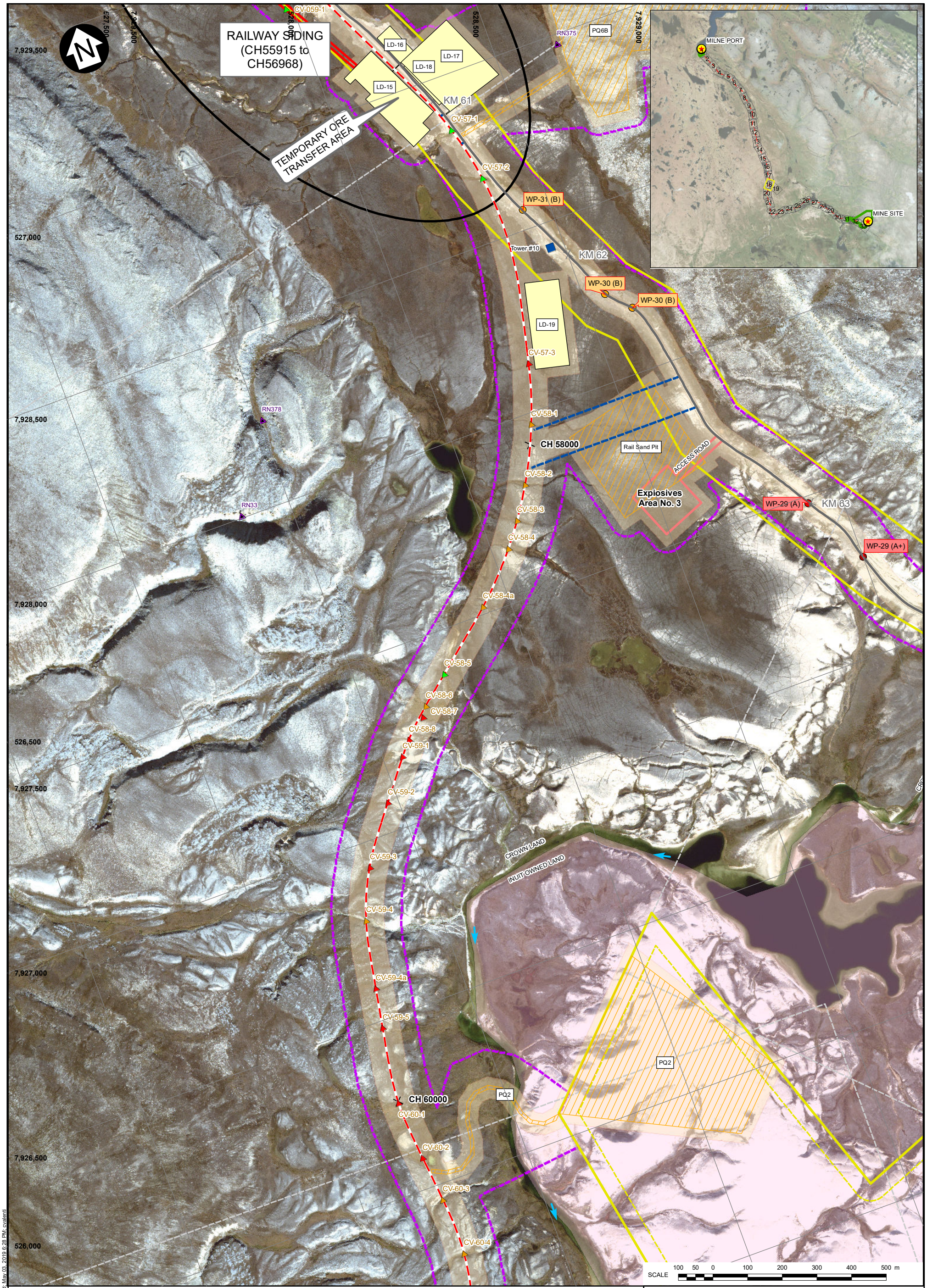

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED
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MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 18 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.19 REV 0

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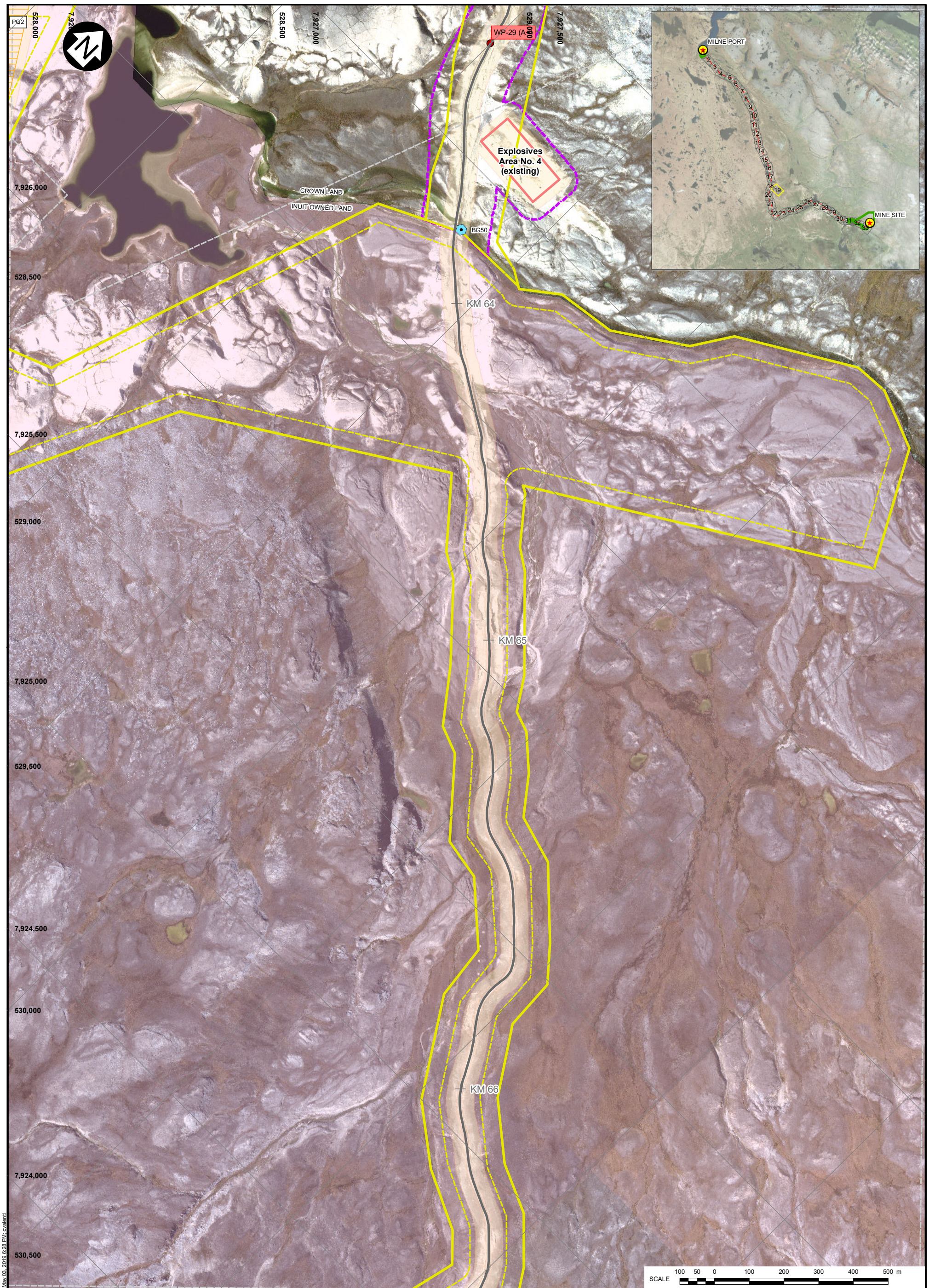

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

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2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED
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BAFFINLAND IRON MINES CORPORATION

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NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 19 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.20 REV 0

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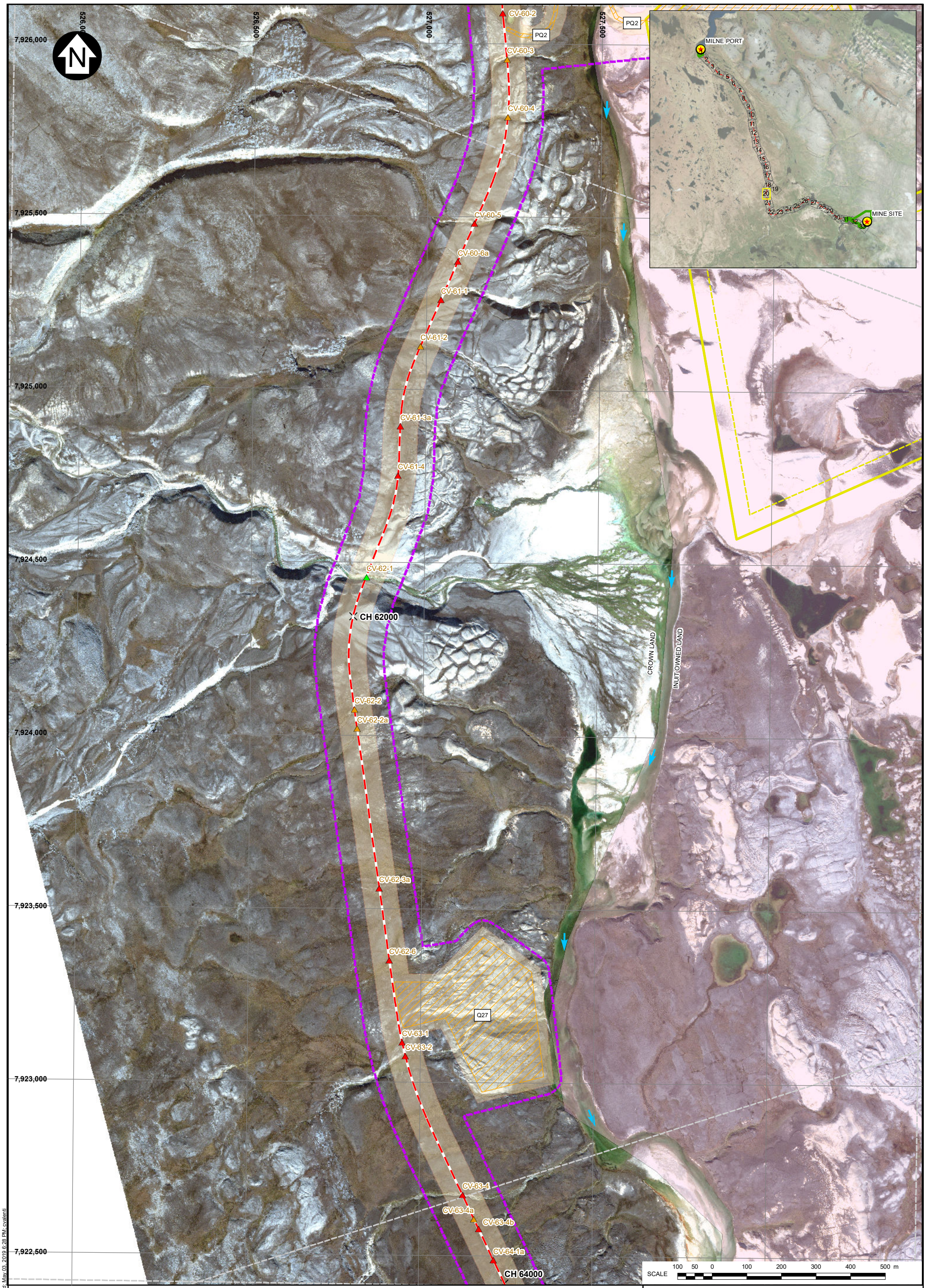

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA
- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
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- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
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- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED
0	02MAY'19	ISSUED WITH REPORT	RAC	AS/CJV	SRA

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 20 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.21 REV 0

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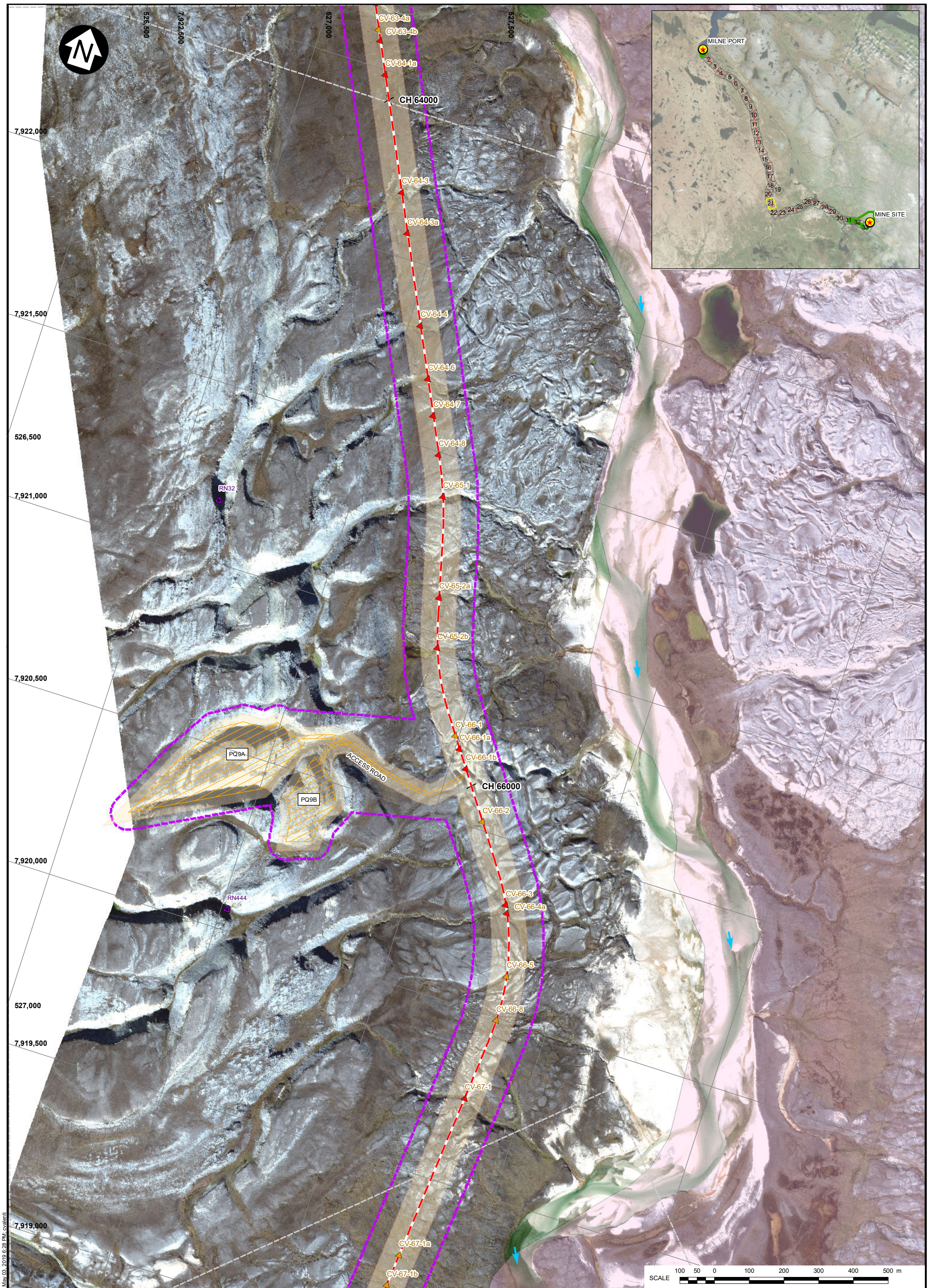

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA
- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS
- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED
0	02MAY'19	ISSUED WITH REPORT	RAC	AS/CJV	SRA

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 21 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.22 REV 0

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LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY
(FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 22 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.23 REV 0

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LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 23 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.24 REV 0

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LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 24 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.25 REV 0

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537,500
538,000
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539,000
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540,000
540,500
7,918,000
7,918,500
7,919,000
7,919,500
537,000
7,918,000
7,918,500
539,500
CV-78-7
CV-79-0
CV-80-1
CV-80-1a
CH 80000
CV-80-1b
CV-80-2a
CV-80-2
CV-80-2b
CV-80-3
CV-80-4
CV-80-5
CV-81-1
CV-81-2
CV-81-3
CV-81-4
CV-82-1
CH 82000
CV-82-3
CV-82-4
CV-83-1
CV-83-1a
RN46
KM 76
KM 77
PQ12A
MILNE PORT
MINE SITE
SCALE 100 50 0 100 200 300 400 500 m

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA
- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS
- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

FLOW DIRECTION

REFERENCE SHEET EXTENT

IOL SURFACE AND SUBSURFACE

IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED
0	02MAY'19	ISSUED WITH REPORT	RAC	AS/CJV	SRA

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 25 OF 33)

Knight Piésold CONSULTING

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NB102-181/53	3

FIGURE A10.26 REV 0

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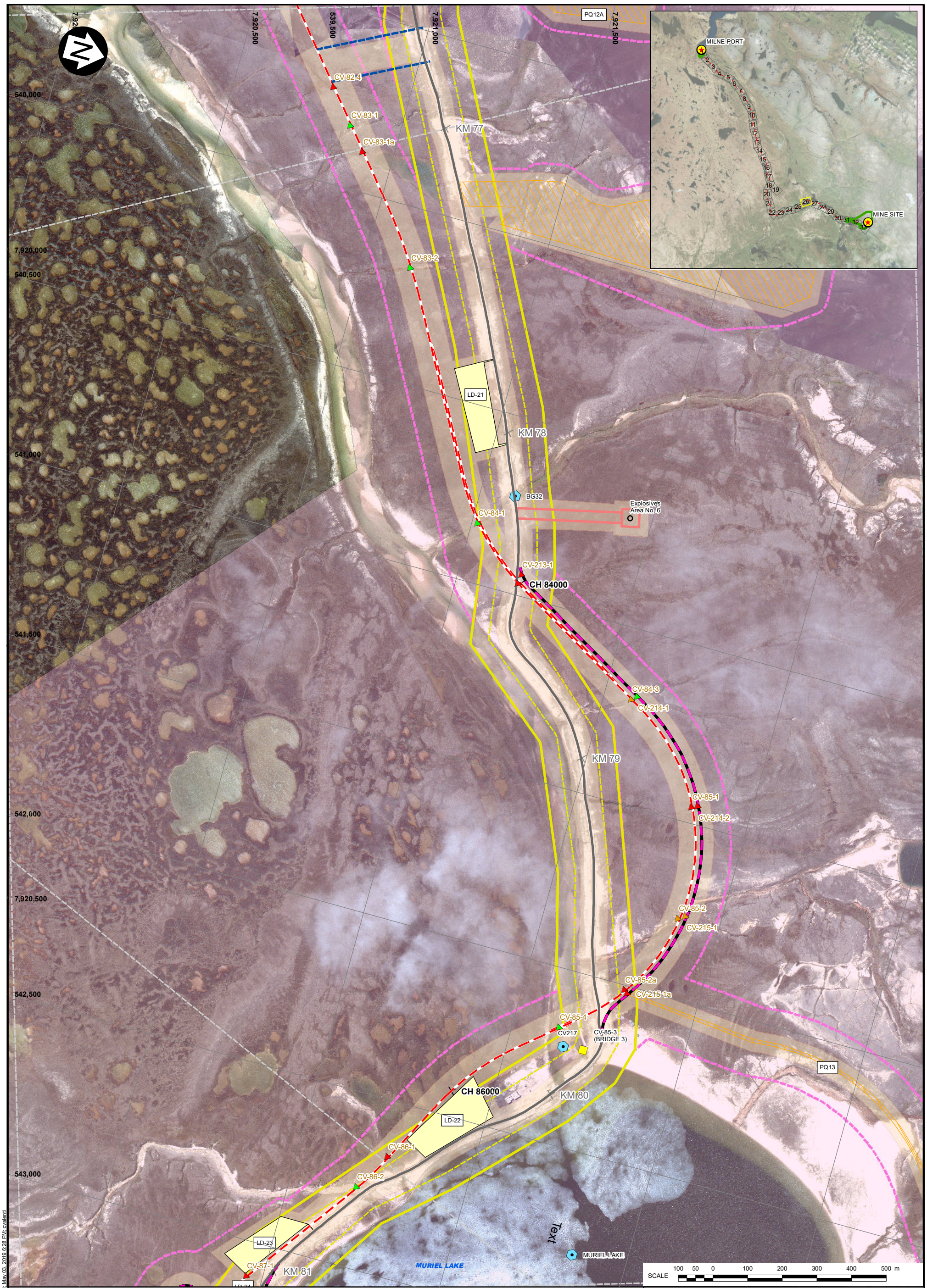

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED
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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 26 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.27 REV 0

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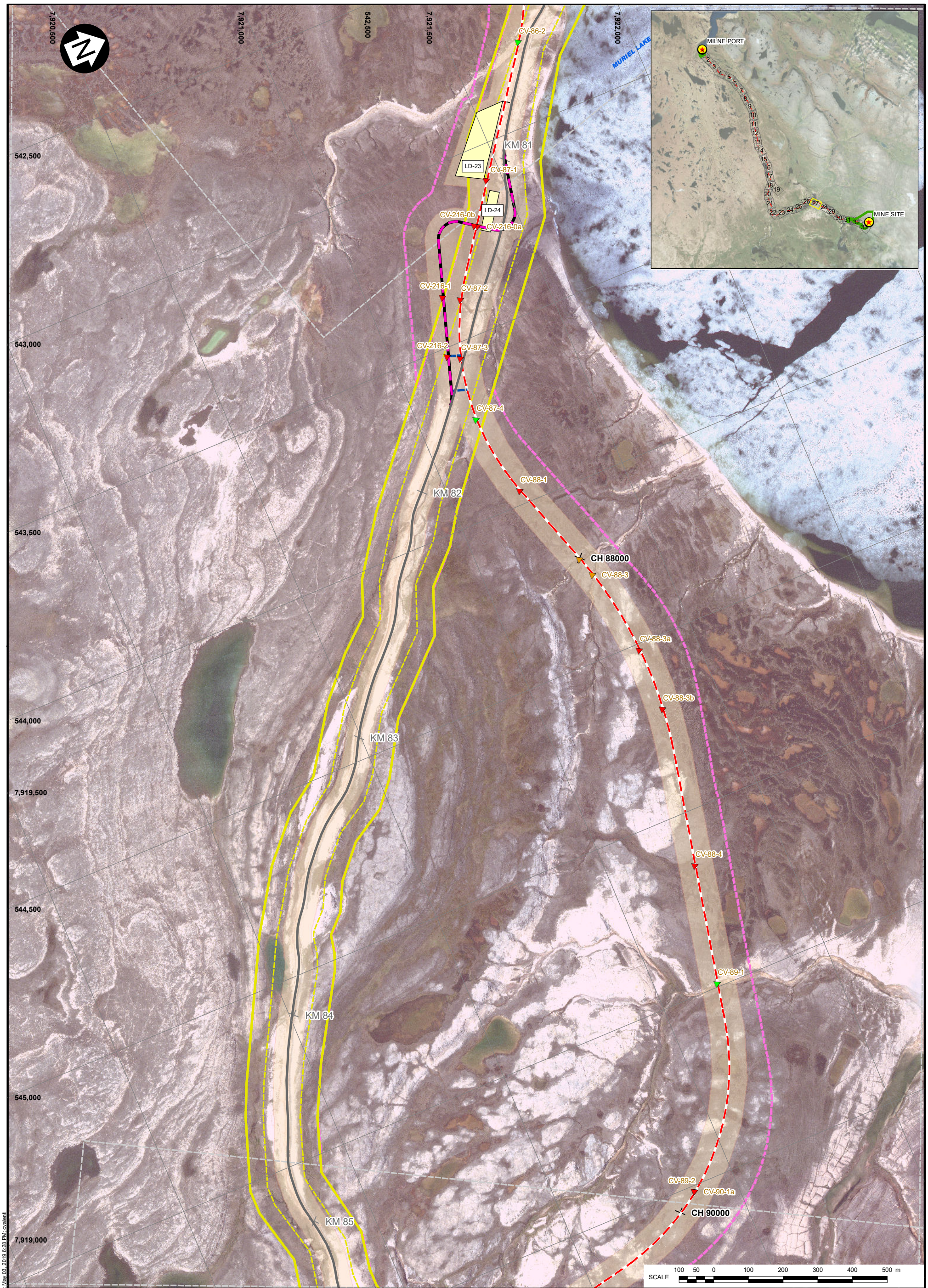

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED
0	02MAY'19	ISSUED WITH REPORT	RAC	AS/CJV	SRA

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 27 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.28 REV 0

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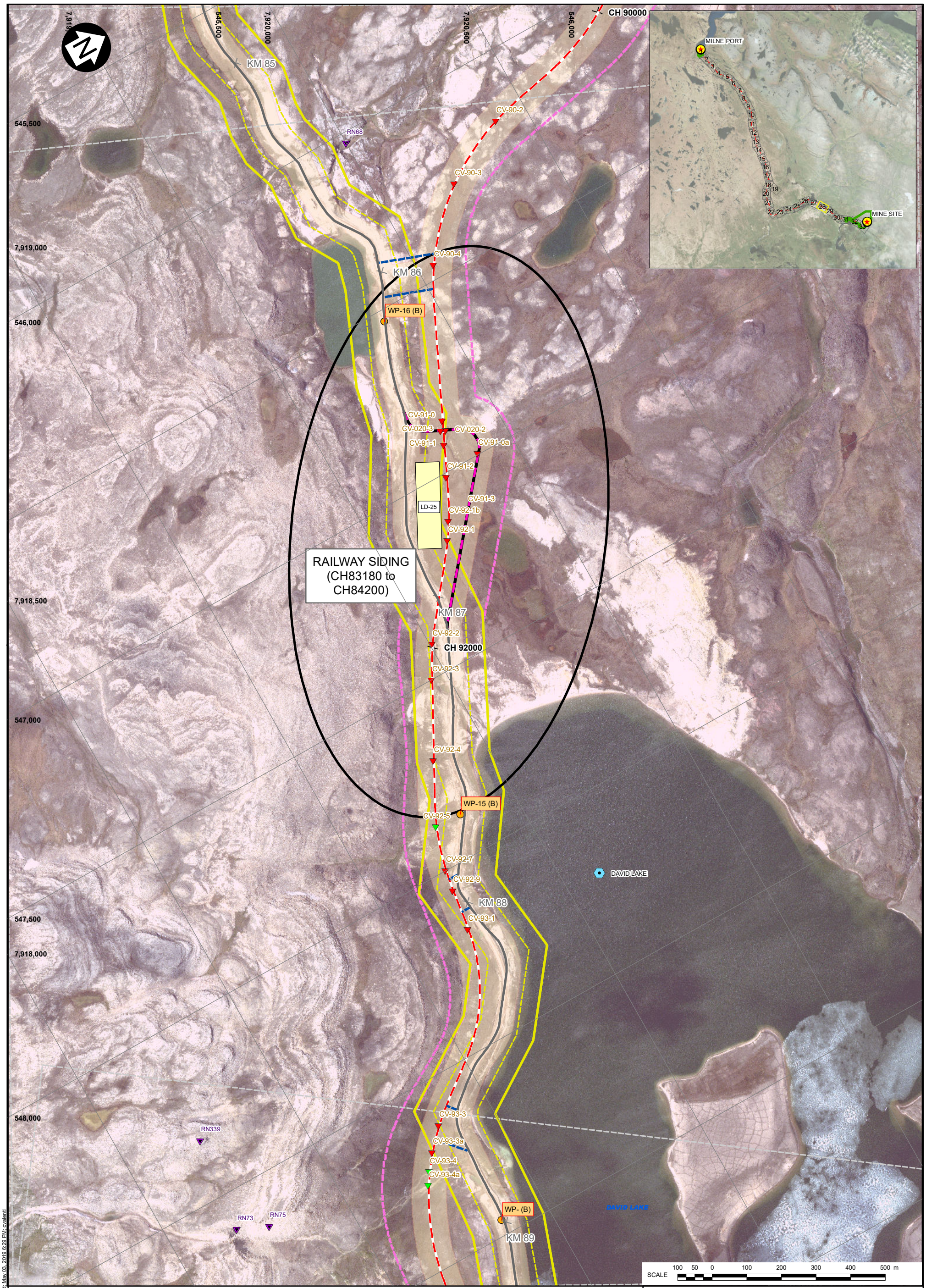

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED
0	02MAY'19	ISSUED WITH REPORT	RAC	AS/CJV	SRA

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 28 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
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FIGURE A10.29 REV 0

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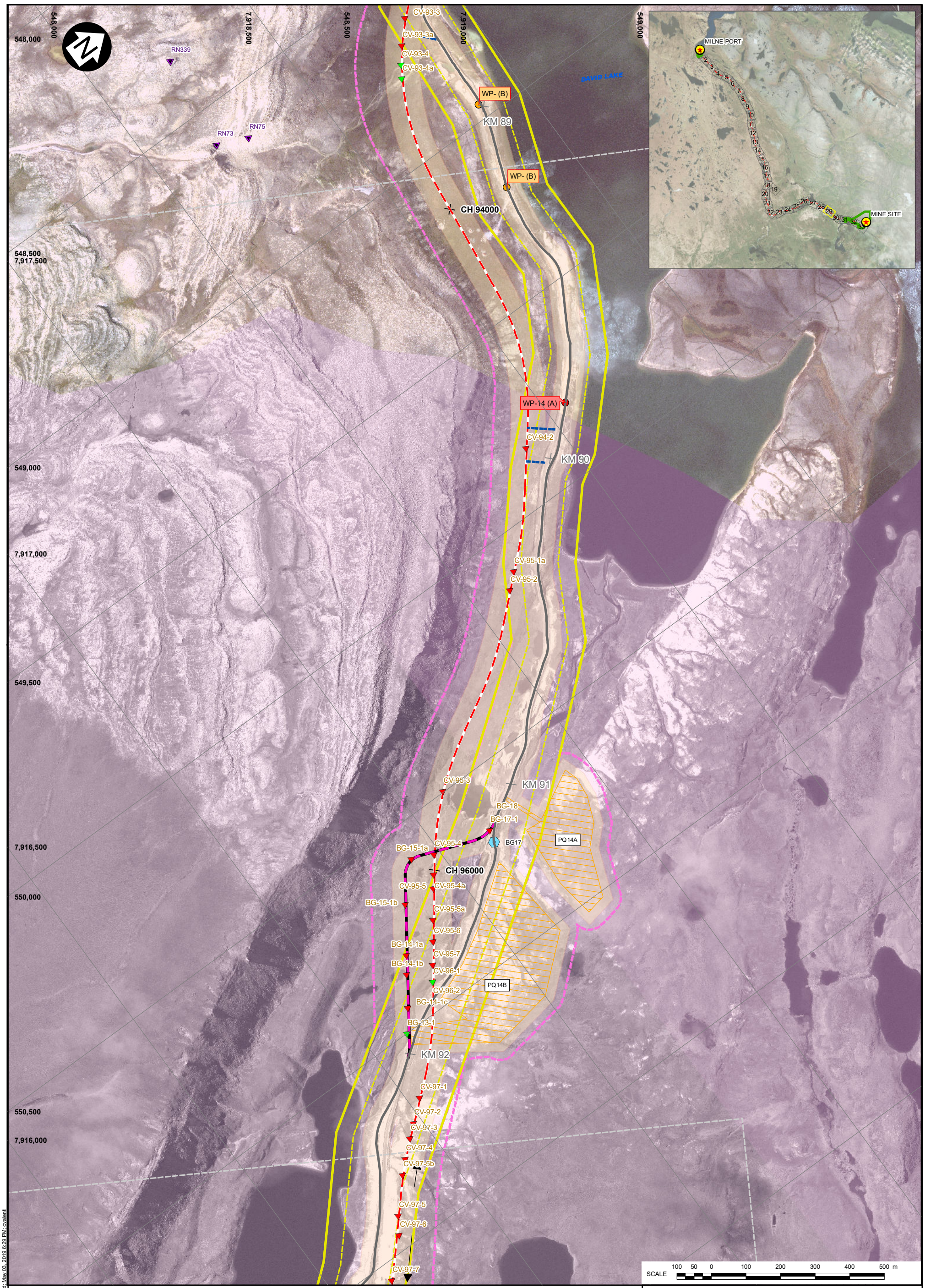

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED
0	02MAY'19	ISSUED WITH REPORT	RAC	AS/CJV	SRA

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 29 OF 33)

Knight Piésold CONSULTING

P/A NO.	REF NO.
NB102-181/53	3

FIGURE A10.30 REV 0

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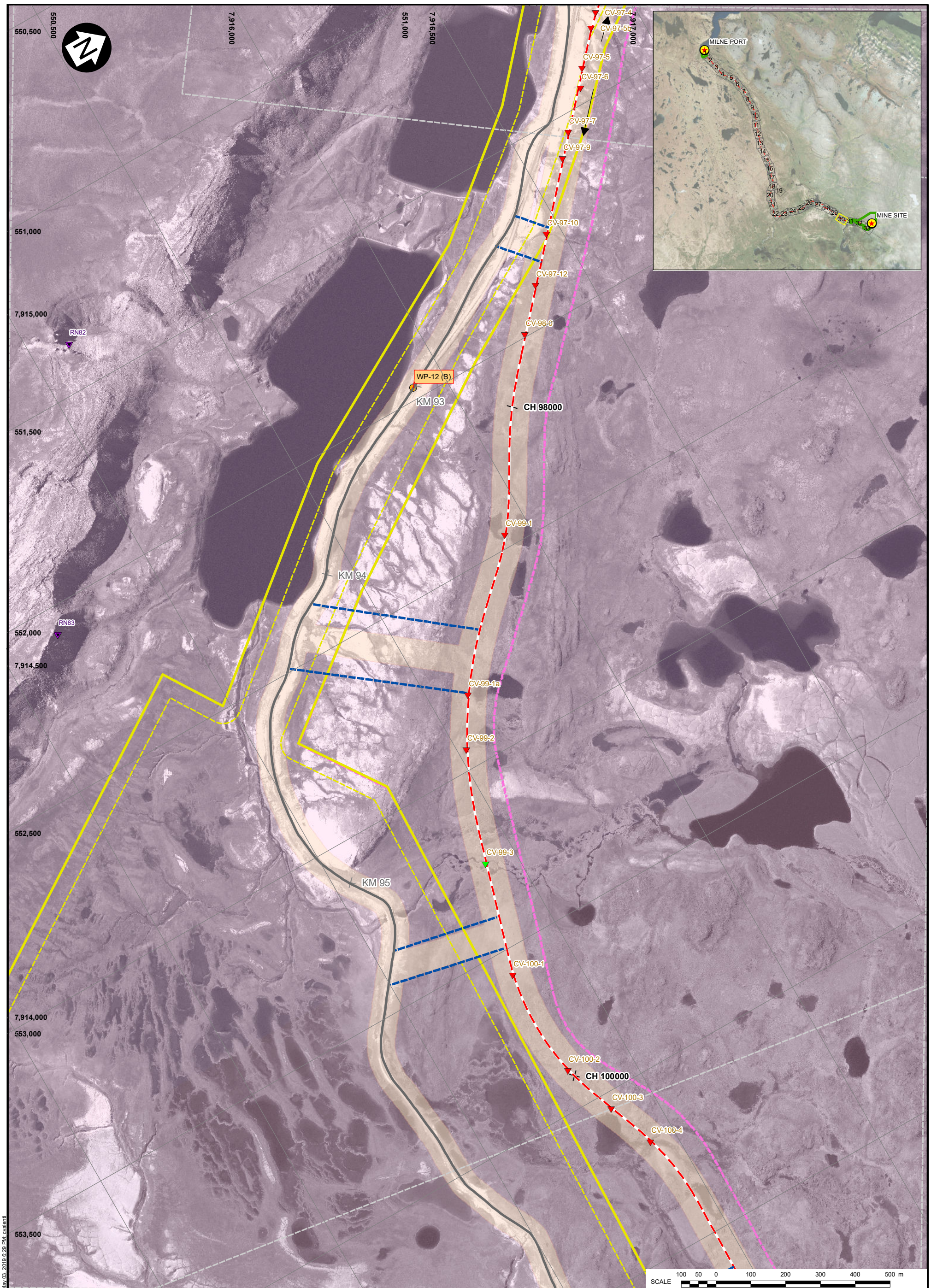

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

- A+ VERY HIGH PRIORITY
- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

1. COORDINATE GRID IS IN METRES. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N.
2. DETAILED WATER AND ORTHO IMAGERY BASED ON OCTOBER 2018 SATELLITE IMAGERY PROVIDED BY BAFFINLAND.
3. FIGURE CREATED BY KNIGHT PIESOLD LTD.

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED
0	02MAY'19	ISSUED WITH REPORT	RAC	AS/CJV	SRA

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 30 OF 33)

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FIGURE A10.31 | REV 0

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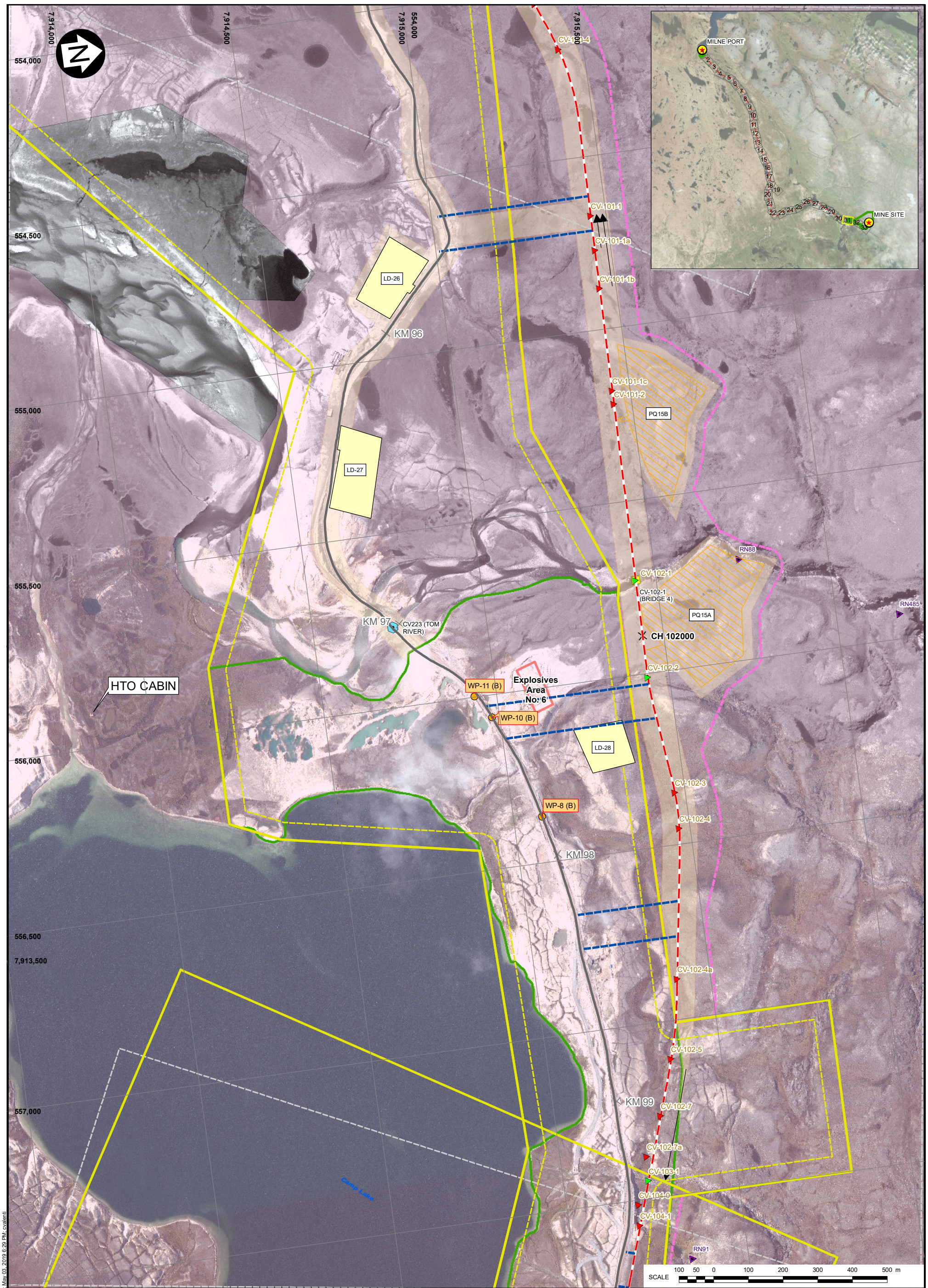

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
- SPOILS DEPOSIT LOCATIONS

- BRIDGE LOCATIONS
- APPROVED WATER SOURCE
- PROPOSED CONSTRUCTION WATER SOURCE
- POTENTIAL DEVELOPMENT AREA (MINE, PORT)
- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
- COMMERCIAL LEASE BOUNDARY
- UNDISTURBED BUFFER FROM COMMERCIAL LEASE BOUNDARY
- PROPOSED ADDITIONAL COMMERCIAL LEASE AREA (IOL)
- PROPOSED CROWN LAND LEASE

EXISTING BORROW AREA RECLAMATION PRIORITY (FROM EBA TETRATECH, 2014)

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- A HIGH PRIORITY
- B MODERATE PRIORITY
- C LOW PRIORITY; STABLE (NOT SHOWN ON THIS FIGURE)

- FLOW DIRECTION
- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
- IOL SURFACE ONLY

NOTES:

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BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 31 OF 33)

Knight Piésold CONSULTING

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FIGURE A10.32 REV 0

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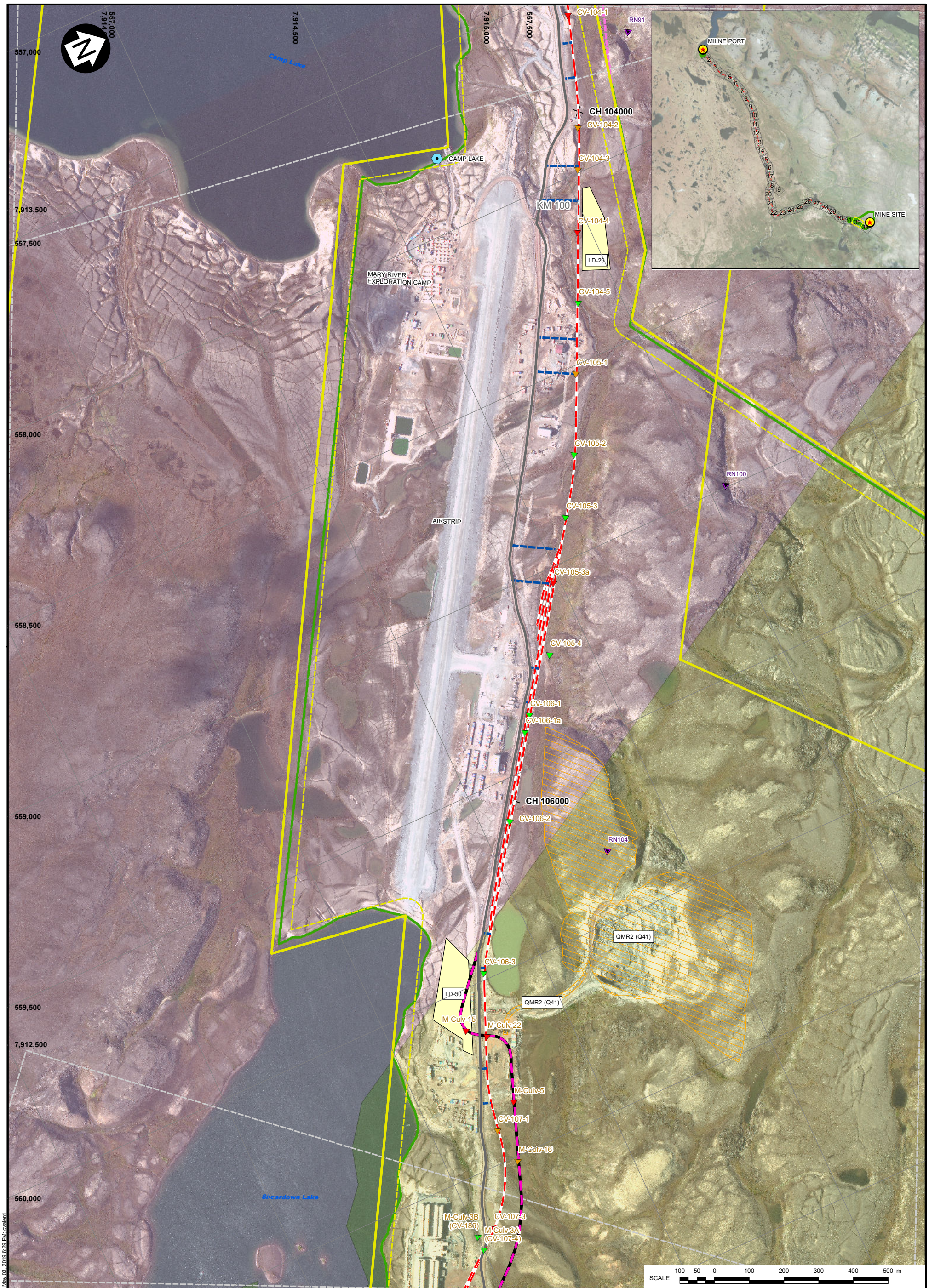

LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

- FISH BEARING
- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
- EXPLOSIVES FACILITIES
- RAPTOR NEST
- COMMUNICATION TOWERS
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- APPROVED WATER SOURCE
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- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
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- REFERENCE SHEET EXTENT
- IOL SURFACE AND SUBSURFACE
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NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 32 OF 33)

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FIGURE A10.33 REV 0

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LEGEND:

- TOTE ROAD km POST
- NORTH RAIL CHANAGE (m)
- QUARRY AREA
- LAYDOWN AREA

FISH HABITAT ASSESSMENT

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- POTENTIAL
- NONE

- MILNE INLET TOTE ROAD
- TOTE ROAD REALIGNMENT
- PROPOSED NORTH RAILWAY
- STREAM DIVERSION
- PROPOSED ACCESS ROAD
- TEMPORARY HAUL ROAD
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- POTENTIAL DEVELOPMENT AREA (TOTE ROAD, NORTH RAIL)
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NORTH RAILWAY
DETAILED CONSTRUCTION PHASE LAYOUT
(SHEET 33 OF 33)

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FIGURE A10.34 REV 0

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