



Government of Newfoundland and Labrador
Department of Environment and Conservation
Water Resources Management Division

AMENDMENT TO PERMIT

Pursuant to the *Water Resources Act*, SNL 2002 cW-4.01, specifically Section(s) 49

Date: **JULY 05, 2016**

File No: **550-01-02-07-075**
Permit No: **PRO7438-2014**
Amendment No: **3**

Permit Holder: **Labrador Island Link Corporation**
P.O. Box 12800
Hydro Place, 500 Columbus Drive
St. Johns, NL A1B 0C9

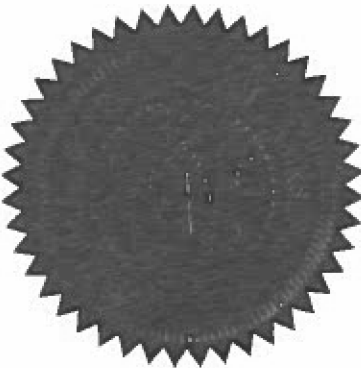
Attention: **Peter Madden**


Re: **Gander WSMC-Gander Lake PPWSA- Linear Development-Labrador Island Link Corporation**

The original Permit dated JUNE 10, 2014 is amended as follows:

To allow for the upgrading of existing roads and construction of new access roads within the Gander Lake PPWSA as proposed in variance request dated June 8, 2016.

All other terms and conditions of the original Permit will apply and failure to comply with the terms and conditions of this amendment and the original Permit will render this Permit null and void, place the Permit Holder and their agent(s) in violation of the *Water Resources Act* and make the Permit Holder responsible for taking any remedial measures as may be prescribed by this Department.




MINISTER

- cc: Mr. James Blackwood, P. Eng.
Town of Gander
100 Elizabeth Avenue
Gander NL A1V 1G7
- cc: Town of Appleton
Ms. Pat Barnes, Town of Appleton
Central Region
P.O. Box 31, Site 4
Appleton, NL
A0G 2K0
townofappleton@personainternet.com
- cc: Town of Glenwood
Ms. Susan Gillingham
PO Box 130
Glenwood NL A0G 2K0
- cc: Mr. Robert Wight (C)
Environmental Scientist
Water Resources Management Division
Department of Environment and Conservation
Provincial Building
Grand Falls - Windsor NL A2A 1W9
- cc: Ms. Paula Dawe, P.Eng.
Manager, Drinking Water and Wastewater Section
Water Resources Management Division
Department of Environment and Conservation
P.O. Box 8700
4th Floor, West Block, Confederation Building
St. John's, NL A1L 4J6
pauladawe@gov.nl.ca
- cc: Mr. Wayne Lynch
Regional Director (Central)
Service NL
PO Box 2222
Gander NL A1V 2N9

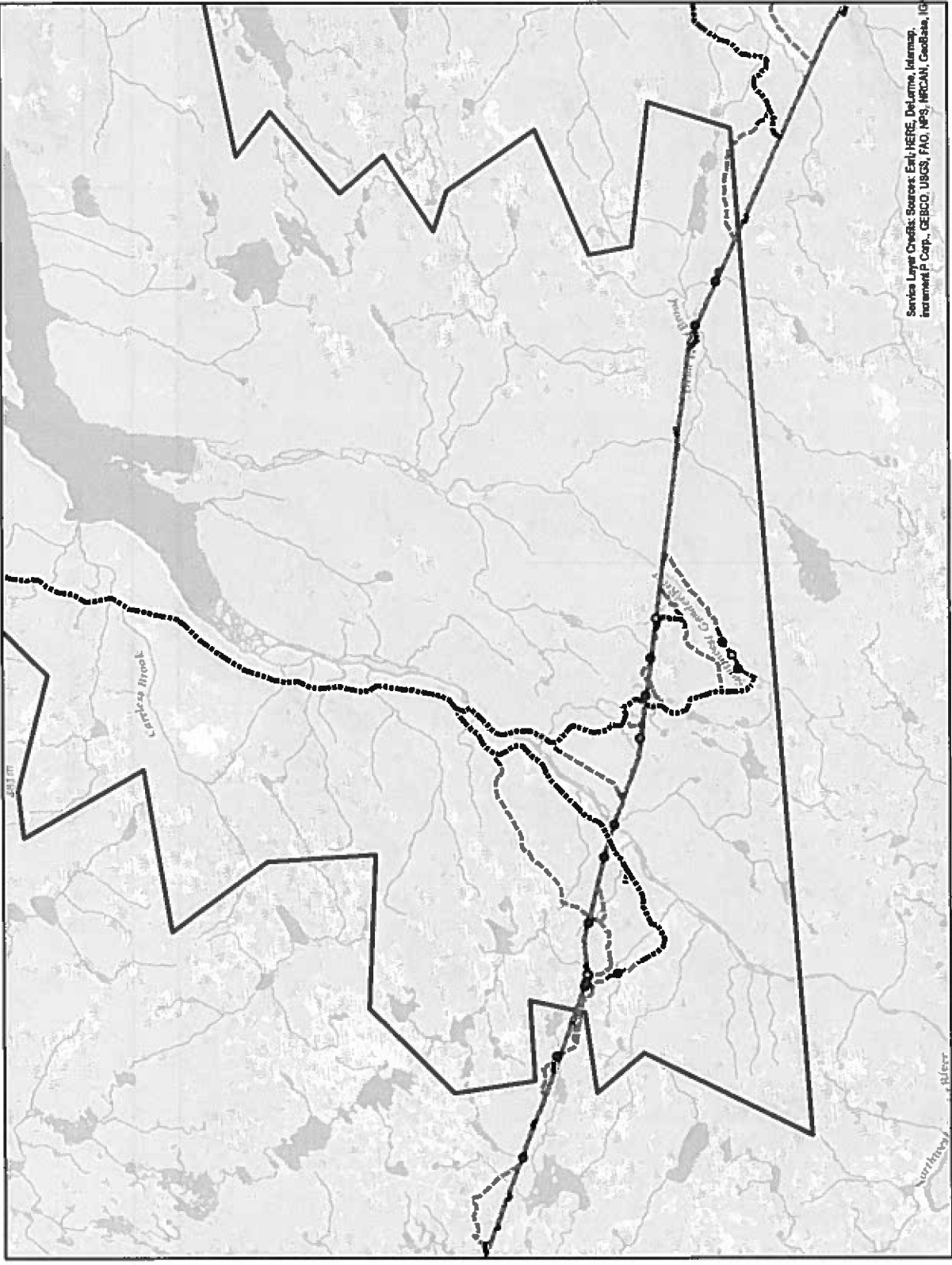


Source: Esri

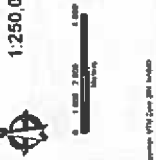
Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GEBCO, IGN.

LEGEND

- River Structure
- Stream Crossing Point, 15M
- Pit
- Adit
- Pond
- ▬ Camp Roads (Open Lines Indicate)
- ▬ Access Roads (Arched and Planned)
- ▬ Open Roads (Open Lines Indicate)
- ▬ 15M IDW
- ▭ Protected Shore Buffer Boundary



1:250,000



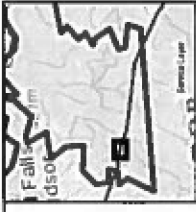
0 1000 2000 4000 Feet

Projection: NAD 83 UTM Zone 18N

LOWER CHURCHILL PROJECT



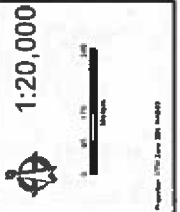
By-Pass and Access Roads in Gander PPWSA



- LEGEND**
- Stream Structure
 - Stream Crossing Phase, 150k
 - Pk
 - Arise
 - Post
 - ▬ Existing Road (Cross Levels Application)
 - ▬ New or Access Road (M-Sub and Planning)
 - ▬ New or Access Road (Cross Levels Application)
 - ▬ 150k BOM
 - ▭ Proposed Water Supply Boundary



Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap,
 International P Corp., GEBCO, USGS, FAO, NPS, ARCAN, Geobase, IGN



LOWER CHURCHILL PROJECT

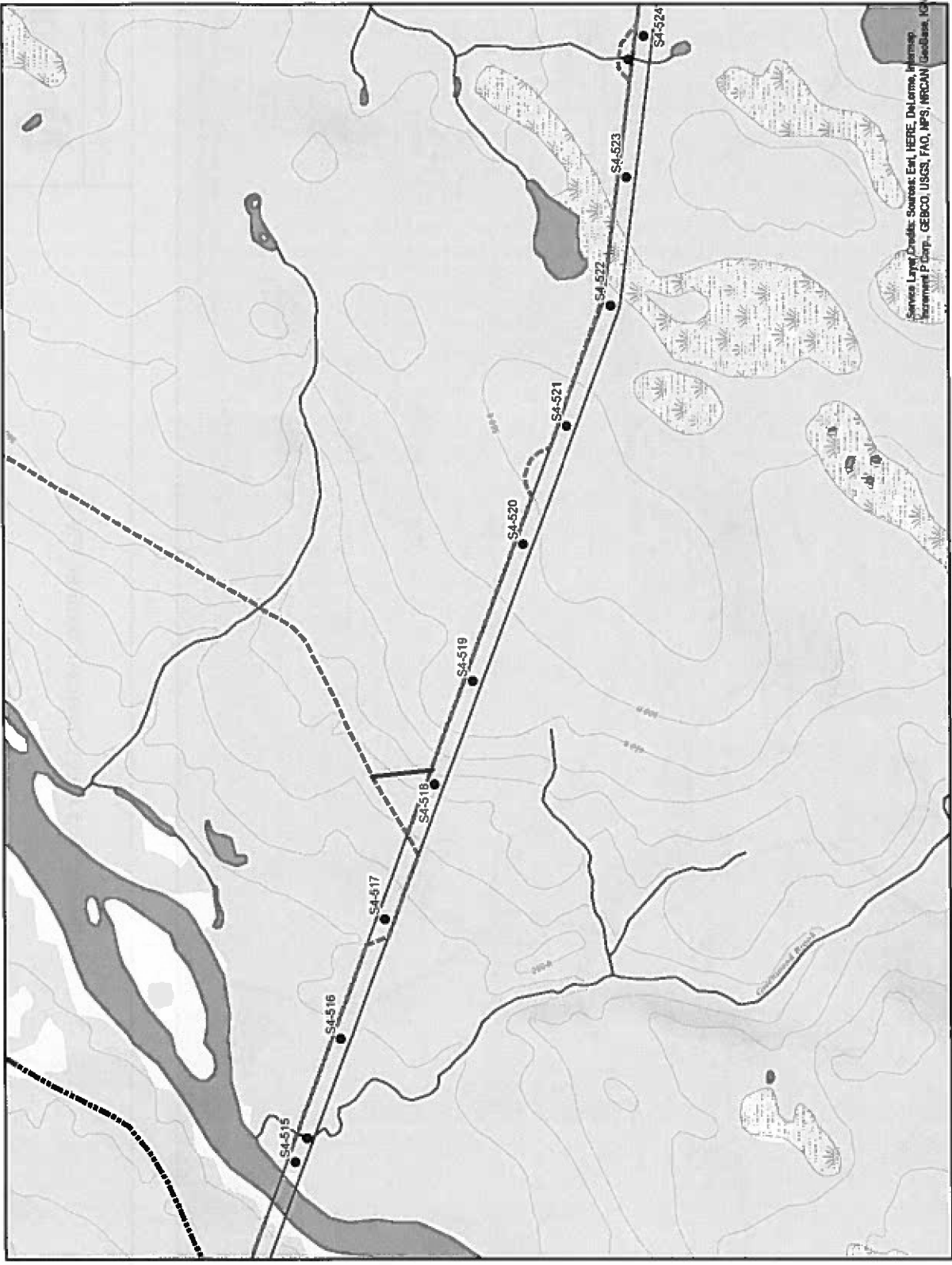
LOWER CHURCHILL PROJECT

By-Pass and Access Roads in Gander PPWSA

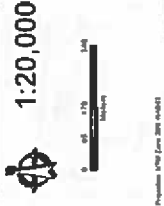


LEGEND

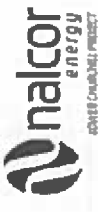
- Spot Elevation
- Stream Crossing Point, 1.50h
- Pit
- Apron
- Post
- ▬ Lining Road (Class 1 with Asphalt)
- ▬ Access Road (Asphalt and Gravel)
- ▬ New Road (Class 1 with Asphalt)
- ▬ New Road
- ▭ Proposed Water Supply Boundary



Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, SwireHea P Corp., GEBCO, USGS, FAO, NPS, NRCAN, Geo-Bank, IGN.

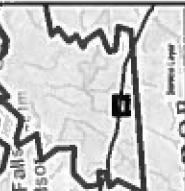


LOWER CHURCHILL PROJECT



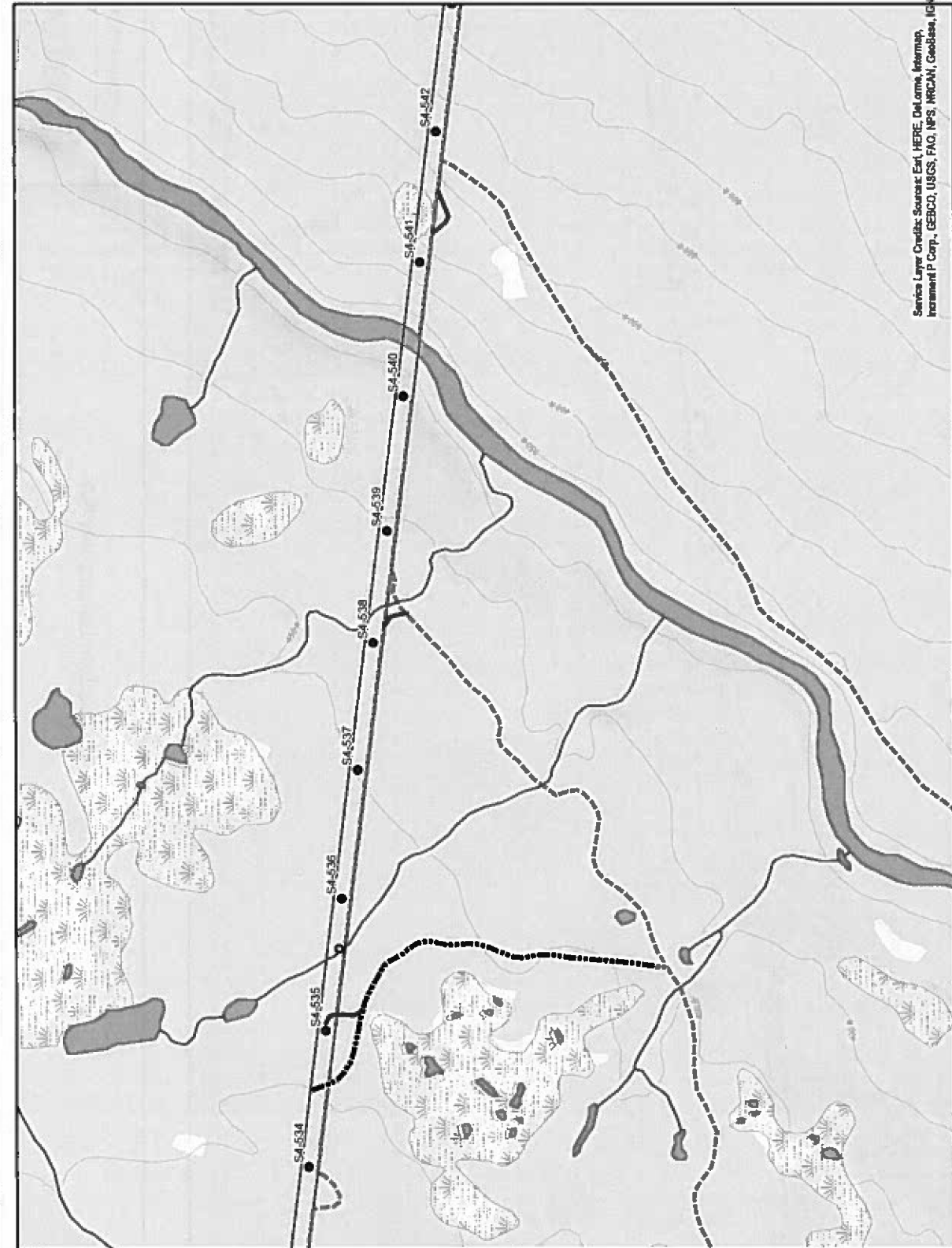
By-Pass and Access Roads in Gander PPWSA

Provision: 1997 (am. 2007) (R-04)



LEGEND

- New Service
- Stream Crossing Point, 1:8th
- P.O.
- Acre
- Plat
- Existing Road (Cross Links Application not to Appro Road Notified and Planned)
- In a Road (Cross Links Application) (Not Not)
- ▭ Project River Study Boundary



Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, Inrament P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GEBCO, IGN

1:20,000

0 0.5 1.0 Miles

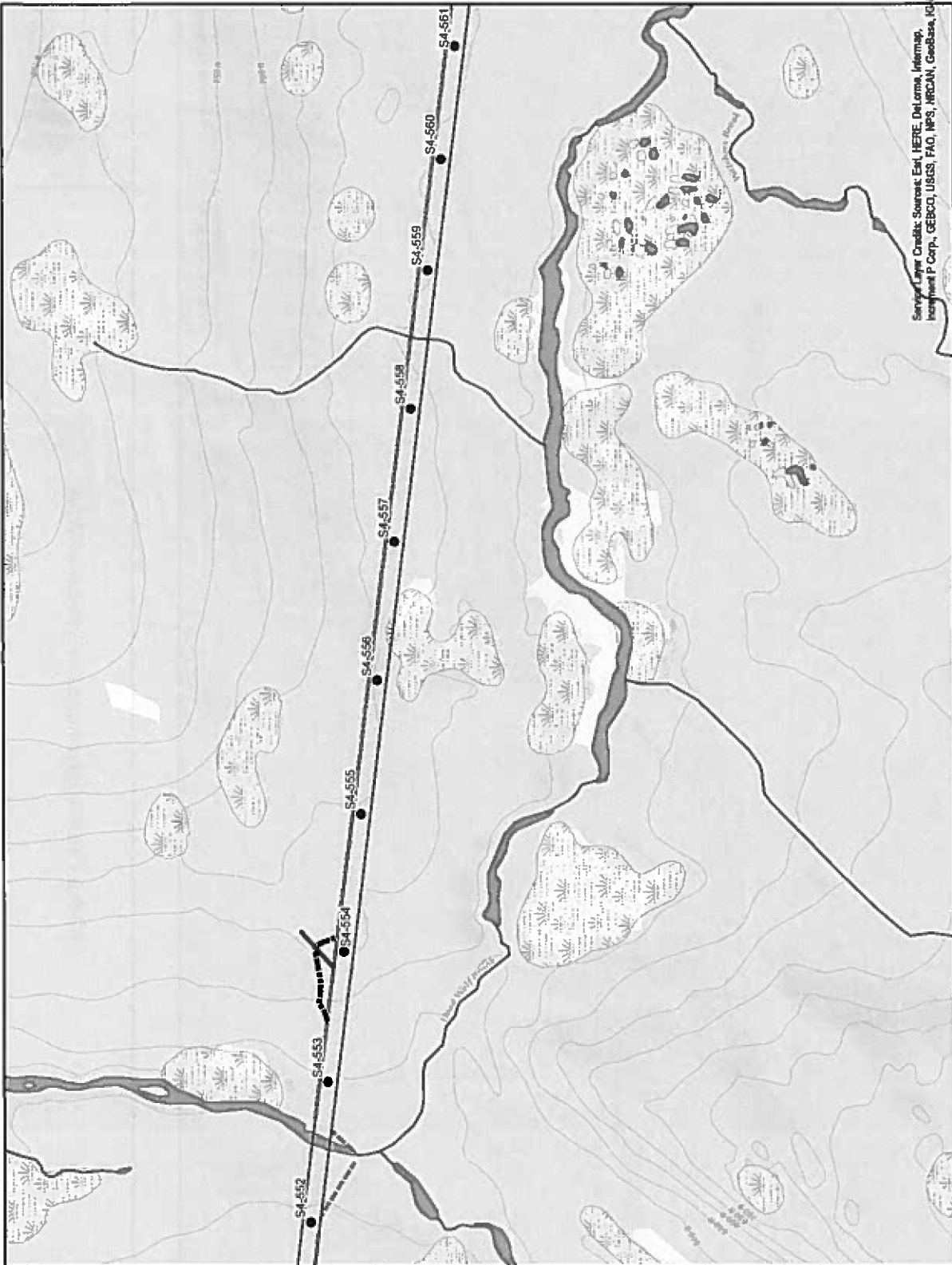
LOWER CHURCHILL PROJECT



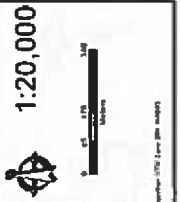
By-Pass and Access Roads in Gander PPWSA



- LEGEND**
- Stream Crossing Point, 150ft
 - Pit
 - Access
 - Pond
 - ▬ Existing Roads (2 and 4 Lane Applications)
 - ▬ Access Roads (Included and Planned)
 - ▬ 10 a Double Crown Lanes (with 1000 ft)
 - ▬ 1000 ft
 - ▬ Proposed Water Supply Boundary



Survey Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, Imagery P Corp., GEBCO, USGS, FAO, NPS, WRCAN, GeoBase, IGN.



LOWER CHURCHILL PROJECT

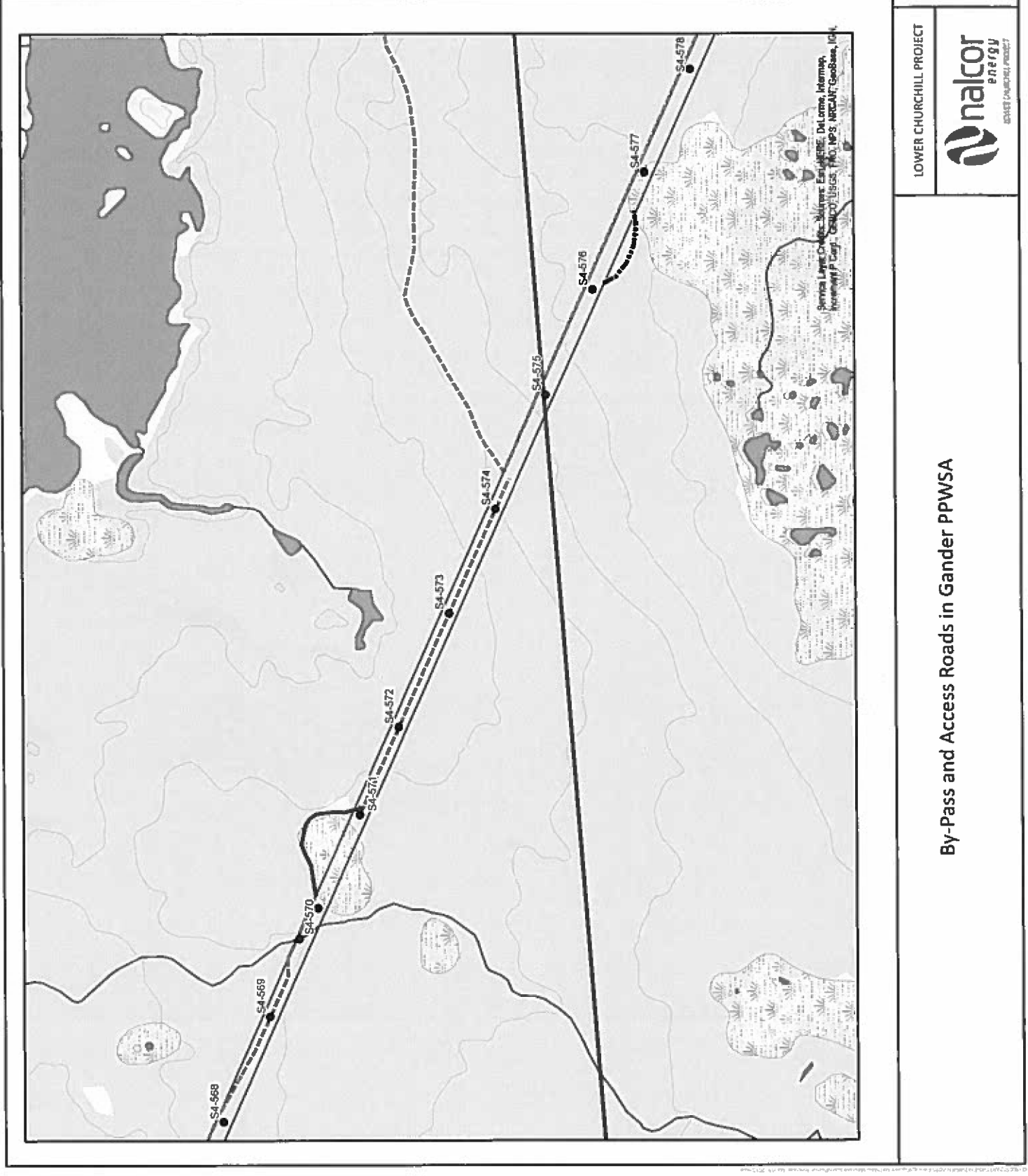


By-Pass and Access Roads in Gander PPWSA

LEGEND

- Survey Station
- ▬ Stream Crossing Phase, 1-588
- PVI
- PVI
- PVI
- ▬ Existing Road (Shown with Right-of-Way)
- ▬ Access Road (Indicated and Planned)
- ▬ Horizontal Curve (Shown with Right-of-Way)
- ▬ 100' R.O.W.
- ▭ Proposed Road South Boundary

Scale: 1" = 100'



LOWER CHURCHILL PROJECT

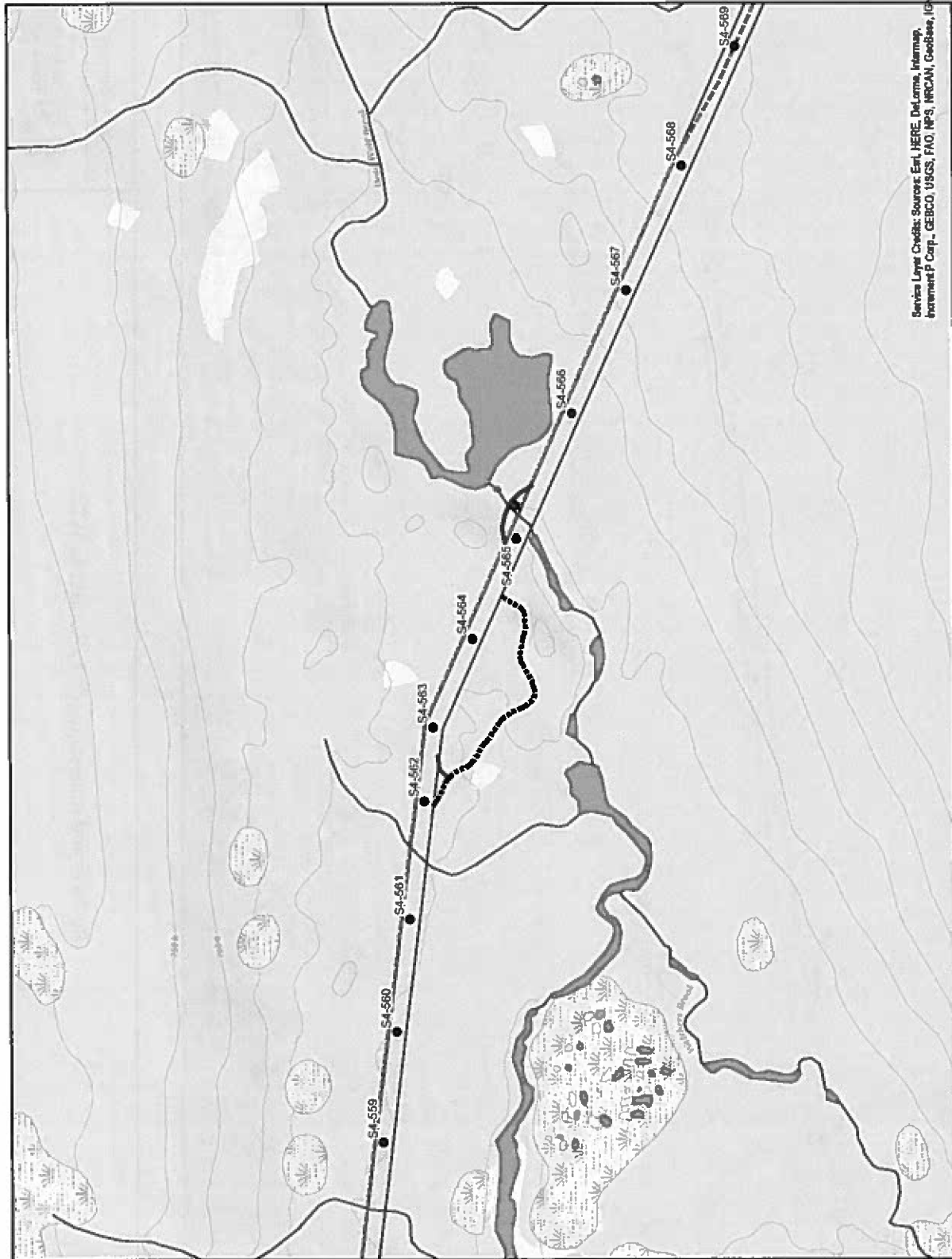
Scale: 1" = 20,000'

By-Pass and Access Roads in Gander PPWSA

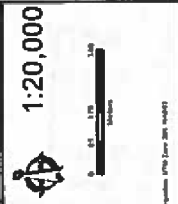
Nalcor Energy
 2018-2019 Annual Report
 Prepared by: [Company Name]



- LEGEND**
- Spot Elevation
 - Stream Crossing Point - 1:500
 - PVI
 - ADMS
 - Point
 - E Existing Road (Cross Lane, Natchez)
 - B Access Road (Proposed and Planned)
 - 100 ft Buffer (Cross Lane, Access Road)
 - 100 ft Buffer (Cross Lane, Access Road)
 - Transmission Water Supply Boundary



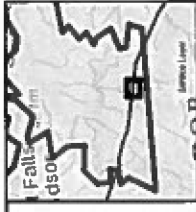
Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, Invenement P Corp., GEBCO, USGS, FAO, NPS, NRCAN, Geobase, IGN



LOWER CHURCHILL PROJECT

LOWER CHURCHILL PROJECT

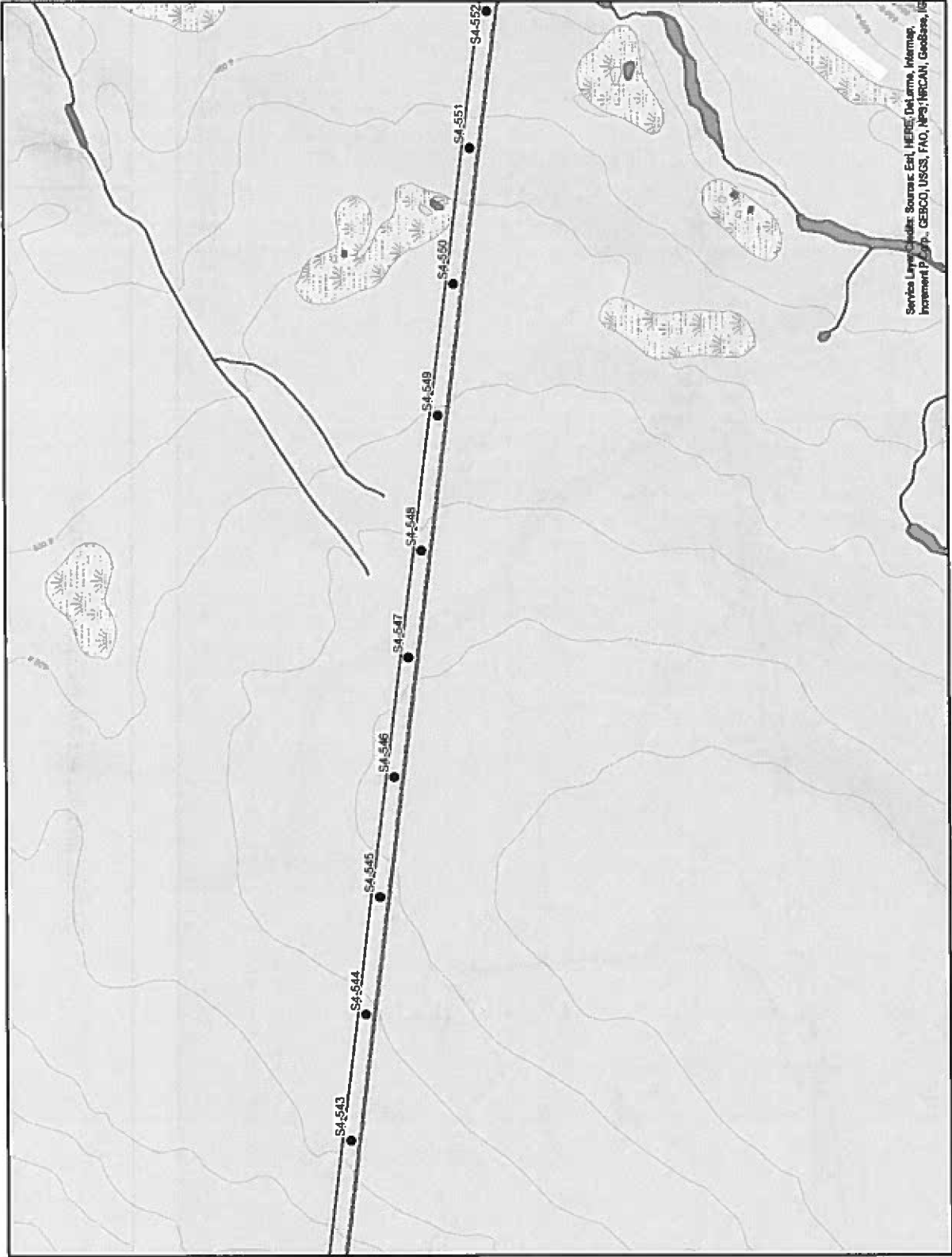
By-Pass and Access Roads in Gander PPWSA



LEGEND

- Spot Elevation
- Stream Crossing Plans, 1:50k
- Pile
- Access
- Post
- Proposed Road Right-of-Way Boundary

Service Lines Provider: Sourinac Est, HERC, DeLima, Intermap, Inprovent P, etc., GEBCO, USGS, FAO, NPS, NRCAN, Geobase, IGN.

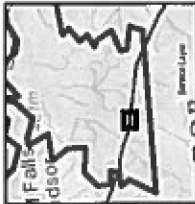


LOWER CHURCHILL PROJECT

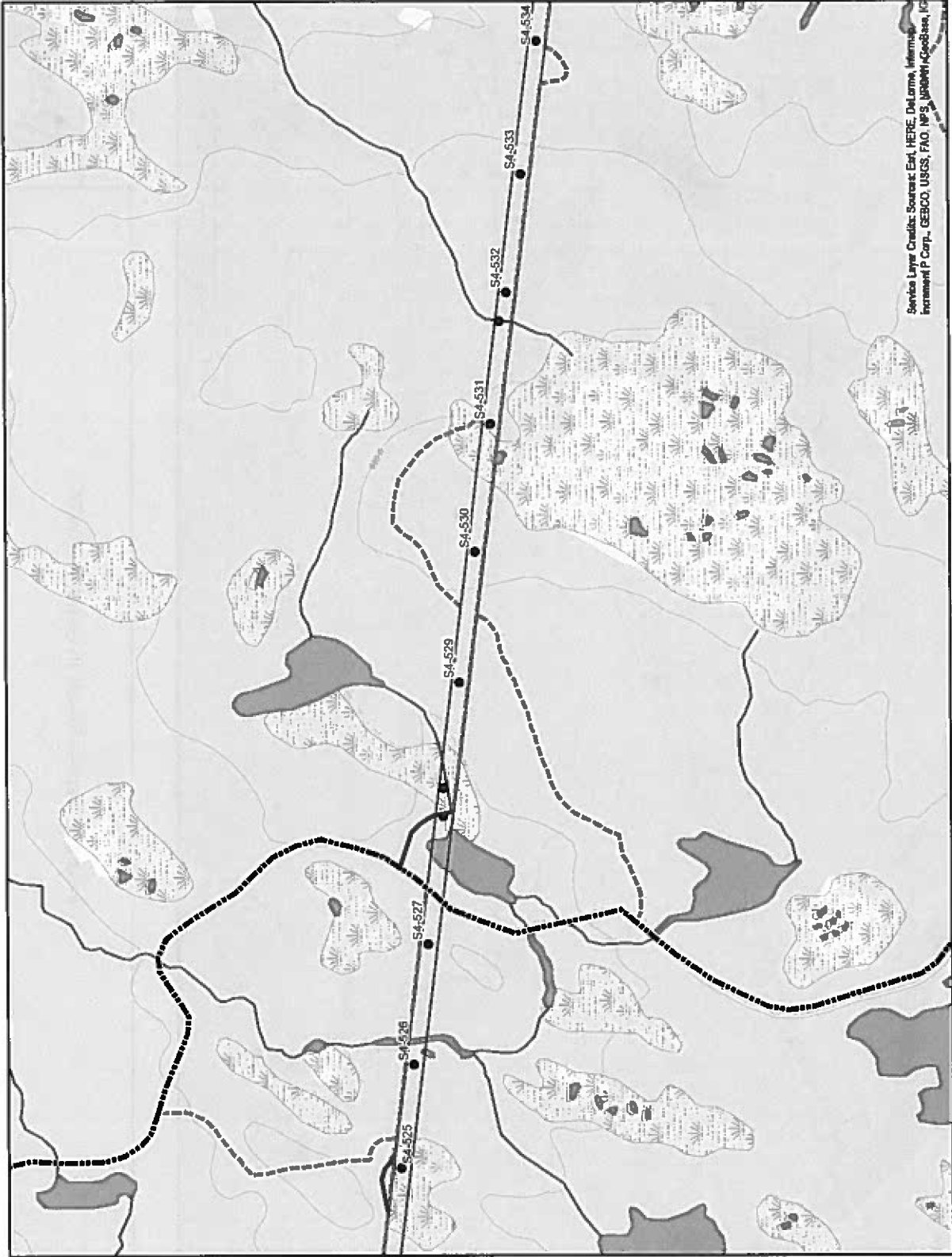
nalcor
energy

LOWER CHURCHILL PROJECT

By-Pass and Access Roads in Gander PPWSA



- LEGEND**
- Invert Borehole
 - Stream Crossing Phase, 1.5th
 - Pile
 - Anchor
 - Pier
 - Existing Bridge (Cross 1 with high water)
 - New Access Road (Abutment and Pilecap)
 - New Bridge (Cross 1 with high water)
 - Hole BOM
 - Proposed Power Supply Boundary



Service Layer Credits: Source: Esri, HERE, DeLorme, Intermap, Inc., Swisstopo, GEBCO, USGS, FAO, NPS, NGA, NRC, GEBCO, IGN, etc.



LOWER CHURCHILL PROJECT

ENERGY
LOWER CHURCHILL PROJECT

By-Pass and Access Roads in Gander PWSA



- LEGEND**
- Tower Location
 - Stream Crossing Phase, 1-5A
 - Pit
 - Active
 - Pond
 - ▭ Existing Road (Cross Lane Application)
 - ▭ Access Road (Access and Phase)
 - ▭ Access Road (Cross Lane Application)
 - ▭ 100' Buffer (Cross Lane Application)
 - ▭ 100' Buffer
 - ▭ Proposed Power Supply Boundary



Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, Swirex, GEBCO, USGS, FAO, JRS, IGN, GEBCO, GEBCO, IGN, Swirex, GEBCO, USGS, FAO, JRS, IGN, GEBCO, GEBCO, IGN

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Author: 1/18/2018 10:30 AM

LOWER CHURCHILL PROJECT

nalcor energy
SUSTAINABLE ENERGY PROJECT

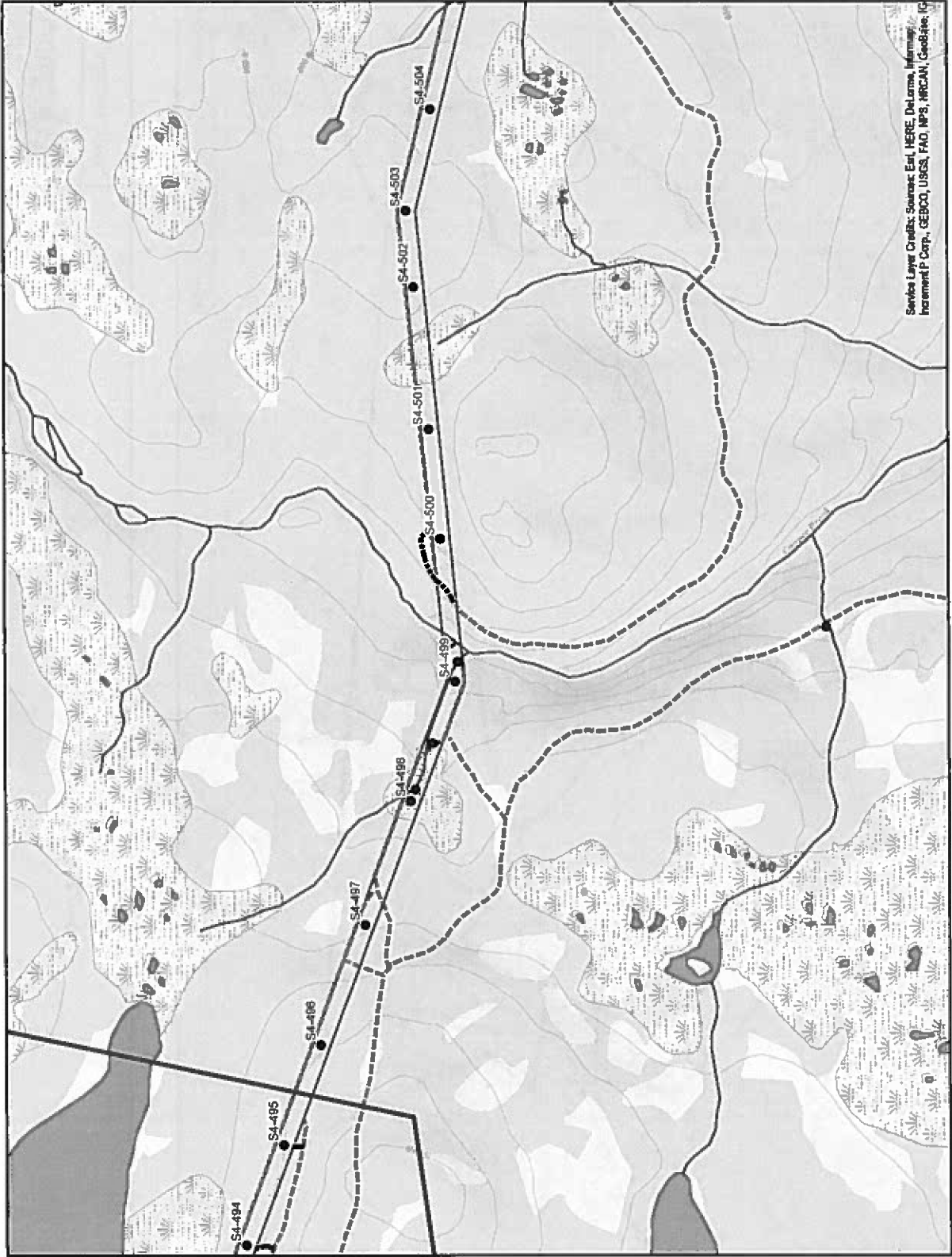
By-Pass and Access Roads in Gander PPWSA



LEGEND

- Super Boundary
- Stream Crossing Phase, 1500
- Point
- Pond
- Well
- Casing Road (From Lake Modification)
- All Other Phase (Avalanche and Phreatic)
- New Road (Lined) (with Application)
- H&H ROW
- Unimproved Super Supply Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, MRCAN, GEBCO, IGN.



1:20,000

North Arrow

0 50 100 200
Meters

Approved: 1/19/2024

LOWER CHURCHILL PROJECT



By-Pass and Access Roads in Gander PPWSA