Bidders' Conference – RFP for Environmental Monitoring Services Faro Mine Remediation Project EZ897-220593/A

Faro Mine Remediation Project

PSPC Pacific Region

December 14, 2021

Meeting instructions

- Please turn audio “off”
- Questions?
  - Please use the Chat function during conference
  - After conference, please email questions to Daphne.yu@pwgsc-tpsgc.gc.ca

Agenda

1. Introduction
2. Opening Remarks from Ross River Dena Council
3. Overview of the RFP
4. Required Services
5. Overview of the Faro Mine Site
6. Questions and Answers

Ross River Kaska Dena

Faro Mine Complex and Changed Lives

Agenda

- Opening prayer – Chief Caesar
- Opening comments - Chief Caesar
- Faro Mine, what it means to Ross River Kaska Dena – Chief Caesar/Stanley Noel
- Faro and Reconciliation
- Other

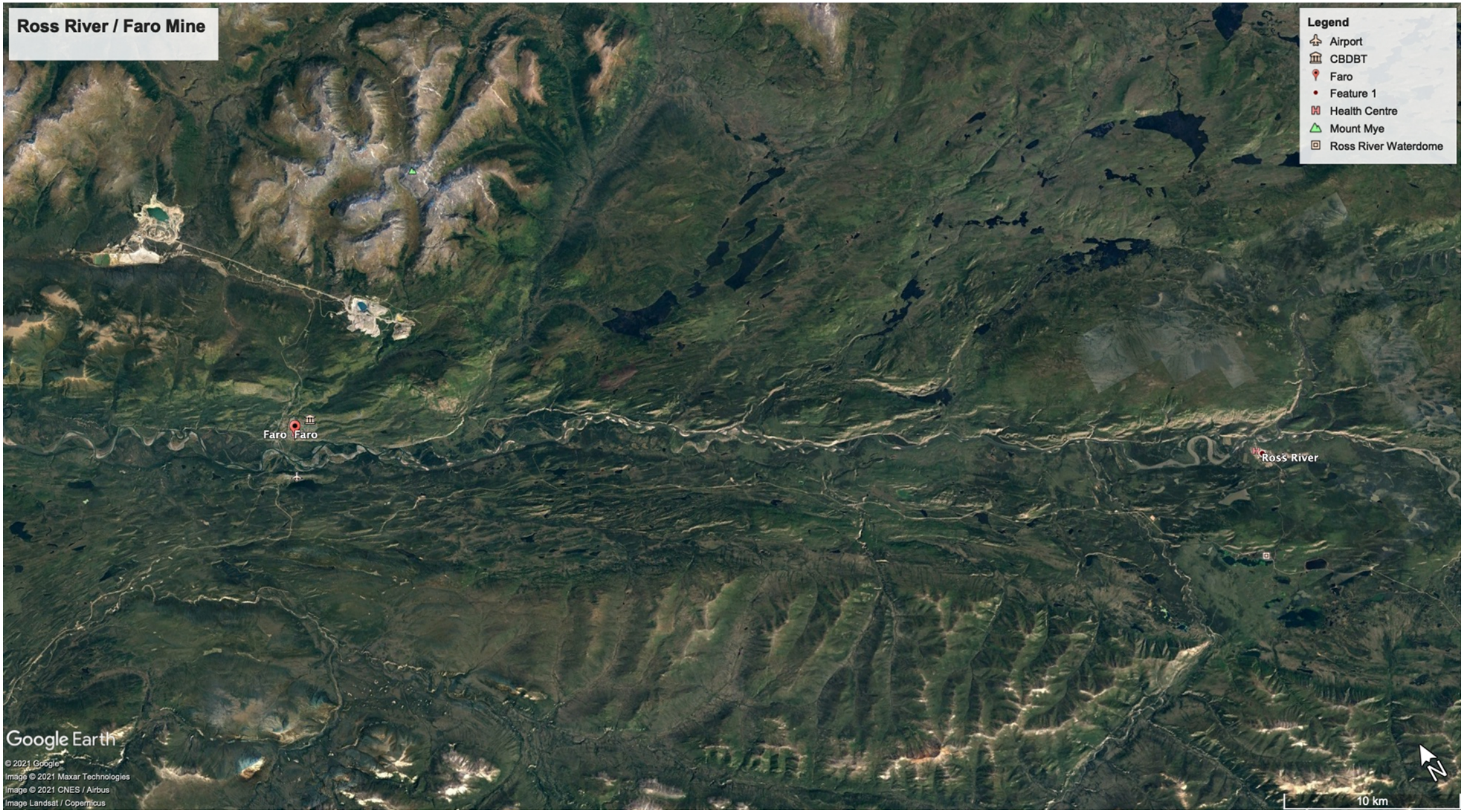
Ross River / Faro Mine
Legend
Airport
CBDBT
Faro
Feature 1
Health Centre
Mount Mye
Ross River Waterdome
Faro
Faro
Ross River
Google Earth
© 2021 Google
Image © 2021 Maxar Technologies
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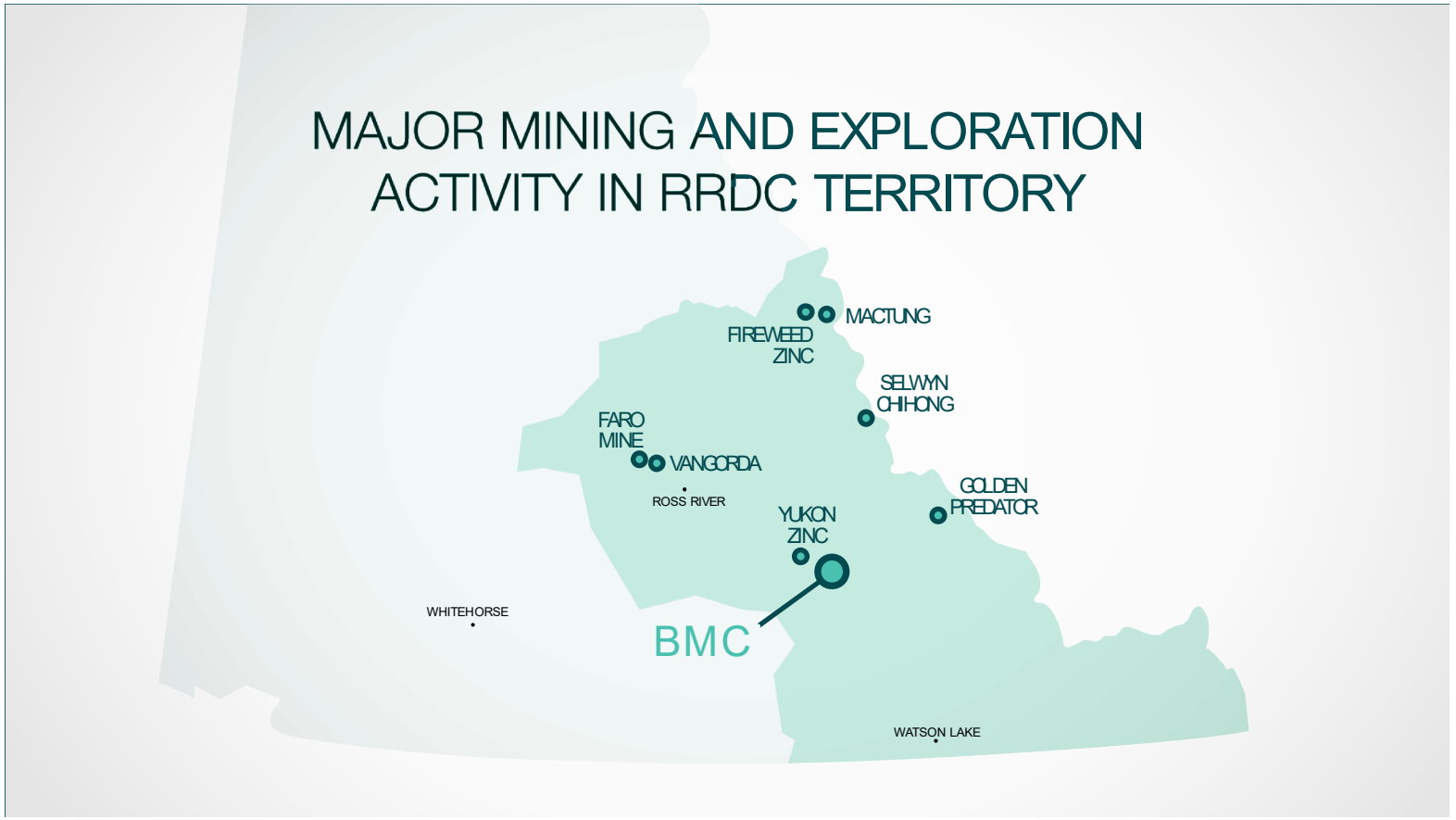
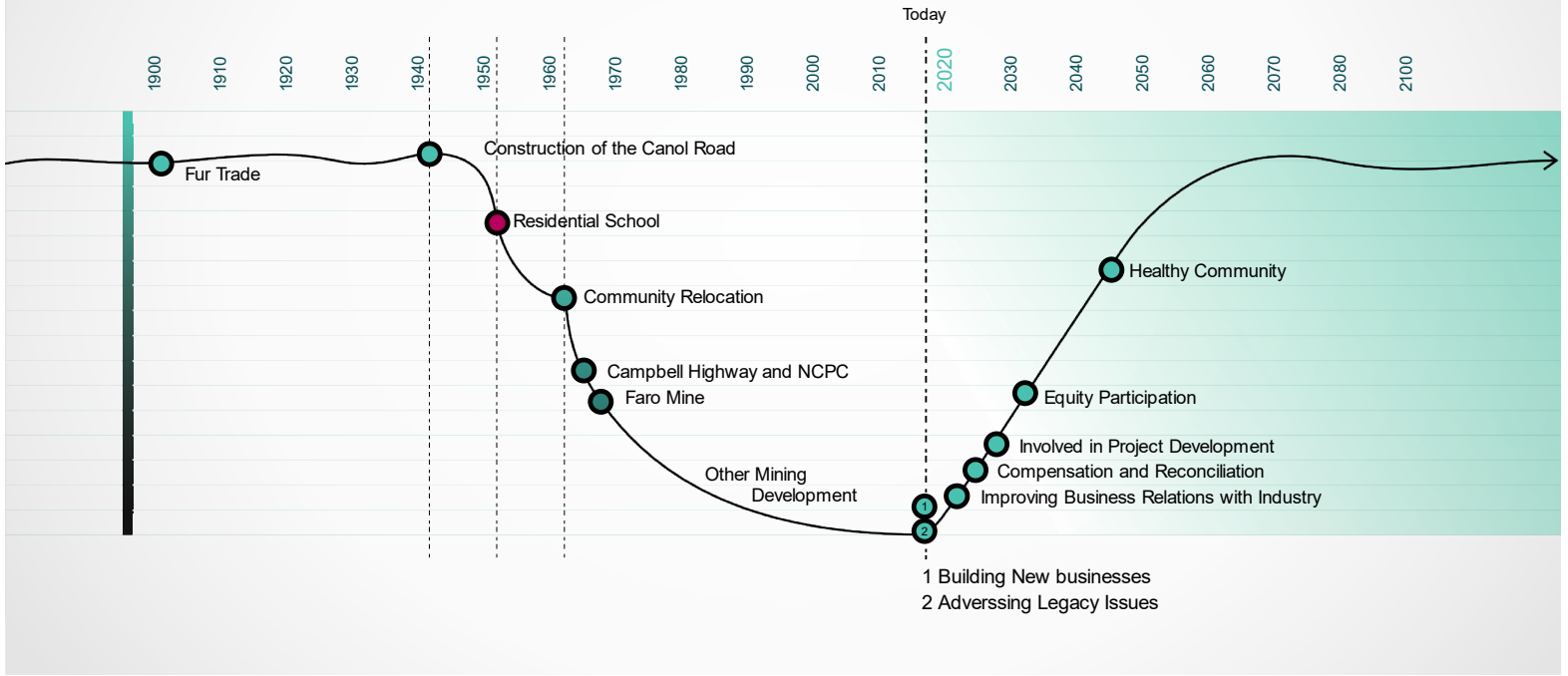
Image Landsat / Copernicus
10 km
N

MAJOR MINING AND EXPLORATION ACTIVITY IN RRDC TERRITORY



ROSS RIVER DENA COUNCIL BACKGROUND



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RFP

Phased Bid Compliance Process

Phase 1: Required Financial Bid

Phase 2: Assessment of Compliance with Eligible Mandatory Requirements

For the purposes of this RFP, the Eligible Mandatory Requirements are M1, M3, and M4

Phase 3: Completion of the Evaluation Process

Required Services
Environmental Monitoring Services

Anticipated Procurement Schedule

For planning purposes, the current procurement milestones are:

Milestones	Estimated completion
Request for Proposals	November 2021 – January 2022 45 days
Evaluation process	February 2022
Commencement of Work	March 2022

Overall purpose of the future EMS Contract

The Government of Canada intends to engage the services of an Environmental Monitoring Services contractor team to provide environmental monitoring and related services for the Faro Mine Remediation Project (FMRP) and for the Vangorda / Grum Mine Remediation Project.

Overview of services required

The EMS Contractor is required to continue the current monitoring program, as well as provide additional services.

Summary of the current environmental monitoring program:

- Monthly surface water quality program (approx. 70 locations)
- Quarterly groundwater quality program (approx. 211 wells)
- Semi-annual seep water quality program (approx. 112 locations)
- Monthly water quantity (hydrology) program (approx. 50 locations)
- Daily water level sampling (pits and ponds) at 10 locations
- Monthly site wide toxicity testing
- Aquatic Effects Monitoring program (every 3rd year)
- Geotechnical Monitoring
- Meteorological Monitoring
- Ambient air quality monitoring
- Wildlife and terrestrial monitoring

Overview of services required cont'd

Additional services:

- Adaptive Management Plan
  - Quarterly and annual reporting and investigations as required
- Laboratory Services
  - Maintain and operate the site's analytical laboratory and maintain a LIMS
  - Conduct analysis of samples collected by the MCM related to the monitoring of water treatment systems (max 24 hr turnaround)
- Data Management Services
  - QA / QC all monitoring data
  - Maintain the tablet-based field data collection system
  - Upload to environmental database and cloud based EQuIS database
  - Provide database administration services for the cloud based EQuIS database

Overview of services required cont'd

- Reporting Services
  - Table 2 in Annex A
- Environmental Auditing Services
  - Annual audit plan
  - Up to 24 limited scope audits

FARO MINE REMEDIATION PROJECT

What is Faro Mine?

Faro Mine was once the largest open pit lead-zinc mine in the world.
Today it is one of the most complex abandoned mine clean-up projects in Canada.

The Faro Mine site is 25 sq. km –
the same size as the City of Victoria, B.C.

It is located outside of the Town of Faro in Yukon, on the asserted traditional territory of the Kaska Nation and upstream from Selkirk First Nation.

70 million tonnes of tailings

320 million tonnes of waste rock

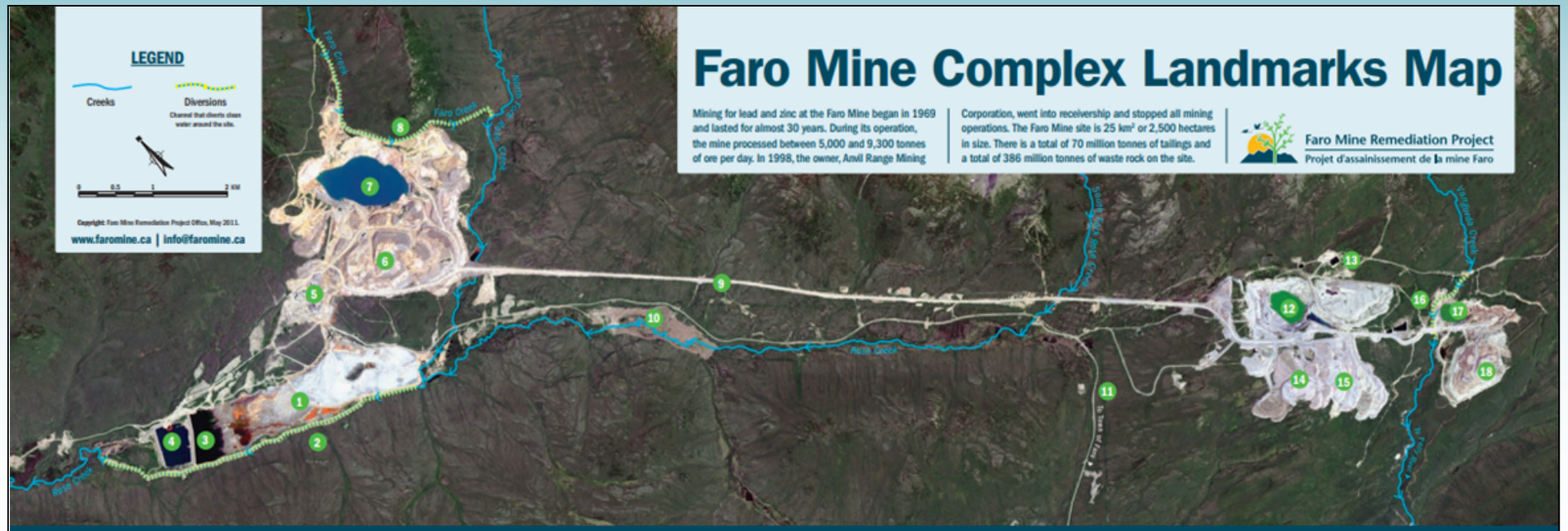
1969–1998
Thirty years of mining

Processing the minerals left behind waste rock and finely crushed particles (known as tailings) which have the potential to leach heavy metals and acid into the land and water.

That's enough mining waste to cover

26,179 FOOTBALL FIELDS, 1 METER DEEP

Overview of the Mine Sites



1. Rose Creek Tailings Area
This area is 4 km long and up to 1 km wide and located at the base of Rose Creek Valley. It holds over 55 million tonnes of tailings. Three dams (original, secondary and intermediate) hold the tailings in place. A fourth dam, the Cross Valley Pond, holds treated water.

2. Rose Creek Diversion
The 4 km long channel diverts the Rose Creek around the tailings impoundment area.

3. Intermediate Pond & Dam
Pond where contaminated water is collected and pumped to the Faro Water Treatment Plant.

4. Cross Valley Pond & Dam
Pond where treated water is stored and tested. Water meeting acceptable standards is discharged into Rose Creek.

5. Mill Area – Faro Water Treatment Plant
The original mill structure was modified and is now used as a water treatment plant. Contaminated water from the Faro Pit is collected and treated at this plant.

6. Faro Waste Rock
Over 260 million tonnes of waste rock (divided into 30 separate dumps) are in the Faro area covering approximately 3.35 km² or 335 hectares.

7. Faro Pit
The pit is approximately 1,675 m long, 975 m wide and 335 m deep. It covers an area approximately 1.6 km² or 106 hectares.

8. Faro Creek Diversion
The 3.35 km long channel diverts the Faro Creek around the Faro Pit. Faro Creek then joins the North Fork of Rose Creek.

9. Haul Road
The 10 km road connects the Faro area to the Grum/ Vangorda areas and was used to haul ore from the Grum/ Vangorda areas to the mill for processing.

10. Fresh Water Supply Dam & Reservoir
The reservoir was used to provide a constant source of water to the mill for processing ore. When mining operations ceased, the reservoir was no longer required and the dam was breached.

11. Access Road
The 22 km road connects the Town of Faro to the Faro Mine Complex.

12. Grum Pit
The pit is approximately 1,100 m long, 700 m wide and 200 m deep. It covers an area approximately 0.77 km² or 77 hectares. A bio-treatment program occurs in the pit to treat the water.

13. Vangorda Water Treatment Plant
Contaminated water from the Vangorda Pit is collected and treated at this plant. Water meeting acceptable standards is discharged into Vangorda Creek.

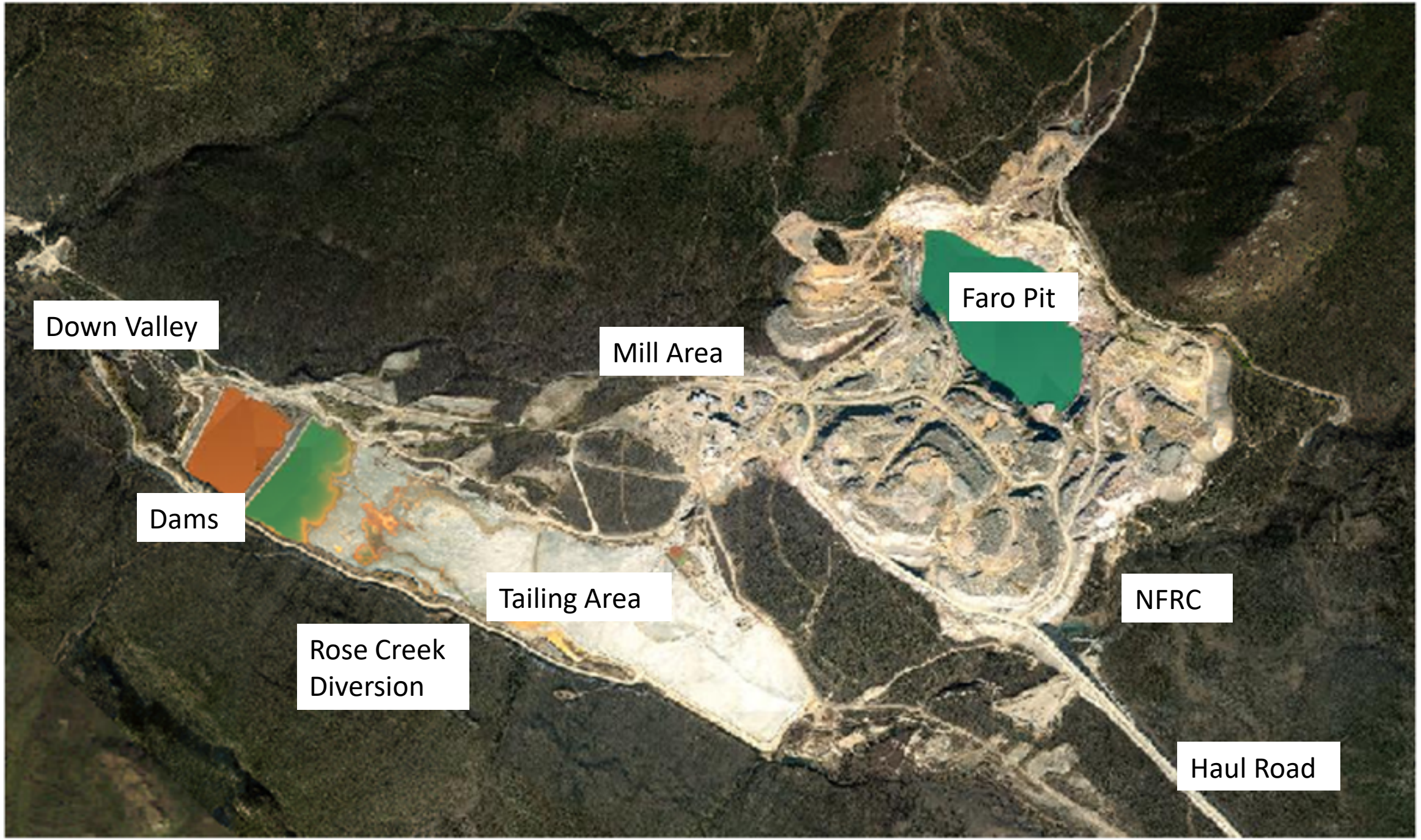
14. Grum Waste Rock
Over 110 million tonnes of waste rock are in the Grum area covering approximately 1.48 km² or 148 hectares.

15. Grum Sulphide Cell Cover Project
The Grum Sulphide Cell is a portion of Grum Waste Rock which contains a higher quantity of sulphidic material prone to generating acid. The 0.275 km² area was resloped and covered with a liner and soil to control the generation of acid rock drainage.

16. Vangorda Creek Diversion
The 1.2 km long channel diverts the Vangorda Creek around the Vangorda Pit.

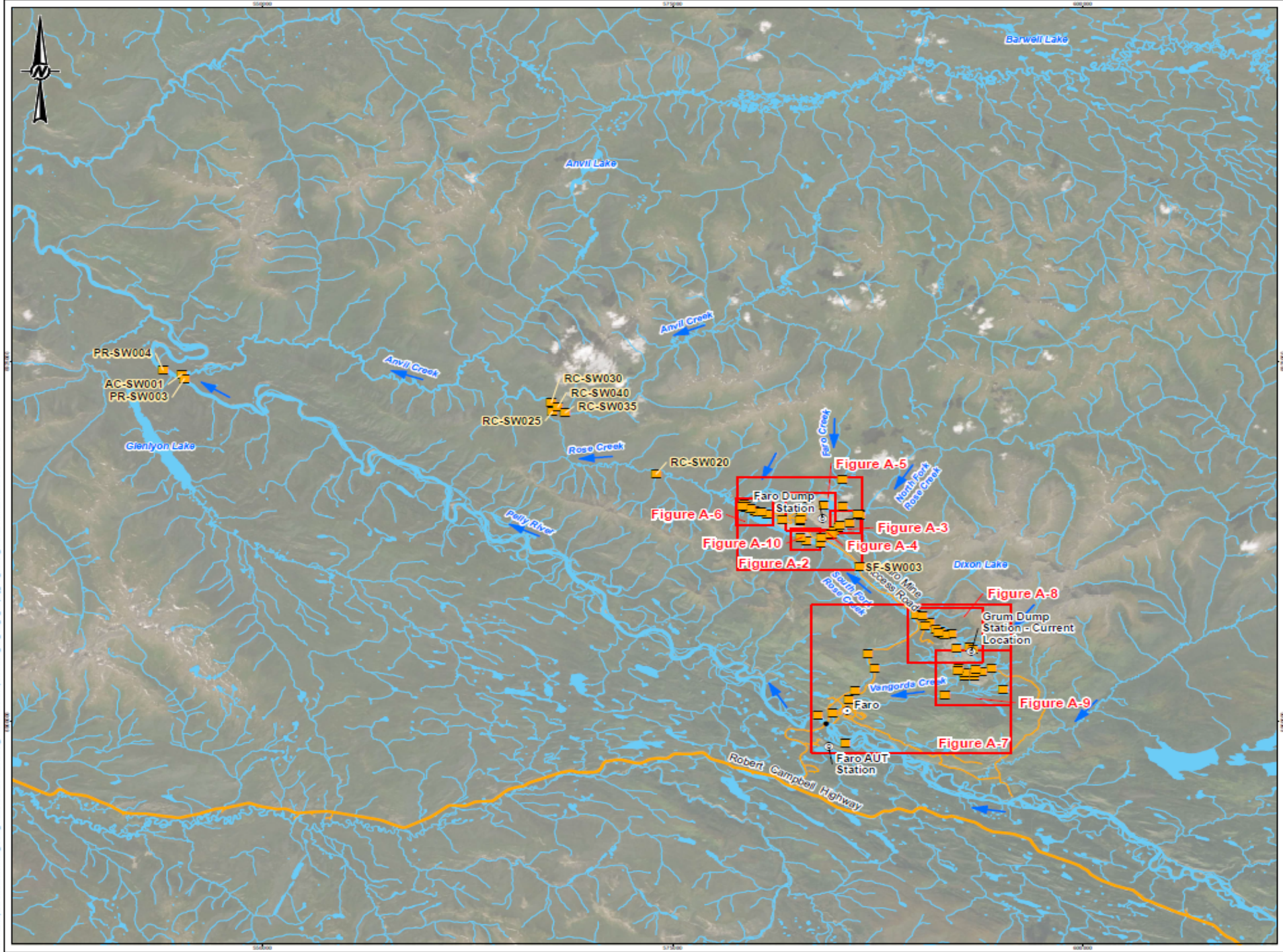
17. Vangorda Pit
The pit is approximately 1,150 m long, 350 m wide and 150 m deep. It covers an area approximately 0.42 km² or 42 hectares.

18. Vangorda Waste Rock
Over 16 million tonnes of waste rock are in the Vangorda area covering approximately 0.4 km² or 40 hectares.


Down Valley
Dams
Mill Area
Faro Pit
Tailing Area
Rose Creek Diversion
NFRC
Haul Road

Overview of Monitoring Program

Photo: Matt Jacques / The Narwhal



LEGEND

- HYDROMETRIC
- METEOROLOGICAL STATION
- SURFACE WATER
- TOWN
- DIRECTION OF FLOW
- HIGHWAY
- ROAD
- WATERCOURSE
- ADDITIONAL FIGURE
- WATERBODY

0 5 10
1:250,000 KILOMETRES

NOTE(S)

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CLIENT

CROWN-INDIGENOUS RELATIONS AND NORTHERN AFFAIRS CANADA

PROJECT

FARO MINE REMEDIATION PROJECT - 2020 ANNUAL WATER MONITORING REPORT

Faro Mine Remediation Project
Projet d'assainissement de la mine Faro

TITLE

SAMPLING AREA OVERVIEW

CONSULTANT

GOLDER

YYYY-MM-DD	2021-03-31
DESIGNED	JA
PREPARED	LH
REVIEWED	HM
APPROVED	HM

PROJECT NO.	CONTROL	REV.	FIGURE
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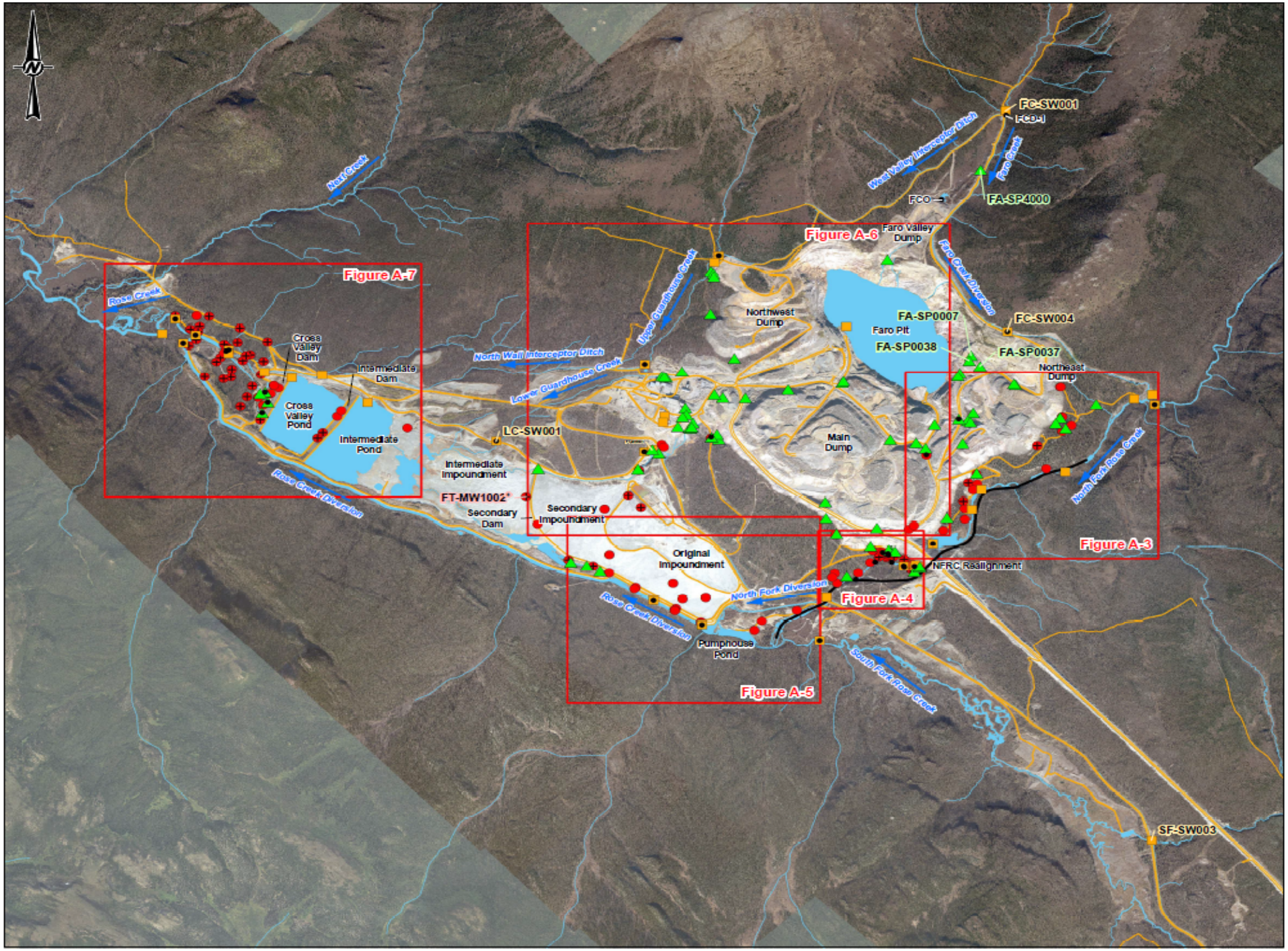

LEGEND

- FARO MINE COMPLEX SAMPLING AREA
- ROAD
- DIRECTION OF FLOW
- NORTH FORK ROSE CREEK REALIGNMENT
- WATERCOURSE
- WATERBODY

MONITORING STATION

- HYDROMETRIC
- SURFACE WATER
- SEEP
- GROUNDWATER
- GROUNDWATER (NESTED)

0 600 1,200
1:30,000 METRES

NOTE(S)
1. * INDICATES MULTILEVEL WELLS WHERE MULTIPLE PORTS ARE SAMPLED.
2. * NESTED OR PAIRED WELLS. TWO OR MORE WELLS SCREENEDAT DIFFERENT DEPTHS AT ONE LOCATION.
3. BIENNIAL WELLS WERE NOT SCHEDULED TO BE SAMPLED DURING THE 2020 ROUTINE MONITOIRNG PROGRAM. SOME BIENNIAL WELLS LOCATED IN THE S-WELLS AND ZONE II WERE SAMPLED AS PART OF THE CONTACT WATER MONITORING PROGRAM.

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CROWN-INDIGENOUS RELATIONS AND NORTHERN AFFAIRS CANADA

PROJECT
FARO MINE REMEDIATION PROJECT - 2020 ANNUAL WATER MONITORING REPORT

Faro Mine Remediation Project
Projet d'assainissement de la mine Faro

TITLE
MONITORING STATIONS WITHIN THE FARO AREA

CONSULTANT
GOLDER

YYYY-MM-DD	2021-03-31
DESIGNED	JA
PREPARED	LH
REVIEWED	HM
APPROVED	HM

PROJECT NO.	CONTROL	REV.	FIGURE
19133574	7000/7200	0	A-2

LEGEND

- FARO MINE COMPLEX SAMPLING AREA
- ROAD
- DIRECTION OF FLOW
- NORTH FORK ROSE CREEK REALIGNMENT
- WATERCOURSE
- WATERBODY

MONITORING STATION

- HYDROMETRIC
- SURFACE WATER
- SEEP
- GROUNDWATER
- GROUNDWATER (NESTED)

0 120 240
1:6,000 METRES

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CROWN-INDIGENOUS RELATIONS AND NORTHERN AFFAIRS CANADA

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FARO MINE REMEDIATION PROJECT - 2020 ANNUAL WATER MONITORING REPORT

Faro Mine Remediation Project
Projet d'assainissement de la mine Faro

TITLE
MONITORING STATIONS IN THE UPPER REACH OF NORTH FORK ROSE CREEK

CONSULTANT
GOLDER

YYYY-MM-DD	2021-03-31
DESIGNED	JA
PREPARED	LH
REVIEWED	HM
APPROVED	HM

PROJECT NO.	CONTROL	REV.	FIGURE
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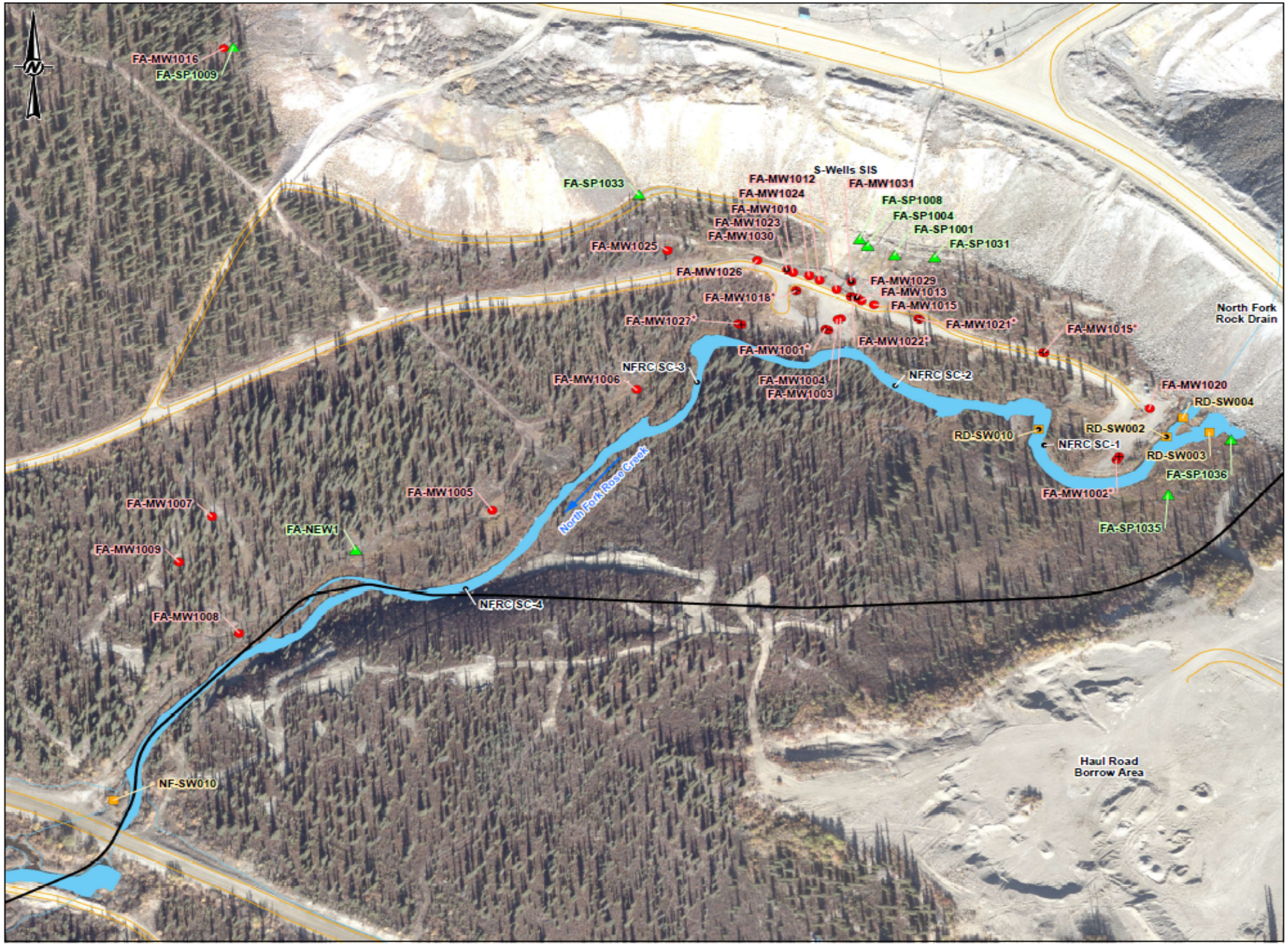
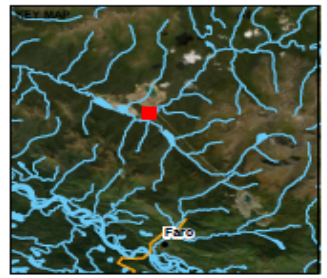


LEGEND

- FARO MINE COMPLEX SAMPLING AREA
- ROAD
- DIRECTION OF FLOW
- NORTH FORK ROSE CREEK REALIGNMENT
- WATERCOURSE
- WATERBODY

MONITORING STATION

- HYDROMETRIC
- SURFACE WATER
- SEEP
- GROUNDWATER
- GROUNDWATER (NESTED)



0 50 100
1:2,500 METRES

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CROWN-INDIGENOUS RELATIONS AND NORTHERN AFFAIRS CANADA

PROJECT
FARO MINE REMEDIATION PROJECT - 2020 ANNUAL WATER MONITORING REPORT

Faro Mine Remediation Project
Projet d'assainissement de la mine Faro

TITLE
MONITORING STATIONS IN THE LOWER REACH OF NORTH FORK ROSE CREEK

CONSULTANT
GOLDER

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PREPARED	LH
REVIEWED	HM
APPROVED	HM

PROJECT NO.	CONTROL	REV.	FIGURE
19133574	7000/7200	0	A-4

LEGEND

- FARO MINE COMPLEX SAMPLING AREA
- ROAD
- DIRECTION OF FLOW
- NORTH FORK ROSE CREEK REALIGNMENT
- WATERCOURSE
- WATERBODY

MONITORING STATION

- HYDROMETRIC
- SURFACE WATER
- SEEP
- GROUNDWATER
- GROUNDWATER (NESTED)

0 120 240
1:6,000 METRES

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PROJECT
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Faro Mine Remediation Project
Projet d'assainissement de la mine Faro

TITLE
MONITORING STATIONS IN THE LOWER REACH OF NORTH FORK ROSE CREEK

CONSULTANT
GOLDER

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APPROVED	HM

PROJECT NO.	CONTROL	REV.	FIGURE
19133574	7000/7200	0	A-5

LEGEND

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- ROAD
- DIRECTION OF FLOW
- NORTH FORK ROSE CREEK REALIGNMENT
- WATERCOURSE
- WATERBODY

MONITORING STATION

- HYDROMETRIC
- SURFACE WATER
- SEEP
- GROUNDWATER
- GROUNDWATER (NESTED)

0 150 300
1:7,500 METRES

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Faro Mine Remediation Project
Projet d'assainissement de la mine Faro

TITLE
MONITORING STATIONS IN THE ROSE CREEK DIVERSION AND DOWNSTREAM AREA

CONSULTANT
GOLDER

YYYY-MM-DD	2021-03-31
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APPROVED	HM

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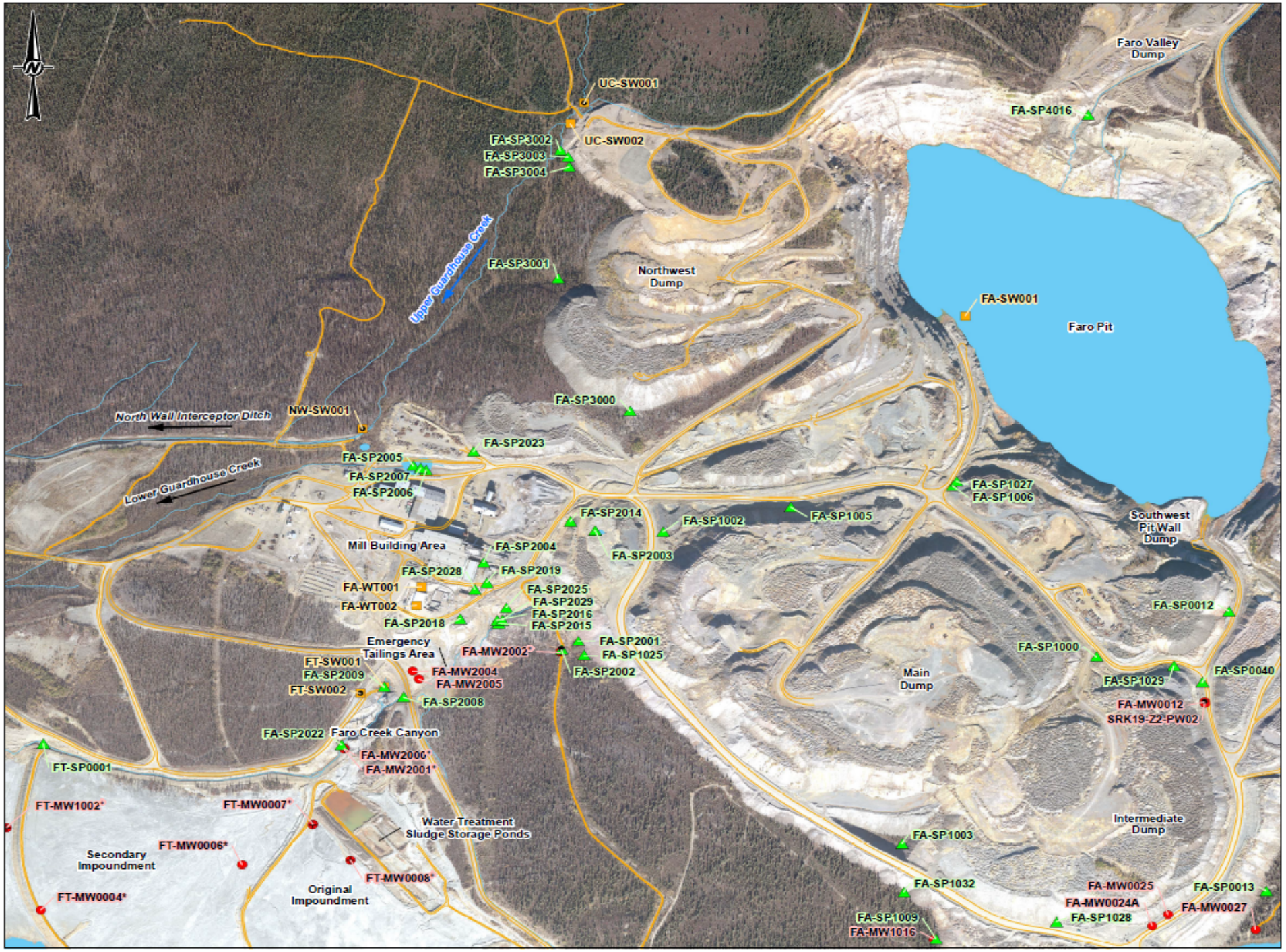

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- ROAD
- DIRECTION OF FLOW
- NORTH FORK ROSE CREEK REALIGNMENT
- WATERCOURSE
- WATERBODY

MONITORING STATION

- HYDROMETRIC
- SURFACE WATER
- SEEP
- GROUNDWATER
- GROUNDWATER (NESTED)

0 200 400
1:10,000 METRES

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CROWN-INDIGENOUS RELATIONS AND NORTHERN AFFAIRS CANADA

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FARO MINE REMEDIATION PROJECT - 2020 ANNUAL WATER MONITORING REPORT

Faro Mine Remediation Project
Projet d'assainissement de la mine Faro

TITLE
MONITORING STATIONS IN THE EMERGENCY TAILINGS AREA

CONSULTANT
GOLDER

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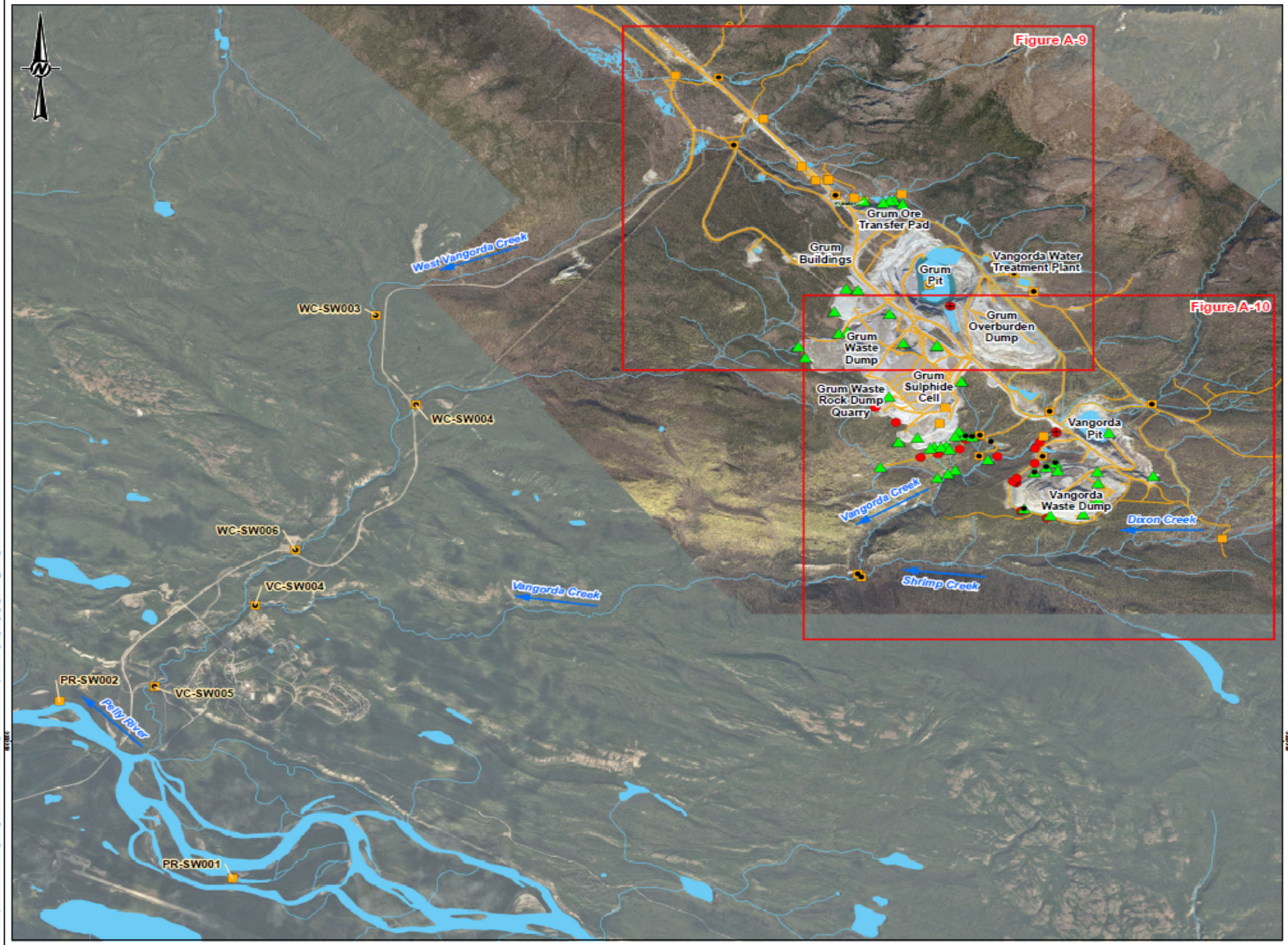

LEGEND

- FARO MINE COMPLEX SAMPLING AREA
- ROAD
- DIRECTION OF FLOW
- NORTH FORK ROSE CREEK REALIGNMENT
- WATERCOURSE
- WATERBODY

MONITORING STATION

- HYDROMETRIC
- SURFACE WATER
- SEEP
- GROUNDWATER
- GROUNDWATER (NESTED)

0 800 1,600

1:40,000 METRES

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CLIENT

CROWN-INDIGENOUS RELATIONS AND NORTHERN AFFAIRS CANADA

PROJECT

FARO MINE REMEDIATION PROJECT - 2020 ANNUAL WATER MONITORING REPORT

Faro Mine Remediation Project
Projet d'assainissement de la mine Faro

TITLE

MONITORING STATIONS IN VANGORDA/FARO OVERVIEW

CONSULTANT

GOLDER

YYYY-MM-DD	2021-03-31
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PREPARED	LH
REVIEWED	HM
APPROVED	HM

PROJECT NO.	CONTROL	REV.	FIGURE
19133574	7000/7200	0	A-8

LEGEND

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- ROAD
- DIRECTION OF FLOW
- NORTH FORK ROSE CREEK REALIGNMENT
- WATERCOURSE
- WATERBODY

MONITORING STATION

- HYDROMETRIC
- SURFACE WATER
- SEEP
- GROUNDWATER
- GROUNDWATER (NESTED)

0 300 600
1:15,000 METRES

NOTE(S)
1. * INDICATES MULTILEVEL WELLS WHERE MULTIPLE PORTS ARE SAMPLED.
2. * NESTED OR PAIRED WELLS. TWO OR MORE WELLS SCREENEDAT DIFFERENT DEPTHS AT ONE LOCATION.
3. BIENNIAL WELLS WERE NOT SCHEDULED TO BE SAMPLED DURING THE 2020 ROUTINE MONITOIRNG PROGRAM. SOME BIENNIAL WELLS LOCATED IN THE S-WELLS AND ZONE II WERE SAMPLED AS PART OF THE CONTACT WATER MONITORING PROGRAM.

REFERENCE(S)
1. AERIAL PHOTOGRAPHY COLLECTED BY PEREGRINE AERIAL SURVEYORS INC. IN SEPTEMBER 2018 AND PROCESSED BY HATFIELD CONSULTANTS.
2. NORTH FORK ROSE CREEK REALIGNMENT OBTAINED FROM BGC 2020/01/10 (100-501-302-CP-CNST-01.DXF).
DATUM: NAD83 CSRS PROJECTION: UTM ZONE 8

CLIENT
CROWN-INDIGENOUS RELATIONS AND NORTHERN AFFAIRS CANADA

PROJECT
FARO MINE REMEDIATION PROJECT - 2020 ANNUAL WATER MONITORING REPORT

Faro Mine Remediation Project
Projet d'assainissement de la mine Faro

TITLE
MONITORING STATIONS IN THE GRUM AREA

CONSULTANT
GOLDER

YYYY-MM-DD	2021-03-31
DESIGNED	JA
PREPARED	LH
REVIEWED	HM
APPROVED	HM

PROJECT NO.	CONTROL	REV.	FIGURE
19133574	7000/7200	0	A-9

LEGEND

- FARO MINE COMPLEX SAMPLING AREA
- ROAD
- DIRECTION OF FLOW
- NORTH FORK ROSE CREEK REALIGNMENT
- WATERCOURSE
- WATERBODY

MONITORING STATION

- HYDROMETRIC
- SURFACE WATER
- SEEP
- GROUNDWATER
- GROUNDWATER (NESTED)

0 300 600

1:15,000 METRES

NOTE(S)

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CLIENT

CROWN-INDIGENOUS RELATIONS AND NORTHERN AFFAIRS CANADA

PROJECT

FARO MINE REMEDIATION PROJECT - 2020 ANNUAL WATER MONITORING REPORT

Faro Mine Remediation Project
Projet d'assainissement de la mine Faro

TITLE

MONITORING STATIONS IN THE VANGORDA AREA

CONSULTANT

GOLDER

YYYY-MM-DD	2021-03-31
DESIGNED	JA
PREPARED	LH
REVIEWED	HM
APPROVED	HM

PROJECT NO.	CONTROL	REV.	FIGURE
19133574	7000/7200	0	A-10

On Site Laboratory

Faro Mine Remediation Project
Projet d'assainissement de la mine Faro

Faro Mine Remediation Project
Projet d'assainissement de la mine Faro

Thank you!

Faro Mine Remediation Project
Projet d'assainissement de la mine Faro


Q&A