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au service des  
CANADIENS.

# Optional Virtual Site Visit – RFP for Remediation Plan Design and Support Services (QA)

## Faro Mine Remediation Project

PSPC Pacific Region

November 16<sup>th</sup>, 2021

[www.pspc-spac.gc.ca](http://www.pspc-spac.gc.ca)



Public Services and  
Procurement Canada

Services publics et  
Approvisionnement Canada

Canada

# Meeting instructions

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- Please turn cameras “on” and audio “off”
- Questions?
  - Please use the Chat function during conference
  - Email questions only to [sal.pillay@pwgsc-tpsgc.gc.ca](mailto:sal.pillay@pwgsc-tpsgc.gc.ca)
- Fairness Monitor
- Technical difficulties during Conference?
  - [sal.pillay@pwgsc-tpsgc.gc.ca](mailto:sal.pillay@pwgsc-tpsgc.gc.ca) or Tel: (604) 363-6714





# Agenda

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1. Introduction by Procurement
2. Opening prayer / Welcome from Ross River Dena Council
3. Procurement Overview
4. Technical Overview:
  - Overview of Required Services
  - Overview of the Remediation Plan
5. 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

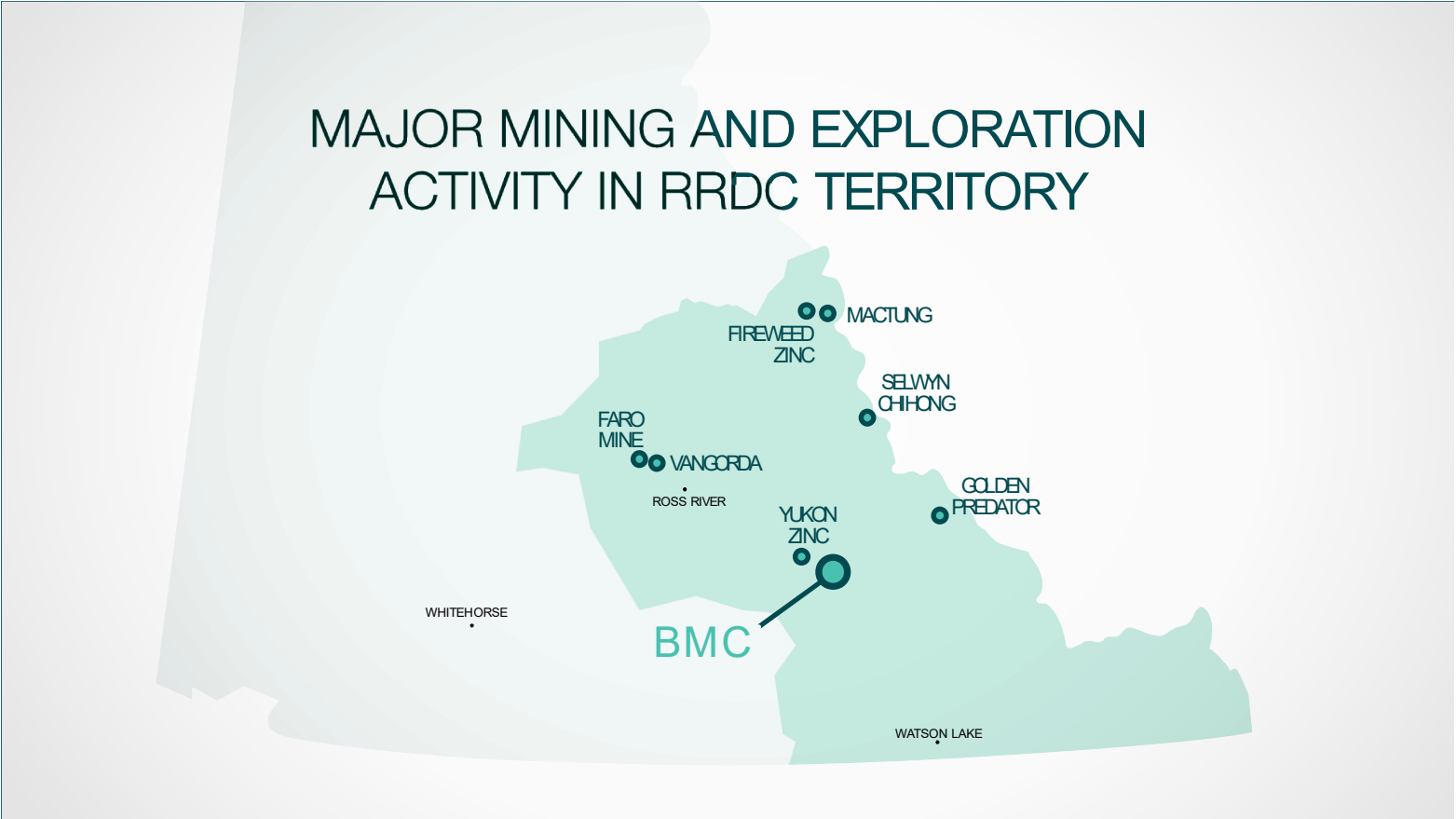
**Legend**

-  Airport
-  CBDBT
-  Faro
-  Feature 1
-  Health Centre
-  Mount Mye
-  Ross River Waterdome

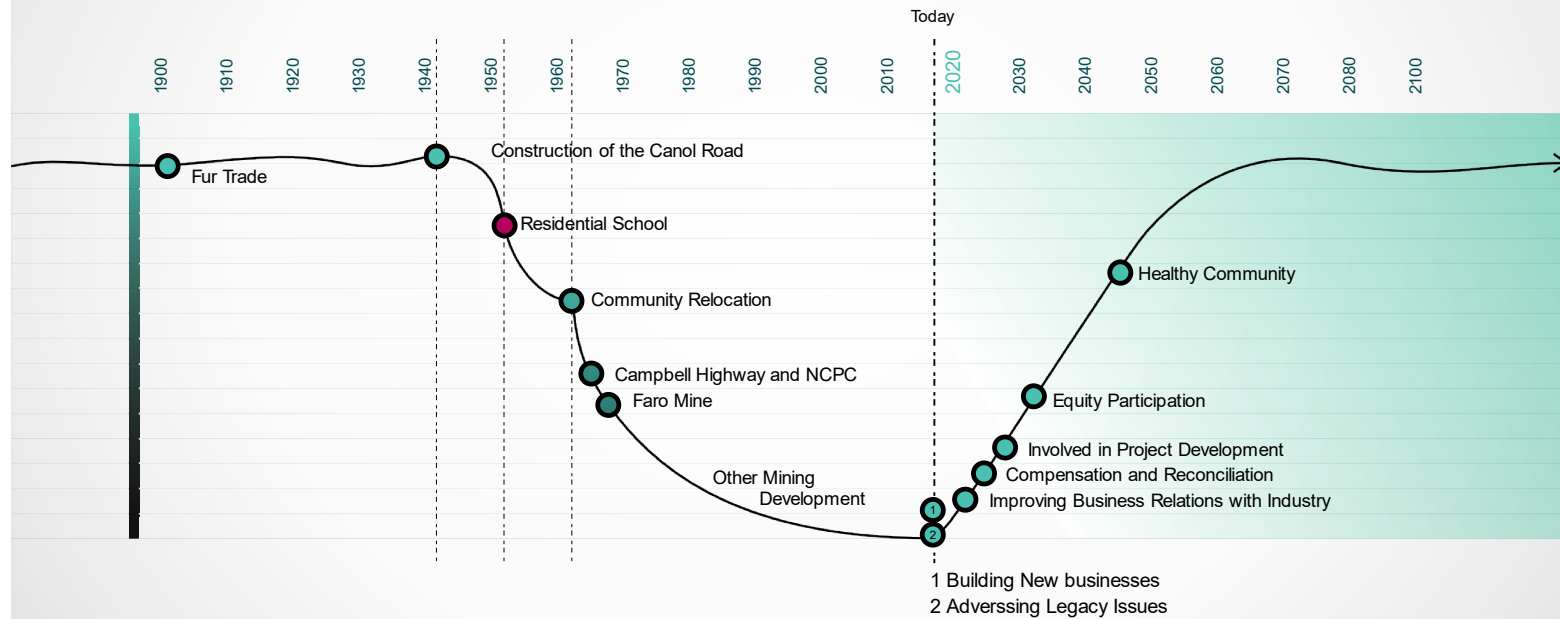




# MAJOR MINING AND EXPLORATION ACTIVITY IN RRDC TERRITORY



# ROSS RIVER DENA COUNCIL BACKGROUND





**Stanley Noel, ICD.D, MBA, HBSW**

CEO, Dena Nezzidi Limited Partnership (DNLP)

**Mobile/Direct** +1(867)334-9432

**eMail** stanleynoel@me.com

**DNLP Whitehorse Office**

Suite 201, 208 Main Street

Whitehorse Yukon Y1A 2A9



# Procurement Timeline

For planning purposes, the current procurement milestones are:

Milestones	Estimated completion
RFP closing date	December 2021
Evaluation and Selection	January 2022
Contract Award	January or February 2022

Notes:

- RFP, Q&As and amendments will be posted on [buyandsell.gc.ca](http://buyandsell.gc.ca)
- No public bid opening will be held for this procurement

# Required Services

## Remediation Plan Design and Support Services (QA)

## Overall purpose of the future RPD/SS Contract

The Government of Canada intends to engage the services of a Remediation Plan Design and Support Services (RPD/SS) Engineering Consultant to produce the design and support services for the Faro Mine Remediation Project (FMRP) and for the Vangorda / Grum Mine Remediation Project.



## Overview of services required

The RPD/SS Consultant is required to complete the design of the various Design Packages of the overall mine remediation, as well as oversee the implementation of the work, mainly for Quality Assurance purposes.

For example:

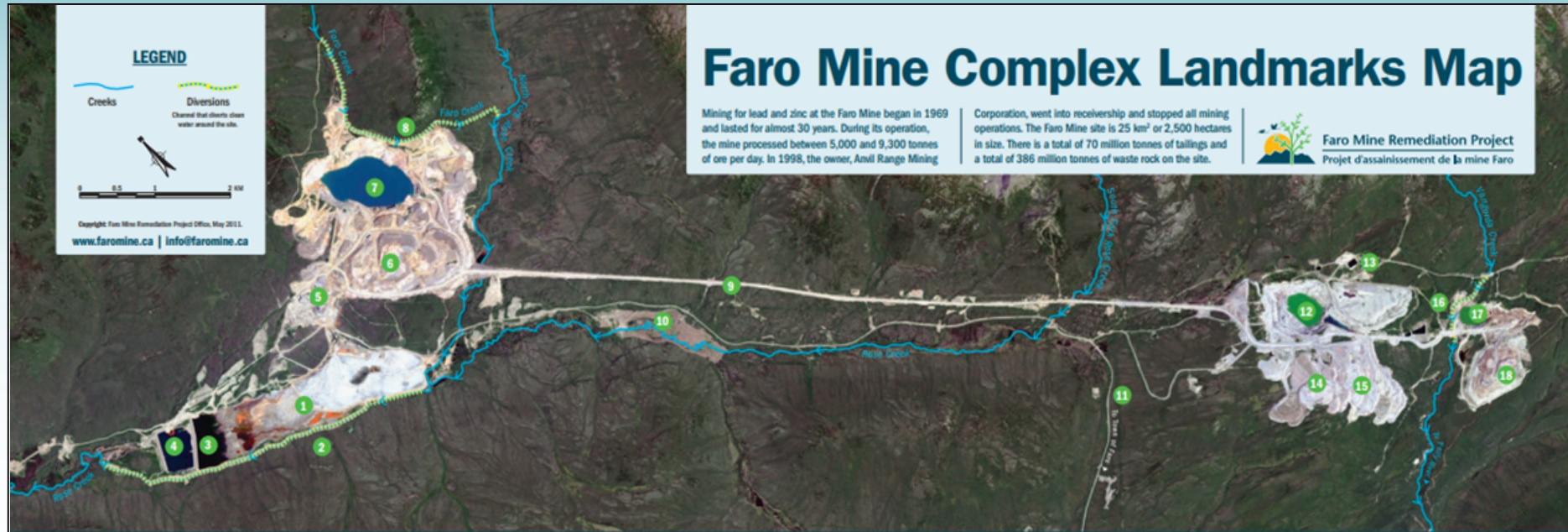
- Preparing design options, alternatives, recommendations;
- Completing the design / technical documents for each tender package identified by Canada;
- Providing a wide range of civil engineering, geotechnical (soil and rock mechanics), geo-scientific and 3D-modeling services;
- Preparing design level Cost Estimates;
- Preparing design schedules and providing input on construction durations, as well as on overall sequencing of work packages;
- Providing input into the Project Risk Plan
- Supporting Canada by managing engineering QA and assisting in responding to site conditions / issues, as required;
- Defining conceptual commissioning procedures and confirming that performance requirements have been met;
- Preparing designs for the continuing care and maintenance and Site operations at the Faro Mine Complex (for both the Faro Mine Site and the Vangorda / Grum Mine Site), including possible designs for urgent works;
- Supporting Canada by providing warranty period inspections; and
- Communicating and consulting, as and when required, on the design and support services work with other project team members, with stakeholders, YESAB and regulators

Possible TA#	Design package #	Scope Book Code	Scope Book Grouping and Title
			<b>Site Development</b>
1	1	SD-ROAD	Roads
	2	SD-PADS	Bulk Earthworks (Pads)
	3	SD-FUEL	Fuel Storage
	4	SD-EXPL	Explosives Storage
	5	SD-BORR	Borrow Development
			<b>Tailings Area</b>
2	6	TA-RELC	Tailings Relocations
	7	TA-LAND	Tailings Landform
	8	TA-COVR	Tailings Cover
	9	TA-TSWC	Tailings Surface Water Conveyance
			<b>Tailings Area Dams</b>
3	10	TA-IDAM	Intermediate Dam
	11	TA-SDAM	Secondary Dam
	12	TA-CVDR	Cross Valley Dam Regrading
			<b>Mine Area</b>
4	13	MA-WRDR	Mine Area Relocations
	14	MA-WRDL	Waste Rock Landform
	15	MA-COVR	Mine Area Covers
	16	MA-MSWC	Waste Rock Surface Runoff Conveyance
	17	MA-CONW	Mine Area Contact/Runoff Water

Possible TA#	Design package #	Scope Book Code	Scope Book Grouping and Title
			<b>Contact Water</b>
5	18	CW-ZTPD	Zone II Pit Dewatering System
	19	CW-ETAC	Emergency Tailings Area Seepage Interception System (ETA-SIS)
	20	CW-NFRC	North Fork Rose Creek Seepage Interception System (NFRC-SIS)
	21	CW-DVIS	Down Valley Seepage Interception System (DV-SIS)
	22	CW-CONV	Contact Water Conveyance System
			<b>Perimeter Non-Contact Water</b>
6	23	NC-DVDC	North Tailings Conveyance System
	24	NC-ETDC	East Tailings Diversion Channel
	25	NC-FCDC	Faro Creek Diversion Channel (East and West Faro Valley)
	26	NC-NFRC	North Fork Rose Creek Integration
	27	NC-RCDC	Rose Creek Diversion Channel
	28	NC-RCCA	Confluence of North Fork Rose Creek and South Fork Rose Creek
			<b>Demolition and Waste</b>
7	29	DW-CSTF	Contaminated Soil Treatment Facility
	30	DW-SOIL	Contaminated Soils
	31	DW-LAND	Site Landfill
			<b>Site Restoration</b>
8	32	SR-ROAD	Existing Roads (incl. Haul Road)
	33	SR-HIST	Other Historical Disturbance
	34	SR-RVEG	Revegetation

# Active remediation plan

# Overview of the Mine Sites



## Faro Mine Complex Landmarks Map

Mining for lead and zinc at the Faro Mine began in 1969 and lasted for almost 30 years. During its operation, the mine processed between 5,000 and 9,300 tonnes of ore per day. In 1998, the owner, Amal Range Mining

Corporation, went into receivership and stopped all mining operations. The Faro Mine site is 25 km<sup>2</sup> or 2,500 hectares in size. There is a total of 70 million tonnes of tailings and a total of 386 million tonnes of waste rock on the site.



- 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 km<sup>2</sup> 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 km<sup>2</sup> 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 km<sup>2</sup> 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 km<sup>2</sup> 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 km<sup>2</sup> 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 km<sup>2</sup> or 42 hectares.
- 18. Vangorda Waste Rock**  
Over 16 million tonnes of waste rock are in the Vangorda area covering approximately 0.4 km<sup>2</sup> or 40 hectares.



## Remediation Objectives

Protect human health  
and safety

Protect and, to the  
extent practicable,  
restore the environment  
including land, air,  
water, fish and wildlife

Return the mine site to  
an acceptable state of  
use that reflects pre-  
mining land use where  
practicable

Maximize local and  
Yukon socio-economic  
benefits

Manage long-term site  
risk in a cost-effective  
manner

# Remediation Approach

In 2008, Crown-Indigenous Relations and Northern Affairs Canada, the Government of Yukon and Affected First Nations agreed to the following preferred closure approach:

## Water Management

- Capture Acid Rock Drainage Seepage/Runoff
- Upgrade Surface Water Diversions (keep clean water clean)

## Dams and Impoundments

- Upgrade Dams and Spillways
- Stabilize Open Pit Wall

## Tailings and Waste Rock

- Re-grade and Cover Tailings
- Re-grade and/or Cover Waste Rock

## Other

- Demolition of Infrastructure
- Remediating Contaminated Soil



# Stabilization, Land Forming and Covers

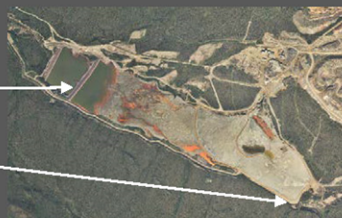
## Remediation Plan Component 2 Stabilize and Revegetate Landforms

Re-shape, cover, revegetate and establish surface drainage on waste rock and tailings

### Rose Creek Tailings Area

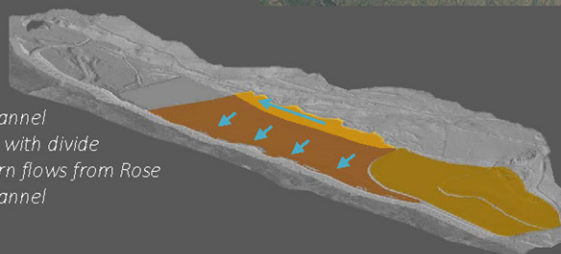
#### 1. Stabilize dams

Add buttress to Intermediate Dam  
Improve foundation of Secondary Dam.

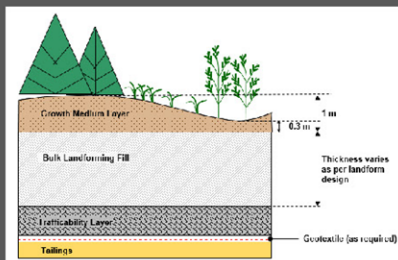


#### 2. Landform surface

Use material from expansion of Rose Creek Diversion Channel to create landform with divide separating northern flows from Rose Creek Diversion Channel



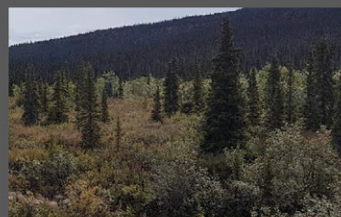
#### 3. Construct cover



Cover all tailings surfaces. Profile is designed to support vegetation growth

#### 4. Establish drainage and revegetate

Minor upgrade to the intermediate dam spillway to convey northwest perimeter water



### Faro Mine Area

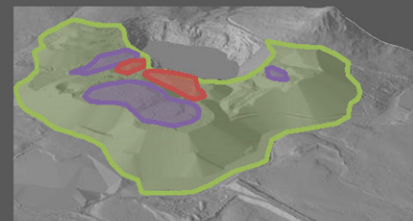
#### 1. Relocate low grade ore and regrade slopes



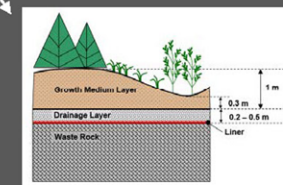
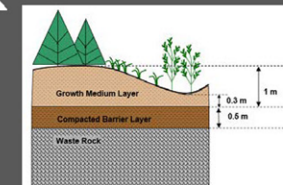
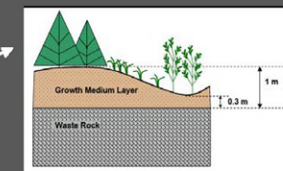
Low grade ore will be relocated to a central pile so it can be covered more efficiently

Cover types are selected to reduce infiltration through waste rock materials that are higher strength contaminant sources

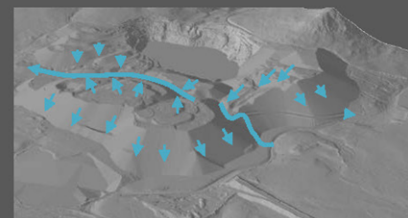
#### 2. Construct three type of cover



Isolation Cover  
Low Infiltration  
Very Low Infiltration

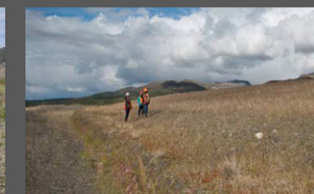


#### 3. Establish drainage



#### 4. Seed and plant vegetation

Early establishment to minimize erosion. Variety of seed mixes for slopes, flats, dry areas, moist areas. Planting to create vegetated drainage swales.



Faro Mine Remediation Plan

InfoGraphic 5 - Remediation Plan - Stabilize and Revegetate Landforms

Job No: 1CA030-020

Filename: 1CA030-020\_Faro\_Fig\_02-01\_thru\_06\_Infographic\_rev01.pptx

FARO MINE

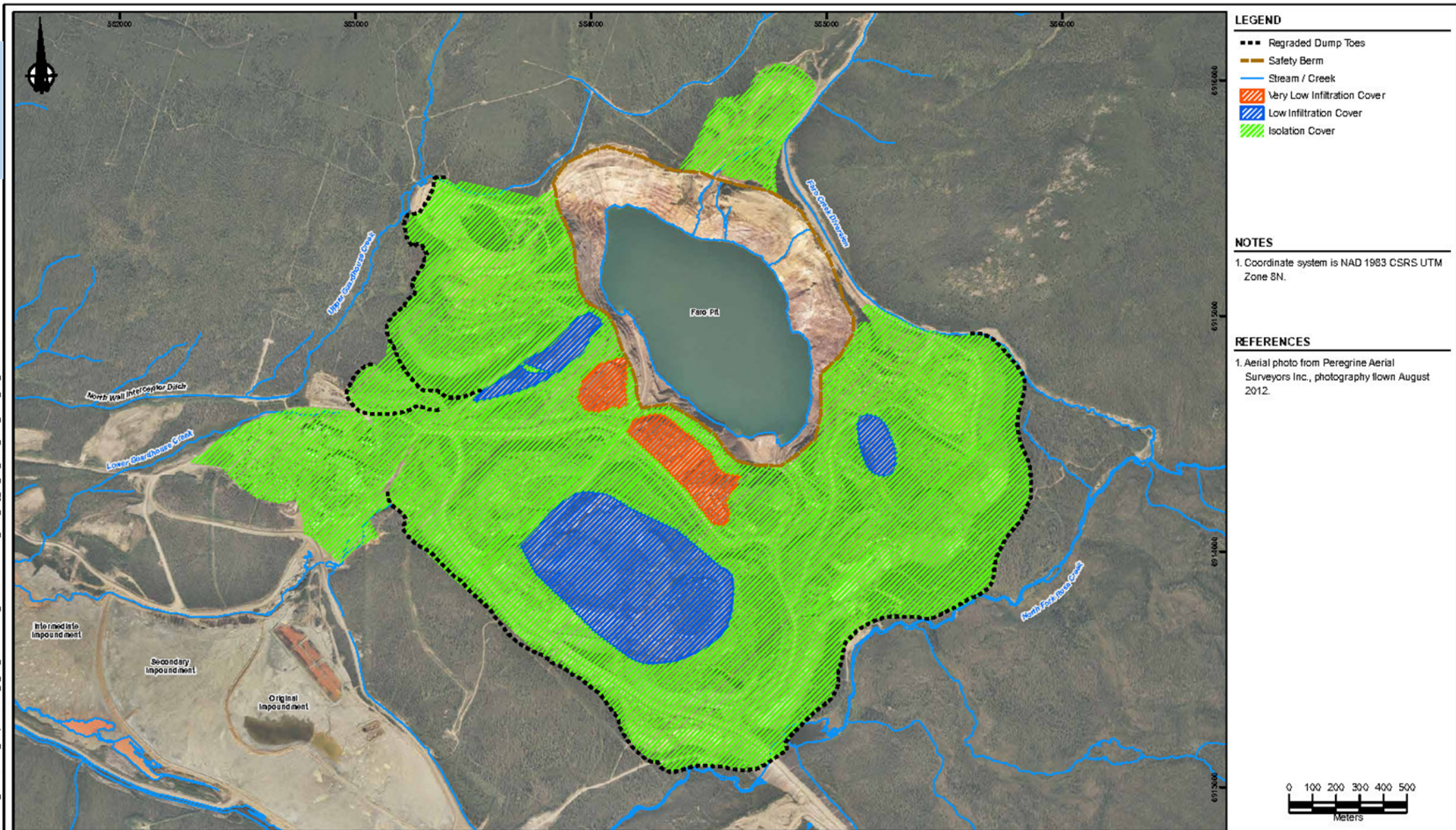
Date: May 2019

Approved: DBM

Figure: 2-5



# Stabilization, Land Forming and Covers



**LEGEND**

- Regraded Dump Toes
- Safety Berm
- Stream / Creek
- Very Low Infiltration Cover
- Low Infiltration Cover
- Isolation Cover

**NOTES**

1. Coordinate system is NAD 1983 CSRS UTM Zone 8N.

**REFERENCES**

1. Aerial photo from Peregrine Aerial Surveyors Inc., photography flown August 2012.

**FIGURE NOTE**

Content presented in this figure may display details that differ from figures included in the Faro Mine Remediation Project Proposal. Any such differences are likely a result of advancing engineering beyond conceptual design. Advancement of designs are expected to result in further positive changes on the receiving environment and should not fundamentally alter the conclusions of the assessment under YESAA.

**srk consulting**

Job No: 1CA030.020  
 Filename: 1CA030-020\_Faro\_Fig\_04\_06\_mine\_area\_cover\_rev\_24

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

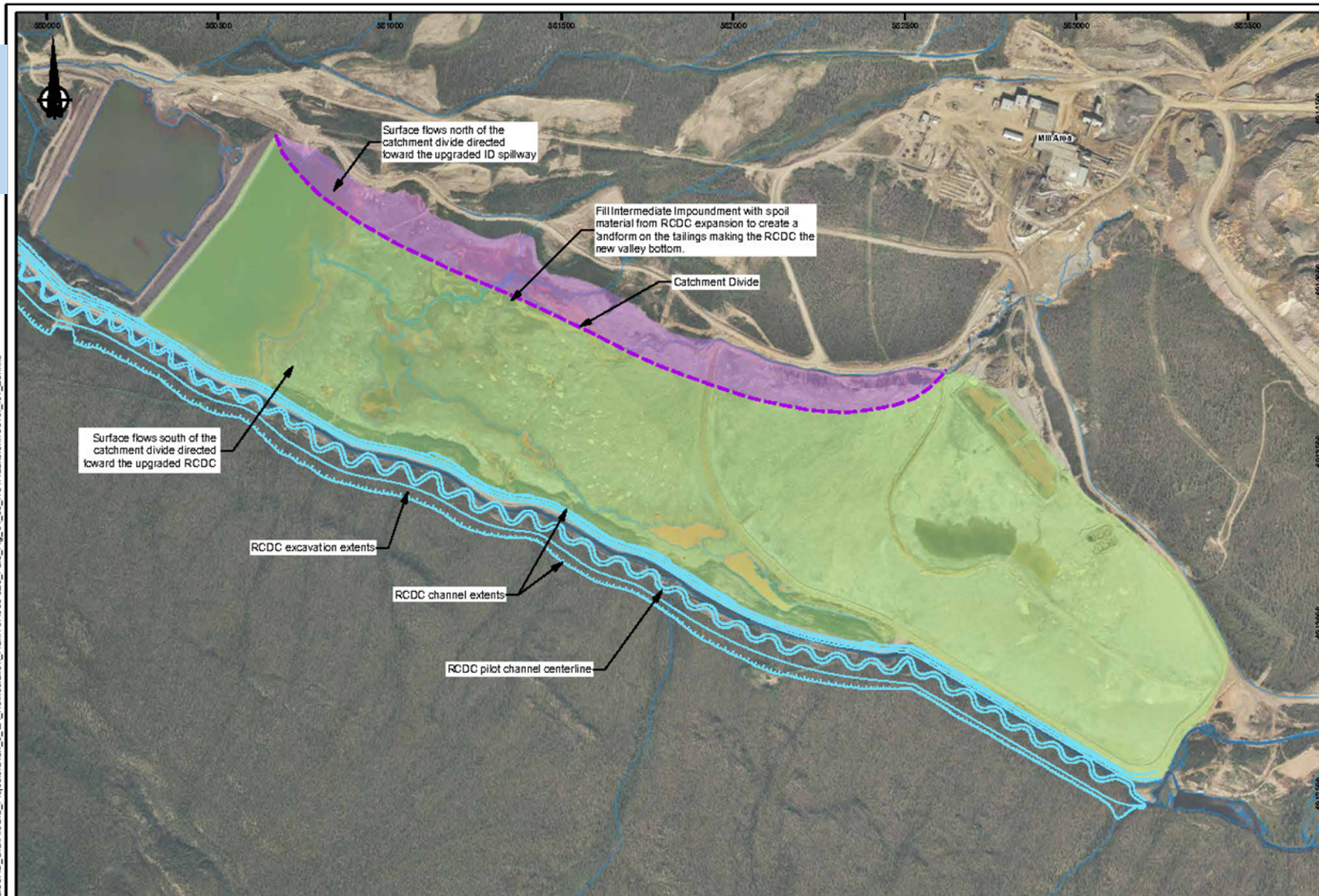
**FARO MINE**

Faro Mine Remediation Plan		
Locations of Mine Area Cover Types		
Date: May 2019	Approved: MMM	Figure: 4-6

Z:\01\_SITES\Far01\040\_AutoCAD\_GIS\1\0319\_Projects\Draft\_5\_EA\_Remediation\_Phase1\CA030-020\_Faro\_Fig\_04\_06\_mine\_area\_cover\_rev\_24.mxd



# Stabilization, Land Forming and Covers



## LEGEND

- Catchment Divide
- Stream / Creek

## NOTES

1. Coordinate system is NAD 1983 CSRS UTM Zone 8N.

## REFERENCES

1. Aerial photo from Peregrine Aerial Surveyors Inc., photography flown August 2012.

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### FIGURE NOTE

Content presented in this figure may display details that differ from figures included in the Faro Mine Remediation Project Proposal. Any such differences are likely a result of advancing engineering beyond conceptual design. Advancement of designs are expected to result in further positive changes on the receiving environment and should not fundamentally alter the conclusions of the assessment under YESAA.



Faro Mine Remediation Plan  
Rose Creek Tailings Area  
Landforming and Cover

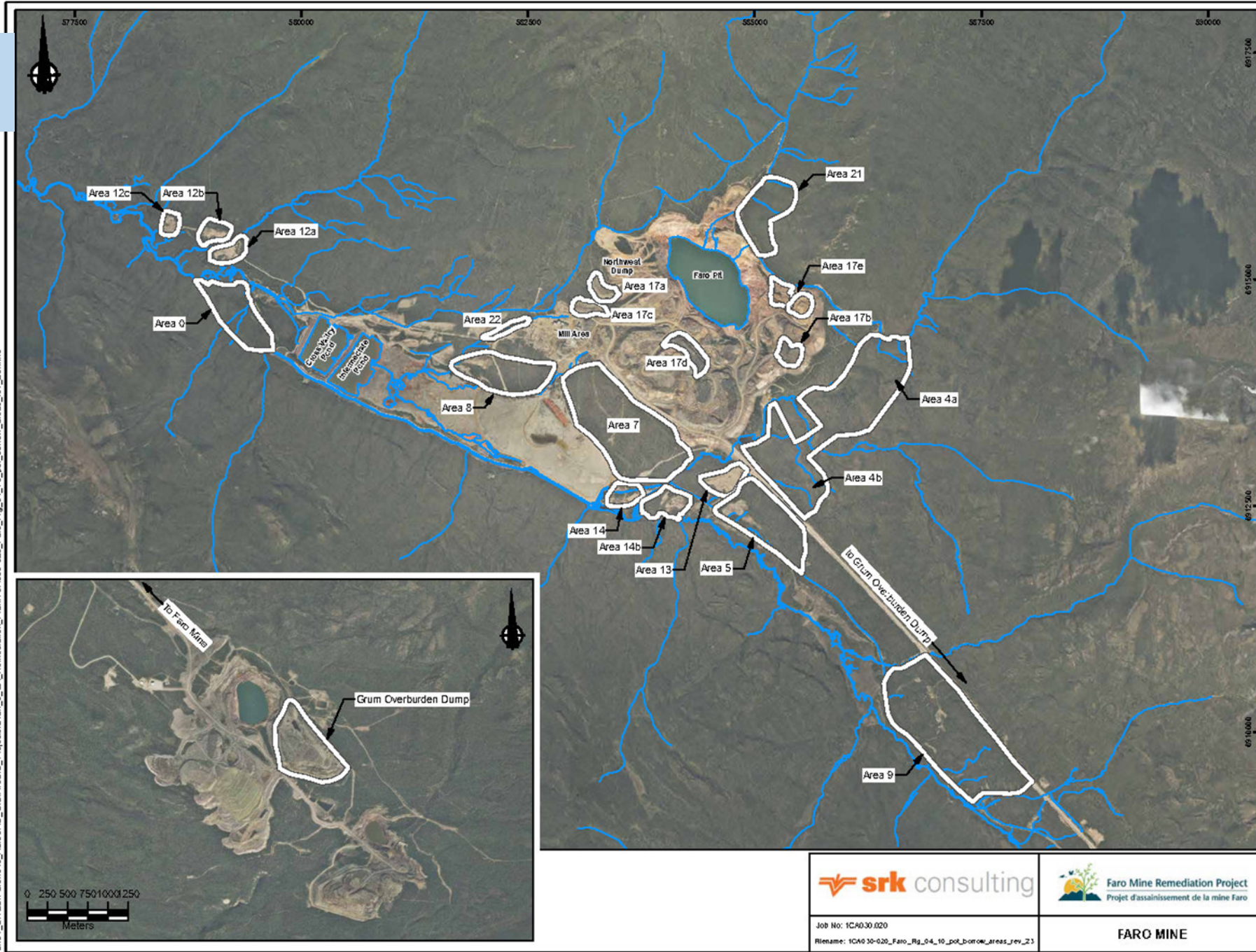
Job No: 1CA030-020  
Rename: 1CA030-020\_Far0\_Fig\_04\_08\_RCTA Land Form Cover\_rev\_25

**FARO MINE**

Date: May 2019	Approved: HW	Figure: 4-8
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# Borrow Development



**LEGEND**

- Stream / Creek
- Potential Borrows

**NOTES**

1. Coordinate system is NAD 1983 CSRS UTM Zone 8N.

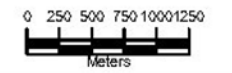
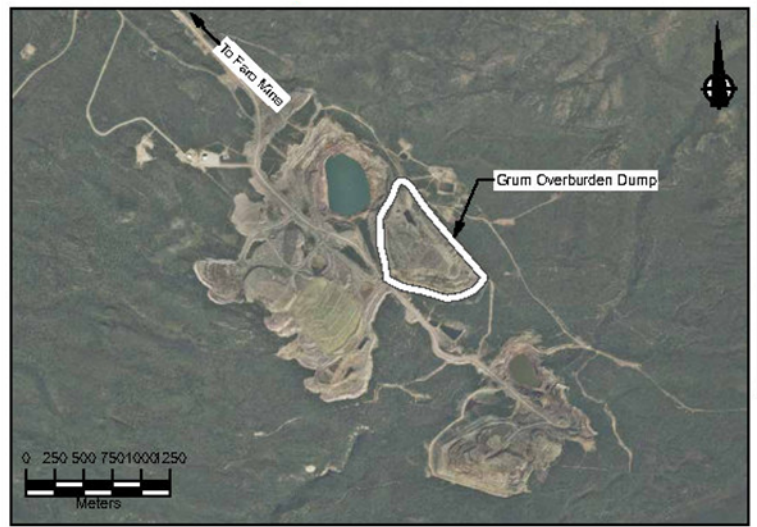
**REFERENCES**

1. Aerial photo from Peregrine Aerial Surveyors Inc., photography flown August 2012.

**FIGURE NOTE**

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**srk consulting**

Job No: 1CA030.020  
 Filename: 1CA030-020\_Faro\_Fig\_04\_10\_pot\_borrow\_areas\_rev\_23

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

**FARO MINE**

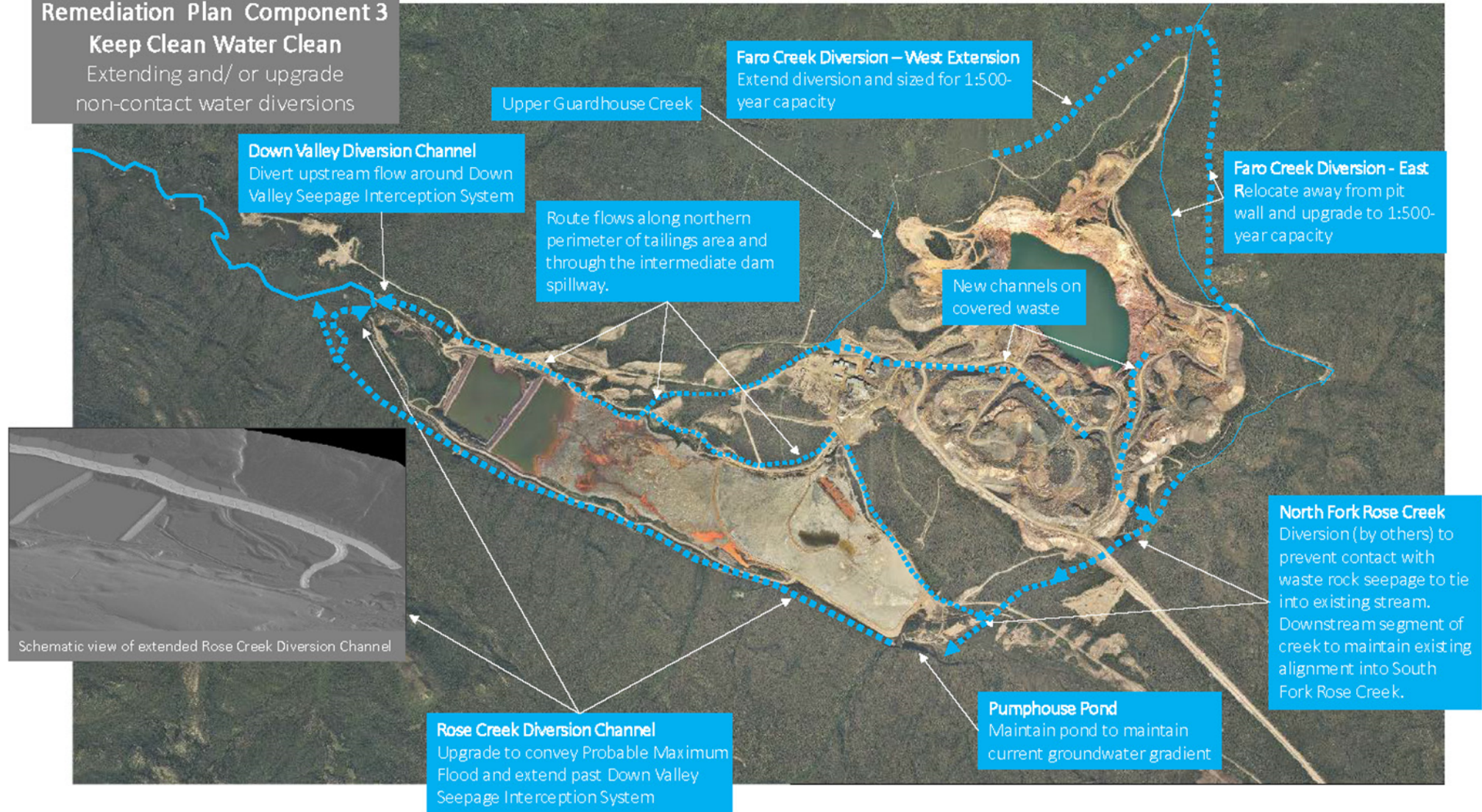
Faro Mine Remediation Plan		
Potential Borrow Areas		
Date: May 2019	Approved: GB	Figure: <b>4-10</b>



# Non-Contact Water

## Remediation Plan Component 3 Keep Clean Water Clean

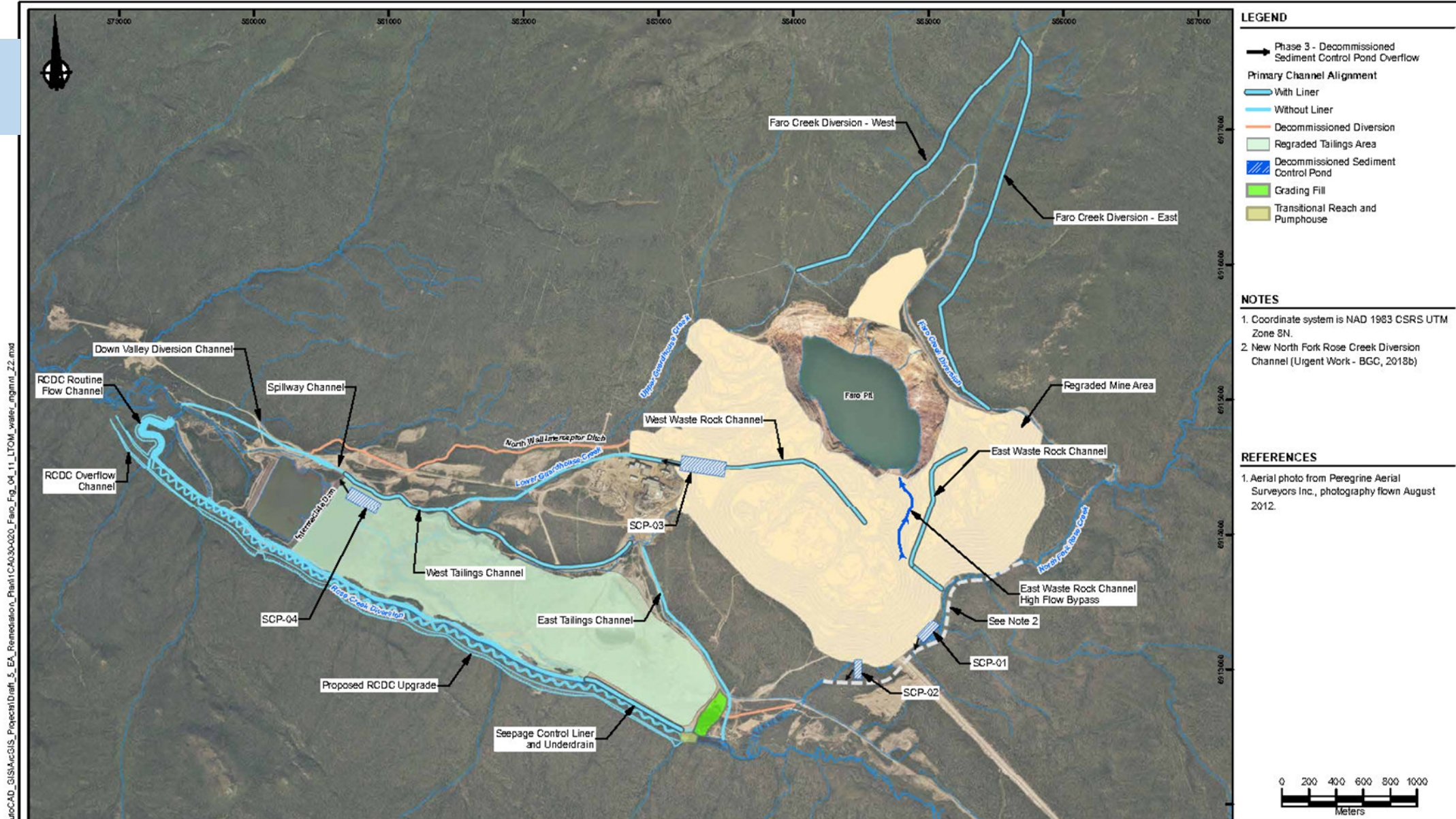
Extending and/ or upgrade non-contact water diversions



		Faro Mine Remediation Plan		
		InfoGraphic 6 - Remediation Plan - Keep Clean Water Clean		
Job No: 10/AC000000 Filename: 10/AC000000_faro_fis_0201_infu_02_infographics_rev01.aprx	<b>FARO MINE</b>	Date: May 2019	Approved: DBM	Figure: 2-6



# Non-Contact Water



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**FIGURE NOTE**

Content presented in this figure may display details that differ from figures included in the Faro Mine Remediation Project Proposal. Any such differences are likely a result of advancing engineering beyond conceptual design. Advancement of designs are expected to result in further positive changes on the receiving environment and should not fundamentally alter the conclusions of the assessment under YESAA.



Job No: 1CA030-020  
 Rename: 1CA030-020\_Faro\_Fig\_04\_11\_LTCM\_water\_mgmt\_22

**FARO MINE**

Faro Mine Remediation Plan		
Long-Term Operations and Maintenance Surface - Water Management		
Date: May 2019	Approved: DBM	Figure: 4-11

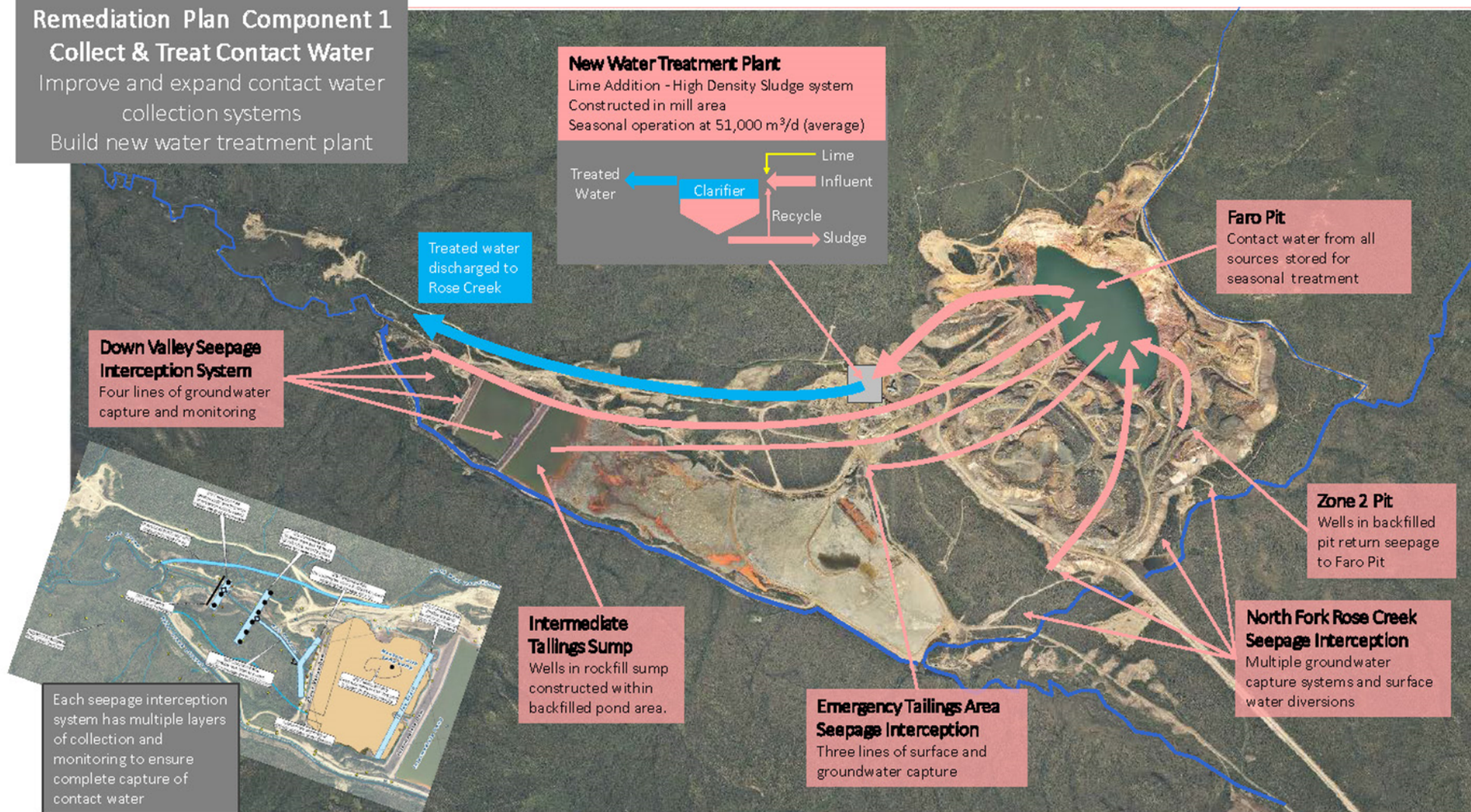


# Contact Water

## Remediation Plan Component 1

### Collect & Treat Contact Water

Improve and expand contact water collection systems  
 Build new water treatment plant

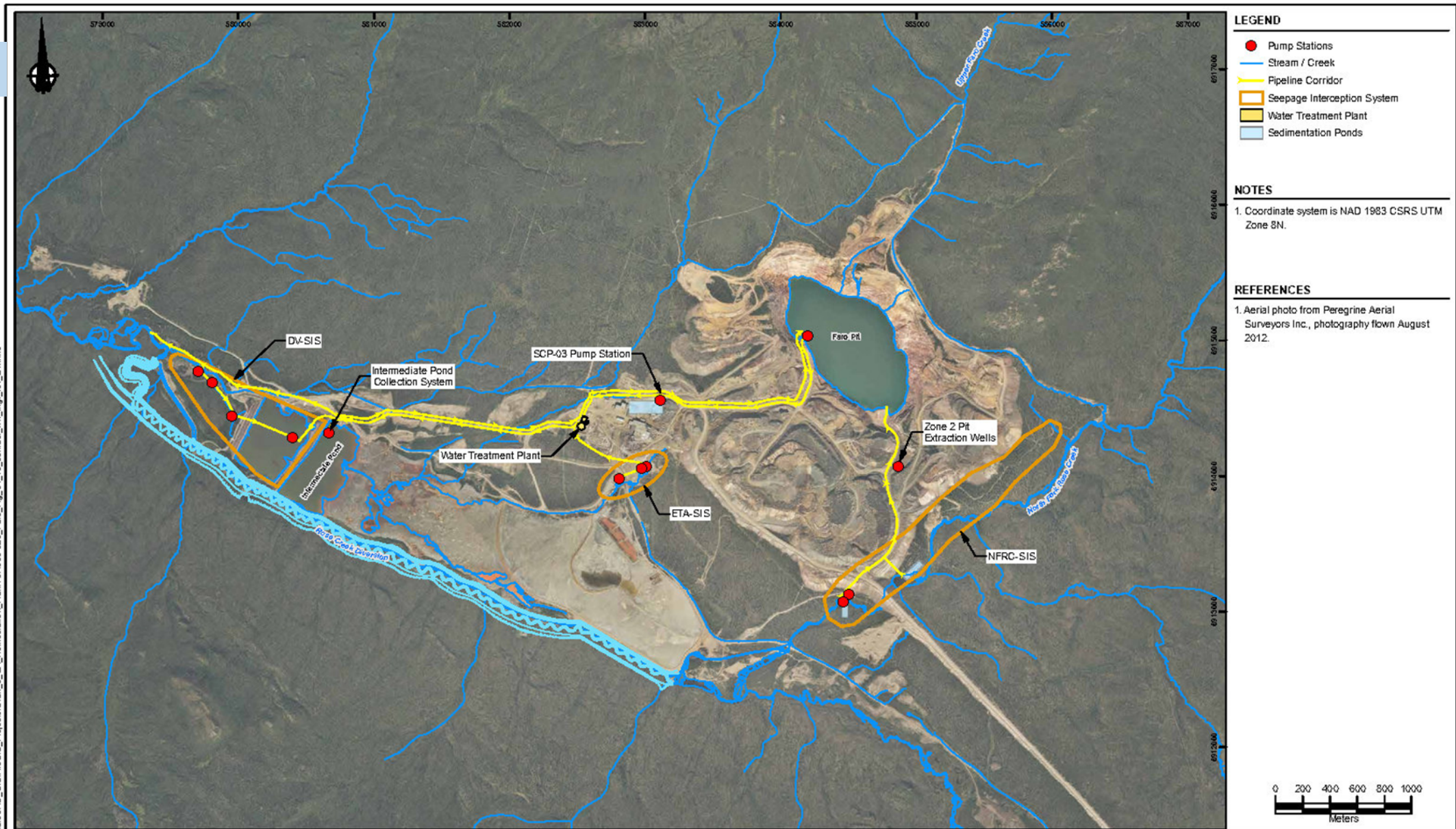


**Notes:**  
 Coordinate System: NAD 1983 CSRS UTM Zone 8N  
 Basemap Image: Aerial photography acquired by Peregrine Aerial Surveyors Inc. and Eagle Mapping in August 2012

		Faro Mine Remediation Plan		
		InfoGraphic 4 - Remediation Plan - Collect & Treat Contact Water		
Job No: 10/AC000000 Filename: 10/AC000000/ro_fis_0201/inf_04_infographics_rev01.apk	<b>FARO MINE</b>	Date: May 2019	Approved: DBM	Figure: 2-4



# Contact Water



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### FIGURE NOTE

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Job No: 1CA030-020  
 Rlien am: 1CA0 30-020\_Faro\_Fig\_04\_16\_contact\_wtr\_mng\_rev\_24

FARO MINE

Faro Mine Remediation Plan

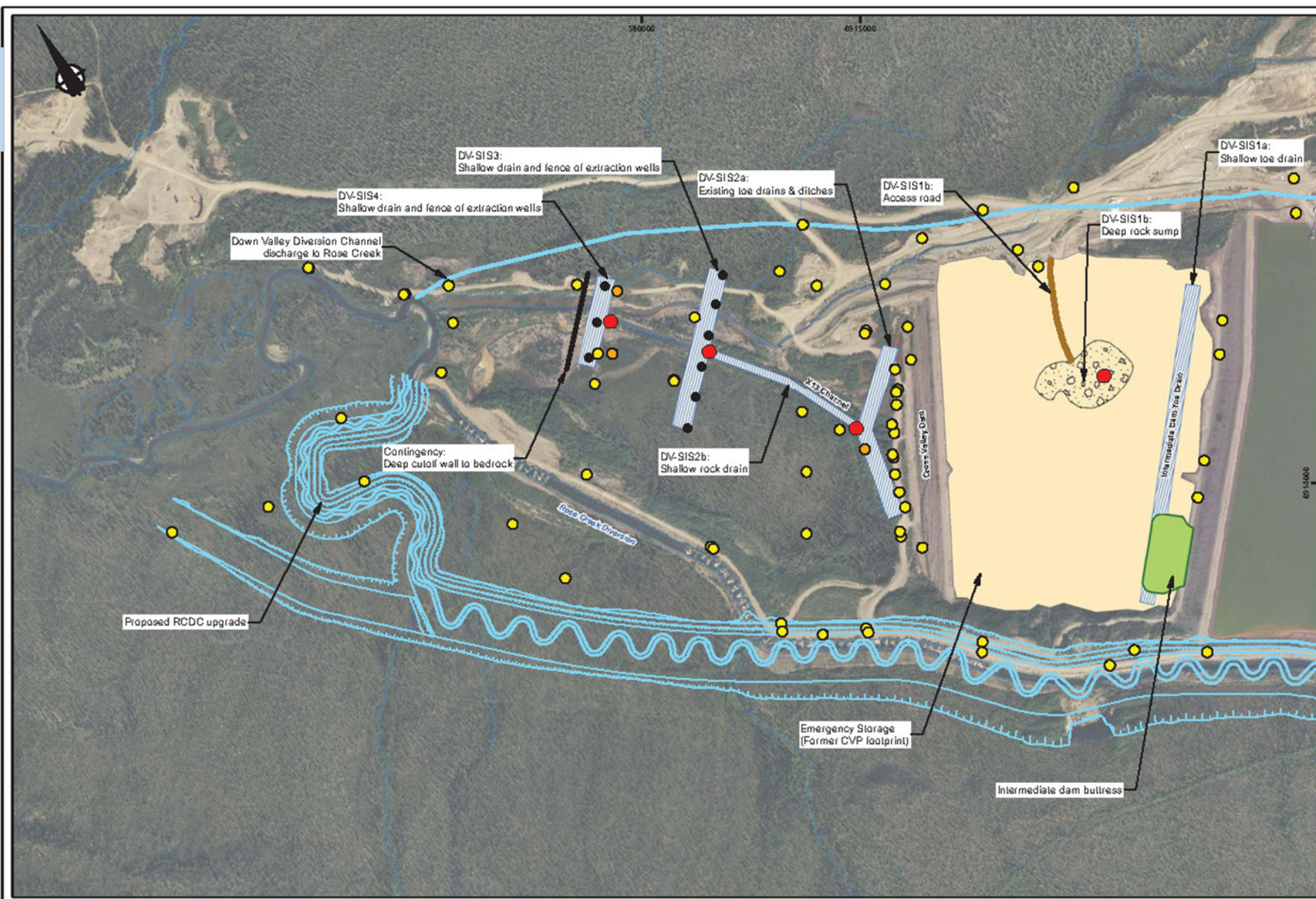
Contact Water Management Components

Date: May 2019	Approved: JF	Figure: 4-16
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# Contact Water DV-SIS

Z:\01\_SITES\Far0\_AutoCAD\_GIS\AcGIS\_Projects\Drawn\_5\_EA\_Remediation\_Plan\1CA030-020\_Faro\_Fig\_04\_20\_CVD\_SIS\_concept\_rev\_24.mxd



**LEGEND**

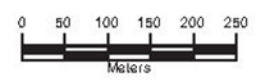
- Existing Monitoring Well
- Existing Pumping Well
- Pumping Stations
- Water Diversion
- Stream / Creek

**NOTES**

- Coordinate system is NAD 1983 CSRS UTM Zone 8N.

**REFERENCES**

- Aerial photo from Peregrine Aerial Surveyors Inc., photography flown August 2012.



**FIGURE NOTE**

Content presented in this figure may display details that differ from figures included in the Faro Mine Remediation Project Proposal. Any such differences are likely a result of advancing engineering beyond conceptual design. Advancement of designs are expected to result in further positive changes on the receiving environment and should not fundamentally alter the conclusions of the assessment under YESAA.

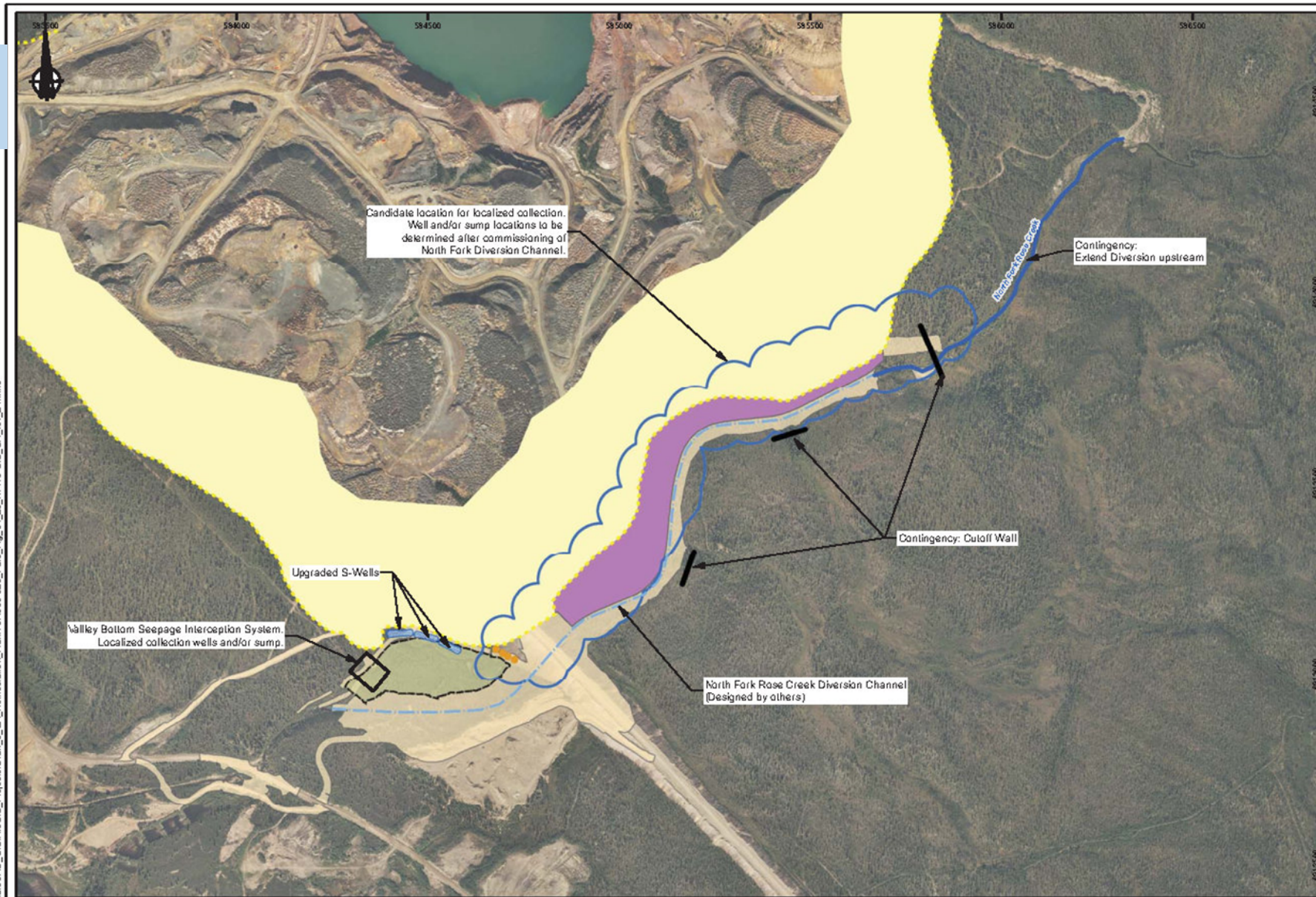
			Faro Mine Remediation Plan	
	Job No: 1CA030-020 Filename: 1CA030-020_Faro_Fig_04_20_CVD_SIS_concept_rev_24		Conceptual Design of DV-SIS	
FARO MINE		Date: May 2019	Approved: MMM	Figure: <b>4-20</b>







# Contact Water NFRCD



**LEGEND**

<span style="color: blue;">█</span>	NFRC-SIS
<span style="background-color: yellow;">█</span>	NFRCD (Designed by others)
<span style="background-color: lightgreen;">█</span>	Landformed
<span style="background-color: orange;">█</span>	Borrow (Designed by others)
<span style="background-color: purple;">█</span>	Valley Fill
<span style="background-color: yellow;">█</span>	Regraded Dump Slope
<span style="color: blue;">- - -</span>	NFRCD Centerline
<span style="color: blue;">—</span>	Stream / Creek

**NOTES**

1. Coordinate system is NAD 1983 CSRS UTM Zone 8N.

**REFERENCES**

1. Aerial photo from Peregrine Aerial Surveyors Inc., photography flown August 2012.  
 2. Hydraulic Network provided by Golder (April 26, 2018).

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**FIGURE NOTE**

Content presented in this figure may display details that differ from figures included in the Faro Mine Remediation Project Proposal. Any such differences are likely a result of advancing engineering beyond conceptual design. Advancement of designs are expected to result in further positive changes on the receiving environment and should not fundamentally alter the conclusions of the assessment under YESAA.

			Faro Mine Remediation Plan	
	Job No: 1CA030-020 Filename: 1CA030-020_Far0_Fig_04_28_NFRC-SIS_GA_rev_24		North Fork Rose Creek - SIS General Arrangement	
<b>FARO MINE</b>		Date:	Approved:	Figure:
		May 2019	DCM	4-28







# Demolition/ Hazardous Waste

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**LEGEND**

Buildings for Demolition

**Infrastructure Key**

1. Warehouse
2. Narcan Building
3. Lube Storage Area
4. Mill Building
5. Cold Storage
6. Reagents Building
7. Crusher Building
8. Coarse Ore Bin
9. Guard House
10. Dry & Lunch Room
11. Concentrate Loadout Building
12. Interim Water Treatment Plant
13. Fire Pump Building
14. Guardhouse Distribution Shed
15. Potable Water Shed
16. Old Water Pump House
17. Substation 1, 2 and Transformer
18. Generator
19. Truck Shop

**NOTES**

1. Coordinate system is NAD 1983 CSRS UTM Zone 8N.

**REFERENCES**

1. Aerial photo from Peregrine Aerial Surveyors Inc., photography flown August 2012.
2. Figure 7-2 CH3M HILL Design Road Map

0 25 50 75 100 125  
Meters

**FIGURE NOTE**

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**srk consulting**

Job No: 1CA000 020  
Fichier: 1CA030-020\_FarO\_Fig\_04\_31\_mineblogs\_demolition\_rev\_25

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

**FARO MINE**

Faro Mine Remediation Plan

Mine Buildings and Infrastructure for Demolition

Date: May 2019	Approved: SDM	Figure: <b>4-31</b>
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# Demolition/ Hazardous Waste

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**LEGEND**

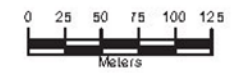
- Stream / Creek
- Metal Area of Potential Concern
- Concentrate Area of Potential Concern
- Low Grade Ore Area of Potential Concern
- Petroleum Hydrocarbon Areas of Potential Concern

**NOTES**

1. Coordinate system is NAD 1983 CSRS UTM Zone 8N.

**REFERENCES**

1. Aerial photo from Peregrine Aerial Surveyors Inc., photography flown August 2012.



**FIGURE NOTE**

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		Faro Mine Remediation Plan  Mill Area Potential Areas of Contamination						
Job No: 1CA030-020 Filename: 1CA030-020_Faro_Fig_04_33_contaminated_areas_rev_25	FARO MINE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Date:</td> <td style="width: 33%;">Approved:</td> <td style="width: 33%;">Figure:</td> </tr> <tr> <td>May 2019</td> <td>AS</td> <td>4-33</td> </tr> </table>	Date:	Approved:	Figure:	May 2019	AS	4-33
Date:	Approved:	Figure:						
May 2019	AS	4-33						



# Other Reclamation



### LEGEND

- Stream / Creek
- Historic Access Disturbance
- Historic Disturbance

### NOTES

1. Coordinate system is NAD 1983 CSRS UTM Zone 8N.

### REFERENCES

1. Aerial photo from Peregrine Aerial Surveyors Inc., photography flown August 2012.

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### FIGURE NOTE

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**srk consulting**

Job No: ICA030-020  
 Filename: ICA030-020\_Faro\_Fig\_04\_34\_other\_reclamation\_rev\_26

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

**FARO MINE**

Faro Mine Remediation Plan		
Other Reclamation Areas		
Date: May 2019	Approved: SDM	Figure: 4-34



# Additional Information



All questions must be submitted in writing to the contracting authority, Saloshna Pillay at [sal.pillay@tpsgc-pwgsc.gc.ca](mailto:sal.pillay@tpsgc-pwgsc.gc.ca), by the date and time stipulated in the RFP.