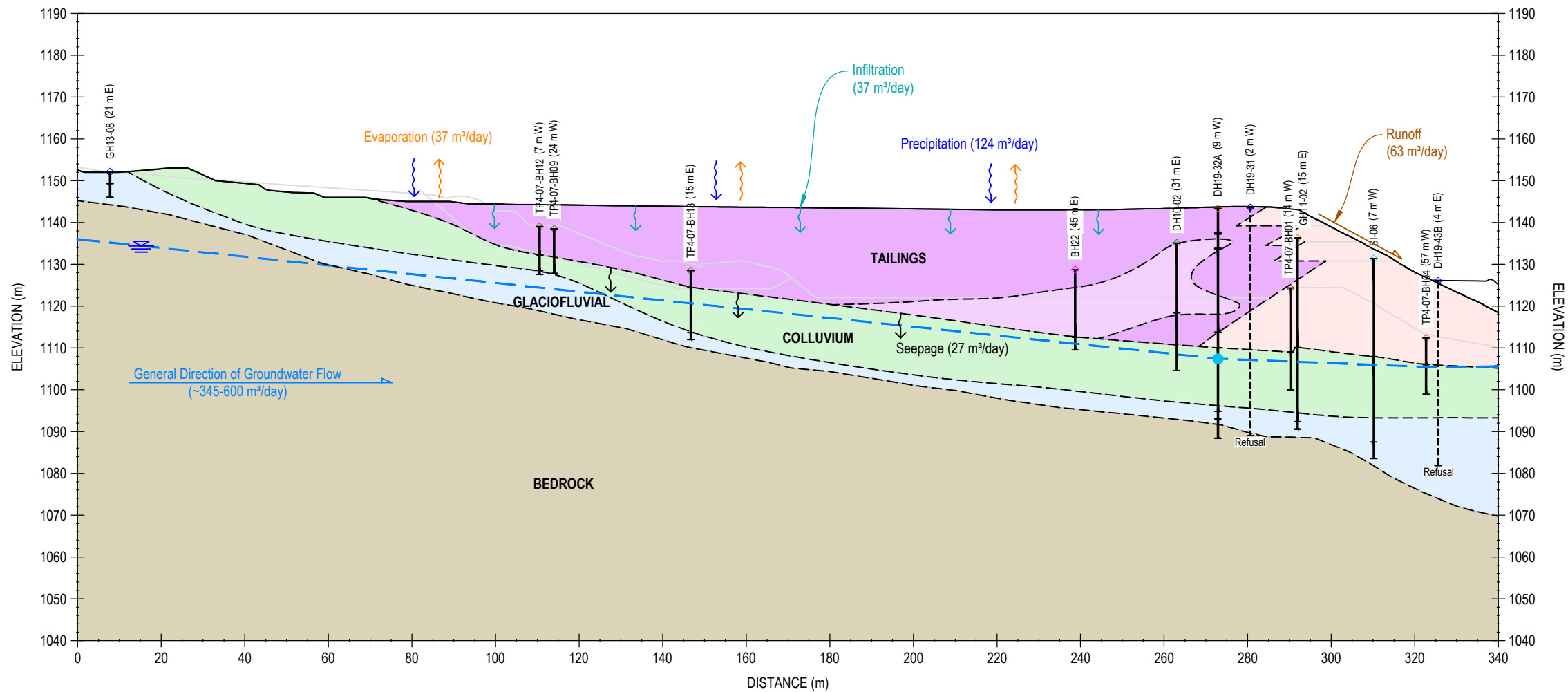


Q:\Edmonton\Engineering\141\Projects_CANTUNG\6.0 CAD\Drawings\CSM\2020 CSM Update\CSM_7-10_7-11.dwg [FIGURE 7-11] March 04, 2021 - 9:56:57 am (BY: LEE, ELVIN)



- NOTES:
- SECTION D-D' (TETRA TECH. 2020b)

	TP3	TP4	TP5
Number of Tests	46.0	38.0	10.0
Minimum (%)	3.0	3.4	3.4
Maximum (%)	36.2	44.4	19.8
Median (%)	14.7	10.9	9.8
Mean (%)	17.3	14.5	10.1

LEGEND:

— — — — — INFERRED WATER TABLE

— ? — ? — ? — INFERRED CONTACT

————— INTERPRETED CONTACT

2019 iBPT

COARSE TAILINGS (SANDS, GRAVELS)

FINE TAILINGS (SILTS, FINE SANDS)

COLLUVIUM

FLUVIAL / GLACIOFLUVIAL

EMBANKMENT

BEDROCK

ISSUED FOR USE

CLIENT

NORTH AMERICAN TUNGSTEN CORPORATION LTD

TETRA TECH

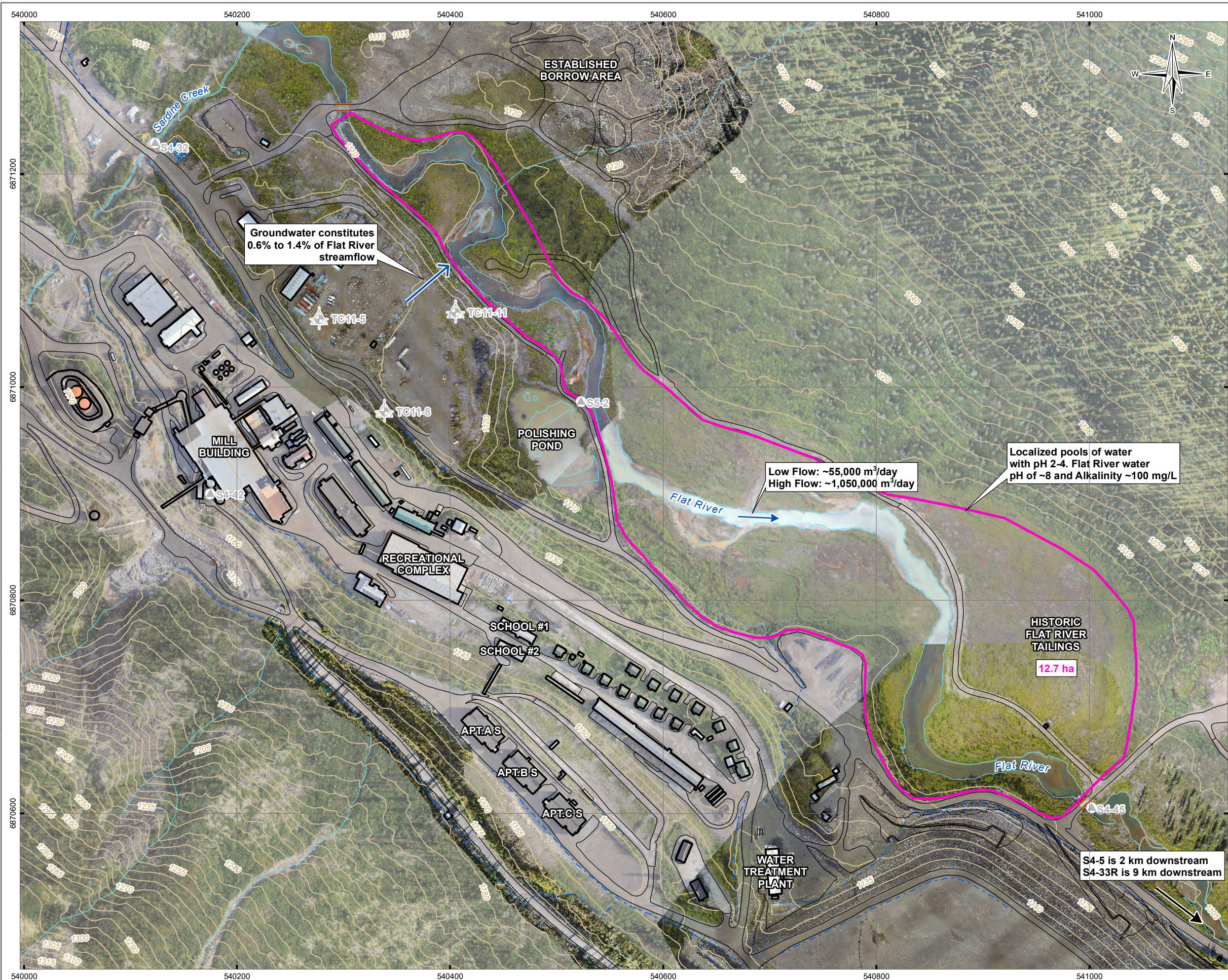
CONCEPTUAL SITE MODEL CANTUNG MINE, NT

REPRESENTATIVE SECTION OF TP4, TP3, TP5 WATER BALANCE

PROJECT NO.	DWN	CKD	REV
ENW.WENW03039-05	EL	GDK	0
OFFICE	DATE		
EDMONTON	May 2021		

Figure 7-11

Q:\Vancouver\GIS\ENVIRONMENTAL\WENW03039-03\Maps\Geochem_CSMWENW03039-03\Fig7-12_FlatRiverFloodplain.mxd modified 4/14/2021 by stephanie.leusink



LEGEND

- Approximate Extent of Tailings
- Historical Monitoring Well
- Historical Surface Water Sample
- Groundwater Flow Path
- Building
- Road
- Bridge
- Ditch
- Watercourse
- Contour (5 m)

NOTES

All locations and area boundaries are approximate.
Base data source:
Data provided by INAC (2013).
Drone imagery at the borrow pit, tailings ponds, and interceptor ditch collected in 2018.

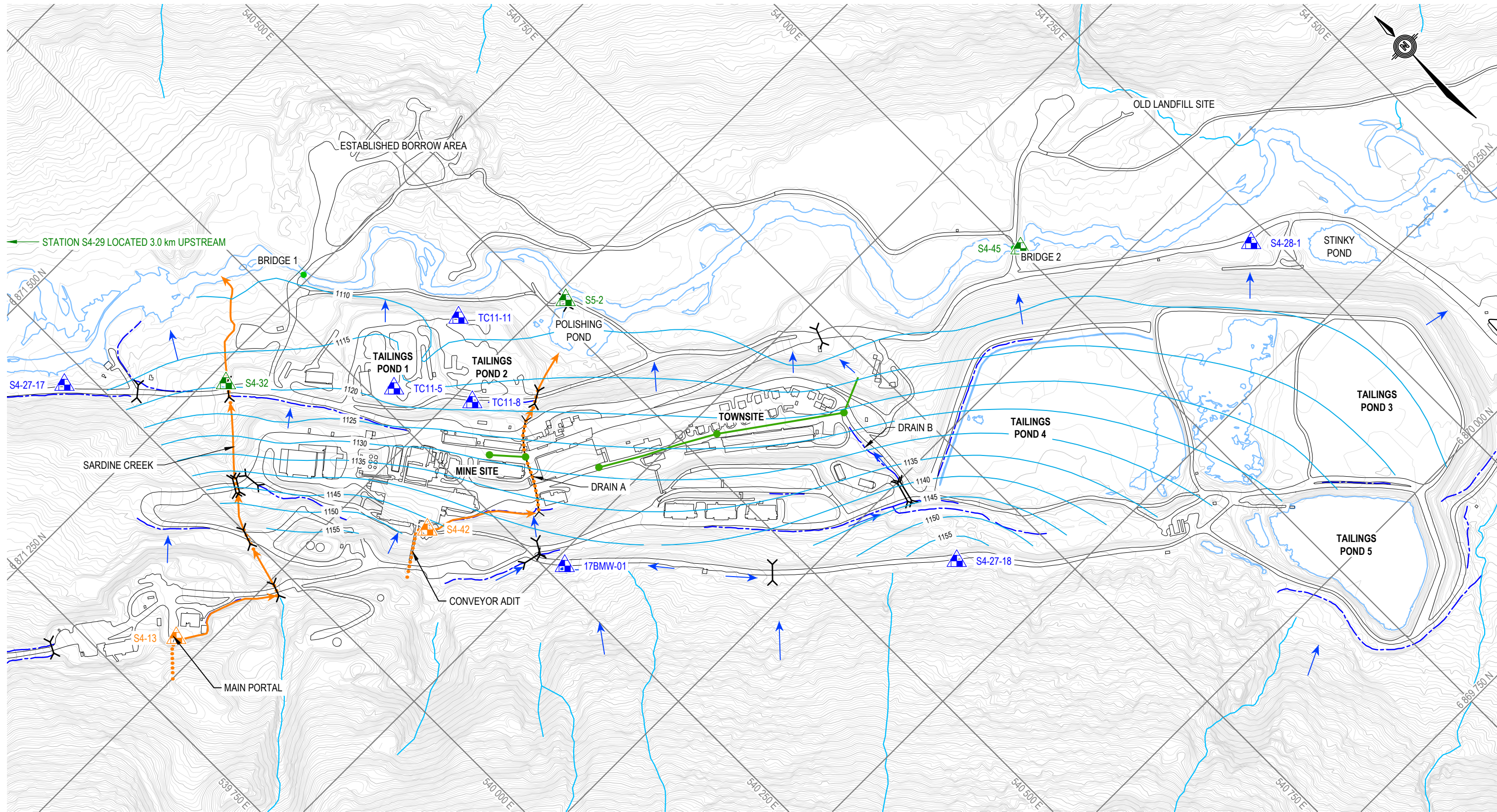
STATUS
ISSUED FOR USE

**CANTUNG MINE
CONCEPTUAL SITE MODEL**

Tailings in Flat River Floodplain

PROJECTION UTM Zone 9	DATUM NAD83	CLIENT
Scale: 1:3,500 50 25 0 50 Metres		
FILE NO. WENW03039-03_Fig7-12_FlatRiverFloodplain.mxd		
OFFICE TL-VANC	DWN SL	CKD BB
DATE May 2021	APVD SK	REV 0
PROJECT NO. ENW.WENW03039-03		Figure 7-12

Q:\Edmonton\Engineering\141\Projects_CANTUNG\6.0 CAD\Drawings\CSM\2021 CSM Update\CSM_8-1.dwg [FIGURE 8-1] May 10, 2021 - 3:18:07 pm (BY: LEE, ELVIN)



- LEGEND:**
- OVER LAND SURFACE WATER FLOW DIRECTION
 - MINE DISCHARGE DRAINAGE PATH (ABOVE GROUND)
 - MINE DISCHARGE DRAINAGE PATH (BELOW GROUND)
 - STORM DRAIN
 - CULVERT
 - BRIDGE LOCATION
 - DITCH
 - WATER COURSE
 - GROUNDWATER CONTOUR WITH ELEVATION
 - SURFACE WATER STATION
 - UNDERGROUND DISCHARGE SURFACE WATER STATION
 - GROUND WATER MONITORING WELL

NOTES:

- HORIZONTAL DATUM/PROJECTION: UTM ZONE 9N, NAD83 (CSRS) (2010) - METERS

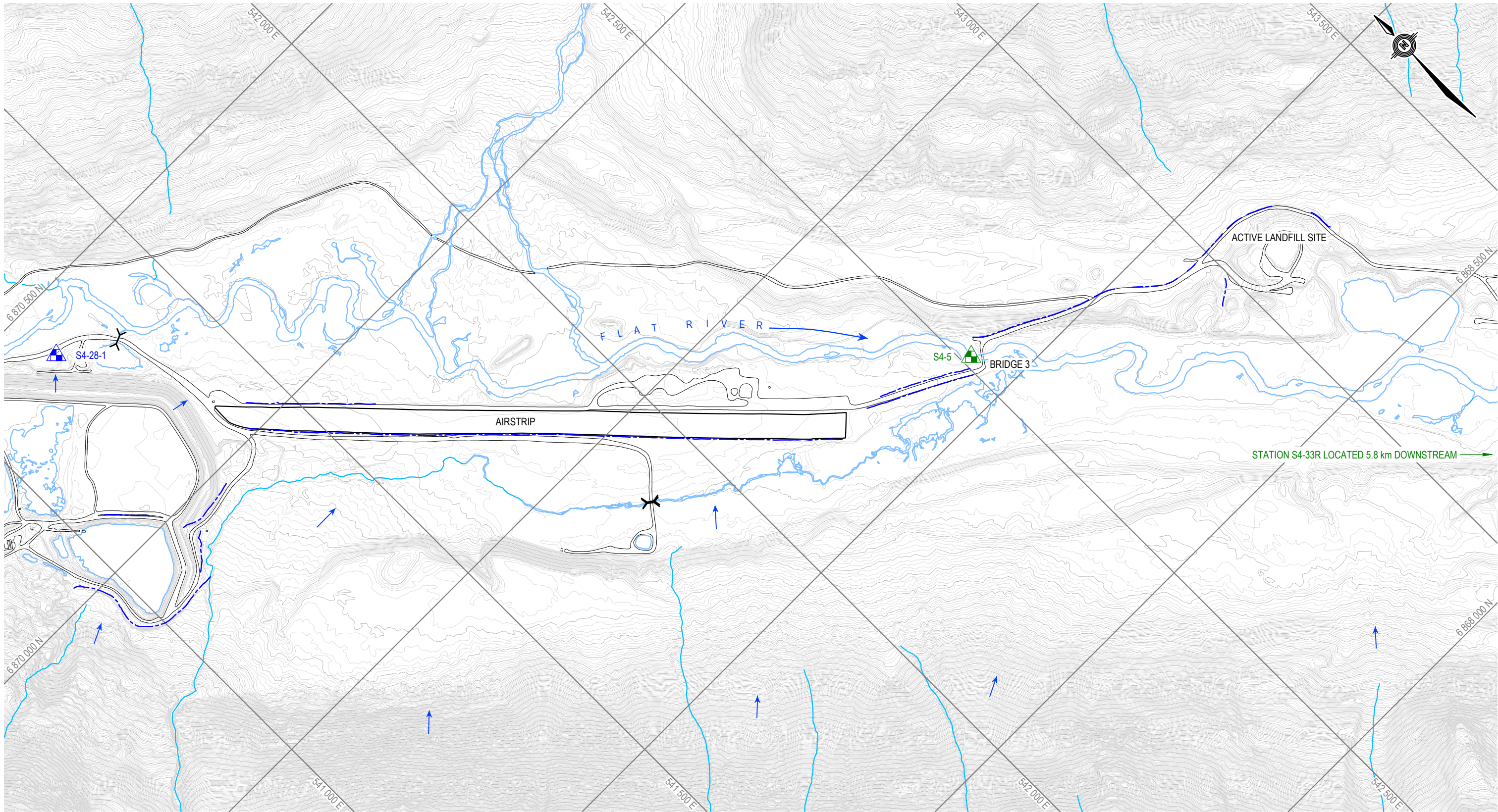
0 250m

Scale: 1:5,000 @ 11"x17"



CONCEPTUAL SITE MODEL CANTUNG MINE, NT				
MINE SITE AND TOWNSITE OVERVIEW SHOWING EXISTING MINE DISCHARGE, DITCHES, CULVERTS, AND SURFACE DRAINAGE				
PROJECT NO.	DWN	CKD	REV	FIGURE 8-1
ENW.WENW03039-03	EL	GK	A	
OFFICE	DATE			
EDMONTON	MARCH 2021			

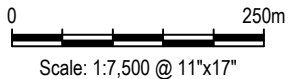
Q:\Edmonton\Engineering\141\Projects_CANTUNG\6.0 CAD\Drawings\CSM\2021 CSM Update\CSM_8-2.dwg [FIGURE 8-2] March 05, 2021 - 12:29:52 pm (BY: LEE, ELVIN)



- LEGEND:
- OVER LAND SURFACE WATER FLOW DIRECTION
 - X— CULVERT
 - - - DITCH
 - WATERCOURSE

- SURFACE WATER STATION
- GROUND WATER MONITORING WELL

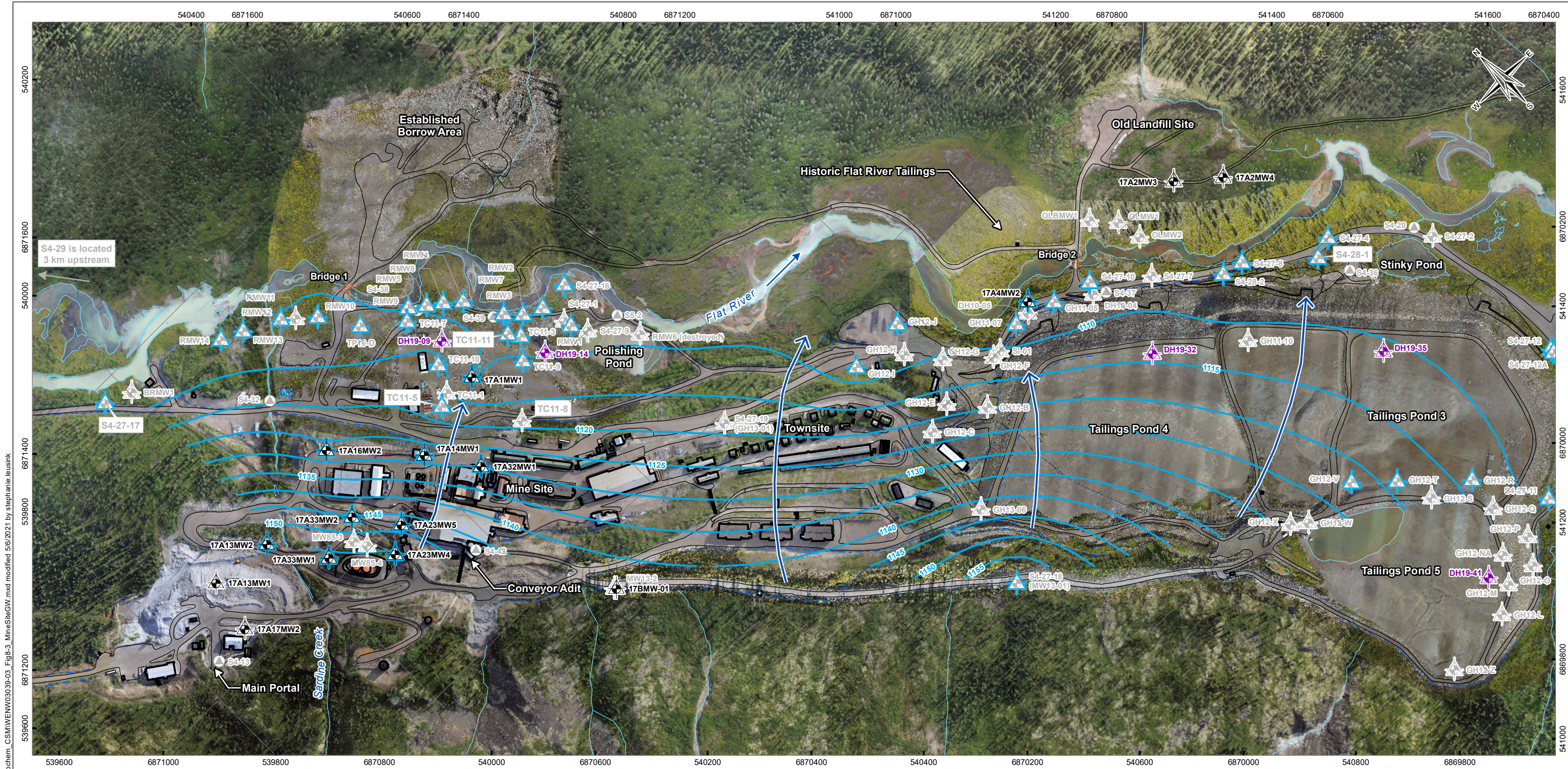
NOTES:
1. HORIZONTAL DATUM/PROJECTION: UTM ZONE 9N, NAD83 (CSRS) (2010) - METERS



CLIENT



CONCEPTUAL SITE MODEL CANTUNG MINE, NT				
AIRSTRIP AND ACTIVE LANDFILL OVERVIEW SHOWING EXISTING DITCHES, CULVERTS, AND SURFACE DRAINAGE				
PROJECT NO.	DWN	CKD	REV	FIGURE 8-2
ENW.WENW03039-03	EL	GK	A	
OFFICE	DATE			
EDMONTON	May 2021			



Q:\Vancouver\GIS\ENVIRONMENTAL\WEN\WENW03039-03\Fig8-3_MineSiteGW.mxd modified 5/6/2021 by stephanie.leusink

LEGEND

- 2019 Monitoring Well (DH)
- 2017 Monitoring Well (MW)
- Historical Monitoring Well
- Historical Surface Water Sample
- Monitoring Well with Inferred Groundwater Elevation
- Groundwater Contour (5 m asl; Fall 2017)
- Groundwater Flow Direction
- Building
- Road
- Bridge
- Ditch
- Watercourse

NOTES
Base data source:
Data provided by INAC (2013).
Drone imagery at the borrow pit, tailings ponds,
and interceptor ditch collected in 2018.

CANTUNG MINE
CONCEPTUAL SITE MODEL

Mine Site and Townsite Overview
Groundwater Elevation Contours

PROJECTION UTM Zone 9	DATUM NAD83	CLIENT NORTH AMERICAN TUNGSTEN CORPORATION LTD
Scale: 1:5,000 100 50 0 100 Metres		
FILE NO. WENW03039-03_Fig8-3_MineSiteGW.mxd		
OFFICE TL-VANC	DWN SL	CKD BB
DATE May 2021	APVD SK	REV 0
PROJECT NO. ENW.WENW03039-03		Figure 8-3

STATUS
ISSUED FOR USE

Q:\Vancouver\GIS\ENVIRONMENTAL\WEN\WENW03039-03\Maps\Geochem_CSM\WENW03039-03_Fig8-4_AirstripGW.mxd modified 4/14/2021 by stephanie leusink



LEGEND

- 2017 Monitoring Well (MW)
- Historical Monitoring Well
- Historical Surface Water Sample
- Monitoring Well with Inferred Groundwater Elevation
- Groundwater Contour (5 m asl; Fall 2017)
- Building
- Road
- Runway
- Bridge
- Ditch
- Watercourse

NOTES
Base data source:
Data provided by INAC (2013).
Drone imagery at the borrow pit, tailings ponds,
and interceptor ditch collected in 2018.

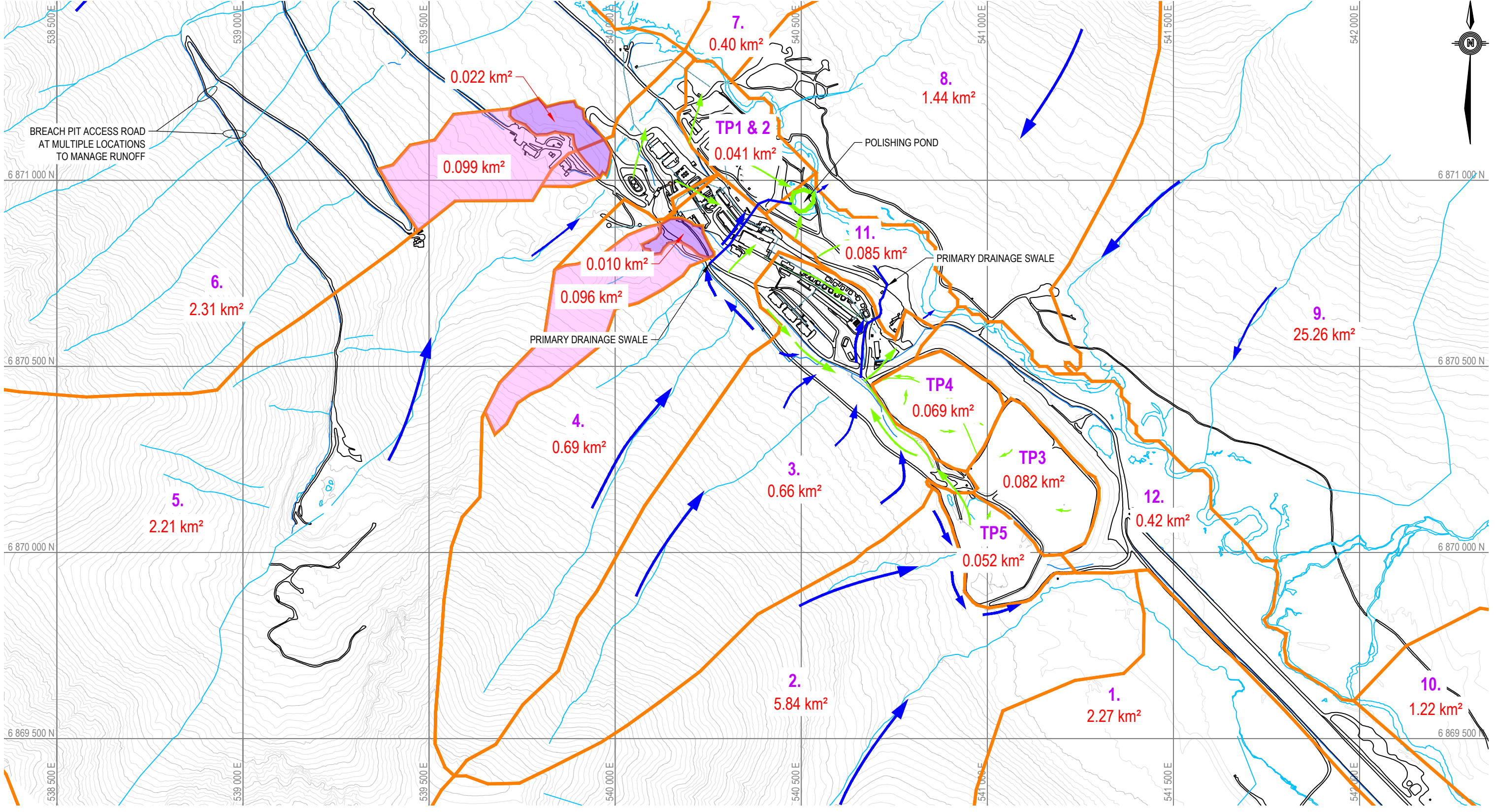
STATUS
ISSUED FOR USE

CANTUNG MINE
CONCEPTUAL SITE MODEL

Airstrip and New Landfill Overview
Showing Groundwater Monitoring Wells

PROJECTION UTM Zone 9	DATUM NAD83	CLIENT
Scale: 1:6,000 100 50 0 100 Metres		
FILE NO. WENW03039-03_Fig8-4_AirstripGW.mxd		
OFFICE Tl-VANC	DWN SL	CKD BB
DATE May 2021	APVD SK	REV 0
PROJECT NO. ENW.WENW03039-03		Figure 8-4

Q:\Edmonton\Engineering\141\Projects_CANTUNG\6.0 CAD\Drawings\CSM\2021 CSM Update\CSM_8-10.dwg [FIGURE 8-10] March 05, 2021 - 12:50:49 pm (BY: LEE, ELVIN)



LEGEND:

- CATCHMENT BOUNDARY
- NON-CONTACT SURFACE WATER FLOW
- CONTACT SURFACE WATER FLOW
- CHANNELS

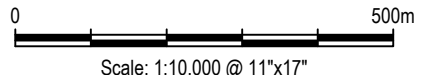
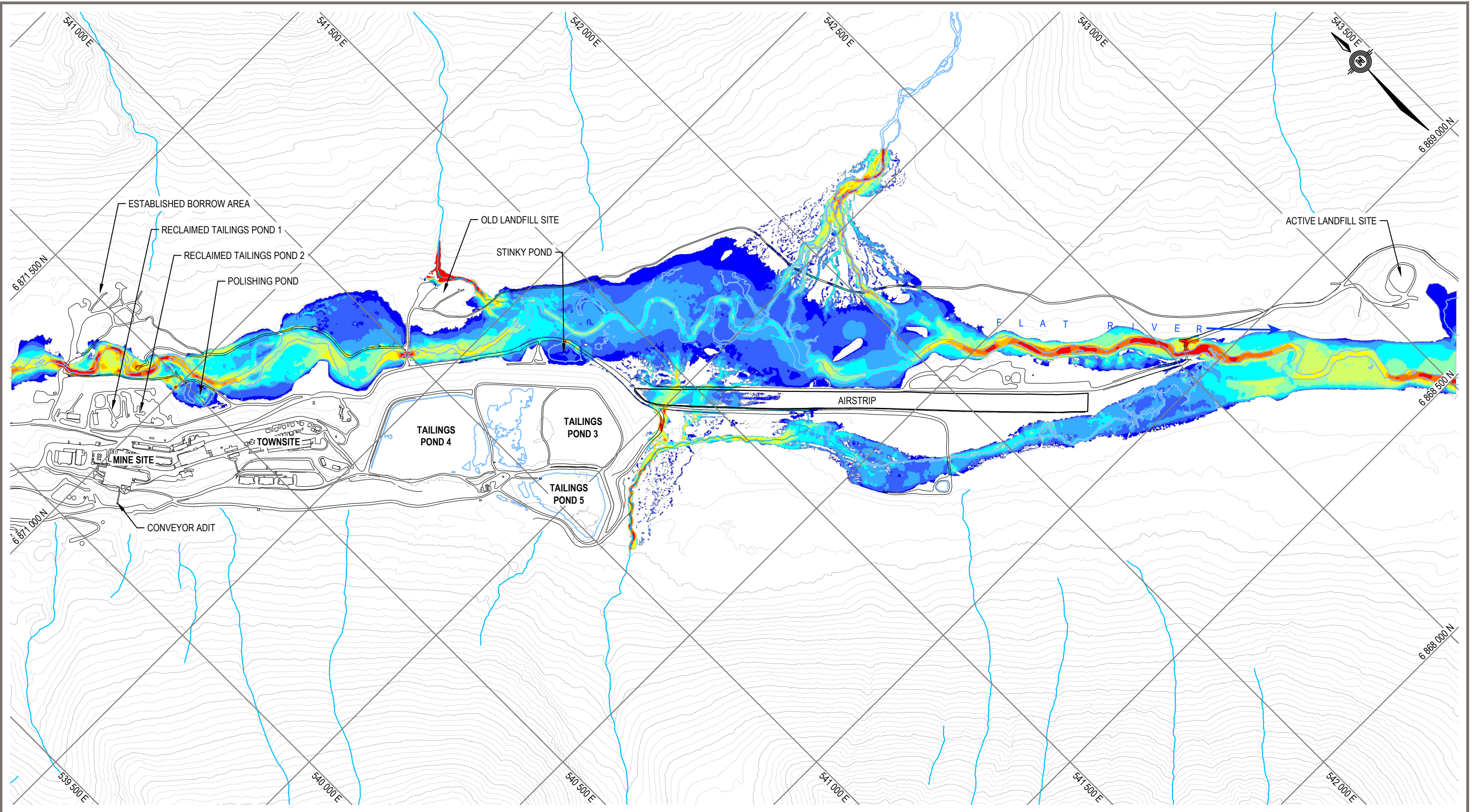
Scale: 1:10,000 @ 11"x17"

- WASTE ROCK PILES
- CATCHMENT AREAS FOR WASTE ROCK PILES

- NOTES:**
- HORIZONTAL DATUM/PROJECTION: UTM ZONE 9N, NAD83 (CSRS) (2010) - METERS
 - CONTOUR INTERVAL 10 m

CLIENT		REMEDIAL OPTIONS ANALYSIS CANTUNG MINE, NT			
		PROPOSED OVERALL SITE WATER MANAGEMENT PLAN			
		PROJECT NO. ENW.WENW03039-03	DWN EL/EP	CKD GDK	REV A
STATUS ISSUED FOR USE		OFFICE EDMONTON	DATE May 2021	FIGURE 8-10	

Q:\Edmonton\Engineering\141\Projects_CANTUNG\6.0 CAD\Drawings\CSM\2021 CSM Update\CSM_8-12.dwg [FIGURE 8-12] March 05, 2021 - 12:51:55 pm (BY: LEE, ELVIN)



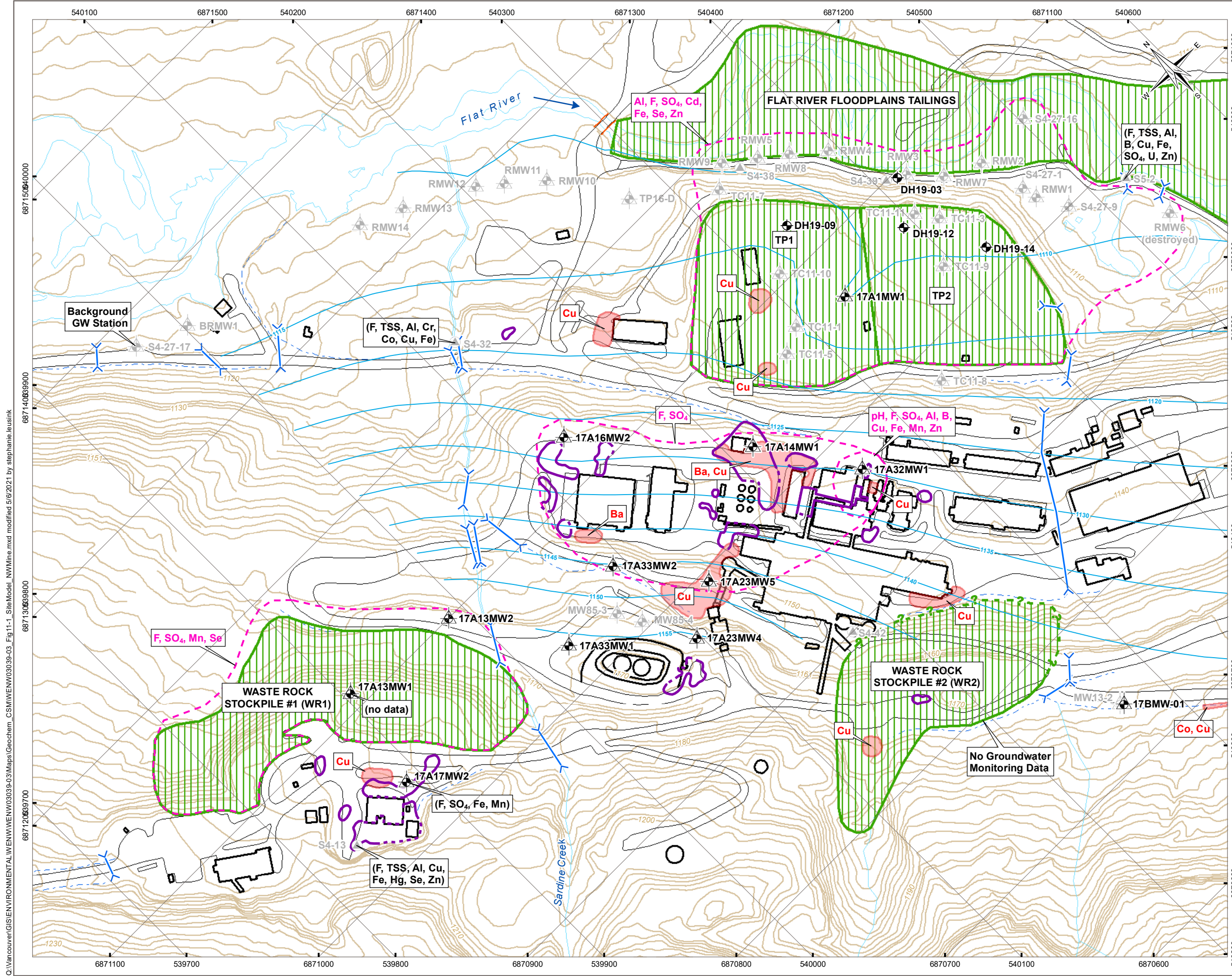
MAX. VELOCITY (m/s)	
0 - 0.2	1.4 - 1.7
0.3 - 0.4	1.8 - 2.1
0.5 - 0.7	2.2 - 2.5
0.8 - 1	2.6 - 3.1
1.1 - 1.3	3.2 - 5

NOTES:

1. HORIZONTAL DATUM/PROJECTION: UTM ZONE 9N, NAD83 (CSRS) (2010) - METERS

CLIENT		CONCEPTUAL SITE MODEL CANTUNG MINE, NT					
		FLAT RIVER PMF LATERAL EXTENTS AND VELOCITY					
PROJECT NO.	DWN	CKD	REV	FIGURE 8-12			
ENW.WENW03039-03	EL	GK	A				
OFFICE	DATE						
EDMONTON	May 2021						

TETRA TECH



LEGEND

2019 Sonic Drilling Borehole

2017 Monitoring Well (MW)

Historical Monitoring Well

Historical Surface Water Sample

Contaminant Areas

Estimated PHC Affected Area (Management Limits)

Inferred PHC Extent (requires further assessment) (Management Limits)

Estimated Area with Soil Metals Exceeding SSRC

Potential ARD/ML Source Area

Estimated Area of Influence – Groundwater, with Concentrations Exceeding Guidelines

(XX) Concentrations observed above surface water or groundwater guidelines

Culvert

Groundwater Contour (5 m asl; Fall 2017)

Base Features

Building

Road

Bridge

Ditch

Watercourse

Contour (2 m)

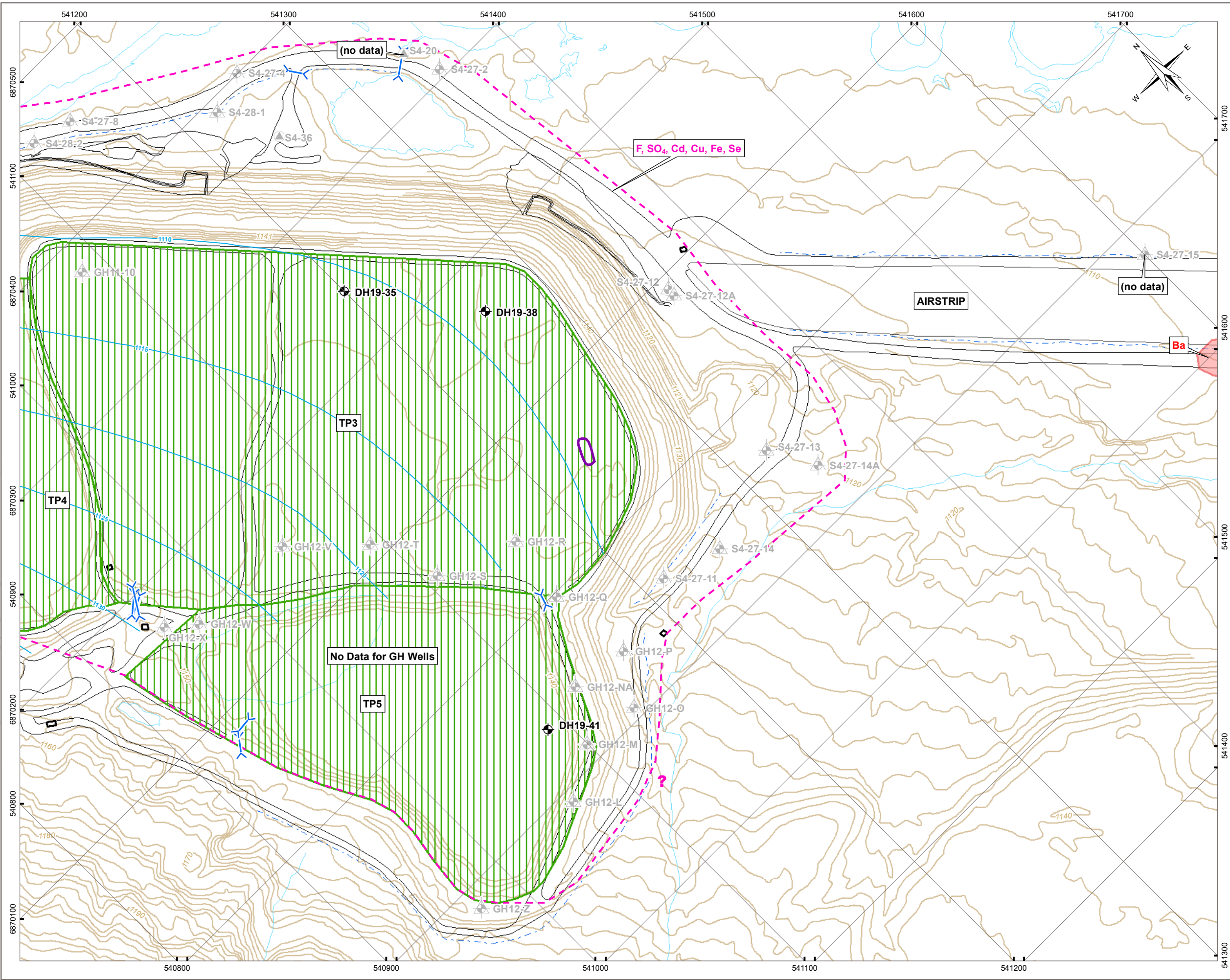
NOTES
All locations and area boundaries are approximate.
Base data source:
Data provided by INAC (2013).
Drone imagery at the borrow pit, tailings ponds, and interceptor ditch collected in 2018.

CANTUNG MINE
CONCEPTUAL SITE MODEL

Site Model
Source, Pathway, Receptor –
Waste Rock Piles, NW Mine, TP1/2

PROJECTION UTM Zone 9	DATUM NAD83	CLIENT 				
Scale: 1:2,500 50 25 0 50 Metres		TETRA TECH				
FILE NO. WENW03039-03_Fig11-1_SiteModel_NWMine.mxd		Figure 11-1				
OFFICE TL-VANC	<table><tr><td>DWN SL</td><td>CKD BB</td><td>APVD SK</td><td>REV 0</td></tr></table>		DWN SL	CKD BB	APVD SK	REV 0
DWN SL	CKD BB		APVD SK	REV 0		
DATE May 2021	PROJECT NO. ENW.WENW03039-03					

Q:\Vancouver\GIS\ENVIRONMENTAL\WENW03039-03\Maps\Geochem_CSMWENW03039-03\Fig11-3_SiteModel_TP3TP5.mxd modified 5/6/2021 by stephanie.leusink



LEGEND

2019 Sonic Drilling Borehole

Historical Monitoring Well

Historical Surface Water Sample

Contaminant Areas

Estimated PHC Affected Area (Management Limits)

Estimated Area with Soil Metals Exceeding SSRC

Potential ARD/ML Source Area

Estimated Area of Influence – Groundwater, with Concentrations Exceeding Guidelines

(XX) Concentrations observed above surface water or groundwater guidelines

Drainage Features

Culvert

Groundwater Contour (5 m asl; Fall 2017)

Base Features

Building

Road

Runway

Ditch

Watercourse

Contour (2 m)

NOTES
All locations and area boundaries are approximate.
Base data source:
Data provided by INAC (2013).
Drone imagery at the borrow pit, tailings ponds, and interceptor ditch collected in 2018.

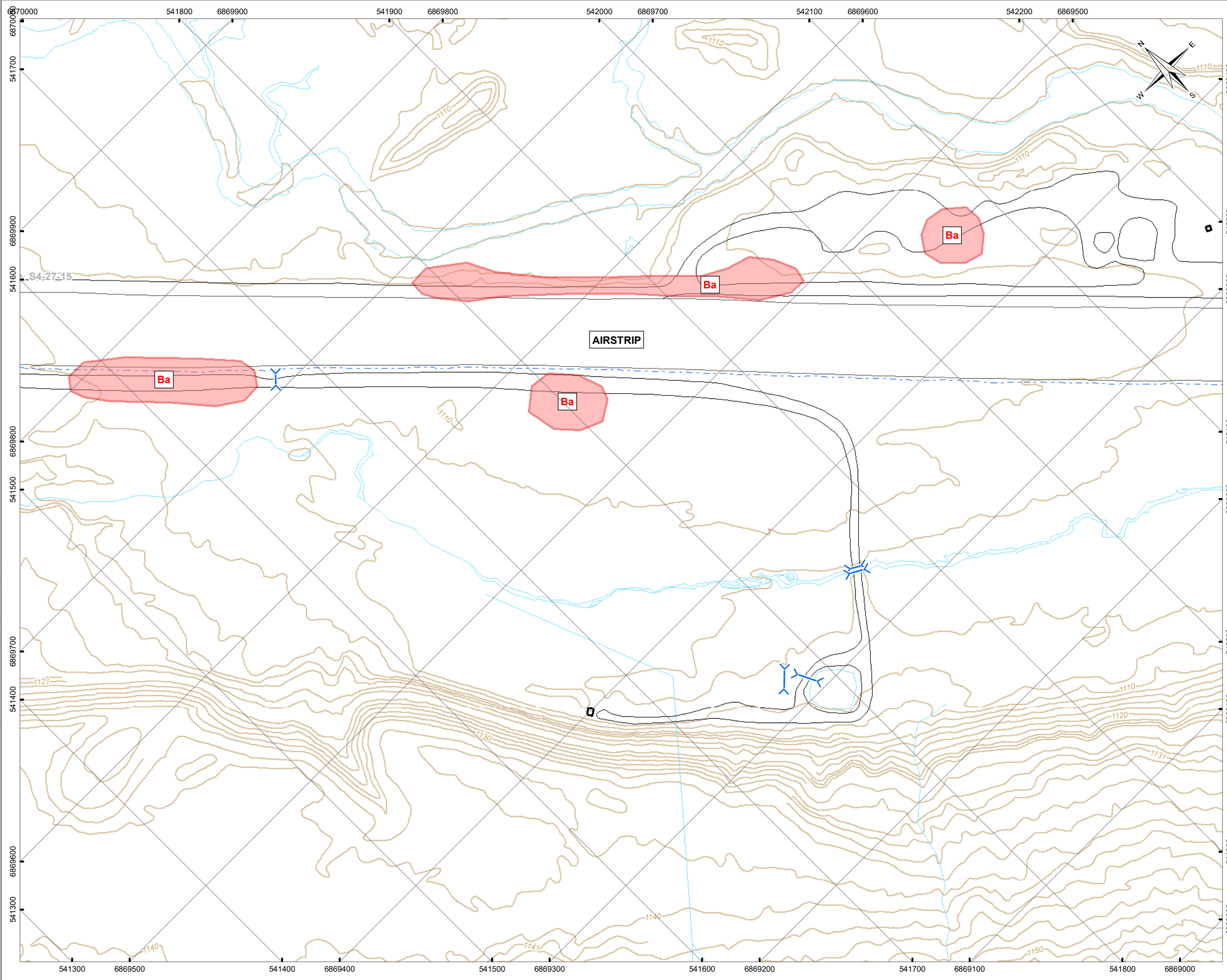
STATUS
ISSUED FOR USE

**CANTUNG MINE
CONCEPTUAL SITE MODEL**

**Site Model
Source, Pathway, Receptors –
TP3, TP5**

PROJECTION UTM Zone 9	DATUM NAD83	CLIENT
Scale: 1:2,500 50 25 0 50 Metres		
FILE NO. WENW03039-03_Fig11-3_SiteModel_TP3TP5.mxd	TETRA TECH	
OFFICE TL-VANC	DWN SL	CKD BB
DATE May 2021	APVD SK	REV 0
PROJECT NO. ENW.WENW03039-03		Figure 11-3

Q:\Vancouver\GIS\ENVIRONMENTAL\WENW\WENW03039-03\Maps\Geochem_CSM\WENW03039-03_Fig11-4_SiteModel_Airstrip.mxd modified 5/6/2021 by stephanie.leusink



LEGEND

- Historical Monitoring Well
- Contaminant Areas**
 - Estimated Area with Soil Metals Exceeding SSRC
- Drainage Features**
 - Culvert
- Base Features**
 - Building
 - Road
 - Runway
 - Ditch
 - Watercourse
 - Contour (2 m)

NOTES
All locations and area boundaries are approximate.
Base data source:
Data provided by INAC (2013).
Drone imagery at the borrow pit, tailings ponds, and interceptor ditch collected in 2018.

STATUS
ISSUED FOR USE

**CANTUNG MINE
CONCEPTUAL SITE MODEL**

**Site Model
Source, Pathway, Receptors –
Airstrip**

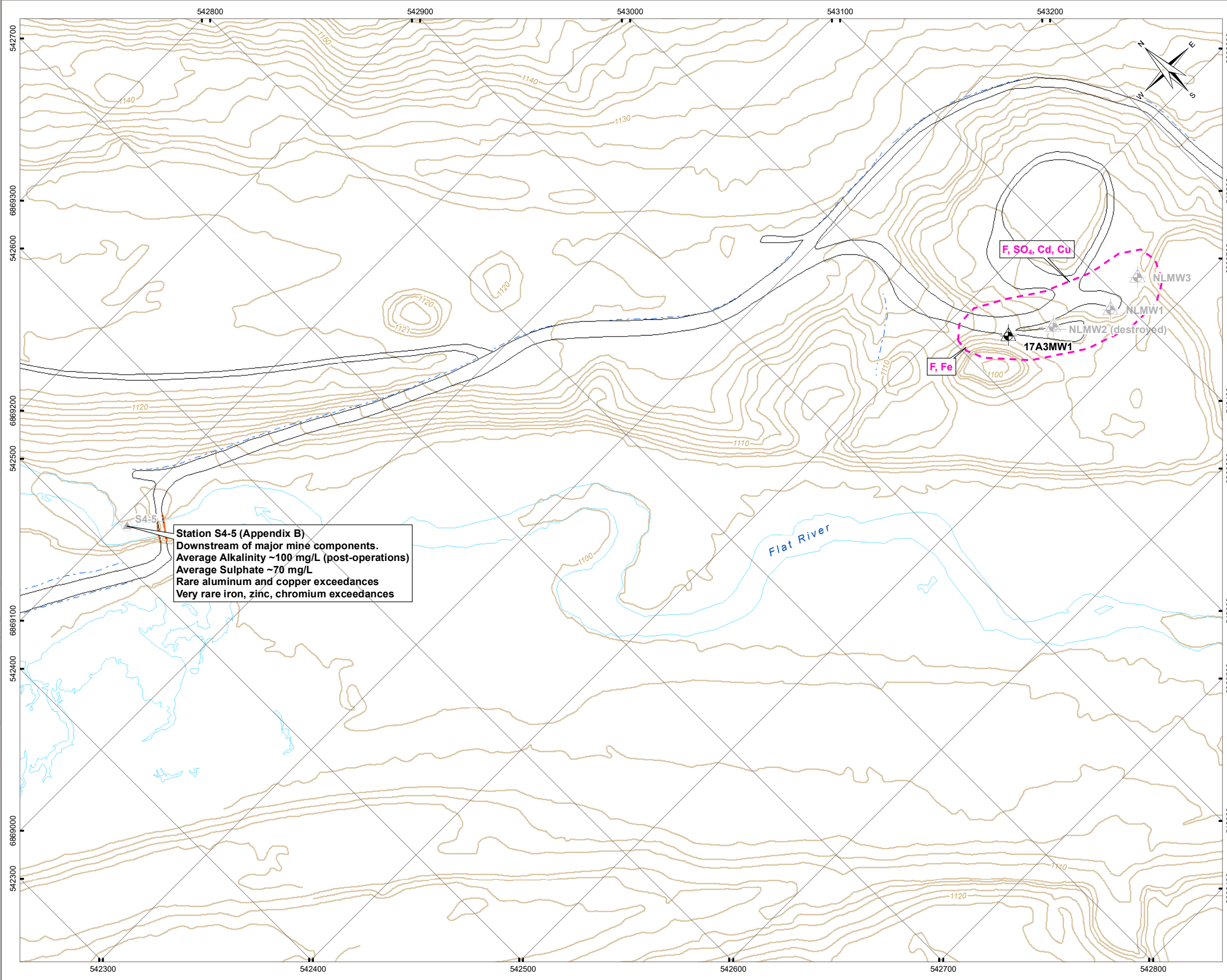
PROJECTION UTM Zone 9	DATUM NAD83	CLIENT
Scale: 1:2,500 		

FILE NO. WENW03039-03_Fig11-4_SiteModel_Airstrip.mxd	TETRA TECH
OFFICE TL-VANC	
DATE May 2021	

DWN SL	CKD BB	APVD SK	REV 0
PROJECT NO. ENW.WENW03039-03			

Figure 11-4

Q:\Vancouver\GIS\ENVIRONMENTAL\WENW\WENW03039-03\Maps\Geochem_CSMWENW03039-03_Fig11-5_SiteModel_SEArea.mxd modified 3/6/2021 by stephanie.leusink



LEGEND

- 2017 Monitoring Well (MW)
- Historical Monitoring Well
- Historical Surface Water Sample
- Contaminant Areas**
 - Estimated Area of Influence – Groundwater, with Concentrations Exceeding Guidelines
 - (XX) Concentrations observed above surface water or groundwater guidelines
- Base Features**
 - Road
 - Bridge
 - Ditch
 - Watercourse
 - Contour (2 m)

NOTES
All locations and area boundaries are approximate.
Base data source:
Data provided by INAC (2013).
Drone imagery at the borrow pit, tailings ponds, and interceptor ditch collected in 2018.

STATUS
ISSUED FOR USE

CANTUNG MINE
CONCEPTUAL SITE MODEL

Site Model
Source, Pathway, Receptors –
Southeast Area, New Landfill

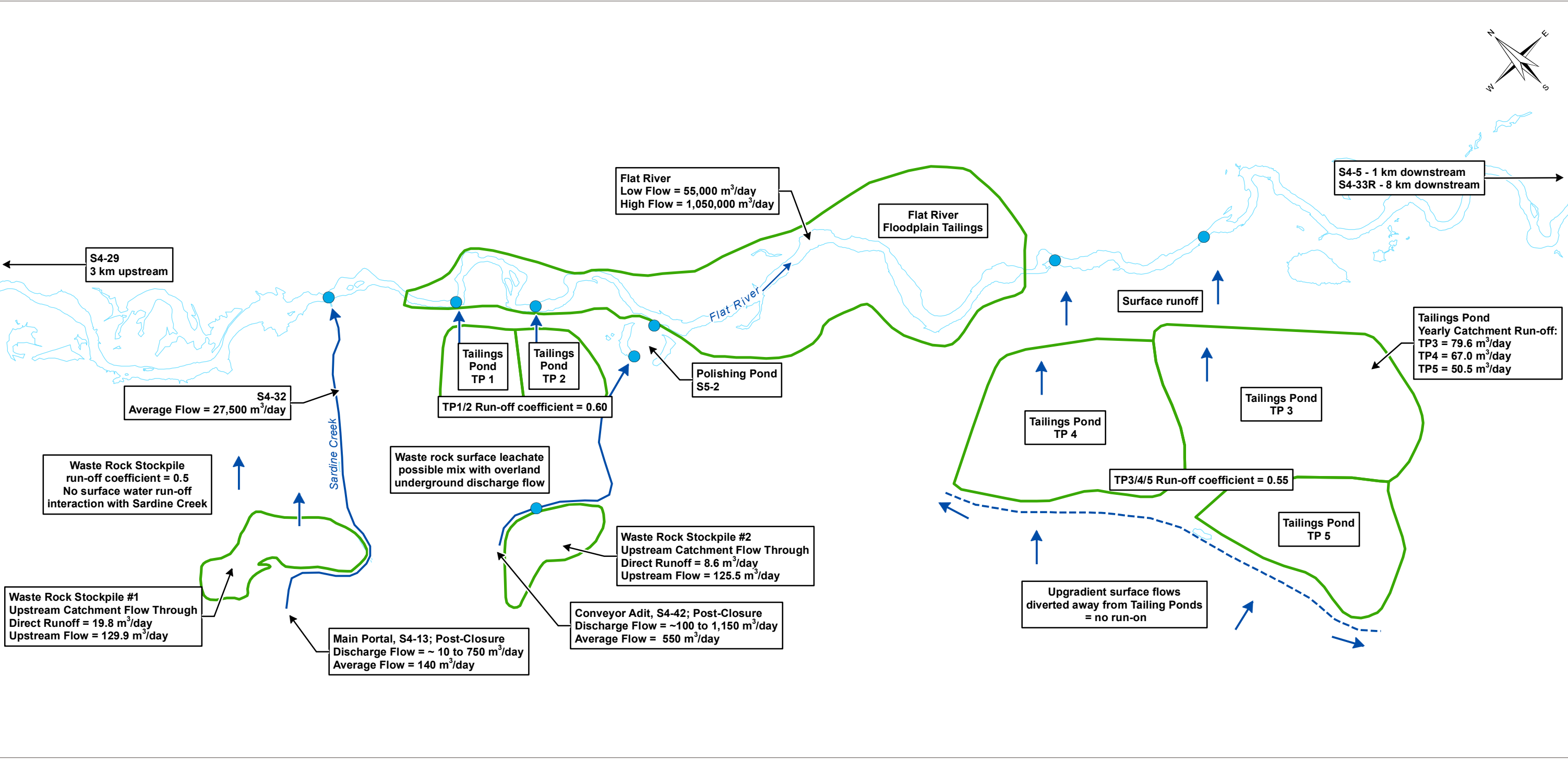
PROJECTION UTM Zone 9	DATUM NAD83	CLIENT
Scale: 1:2,500 50 25 0 50 Metres		

FILE NO. WENW03039-03_Fig11-5_SiteModel_SEArea.mxd	CLIENT
OFFICE TL-VANC	
DATE May 2021	

DWN SL	CKD BB	APVD SK	REV 0
PROJECT NO. ENW.WENW03039-03			

Figure 11-5

Q:\Vancouver\GIS\ENVIRONMENTAL\WENW03039-03\Maps\Geochem_CSM\WENW03039-03_Fig11-6_SWFlows.mxd modified 4/14/2021 by stephanie.leusink



LEGEND

- Mixing Zone
- Surface Water Flow Direction
- Watercourse
- Primary Source Area

NOTES
Base data source:
Data provided by INAC (2013).

CANTUNG MINE
CONCEPTUAL SITE MODEL

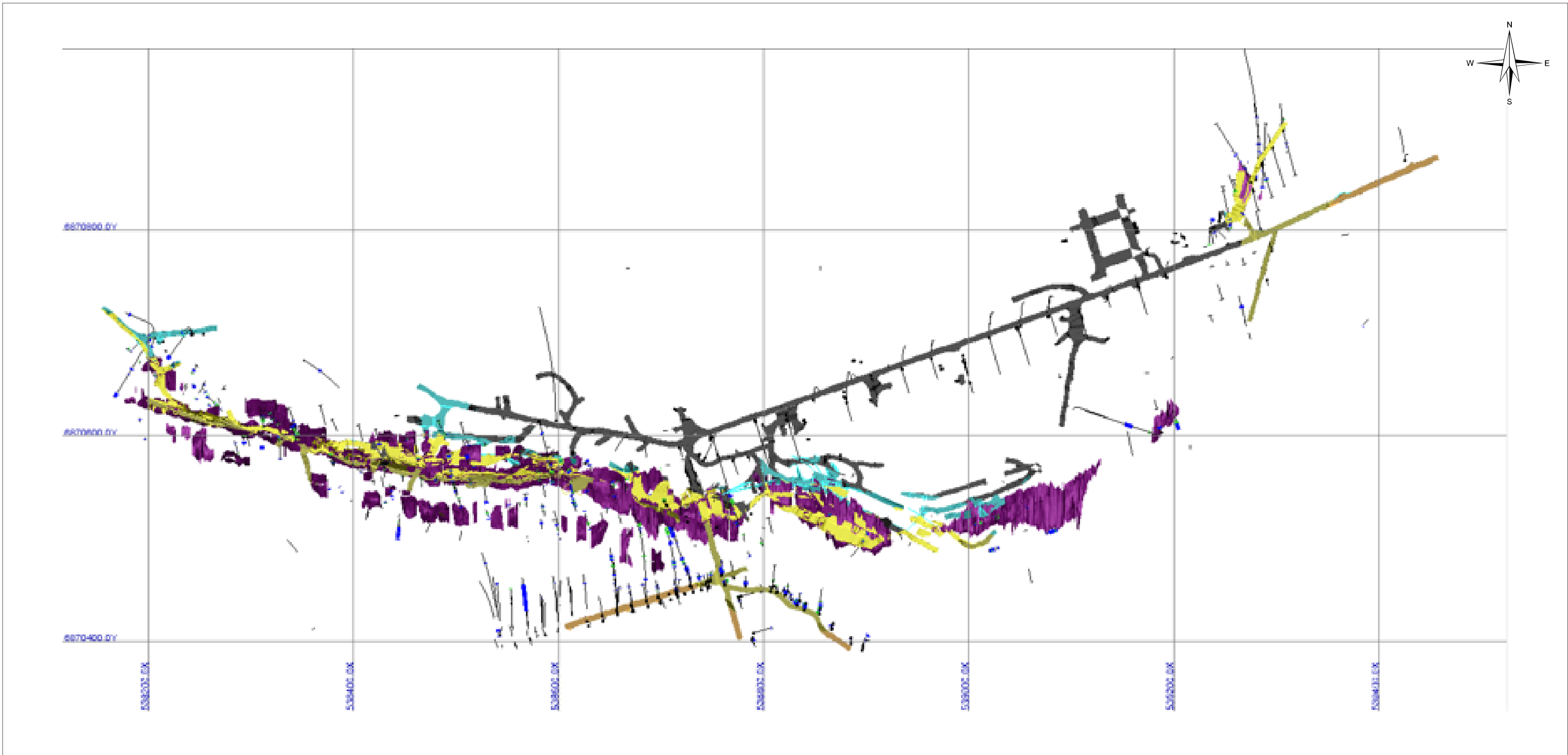
Existing Conditions Conceptual Model
for Primary Source Areas

PROJECTION UTM Zone 9		DATUM NAD83		CLIENT  NORTH AMERICAN TUNGSTEN CORPORATION LTD	
Scale: 1:6,000 100 50 0 100  Metres				 TETRA TECH	
FILE NO. WENW03039-03_Fig11-6_SWFlows.mxd					
OFFICE Tl-VANC	DWN SL	CKD YL	APVD SK	REV 0	Figure 11-6
DATE May 2021	PROJECT NO. ENW.WENW03039-03				

Figure 11-6

STATUS
ISSUED FOR USE

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LEGEND

- | | |
|---|--|
| ■ Ore Limestone | Drillholes |
| ■ Younger Argillite | ■ Sulphides |
| ■ Swiss Cheese Limestone | ■ Skarn |
| ■ Older Argillite | |
| ■ Granitic Rocks | |
| ■ Ore Zone | |

NOTES
10 m section thickness, showing 5 m above
and below the plane at 1204 m.

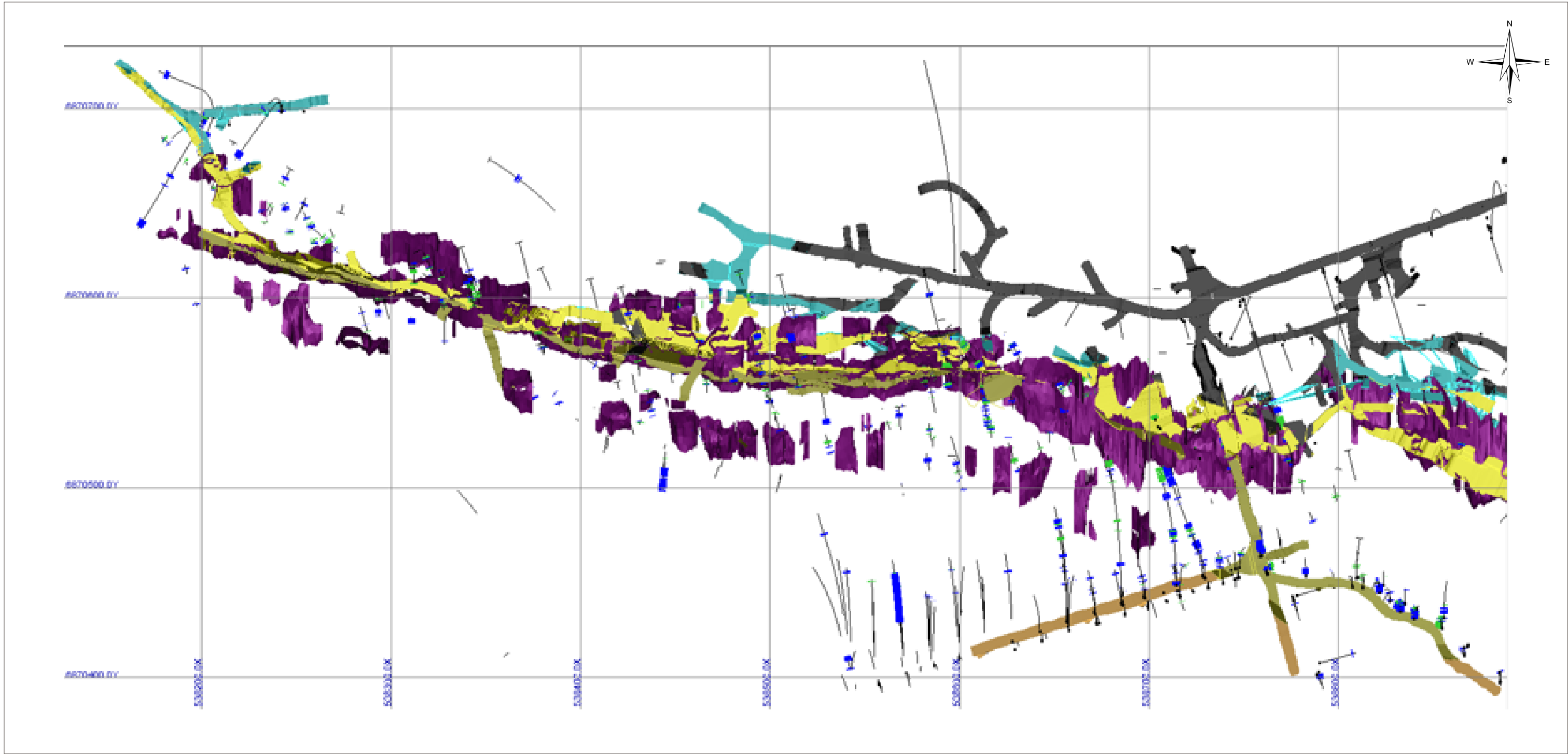
STATUS
ISSUED FOR USE

CANTUNG MINE
CONCEPTUAL SITE MODEL

Plan View of Underground
Workings at 1204 m Level

PROJECTION UTM Zone 9		DATUM NAD83		CLIENT  NORTH AMERICAN TUNGSTEN CORPORATION LTD	
Scale: 1:3,000 5025050  Metres					
FILE NO. WENW03039-03_Fig11-7_UG_1204m.mxd					
OFFICE Tl-VANC	DWN SL	CKD BB	APVD SK	REV 0	 TETRA TECH Figure 11-7
DATE May 2021	PROJECT NO. ENW.WENW03039-03				

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LEGEND

- | | |
|------------------------------------|-----------------------|
| <div></div> Ore Limestone | Drillholes |
| <div></div> Younger Argillite | <div></div> Sulphides |
| <div></div> Swiss Cheese Limestone | <div></div> Skarn |
| <div></div> Older Argillite | |
| <div></div> Granitic Rocks | |
| <div></div> Ore Zone | |

NOTES
10 m section thickness, showing 5 m above
and below the plane at 1204 m.

**CANTUNG MINE
CONCEPTUAL SITE MODEL**

**Plan View of Underground
Workings at 1204 m Level
Detail View of East**

PROJECTION
UTM Zone 9

DATUM
NAD83

CLIENT
 NORTH AMERICAN
TUNGSTEN
CORPORATION LTD.

Scale: 1:3,000
50 25 0 50
Metres

FILE NO.
WENW03039-03_Fig11-8_UG_1204mE.mxd

OFFICE Tl-VANC	DWN SL	CKD BB	APVD SK	REV 0
--------------------------	------------------	------------------	-------------------	-----------------

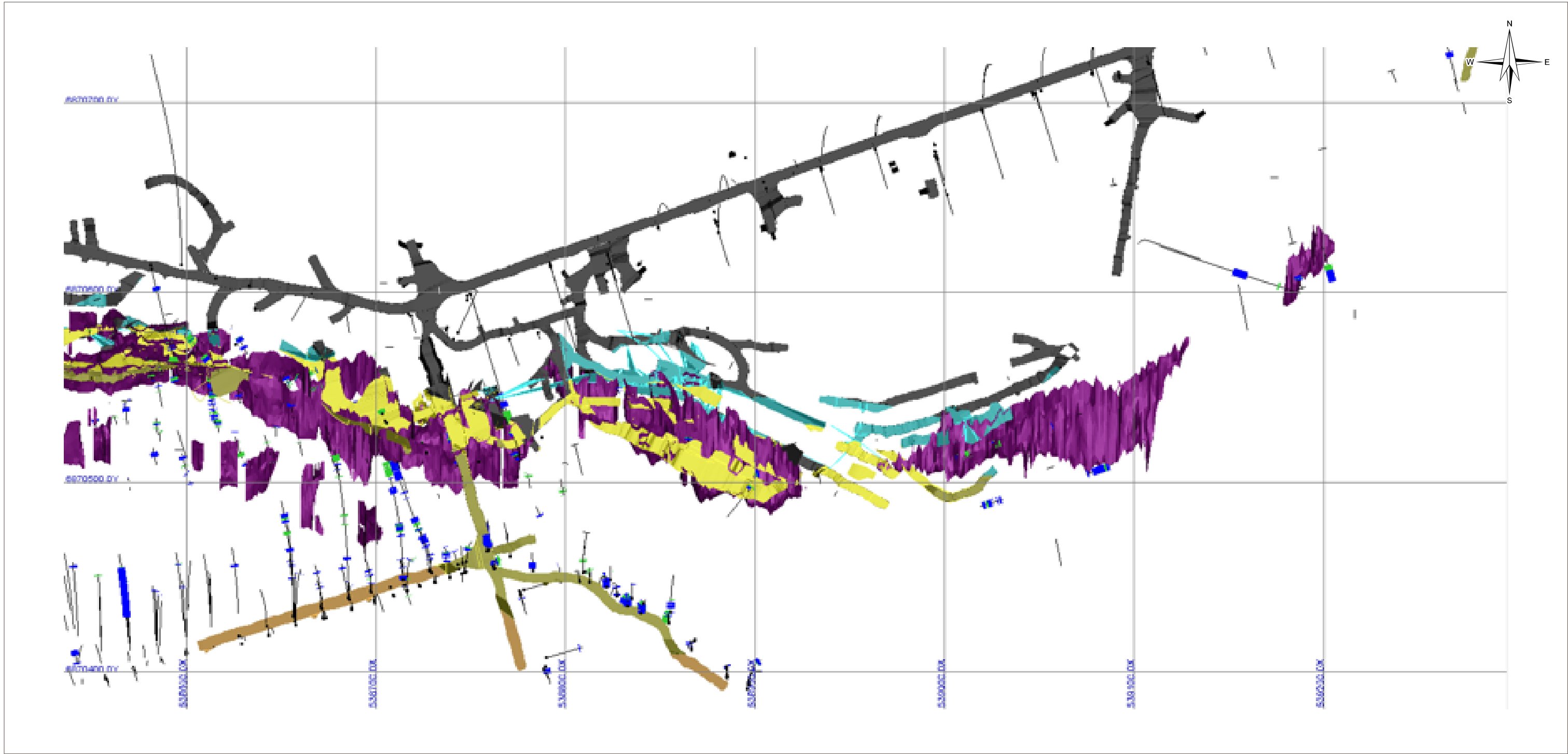
DATE May 2021	PROJECT NO. ENW.WENW03039-03
-------------------------	--

TETRA TECH

Figure 11-8

STATUS
ISSUED FOR USE

Q:\Vancouver\GIS\ENVIRONMENTAL\WEN\WENW03039-03\Maps\Geochem_CSM\WENW03039-03_Fig11-9_UG_1204mW.mxd modified 4/14/2021 by stephanie.leusink



LEGEND

- Ore Limestone

Younger Argillite

Swiss Cheese Limestone

Older Argillite

Granitic Rocks

Ore Zone
- Drillholes

Sulphides

Skarn

NOTES
10 m section thickness, showing 5 m above
and below the plane at 1204 m.

STATUS
ISSUED FOR USE

CANTUNG MINE
CONCEPTUAL SITE MODEL

Plan View of Underground
Workings at 1204 m Level
Detail View of West

PROJECTION	DATUM
UTM Zone 9	NAD83
Scale: 1:3,000	
50 25 0 50	
Metres	

FILE NO.
WENW03039-03_Fig11-9_UG_1204mW.mxd

OFFICE	DWN	CKD	APVD	REV
TL-VANC	SL	BB	SK	0

DATE	PROJECT NO.
May 2021	ENW.WENW03039-03



Figure 11-9