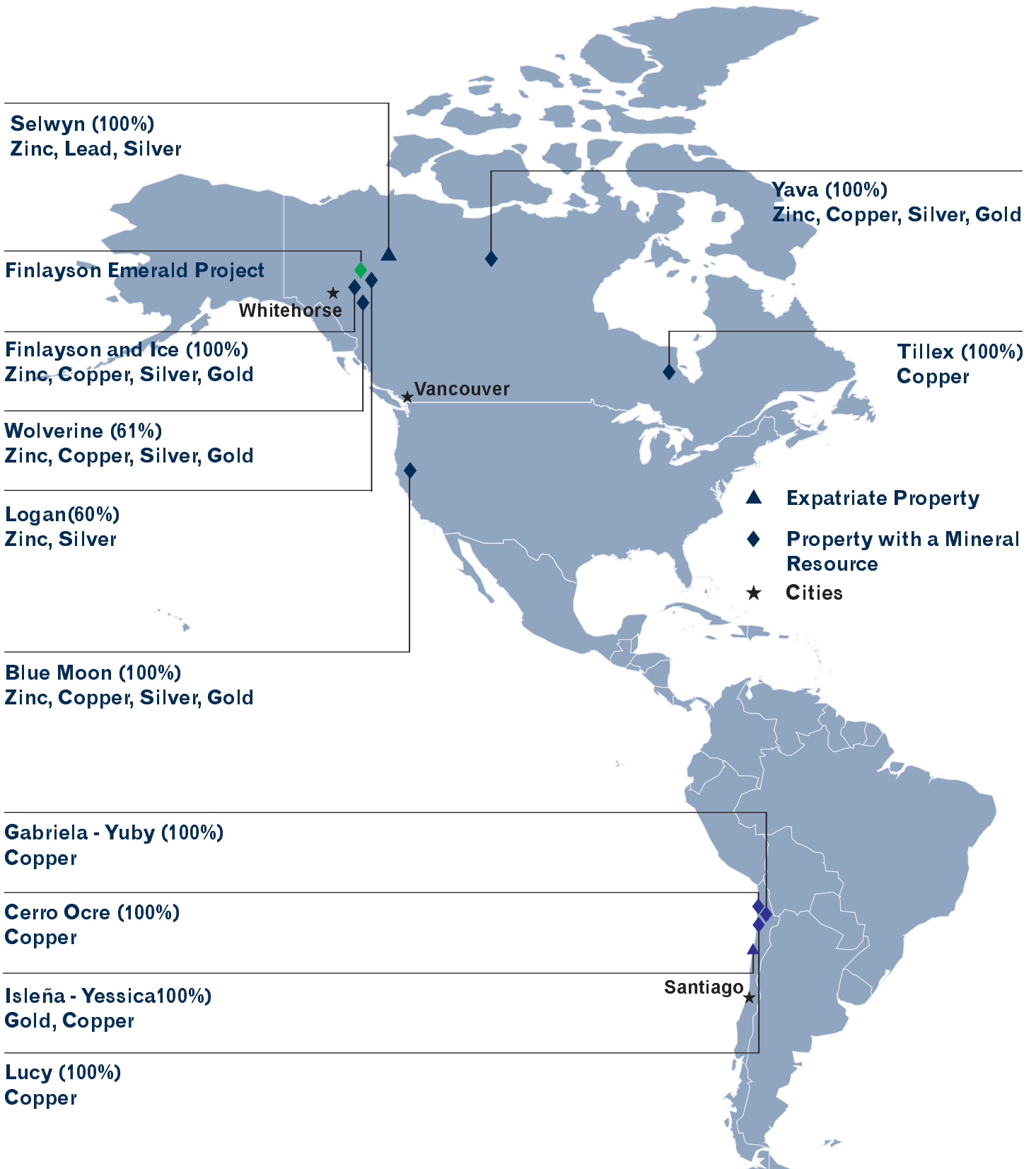
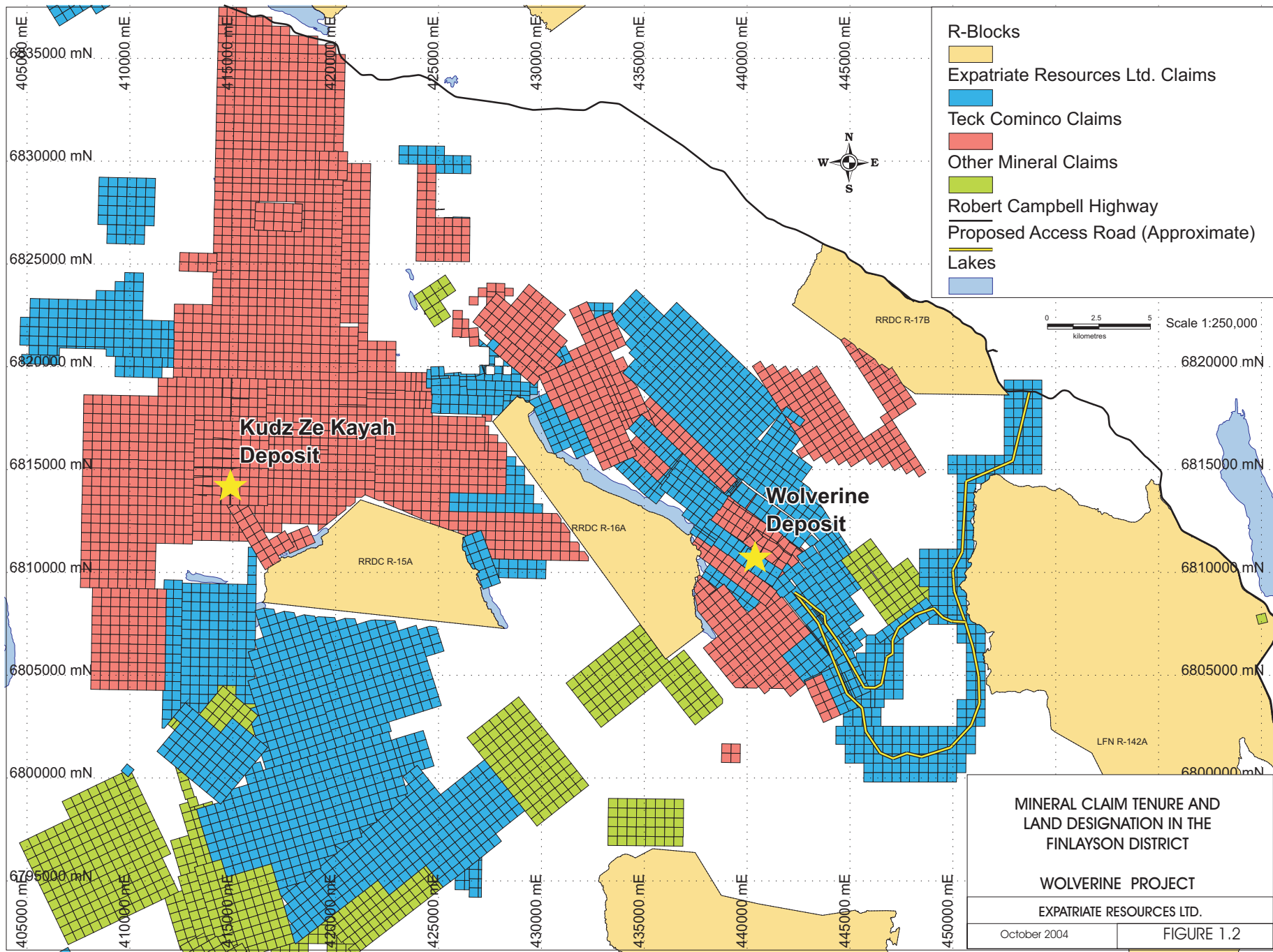


Figures

**EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT**

**Figure 1.1
Expatriate Resources' Mineral Properties**





MINERAL CLAIM TENURE AND
LAND DESIGNATION IN THE
FINLAYSON DISTRICT

WOLVERINE PROJECT

EXPATRIATE RESOURCES LTD.

October 2004

FIGURE 1.2

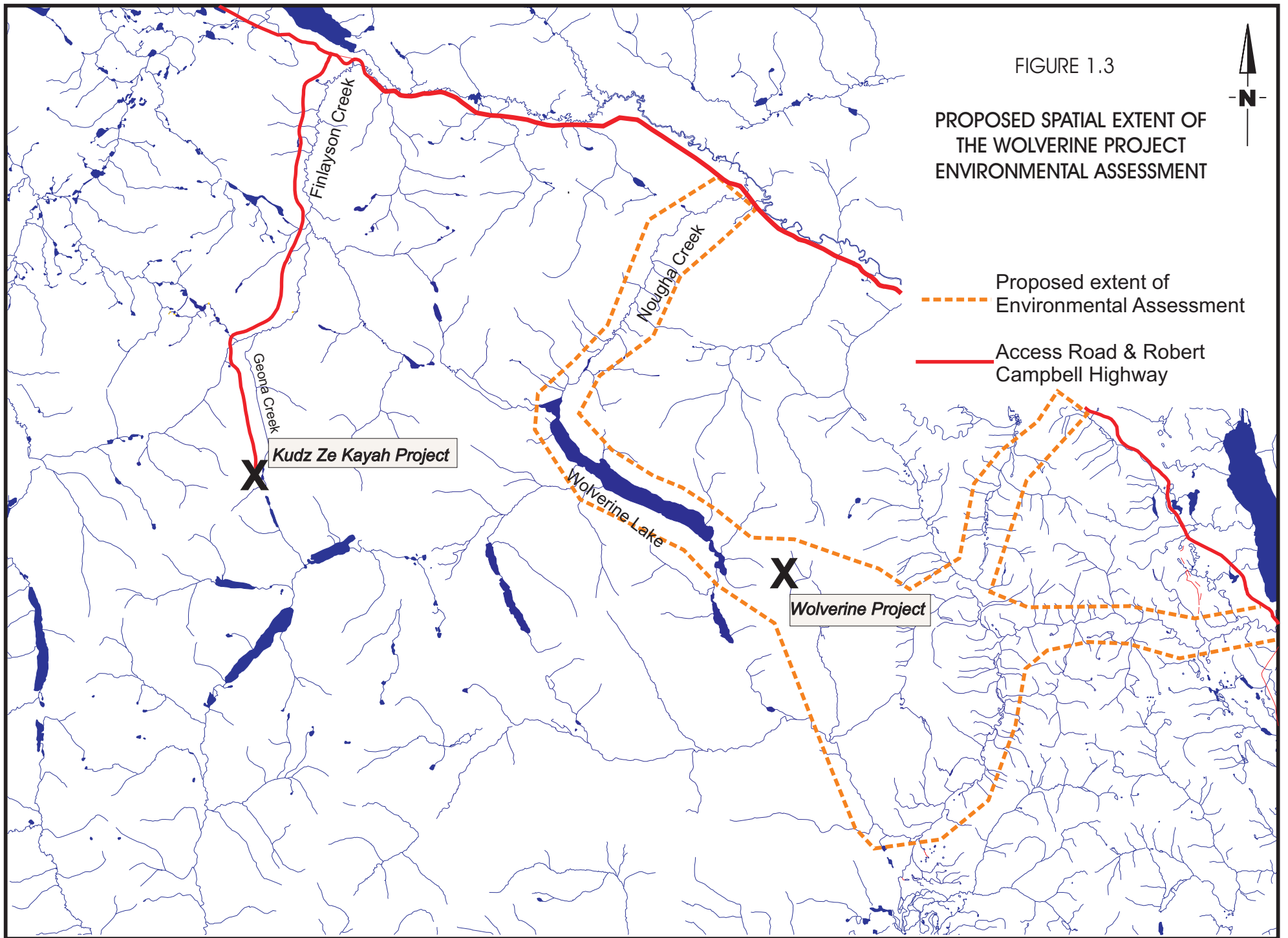


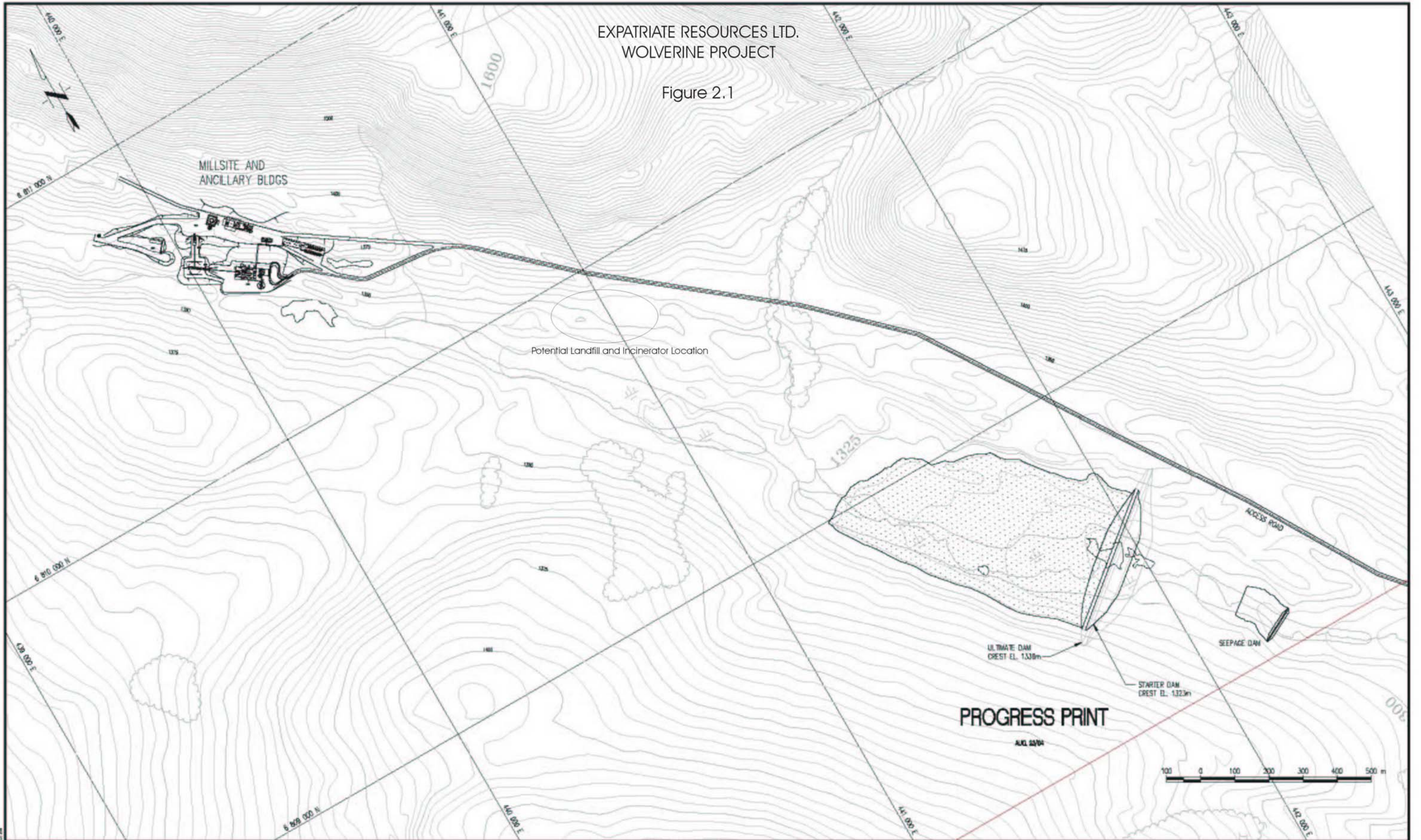
FIGURE 1.3

PROPOSED SPATIAL EXTENT OF
THE WOLVERINE PROJECT
ENVIRONMENTAL ASSESSMENT

- Proposed extent of Environmental Assessment
- Access Road & Robert Campbell Highway

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 2.1



EXPATRIATE RESOURCES LTD. 315476

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NO.	DESCRIPTION	BY	DATE
A	PROGRESS PRINT		

SECTION	CIVIL
SCALE	1:5000
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DESIGN BY	
DRAWN BY	D.L.N.
CHECK BY	
APP. BY	

CLIENT
Expatriate Resources

PROJECT NUMBER
WOLVERINE PROJECT

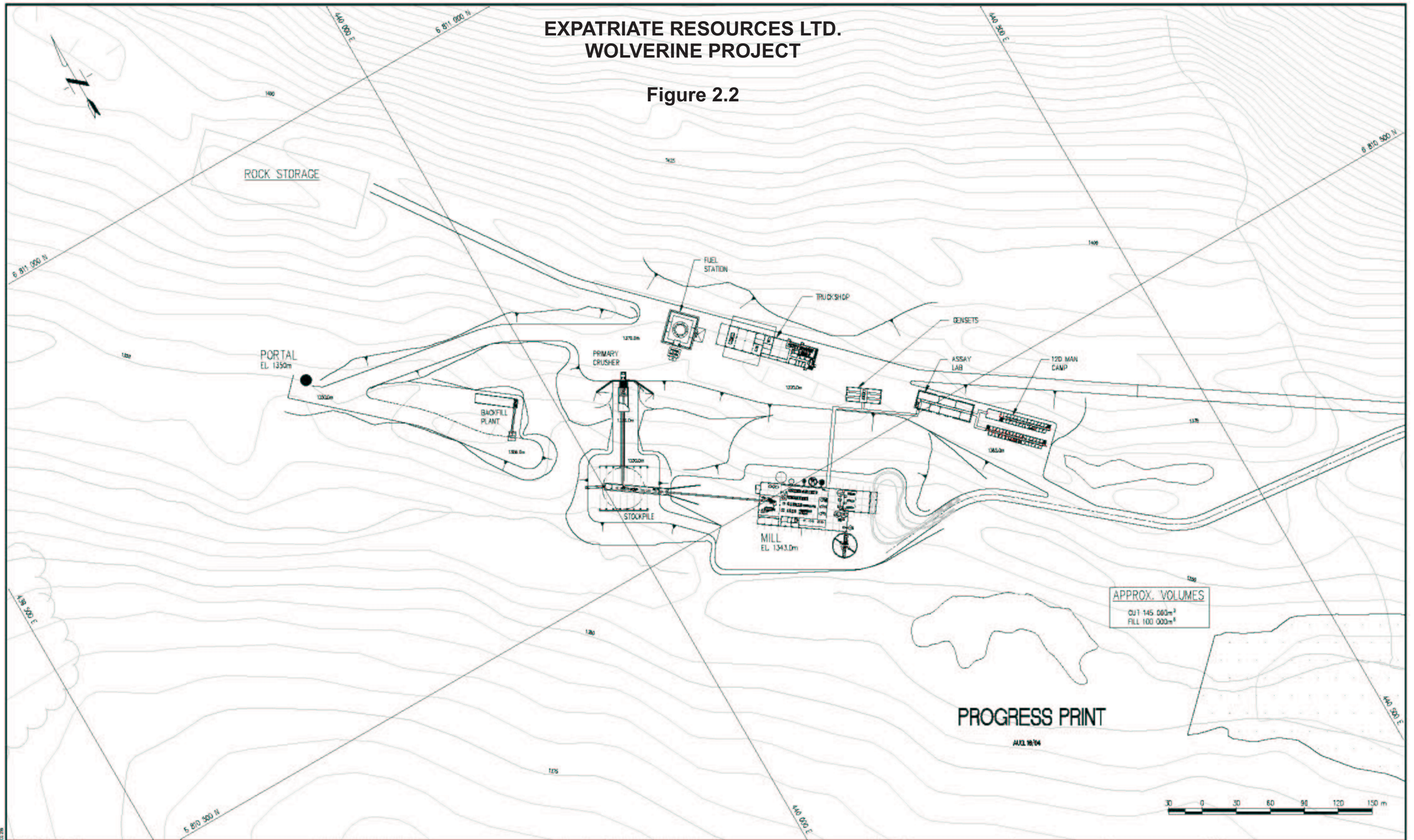
LOCATION
Yukon

HATCH

TITLE			
WOLVERINE PROJECT			
WOLVERINE MINE SITE			
MILLSITE AND TAILINGS DAM			
PLAN			
FILENAME	PROJECT NUMBER	DRAWING NUMBER	REV.
A00013.DWG	315476	A0-C-015	A

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 2.2



APPROX. VOLUMES
CUT 145 000m³
FILL 100 000m³

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AUG 18/04

15402016.DWG 2003/12/03 10:26

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DWG. NO.	REFERENCE DRAWINGS
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NO	DESCRIPTION	BY	DATE

NO	DESCRIPTION	BY	DATE
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DRAWN BY:	D.L.N.
CHECK BY:	
APP. BY:	

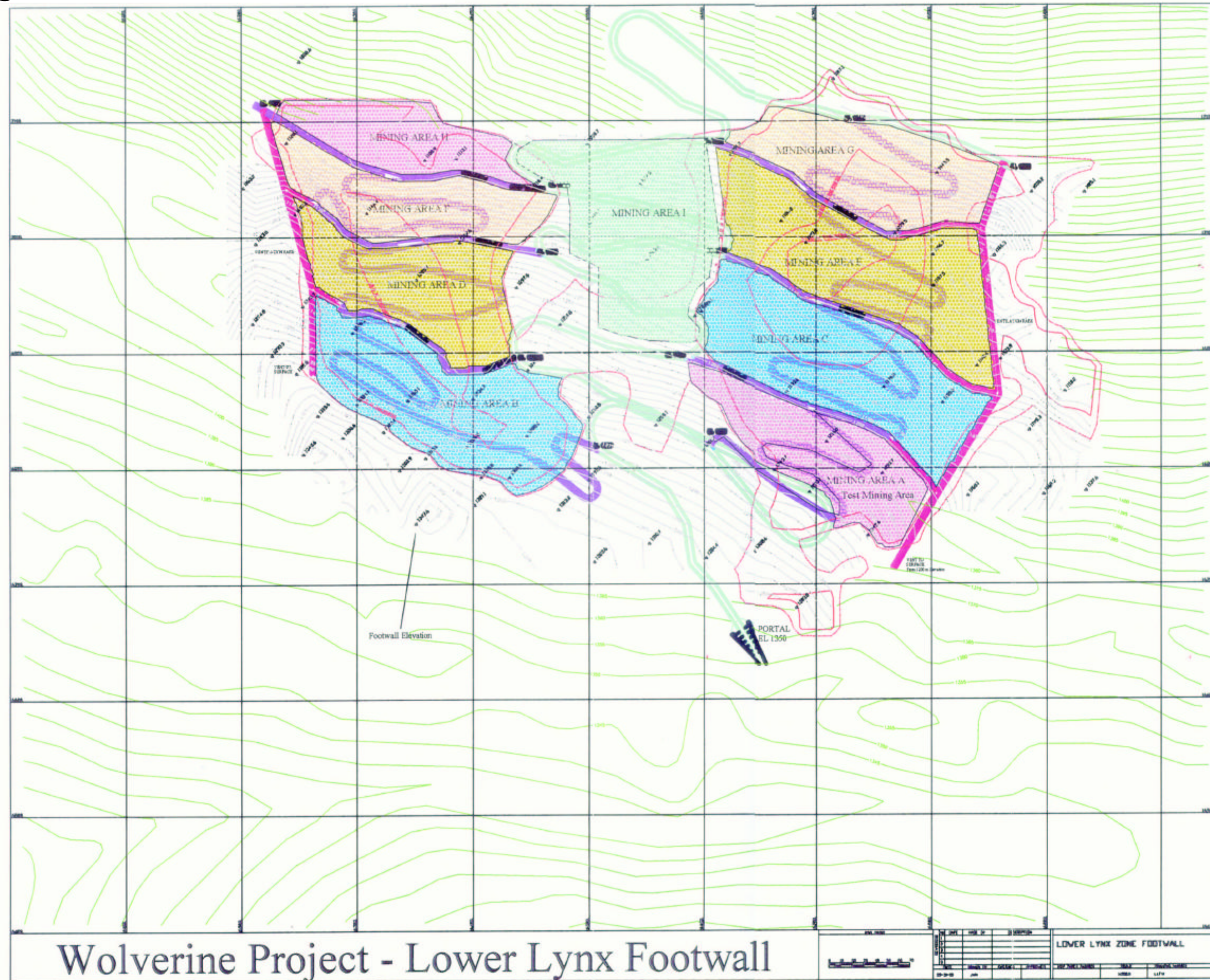
CLIENT
Expatriate Resources

WOLVERINE PROJECT Yukon

HATCH

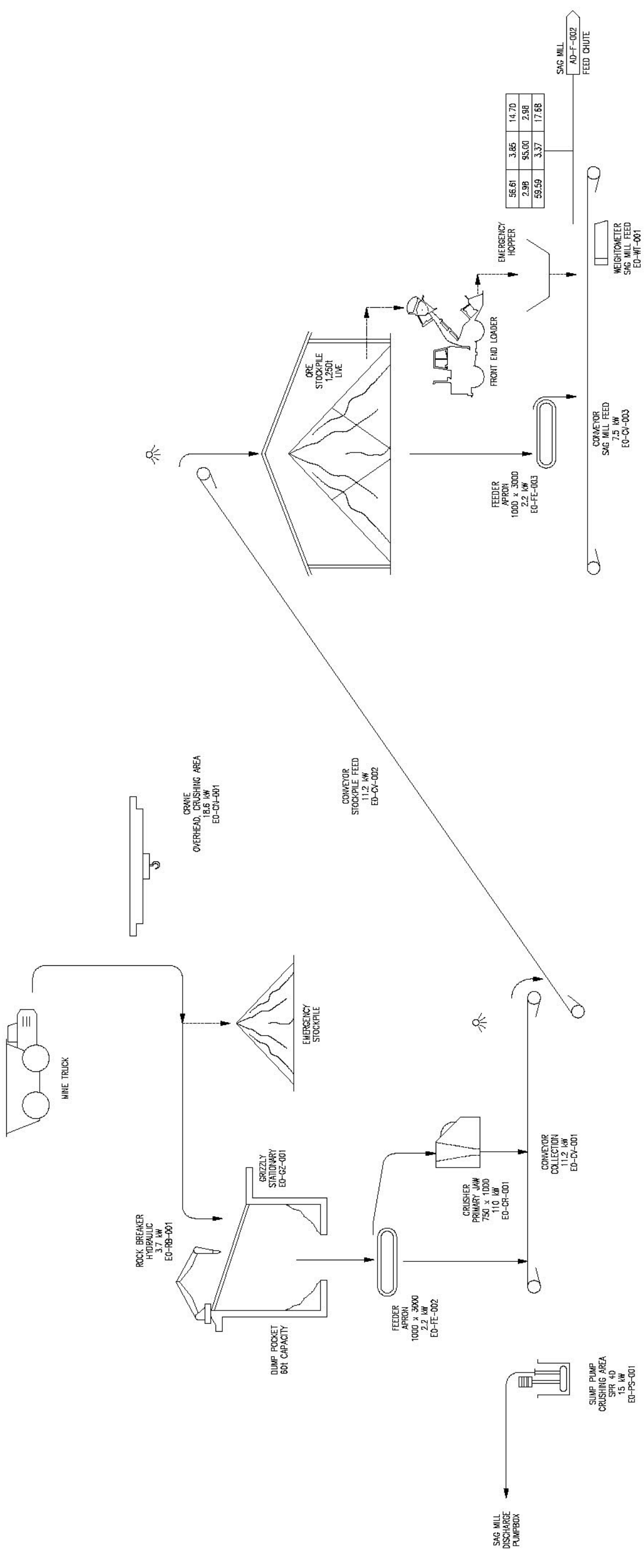
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TITLE	WOLVERINE MINE SITE MILL AND ANCILLARY BLDGS PLAN		
FILENAME:	PROJECT NUMBER	DRAWING NUMBER	REV.
A00216.DWG	315476	A0-C-016	A

Figure 2.3 Wolverine Mine Plan



EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 2.4a



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OCTOBER 28, 2004

LEGEND
 1/HR solids G. solids/HR solids
 1/HR water % solids/HR water
 1/HR pulp % G. pulp/HR pulp

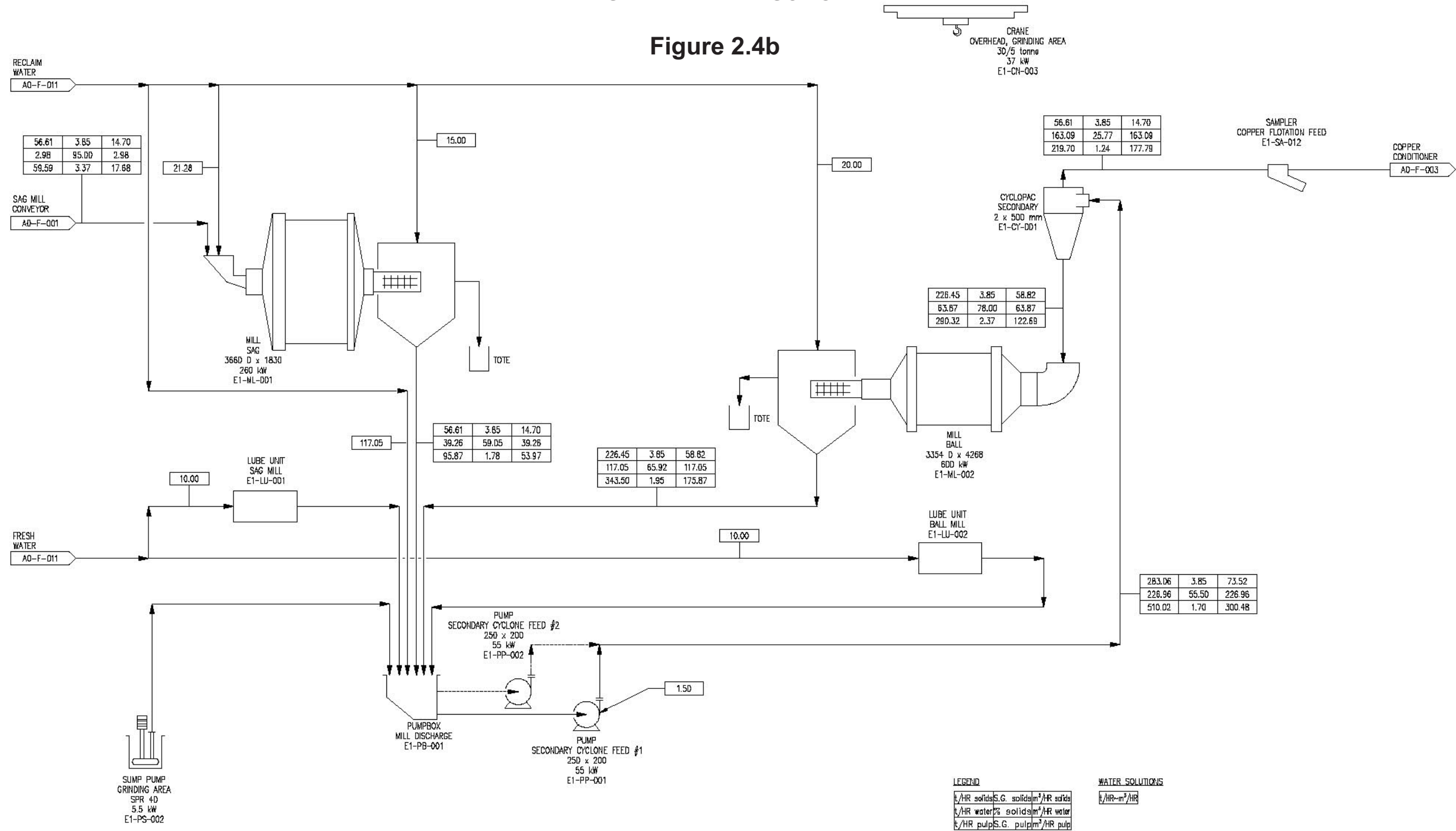
WATER SOLUTIONS
 1/HR m³/HR

EXPATRIATE RESOURCES LTD.		WOLVERINE PROJECT		YUKON	
TITLE		CRUSHING AND RECLAIM FLOWSHEET No. 1		PROJECT NUMBER 317142	
DRAWN BY: KPM		CHECKED BY:		DRAWING NUMBER AO-F-001	
DESIGN BY: H.T.		DATE: JULY/04		REV.:	
SCALE: NONE		DATE: JULY/04		DRAWING NUMBER AO-F-001	
SECTOR: GENERAL		DATE: JULY/04		REV.:	
PROJECT		DESCRIPTION		DRAWING NUMBER AO-F-001	
PROCESS		ISSUE/REVISIONS		REV.:	
CIVIL		BY: DATE		DRAWING NUMBER AO-F-001	
MECH		ISSUE/REVISIONS		REV.:	
STRUCT.		BY: DATE		DRAWING NUMBER AO-F-001	
PENG.		ISSUE/REVISIONS		REV.:	
SCALES		BY: DATE		DRAWING NUMBER AO-F-001	
ELECT.		ISSUE/REVISIONS		REV.:	
MSTR.		BY: DATE		DRAWING NUMBER AO-F-001	

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EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 2.4b



LEGEND
 t/HR solids S.G. solids m³/HR solids
 t/HR water % solids m³/HR water
 t/HR pulp S.G. pulp m³/HR pulp

WATER SOLUTIONS
 t/HR-m³/HR

PROGRESS PRINT
OCTOBER 28, 2004

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DWG. NO.	REFERENCE DRAWINGS	PROJECT	PROCESS	CHIL	MEDIA	STRUCT.	PIPE	SERVICES	ELECT.	META.	NO.	DESCRIPTION	BY	DATE
												ISSUE/REVISIONS		

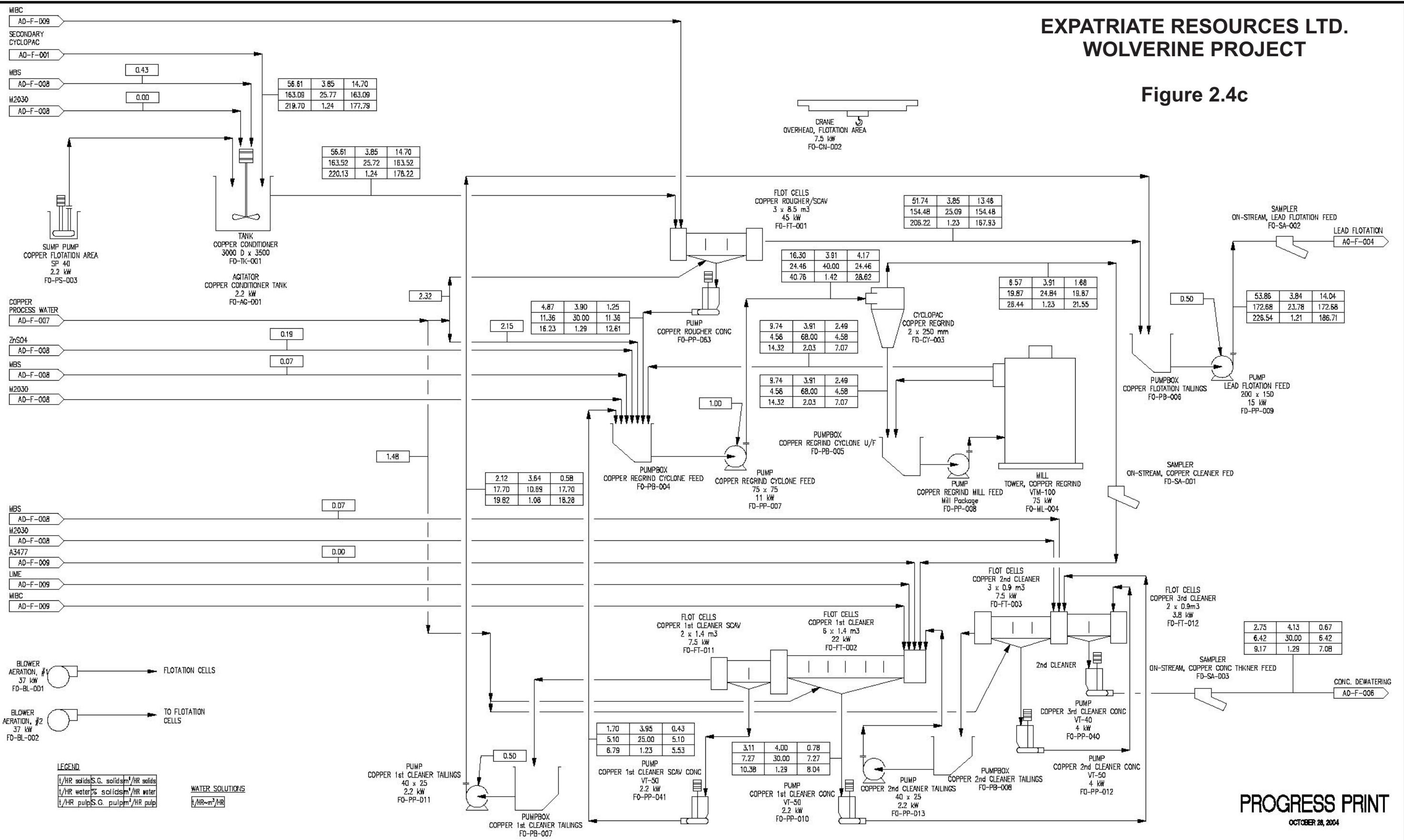
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DESIGN BY:	HT
DATE:	JULY/04
DRAWN BY:	KPM
DATE:	JULY/04
CHECK BY:	
APP. BY:	

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT
 YUKON
HATCH

TITLE		WOLVERINE PROJECT	
GRINDING FLOWSHEET No. 2			
FILENAME:	PROJECT NUMBER	DRAWING NUMBER	REV.
A0F002.DWG	317142	A0-F-002	/

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 2.4c

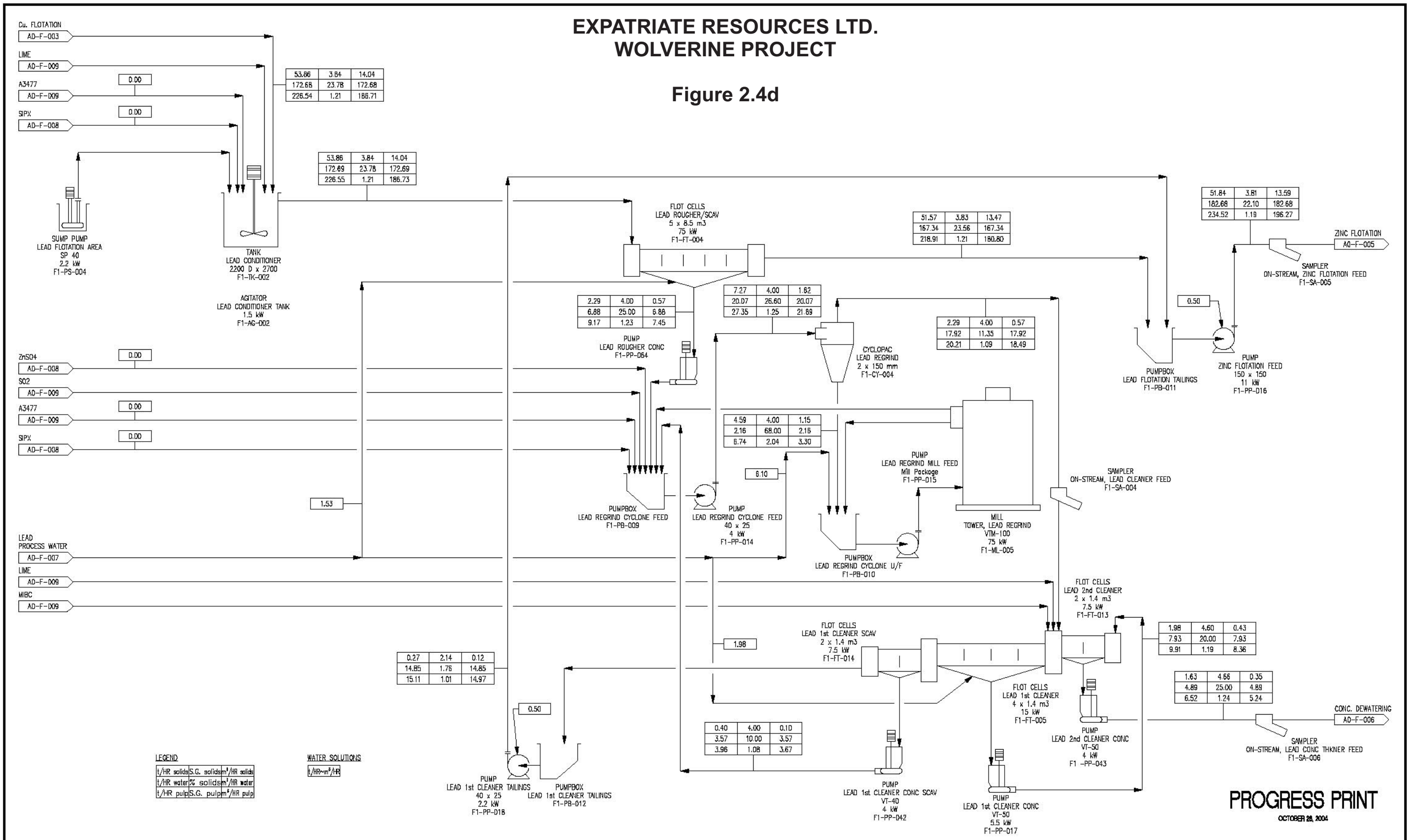


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OCTOBER 28, 2004

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DWG. NO.										REFERENCE DRAWINGS										SCALE: NONE			DATE: JULY/04			WOLVERINE PROJECT			YUKON																				
PROJECT										PROCESS										DESIGN BY: HT			DRAWN BY: KPM			CHECK BY:			APP. BY:			FILENAME: ADF003.DWG			PROJECT NUMBER: 317142			DRAWING NUMBER: AO-F-003			REV.:								
NO										DESCRIPTION										BY			DATE			NO			DESCRIPTION			BY			DATE			NO			DESCRIPTION			BY			DATE		
PROJECT										PROCESS										NO			DESCRIPTION			BY			DATE			NO			DESCRIPTION			BY			DATE								

EXPATRIATE RESOURCES LTD. WOLVERINE PROJECT

Figure 2.4d

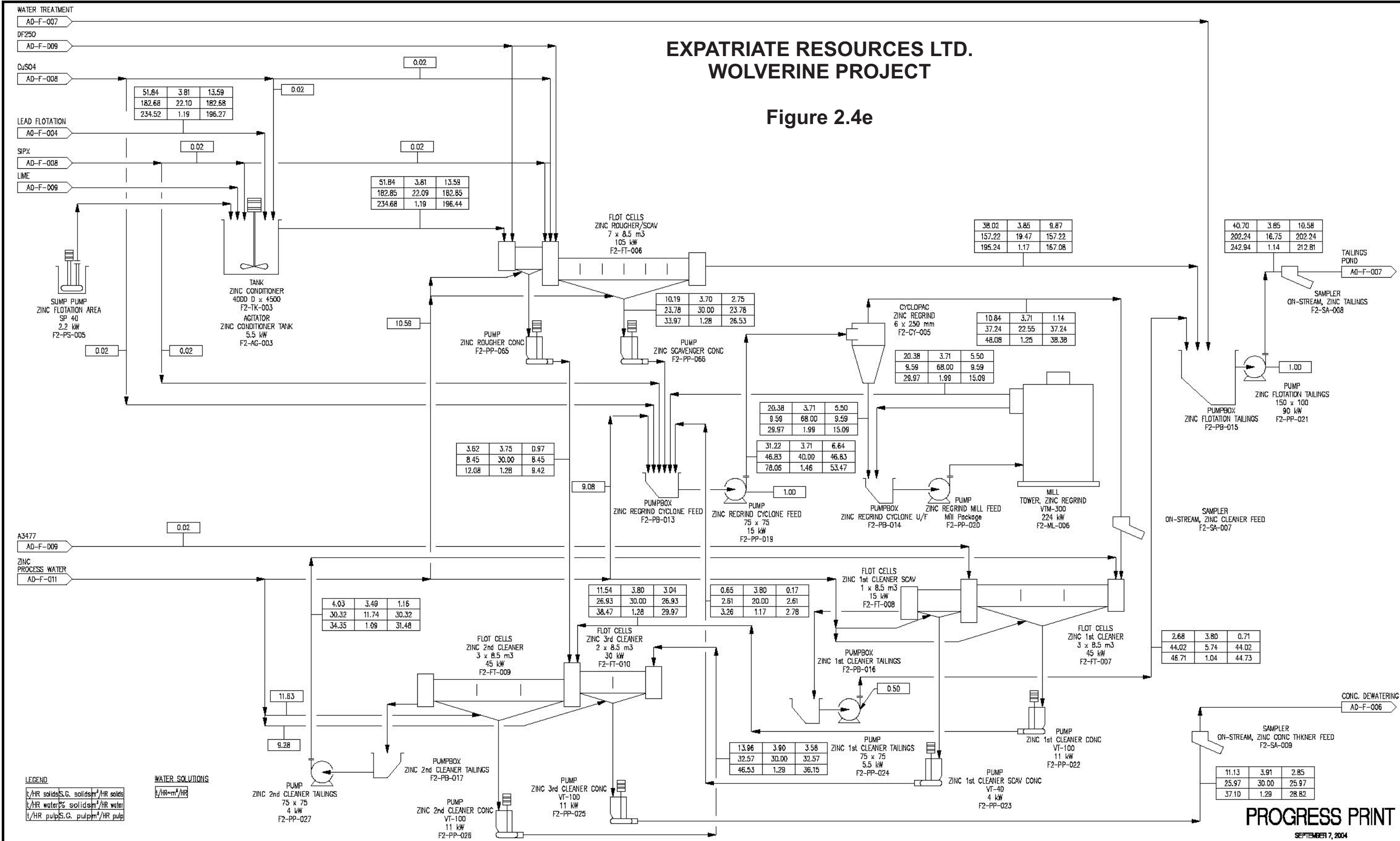


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OCTOBER 28, 2004

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PROJECT	PROCESS	CIL	MEX.	STRUCT.	PERM.	SURV.	ELECT.	INST.	NO.	DESCRIPTION	BY	DATE																																																																																																													
PROJECT	PROCESS	CIL	MEX.	STRUCT.	PERM.	SURV.	ELECT.	INST.	NO.	DESCRIPTION	BY	DATE																																																																																																													

EXPATRIATE RESOURCES LTD. WOLVERINE PROJECT

Figure 2.4e



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CHECK BY:			
APP. BY:			

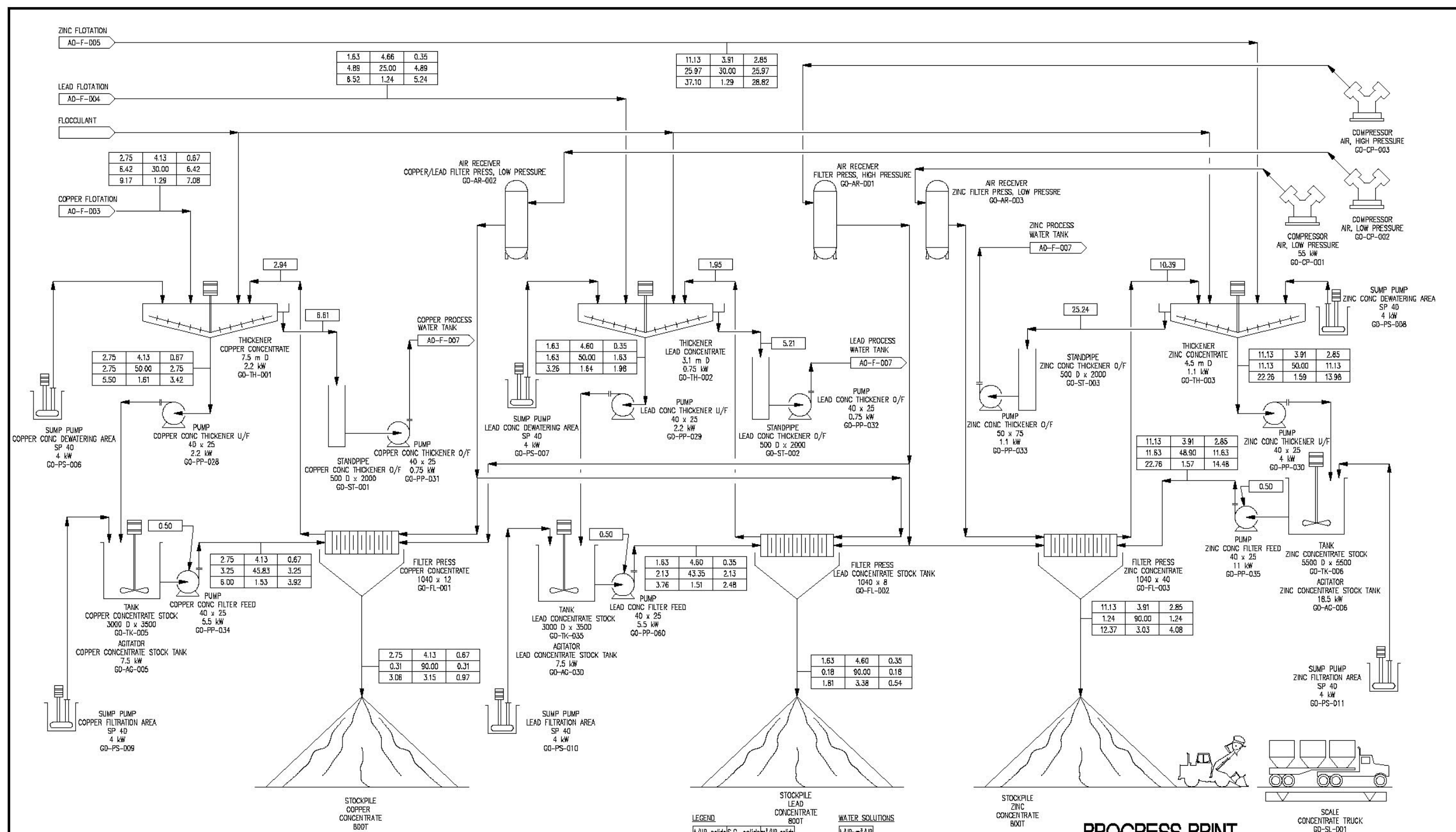
EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT
YUKON

HATCH

TITLE WOLVERINE PROJECT ZINC FLOTATION AND REGRIND FLOWSHEET No. 5			
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A0F005.DWG	317142	A0-F-005	1

EXPATRIATE RESOURCES LTD. WOLVERINE PROJECT

Figure 2.4f



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SCALE
CONCENTRATE TRUCK
GO-SL-001

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DWG. NO.	REFERENCE DRAWINGS	NO.	DESCRIPTION	BY	DATE

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 CHECK. BY:
 APP. BY:

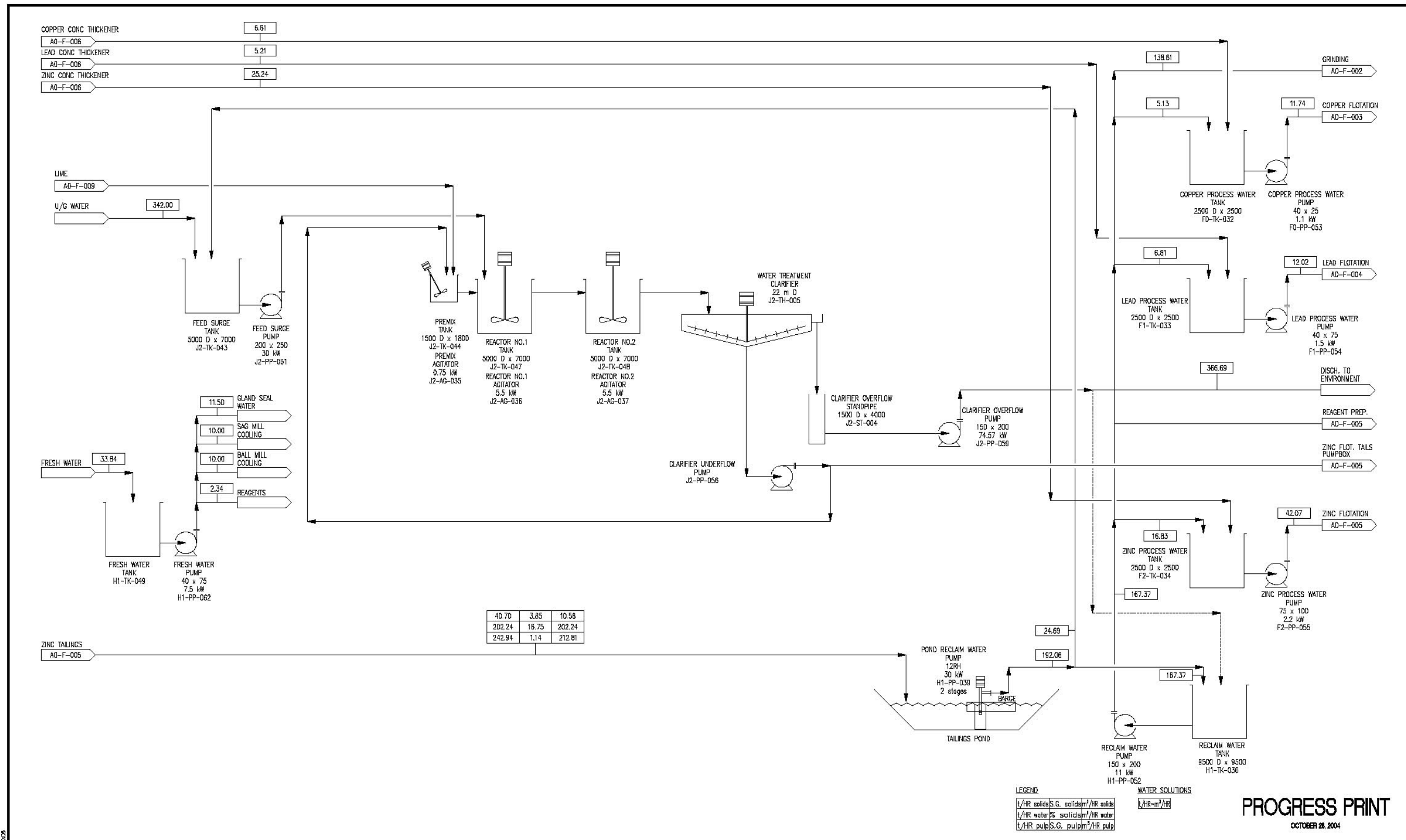
EXPATRIATE RESOURCES LTD.
 WOLVERINE PROJECT YUKON
HATCH

TITLE: **WOLVERINE PROJECT**
CONCENTRATE DEWATERING FLOWSHEET No. 6

FILENAME:	PROJECT NUMBER	DRAWING NUMBER	REV.
A0F006.DWG	317142	AD-F-006	/

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 2.4g



LEGEND
 t/HR solids S.G. solids/m³/HR solids
 t/HR water % solids/m³/HR water
 t/HR pulp S.G. pulp/m³/HR pulp

WATER SOLUTIONS
 L/HR-m³/HR

PROGRESS PRINT
 OCTOBER 28, 2004

3174810100 2004/10/21 10:08

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DWG. NO.	REFERENCE DRAWINGS	PROJECT	PROCESS	CIVIL	MECH.	STRUC.	PIPE	SERVICES	ELECT.	INSTR.	NO	DESCRIPTION	BY	DATE
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												ISSUE/REVISIONS		

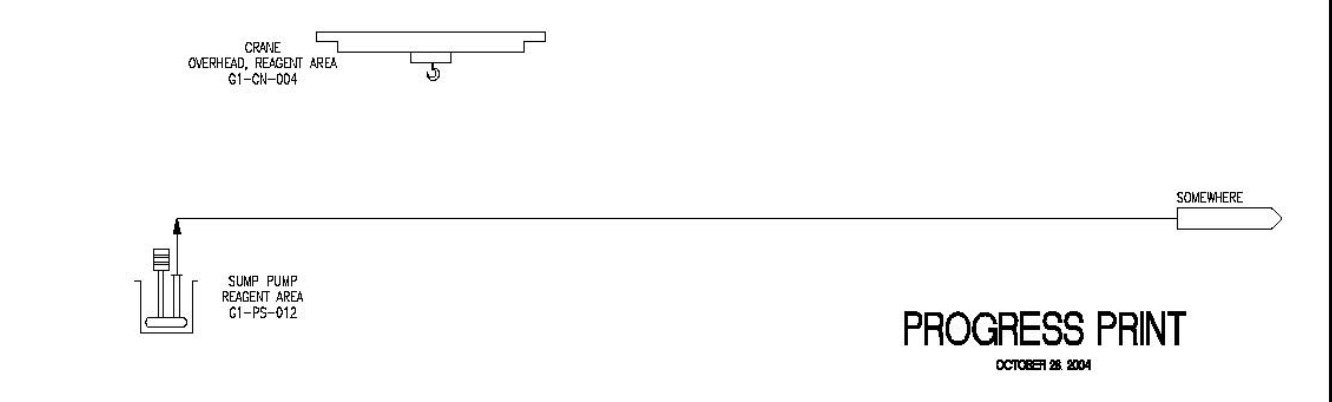
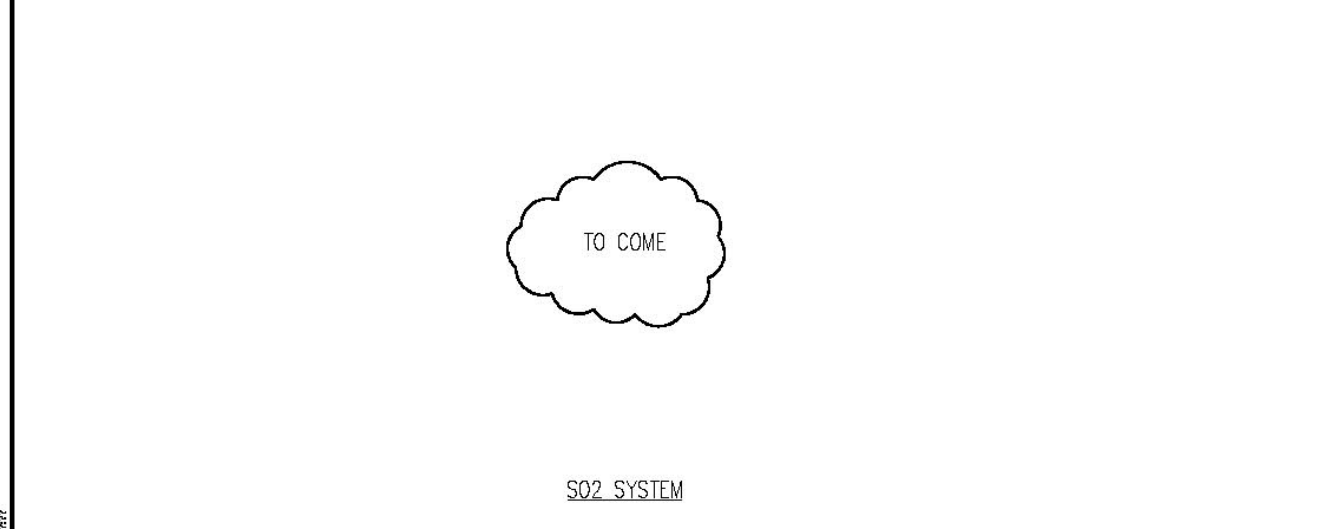
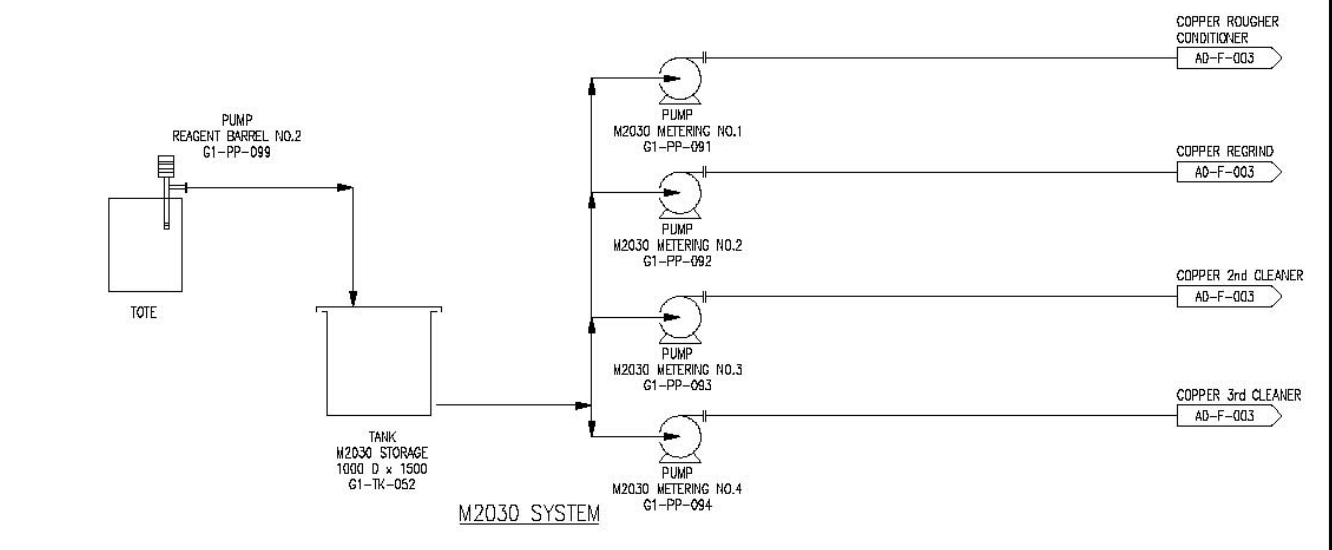
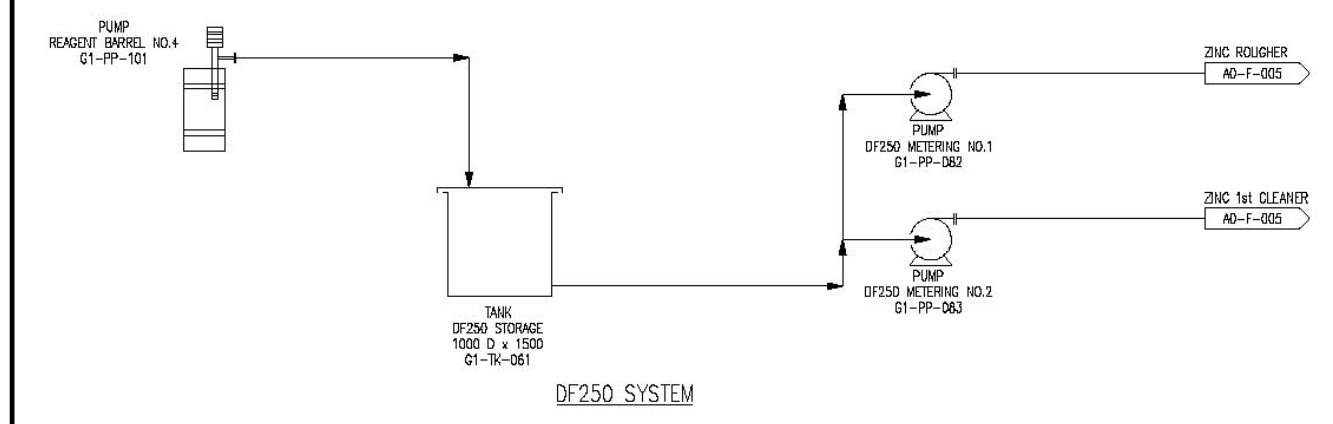
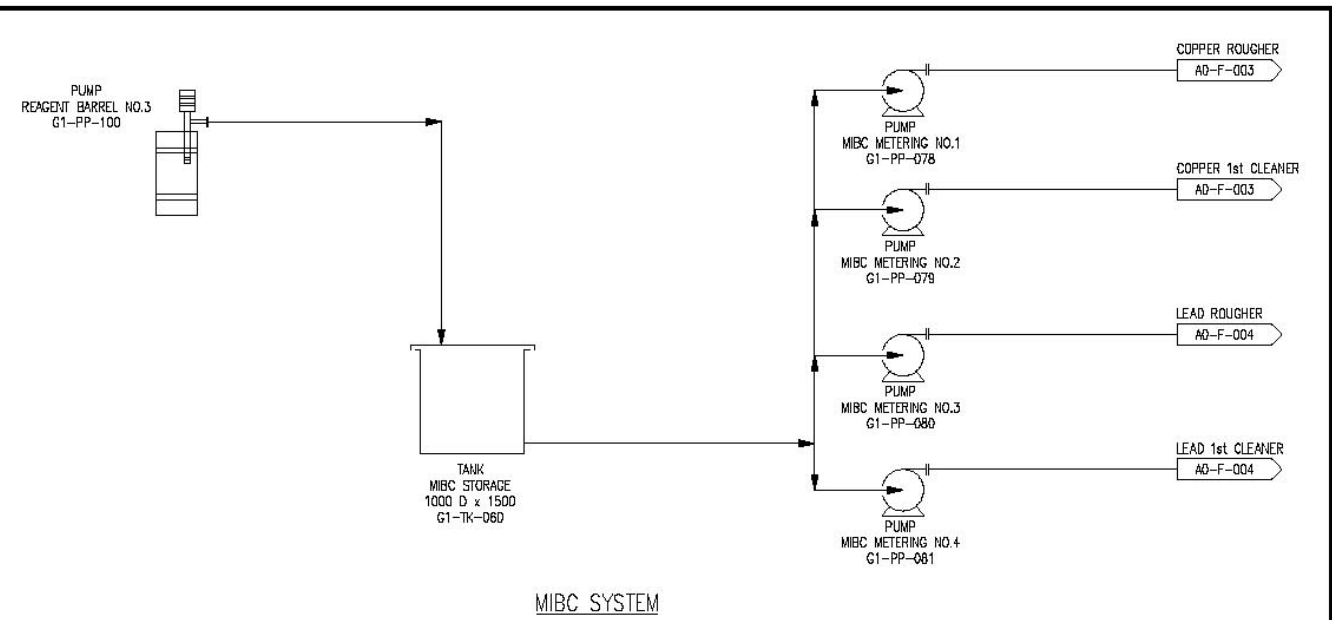
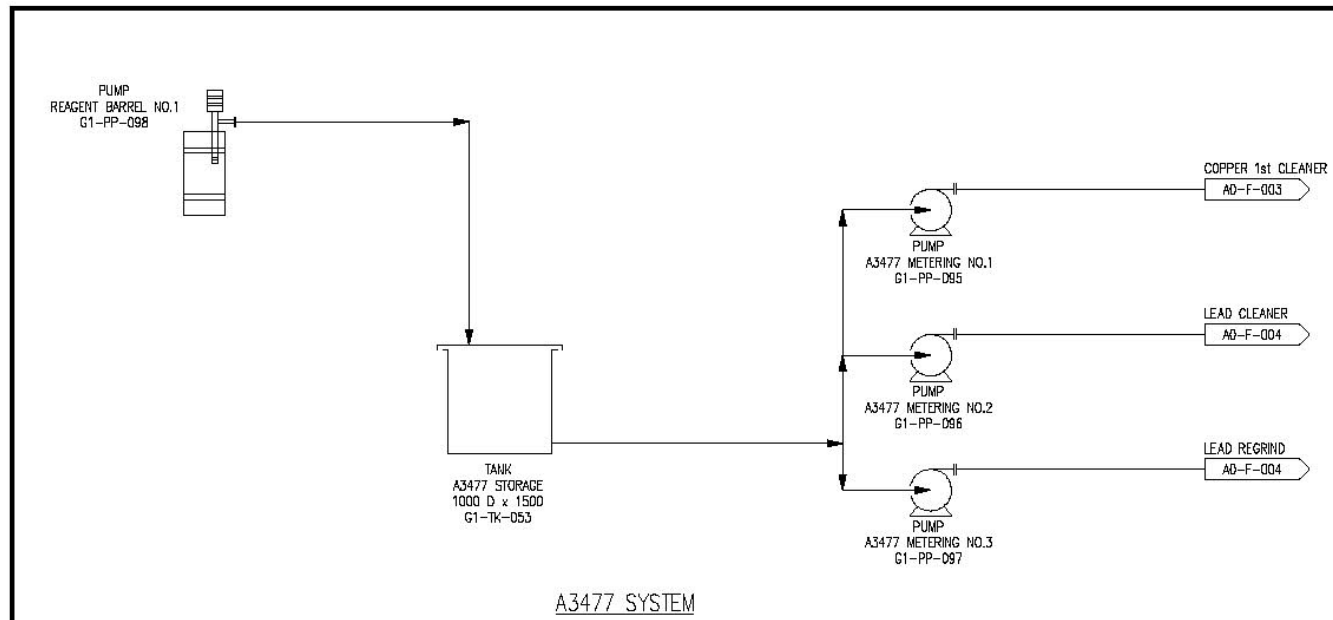
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 DESIGN BY: HT JULY/04
 DRAWN BY: KPM JULY/04
 CHECK BY:
 APP. BY:

EXPATRIATE RESOURCES LTD.
 WOLVERINE PROJECT YUKON
HATCH

TITLE: WOLVERINE PROJECT
 TAILINGS HANDLING & WATER TREATMENT FLOWSHEET No. 7
 FILENAME: AOF007.DWG PROJECT NUMBER: 317142 DRAWING NUMBER: A0-F-007 REV.:

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WOLVERINE PROJECT

Figure 2.4i



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OCTOBER 28 2004

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DWG. NO.	REFERENCE DRAWINGS	NO	DESCRIPTION	BY	DATE	NO	DESCRIPTION	BY	DATE
			ISSUE/REVISIONS				ISSUE/REVISIONS		

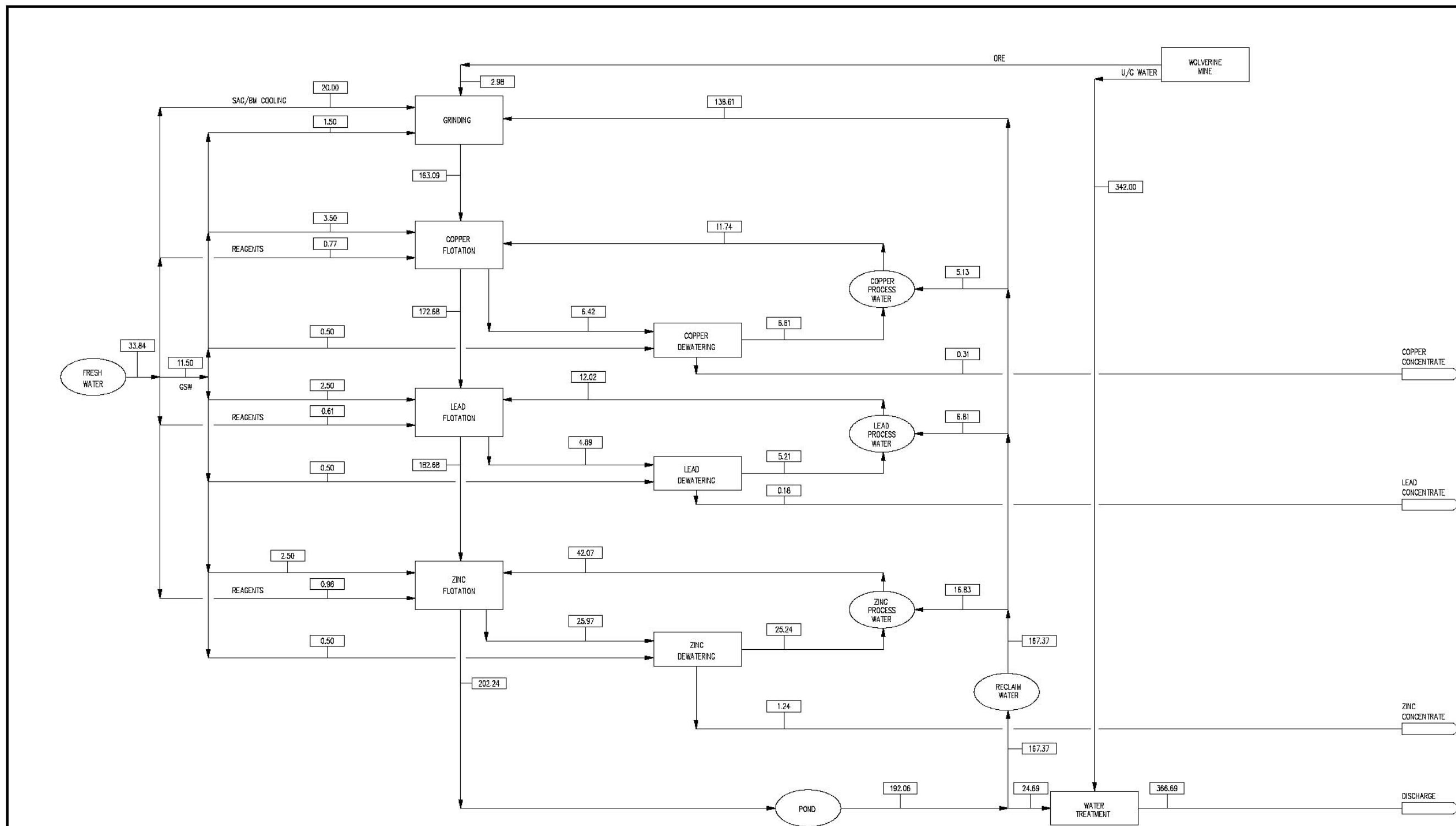
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DATE:	AUG/04
DESIGN BY:	HT
DATE:	AUG/04
DRAWN BY:	KPM
CHECK BY:	---
APP. BY:	---

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT YUKON
HATCH

TITLE: WOLVERINE PROJECT			
REAGENT SYSTEMS			
FLOWSHEET No. 9			
SHEET 2 OF 2			
FILENAME:	PROJECT NUMBER	DRAWING NUMBER	REV.
ADF009.DWG	317142	A0-F-009	/

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 2.4j



PROGRESS PRINT WATER SOLUTIONS
OCTOBER 28, 2004 1/HR-m³/HR

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DWG. NO.	REFERENCE DRAWINGS	PROJECT	PROCESS	CHL.	MED.	STRUCT.	PIPE	SEPAR.	ELECT.	INSTR.	NO	DESCRIPTION	BY	DATE
												ISSUE/REVISIONS		

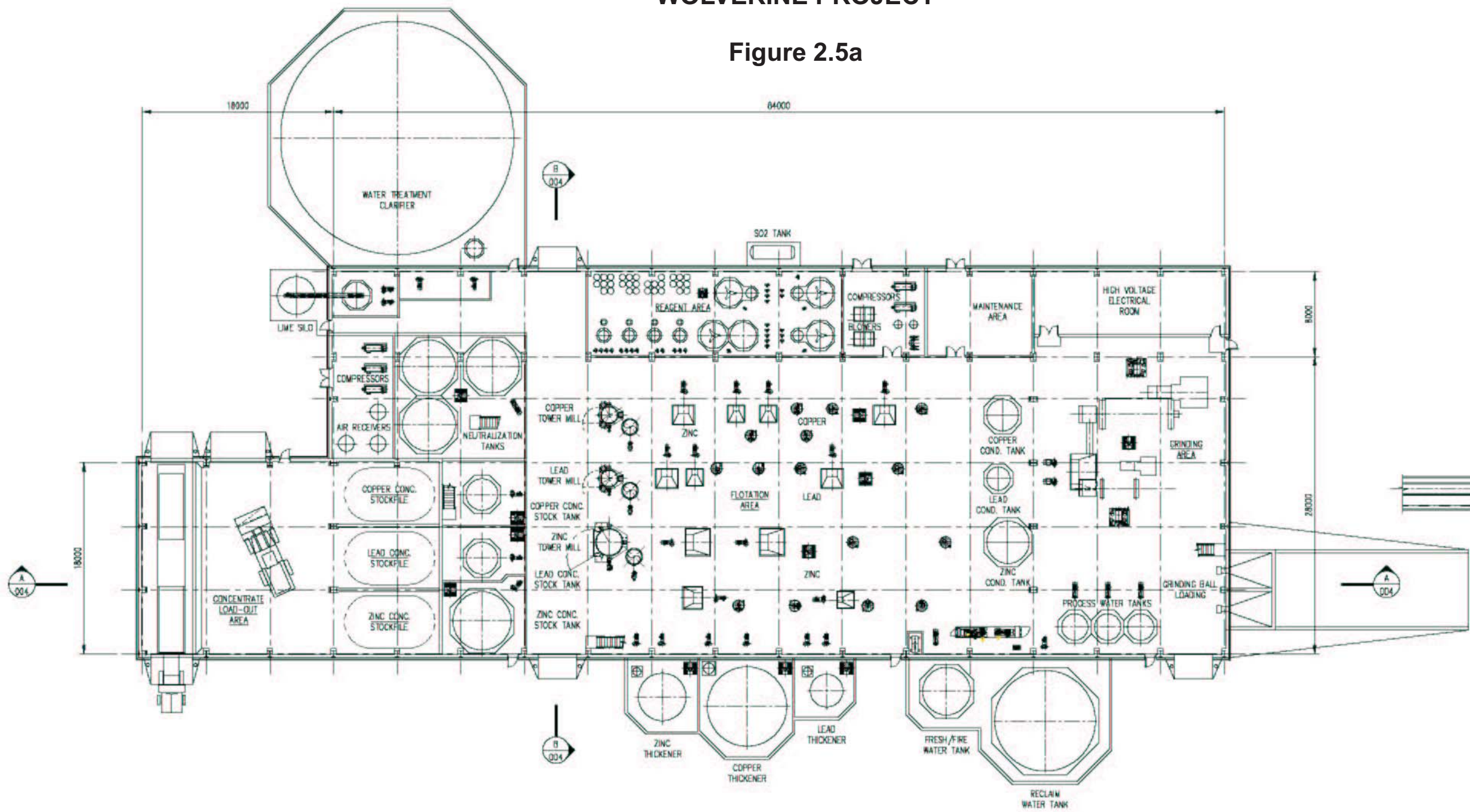
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SCALE:	NONE
DESIGN BY:	HT
DATE:	JULY/04
DRAWN BY:	KPM
DATE:	JULY/04
CHECK BY:	
APP. BY:	

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT YUKON
HATCH

TITLE	WOLVERINE PROJECT		
	FLOWSHEET No. 10		
	WATER BALANCE		
FILENAME:	PROJECT NUMBER	DRAWING NUMBER	REV.
A0F010.DWG	317142	A0-F-010	/

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 2.5a



GROUND FLOOR PLAN

PROGRESS PRINT

AUGUST 31, 2004

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DWG. NO.	REFERENCE DRAWINGS	PROJECT	PROCESS	CDL	MECH.	STRUC.	SPRINK.	SEWER/EL.	HAZOP	NO.	DESCRIPTION	BY	DATE
											ISSUE/REVISIONS		

SECTION:	GENERAL
SCALE:	1:200
DATE:	AUG/04
DESIGN BY:	SP
DRAWN BY:	---
CHECK BY:	---
APP. BY:	---

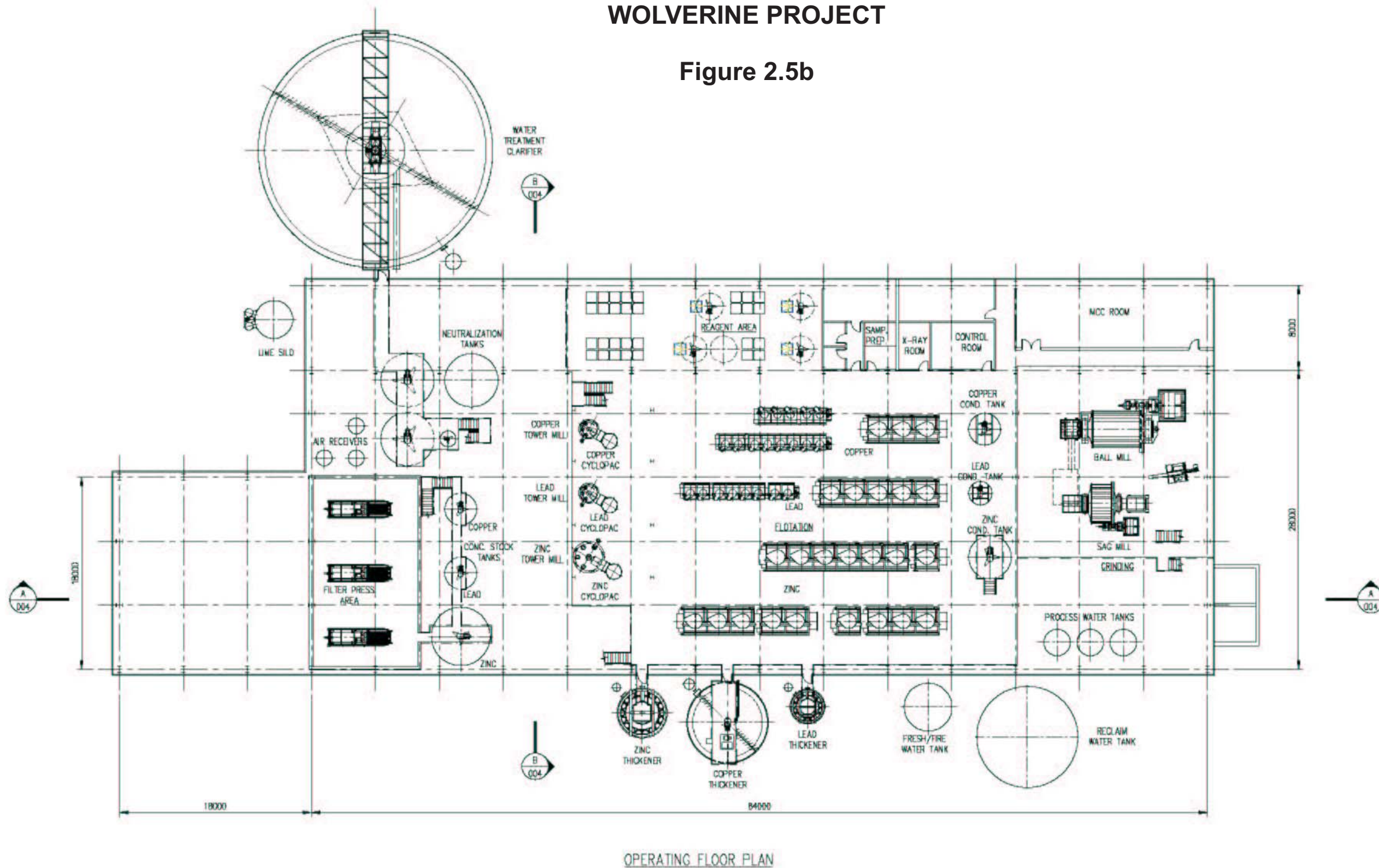
EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT
YUKON

HATCH

TITLE: WOLVERINE PROJECT			
MILL BUILDING GENERAL ARRANGEMENT GROUND FLOOR PLAN			
FILENAME:	PROJECT NUMBER:	DRAWING NUMBER:	REV.
F06001.DWG	317142	FO-G-001	1

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 2.5b



OPERATING FLOOR PLAN

PROGRESS PRINT

AUGUST 03, 2004

31714201.DWG 004

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DWG. NO.	REFERENCE DRAWINGS	PROJECT	PROCESS	CHK.	RECH.	SETBACK	SPRING	SEPARATORS	ELIOT	MECH.	NO.	DESCRIPTION	BY	DATE
												ISSUE/REVISIONS		

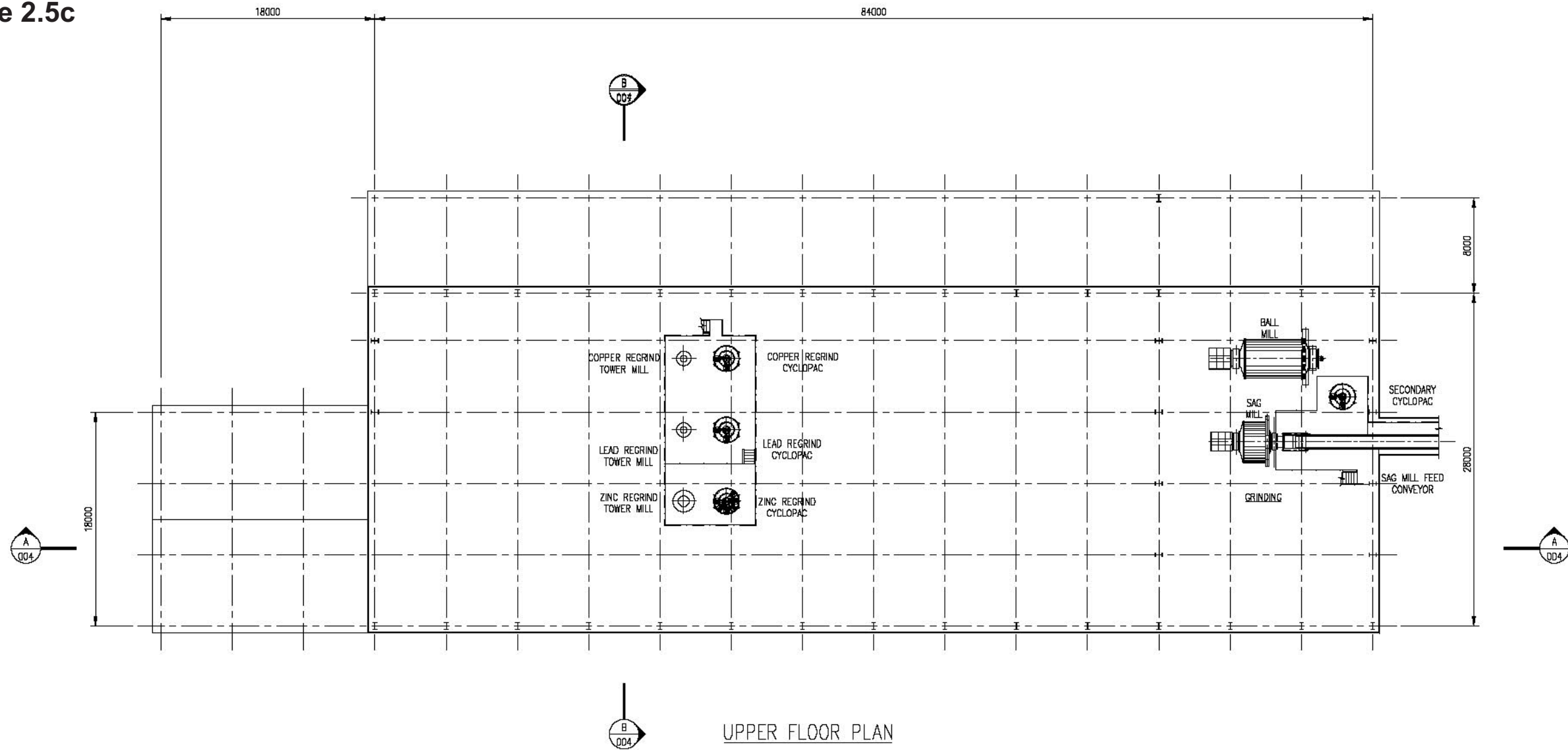
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SCALE:	1:200
DATE:	AUG/04
DESIGN BY:	SP
DRAWN BY:	---
CHECK BY:	---
APP. BY:	---

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT
YUKON
HATCH

TITLE: WOLVERINE PROJECT			
MILL BUILDING GENERAL ARRANGEMENT OPERATING FLOOR PLAN			
FILENAME:	PROJECT NUMBER:	DRAWING NUMBER:	REV.:
FB0002.DWG	317142	FO-G-002	1

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 2.5c



PROGRESS PRINT
AUGUST 31, 2004

317142/003 8/31/04

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DWG. NO.	REFERENCE DRAWINGS	PROJECT	PROCESS	CAL.	MECH.	STRUCT.	PIPE	SURVES	ELECT.	INSUR.	NO.	DESCRIPTION	BY	DATE
												DESCRIPTION		
												ISSUE/REVISIONS		

SECTION:	GENERAL
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DESIGN BY:	SP
DRAWN BY:	KPM
CHECK BY:	---
APP. BY:	---

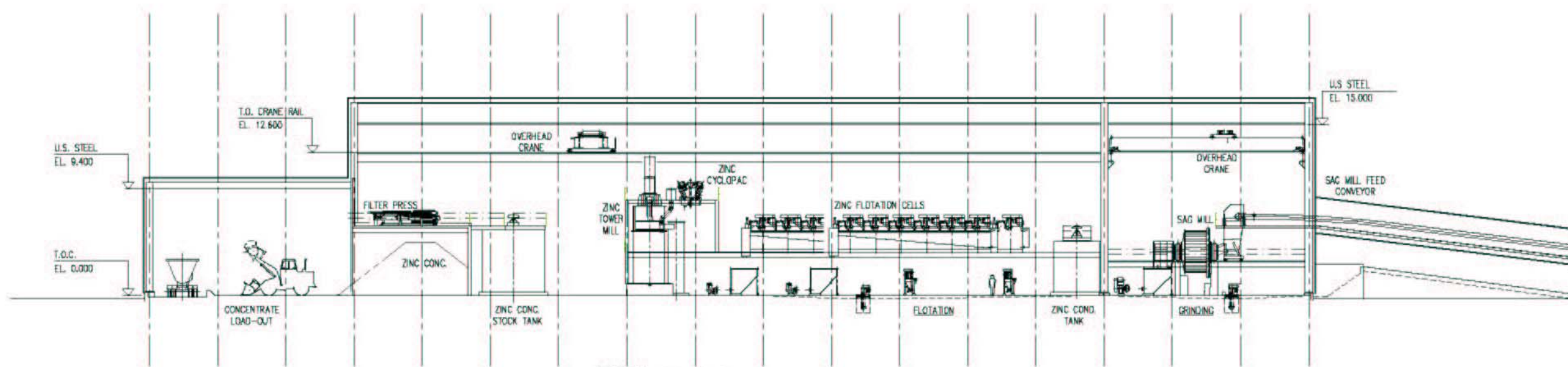
EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT
YUKON

HATCH

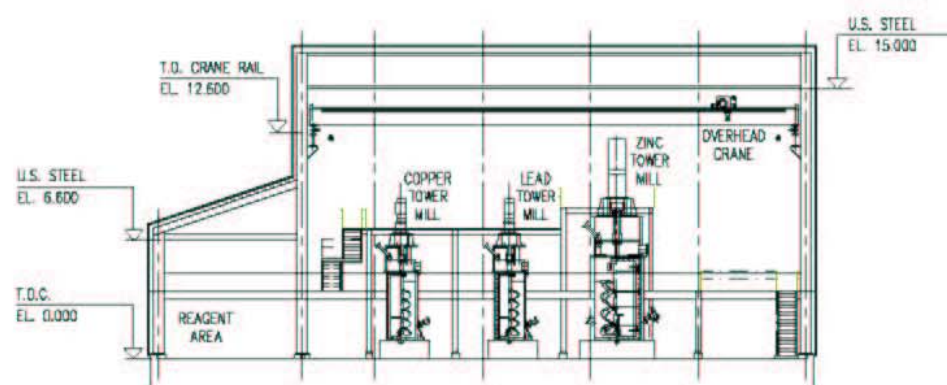
TITLE		WOLVERINE PROJECT	
MILL BUILDING		GENERAL ARRANGEMENT	
UPPER FLOOR PLAN			
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FGG003.DWG	317142	F0-G-003	1

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WOLVERINE PROJECT

Figure 2.5d



SECTION A A A
001 002 003



SECTION B B B
001 002 003

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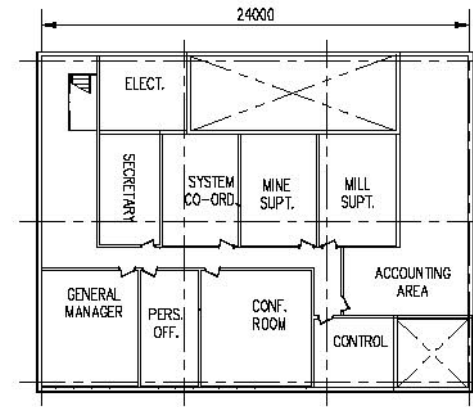
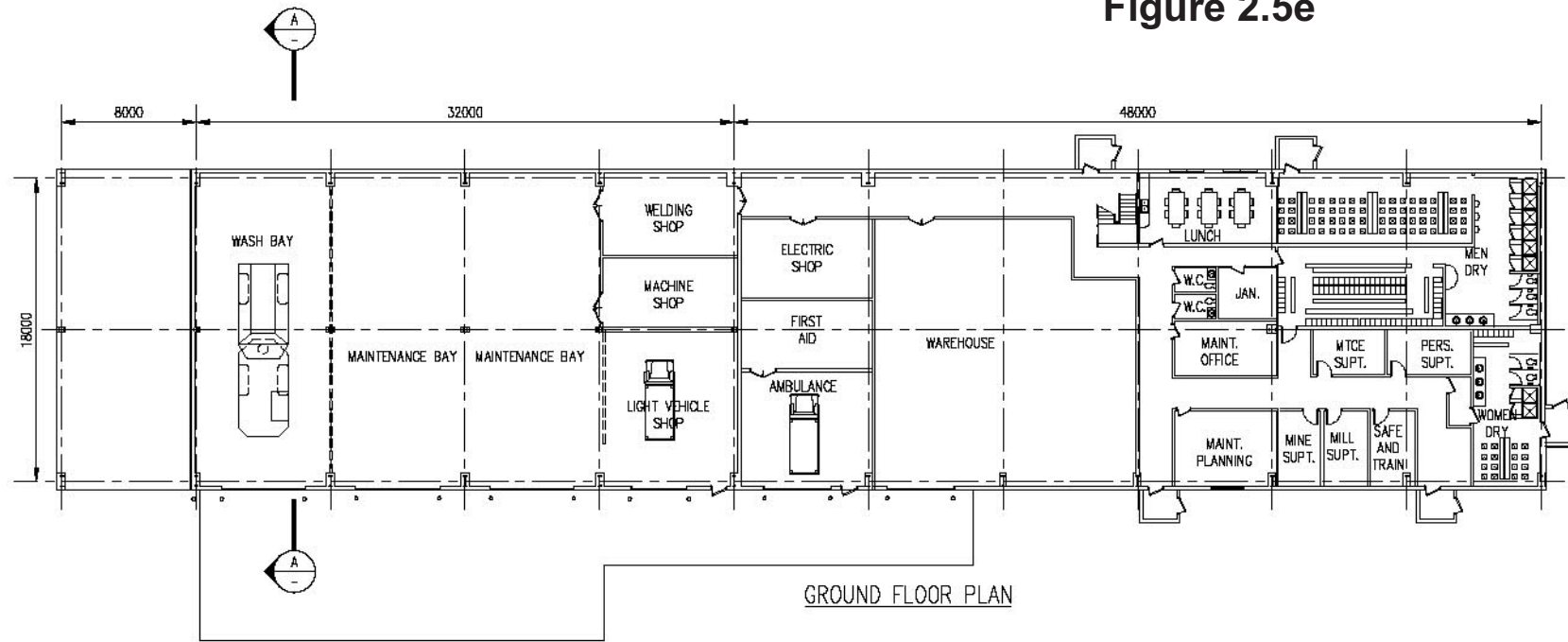
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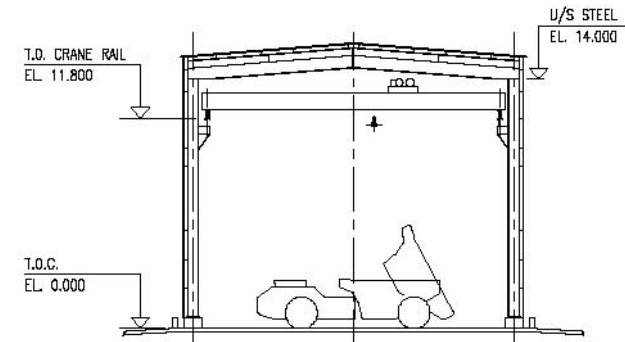
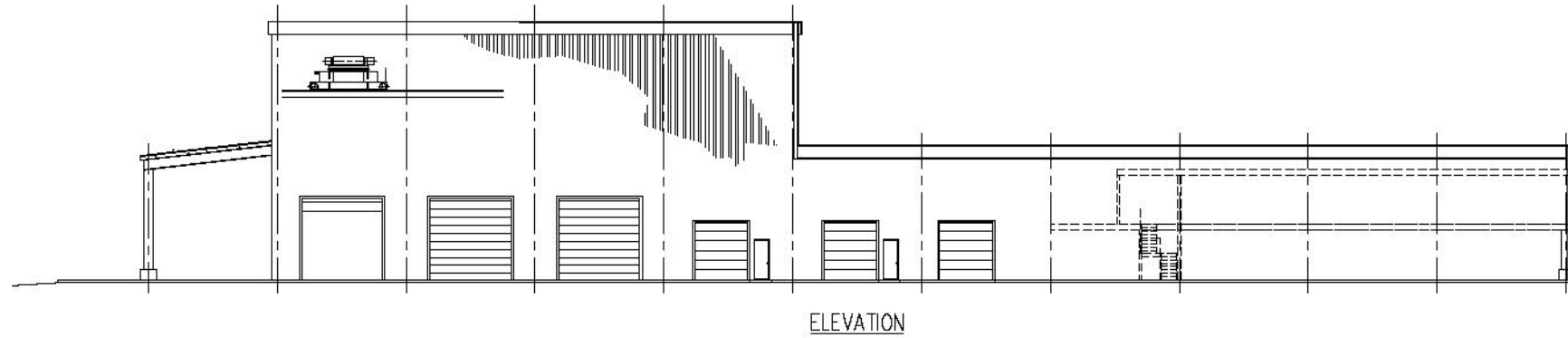
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FG004.DWG	317142	FO-G-004	1

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Figure 2.5e



SECOND FLOOR PLAN



SECTION A

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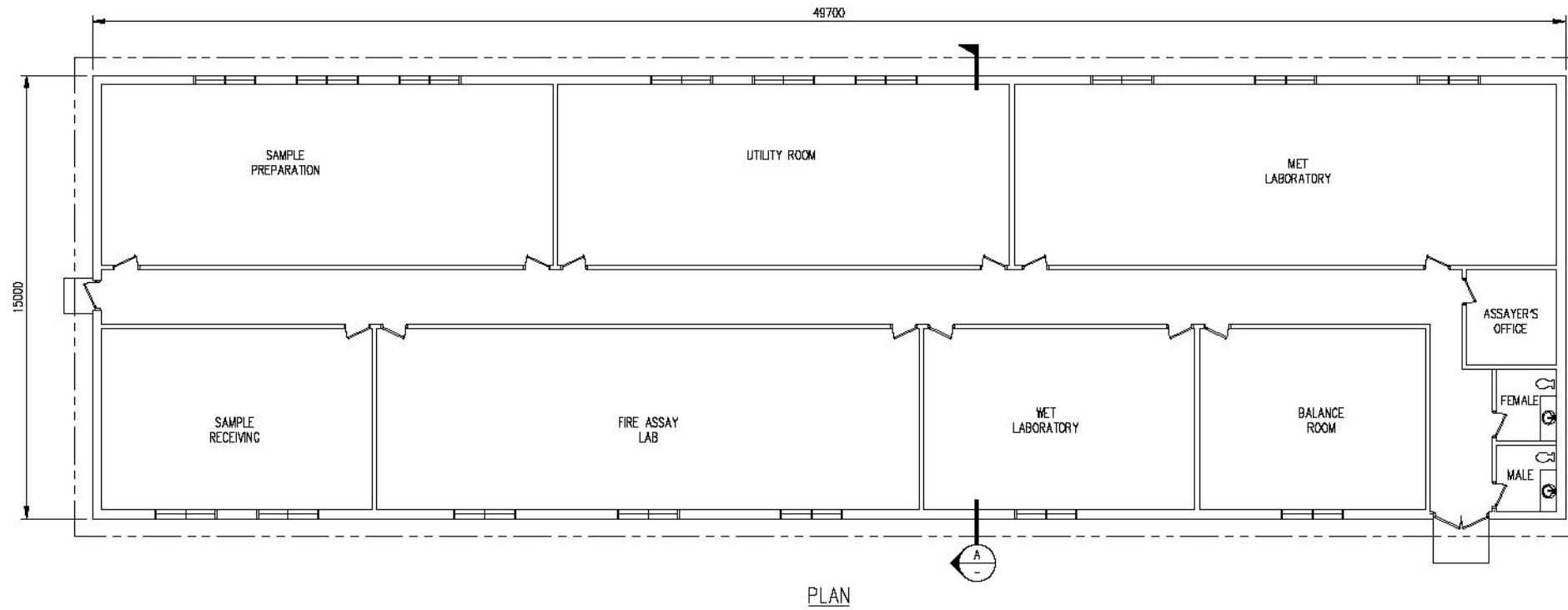
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WOLVERINE PROJECT
YUKON

HATCH

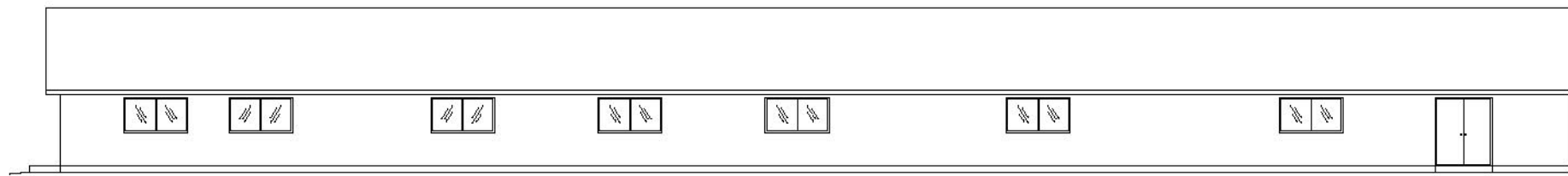
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PLANS, ELEVATION & SECTION			
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WOLVERINE PROJECT

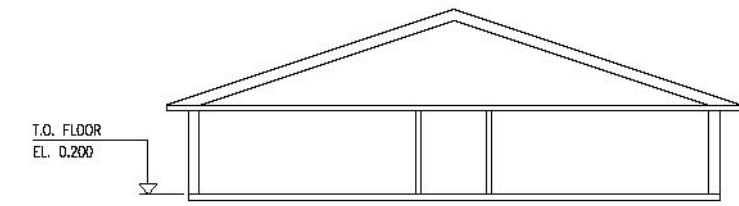
Figure 2.5f



PLAN



ELEVATION



SECTION A

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317142-01.DWG 08/25/04 09:54

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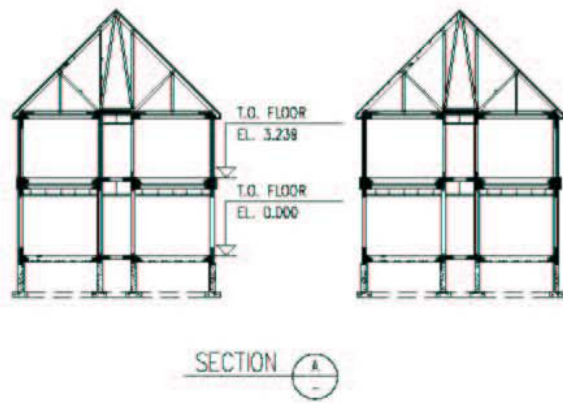
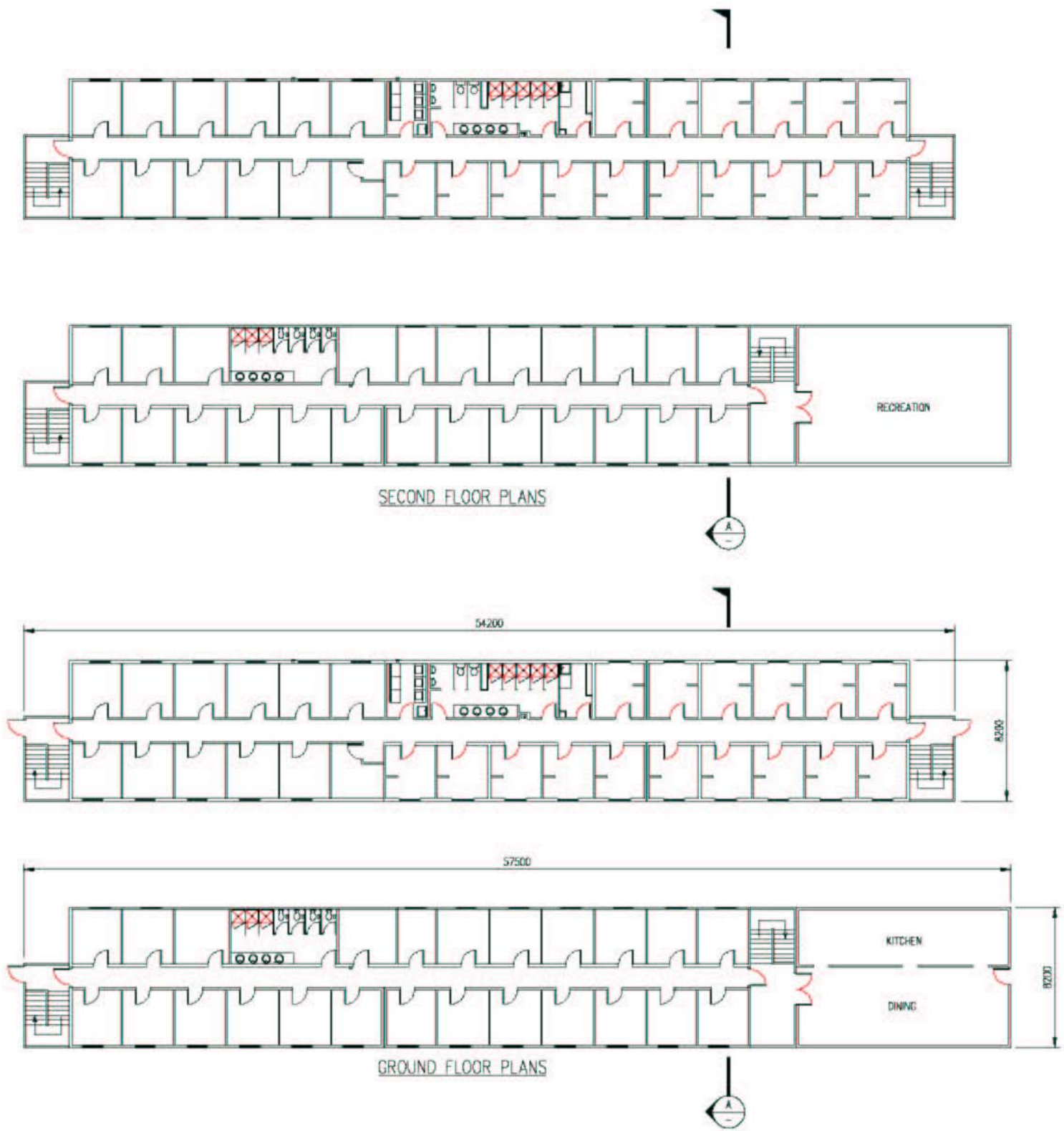
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WOLVERINE PROJECT
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ASSAY LABORATORY		GENERAL ARRANGEMENT	
PLAN, ELEVATION & SECTION			
FILENAME:	H2G001.DWG	PROJECT NUMBER	317142
DRAWING NUMBER	H2-G-001	REV.	/

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WOLVERINE PROJECT

Figure 2.5g



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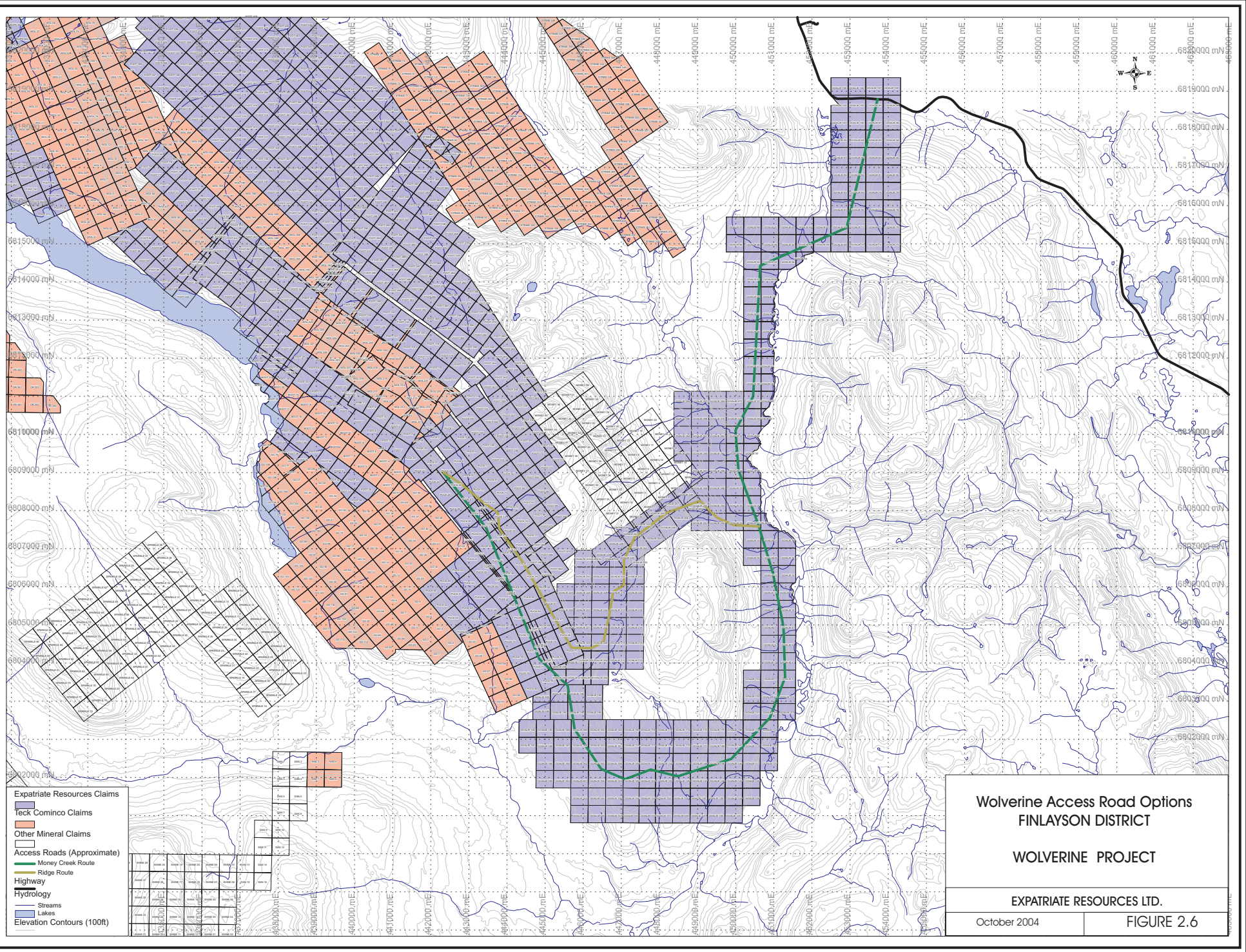
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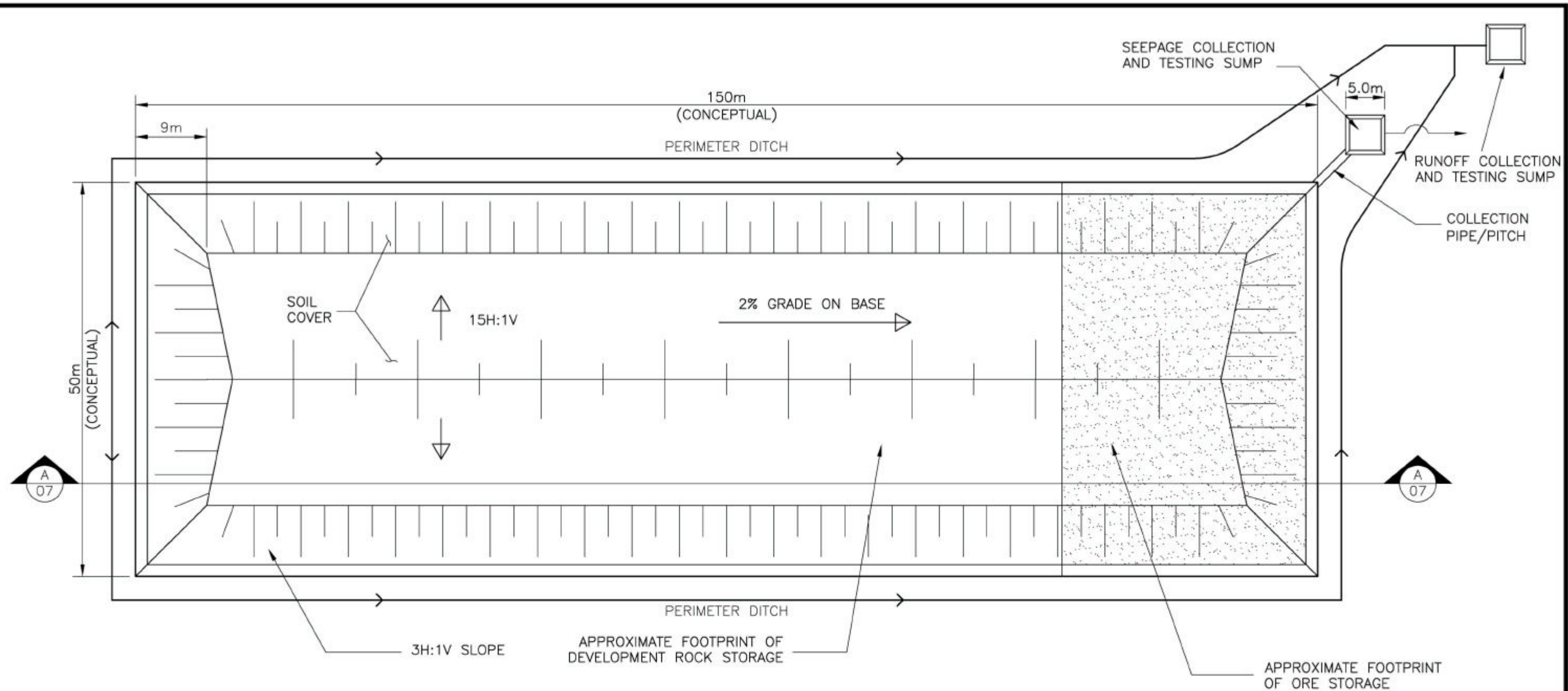
EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT
HATCH

TITLE			
WOLVERINE PROJECT			
ACCOMMODATION COMPLEX			
GENERAL ARRANGEMENT			
PLANS & SECTION			
FILENAME	PROJECT NUMBER	DRAWING NUMBER	REV.
H3G001.DWG	317142	H3-G-001	/



- Expatriate Resources Claims
- Teck Cominco Claims
- Other Mineral Claims
- Access Roads (Approximate)
 - Money Creek Route
 - Ridge Route
- Highway
- Hydrology
 - Streams
 - Lakes
- Elevation Contours (100ft)

Wolverine Access Road Options FINLAYSON DISTRICT	
WOLVERINE PROJECT	
EXPATRIATE RESOURCES LTD.	
October 2004	FIGURE 2.6



NOTES:

1. THIS IS A CONCEPTUAL ROCK STORAGE FACILITY ONLY. FINAL DESIGN AND SITE ISSUES NEED TO BE ASSESSED BEFORE CONSTRUCTION.
2. INVESTIGATIONS ARE REQUIRED TO CONFIRM AND ASSESS FOUNDATION CONDITIONS, CONTRACTABILITY AND SEEPAGE POTENTIAL. A LINER MAY BE REQUIRED TO PREVENT SEEPAGE.
3. SEEPAGE COLLECTION SUMP, RUNOFF COLLECTION SUMP AND ASSOCIATED DITCHES ARE CONCEPTUAL ONLY. DETAILED DESIGN IS REQUIRED TO ENSURE PERFORMANCE DURING STORM/RUNOFF EVENTS.
4. PROPOSED SOIL COVER IS COMPOSED OF WEATHERED RHYOLITE FOUNDATION ROCK. TESTS TO ASSESS IT'S SUITABILITY IN THIS APPLICATION ARE REQUIRED.

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 DESIGNED: SB
 CHECKED:
 APPROVED:

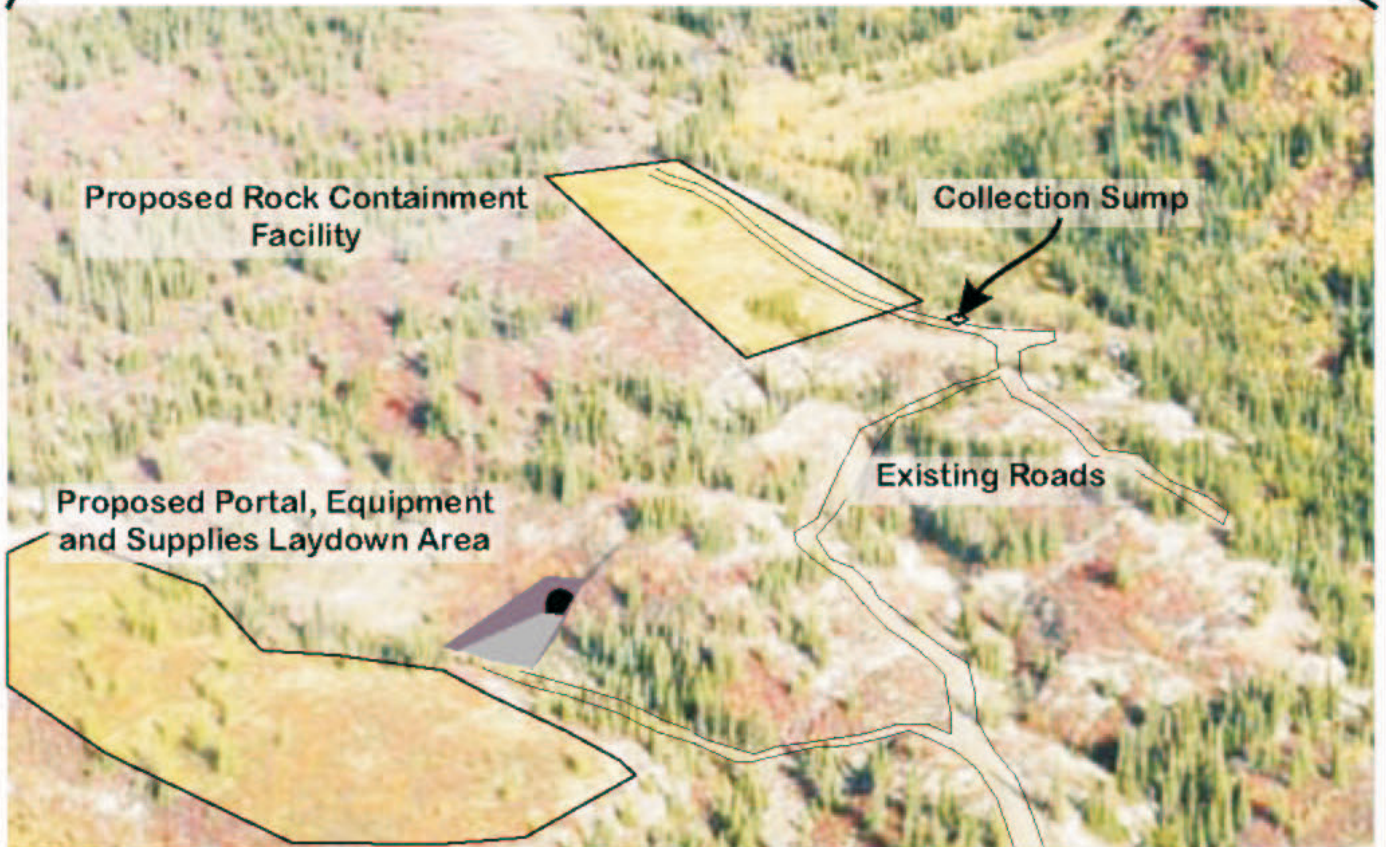
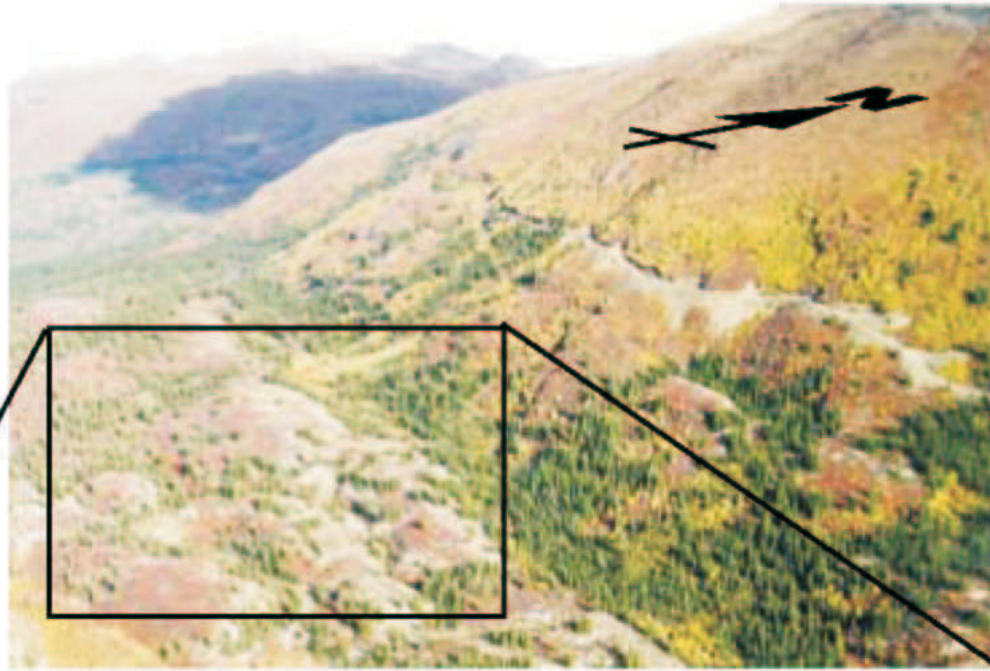
BGC ENGINEERING INC.
 AN APPLIED EARTH SCIENCES COMPANY
 Vancouver, B.C. Phone: (604) 684 5900

PROJECT: WOLVERINE TEST MINING PROGRAM
 TITLE: CONCEPTUAL DESIGN OF TEMPORARY ROCK STORAGE

CLIENT: EXPATRIATE RESOURCES LTD.

PROJECT No. 0263-002-01
 DWG. No. Figure 2.7
 REV. 0

REV.	DATE	REVISION	DRAWN	CHECKED	APPROVED



BGC
ENGINEERING INC.

AN APPLIED EARTH SCIENCES COMPANY

Expatriate Resources Ltd.

Figure 2.8: Photographic Model of Portal and Temporary Waste Rock Storage Area

Drawn: SEB

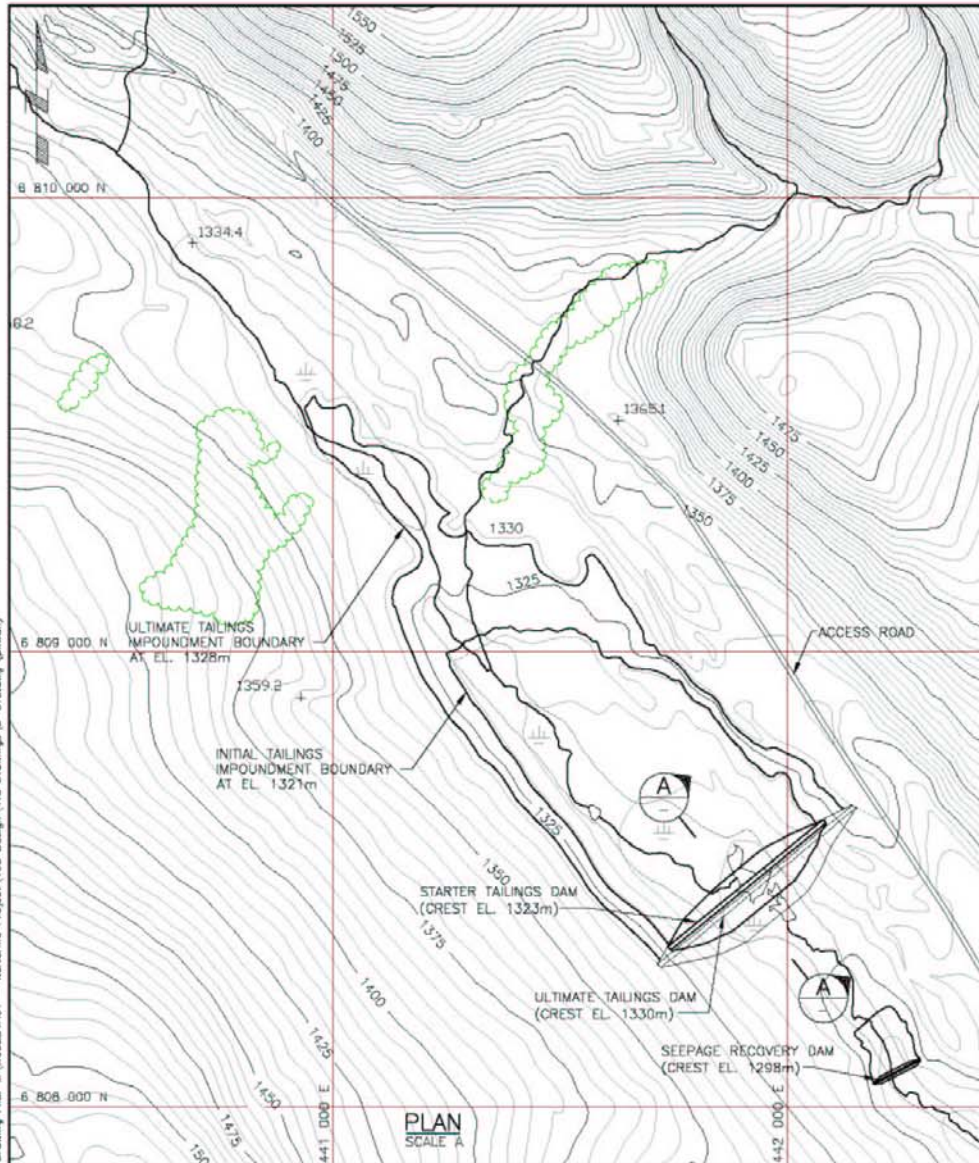
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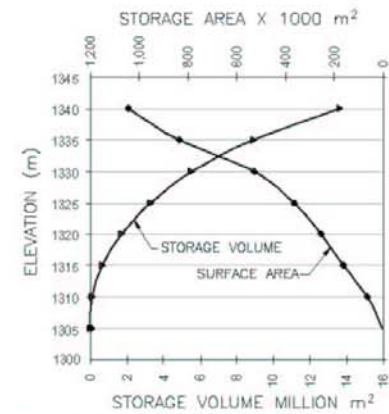
Expatriate
Resources Ltd.

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 2.9
Impoundment Plan, Storage Volume and Dam Section



SECTION A
TAILINGS DAM CROSS SECTION



TAILINGS IMPOUNDMENT
VERSUS
DAM CREST ELEVATION

NOT FOR CONSTRUCTION

DRAFT

SCALE 0 500m

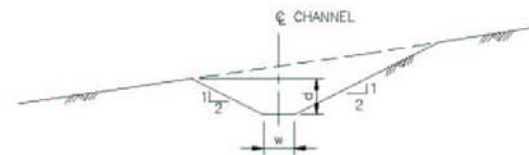
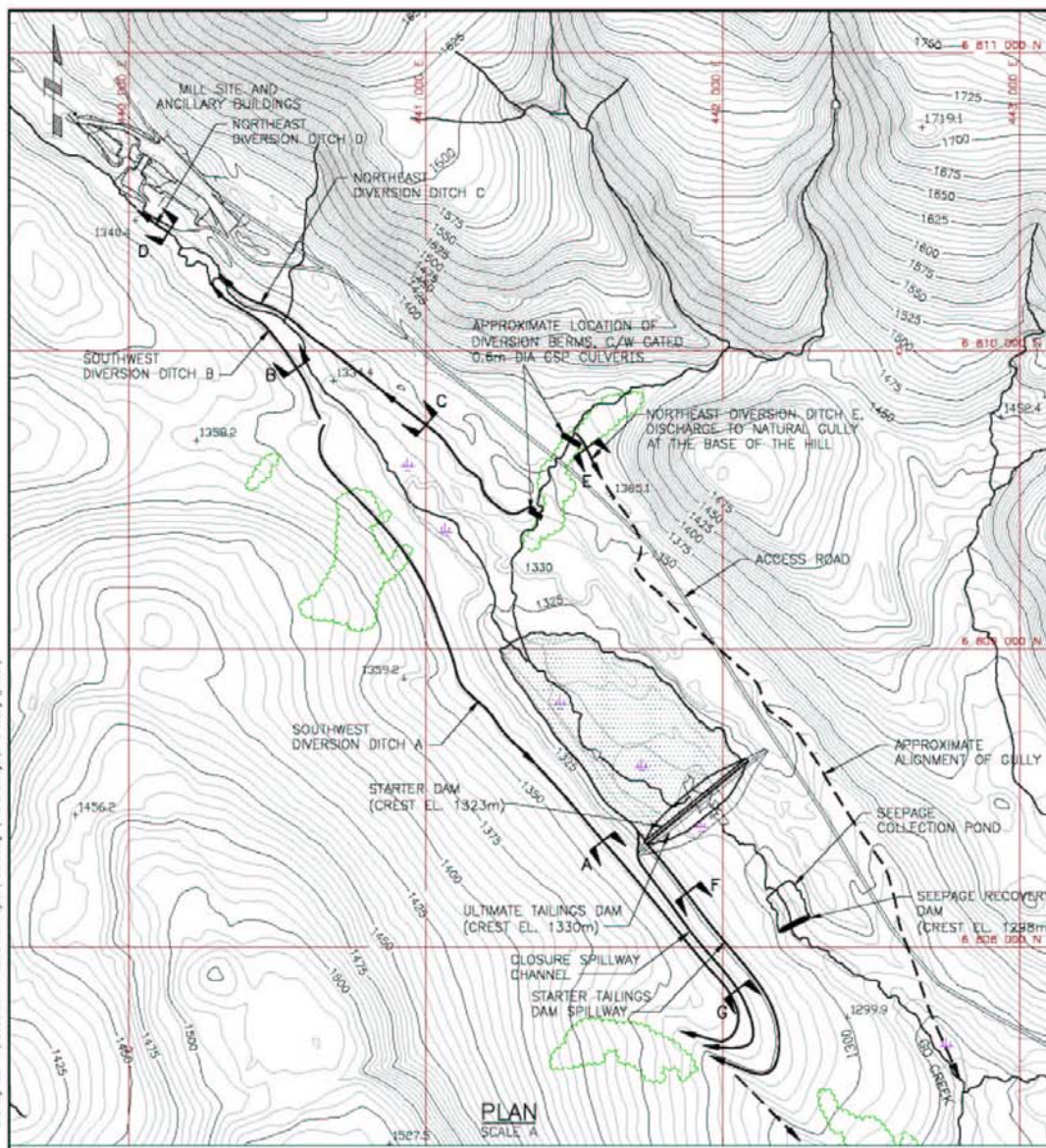
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	TO BE READ WITH KLOHN CRIPPE REPORT DATED: _____	SCALE 0 500m

Date: 16-11-17
 Scale: 1=75m
 Drawing File: M:\09234A01 - Wolverine Project\400 Design\410 Drawings\B-D13.dwg (Gawen)

PLAN
SCALE A

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 2.10
Diversion Ditches and Spillways – Plans and Sections



TYPICAL DITCH SECTION

SECTION	DESCRIPTION	MINIMUM DEPTH d (m)	MINIMUM WIDTH w (m)
A	DIVERSION DITCH A	0.8	0.5
B	DIVERSION DITCH B	0.5	0.5
C	DIVERSION DITCH C	0.7	0.5
D	DIVERSION DITCH D	0.8	0.5
E	DIVERSION DITCH E	0.9	1.5
F	STARTER DAM SPILLWAY	0.6	2.0
G	CLOSURE SPILLWAY	1.5	3.0

NOTES:

- ROAD AND MILL LAYOUT TAKEN FROM HATCH DWG. No. AD-C005, MARCH 26, 2004 PROGRESS REPORT,
- DIVERSION DITCHES AND SPILLWAY SECTIONS ARE BASED ON CHANNEL INVERT SLOPE OF 0.25%. MINIMUM CHANNEL DEPTH FOR THE CLOSURE SPILLWAY INCLUDES 0.6m FREEBOARD. DEPTHS FOR ALL OTHER CHANNELS INCLUDE A FREEBOARD OF 0.3m.

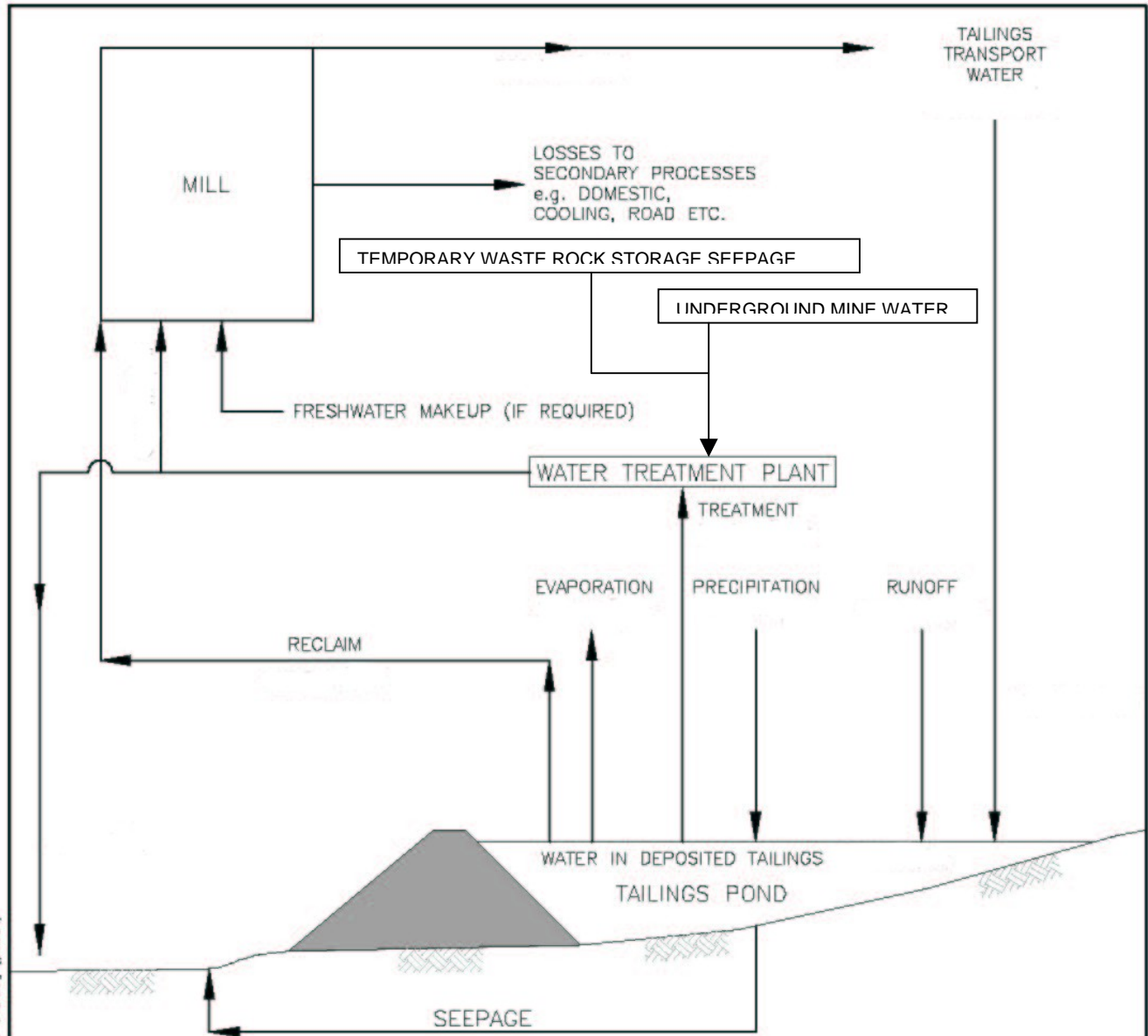
NOT FOR CONSTRUCTION

DRAFT

SCALE A 1000m

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		TITLE DIVERSION DITCHES AND SPILLWAYS PLAN AND SECTIONS
PROJECT No. M09234A01 01		FILE No. B-016

Title: 16-09-27
 Scale: 1:1000
 Drawing File: M:\09234A01 - Wolverine Project\100 Design\100 Drawings\B-016.dwg (ghwen)



NOTES:

1. WATER BALANCE SHOWN IS FOR FINAL YEAR OF OPERATION.
2. ASSUMES AVERAGE RUNOFF AND PRECIPITATION, AND DIVERSION DITCHES OPERATIONAL.
3. ASSUMES SEEPAGE FROM THE TAILINGS POND CAN BE RELEASED TO THE ENVIRONMENT. IF SEEPAGE RECOVERY IS REQUIRED, THERE WILL BE AN ADDITIONAL INFLOW AND SURPLUS OF 10m³/hr IN THE TAILINGS POND.

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SCALE N.T.S.

CLIENT
EXPATRIATE RESOURCES LTD.

PROJECT
WOLVERINE TAILINGS IMPOUNDMENT

TITLE
WATER MANAGEMENT SCHEMATIC

Adapted from:



PROJECT No. **M09234A01 01**

FIGURE 2.11

Time: 18:06:59
 Date: Aug 31 / 2004
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 Drawing File: M:\M09234A01 - Wolverine Project\400 Design\410 Drawings\A-015.dwg (pkwan)

KCB-AM

FIGURE 3.1
WOLEVERINE PROJECT REGION

- Wolverine Drainage
- Go/Money Creek Drainage
- Existing Road

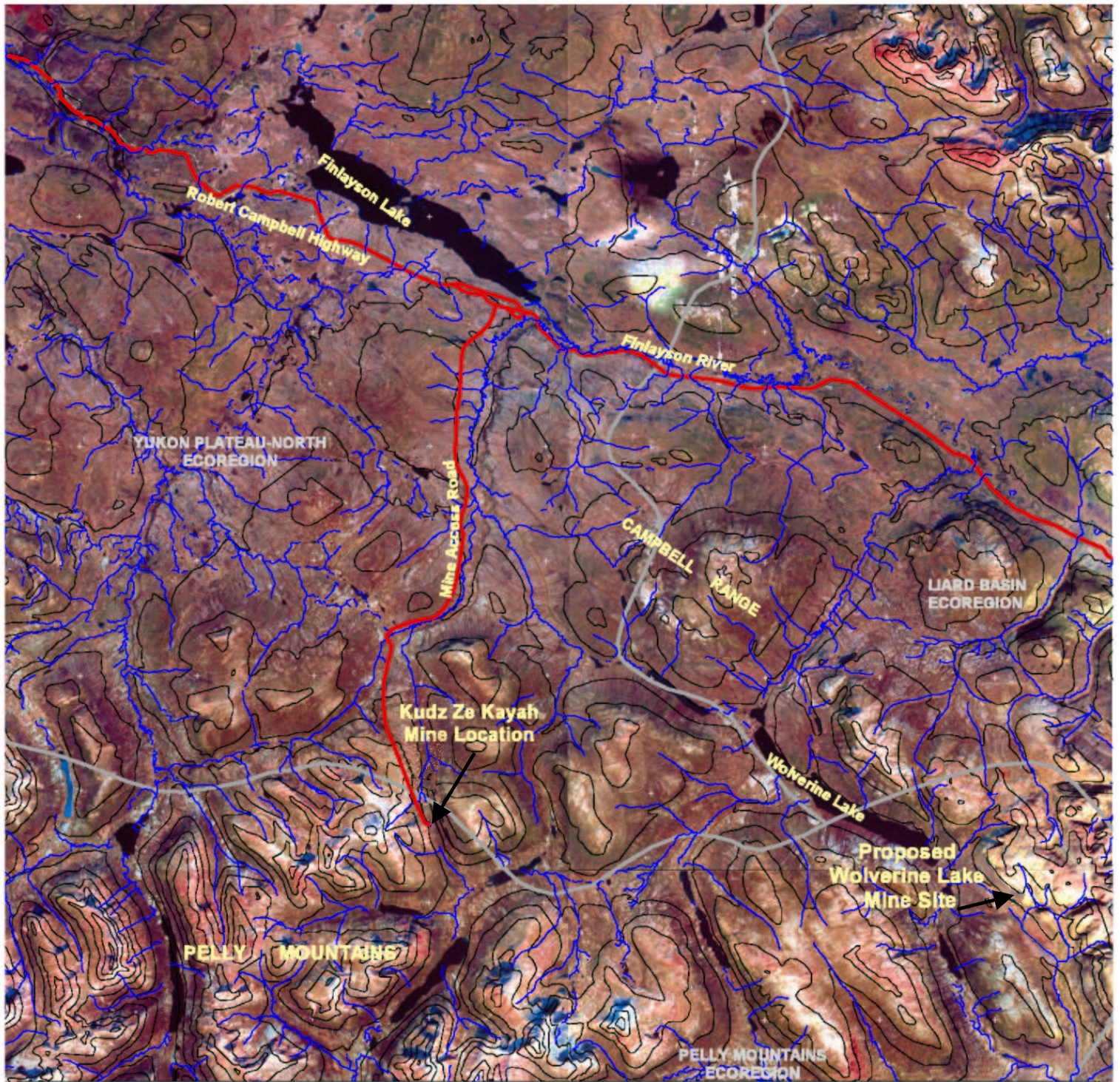


- N -

Kudz-Ze Kayah Project

Wolverine Project

EXPATRIATE RESOURCES LTD.
 WOLVERINE PROJECT
 Figure 3.2
 Ecoregions of the Wolverine Project Area



DATA SOURCES:

Ecoregions developed by 1995 Ecological Stratification Working Group as part of "A National Ecological Framework for Canada" by Agriculture and Agri-Food Canada at 1:1,000,000

Finlayson Lake Area Spot Panchromatic over Landsat TM Bands 731. Satellite image produced by Resource GIS and Imaging (RGI) at 1:100,000. Landsat TM image from September 14, 1985 and Spot image from July 23, 1994.

National Topographic Data Base (NTDB) compiled by Natural Resources Canada at 1:250,000. Reproduced under license from Her Majesty the Queen in Right of Canada, with permission of Natural Resources Canada.



Scale 1:200,000
 Projection: UTM NAD27, Zone 9
 4 0 4 8 Kilometers

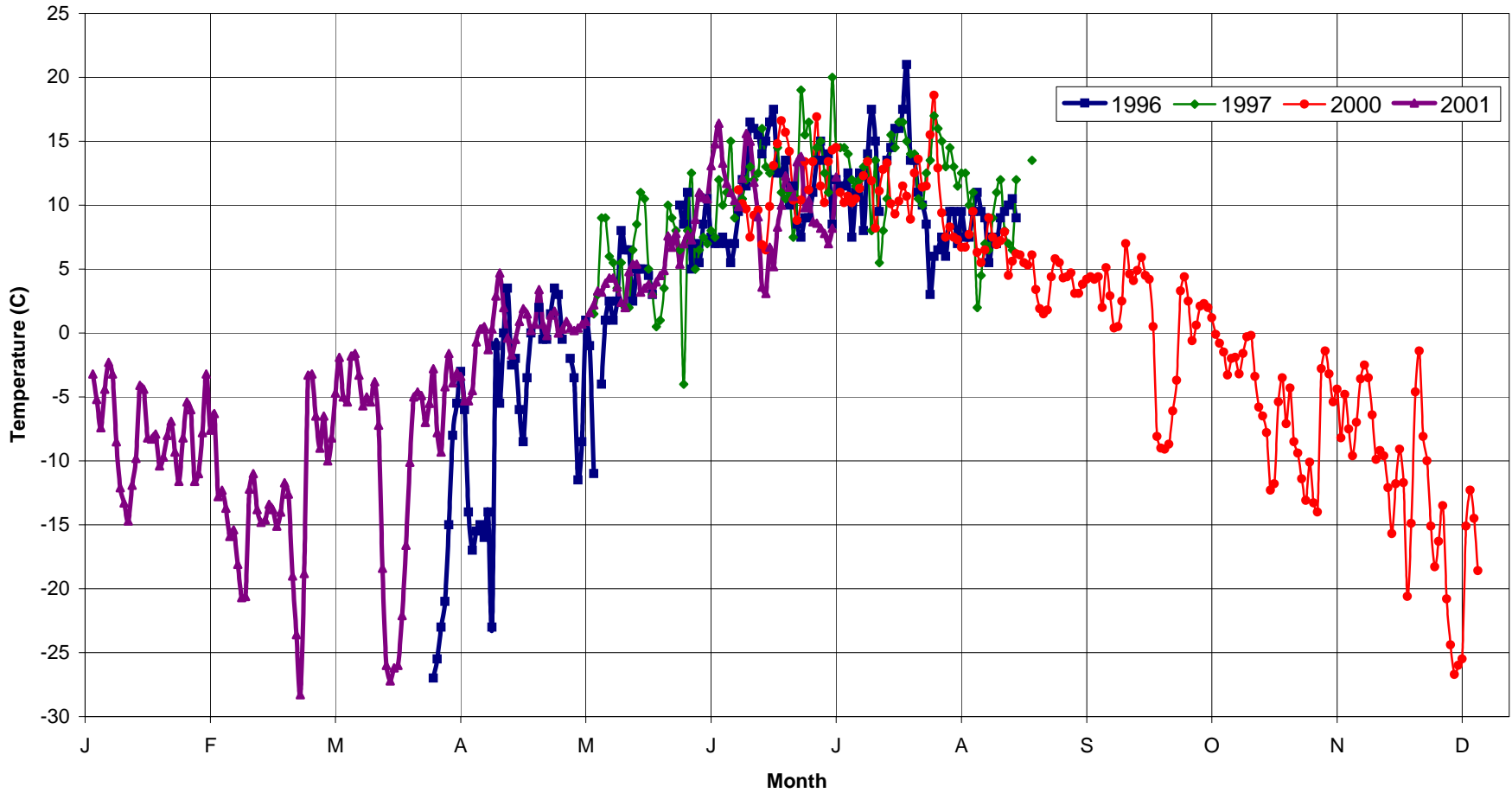
Map adapted from:
 N. Steffen and N. Guy
 Applied Ecosystem Management Ltd.
 www.AEMLtd.ca

10 November 2000

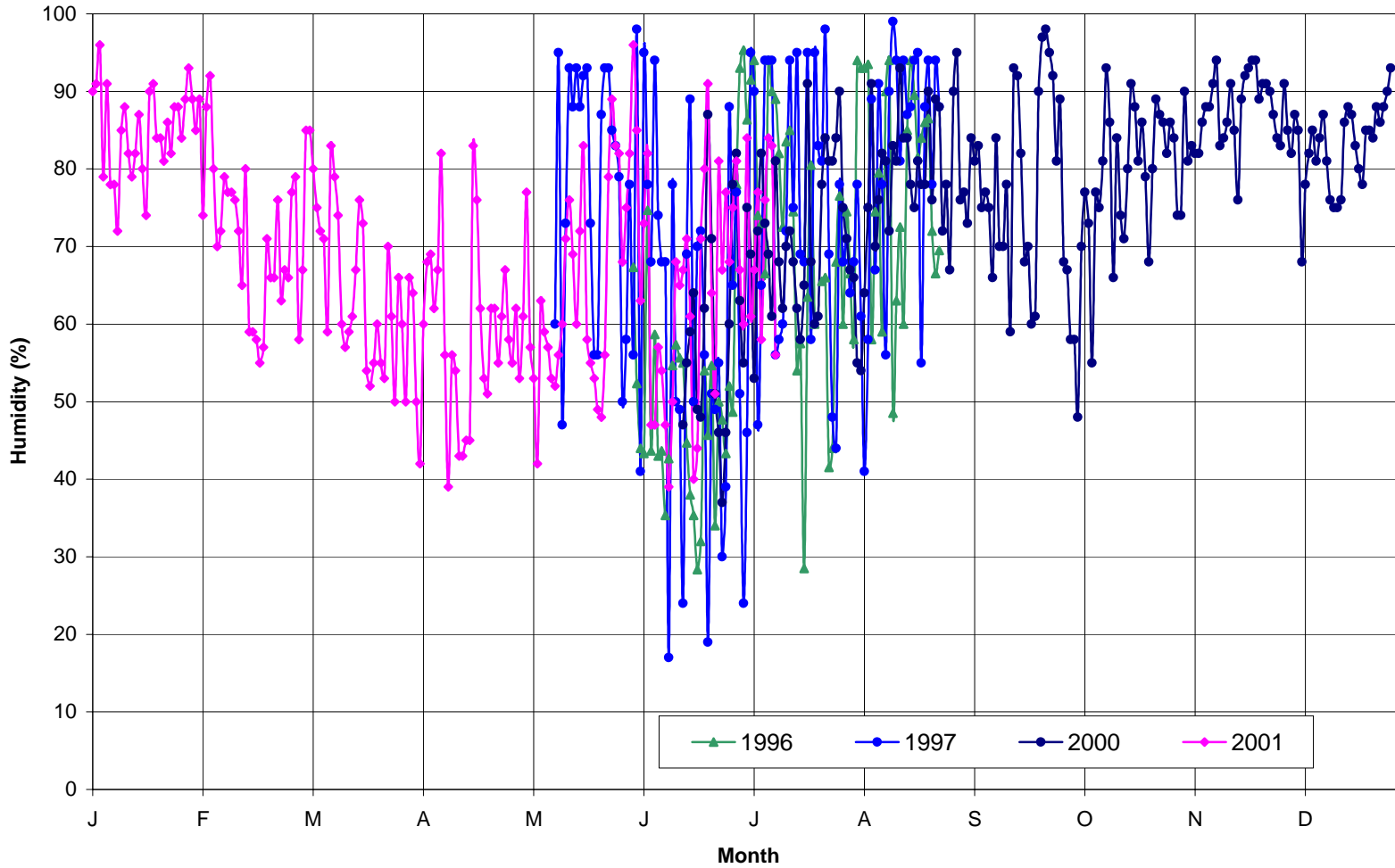


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Figure 3.3
Daily Average Air Temperature Measurements (°C)

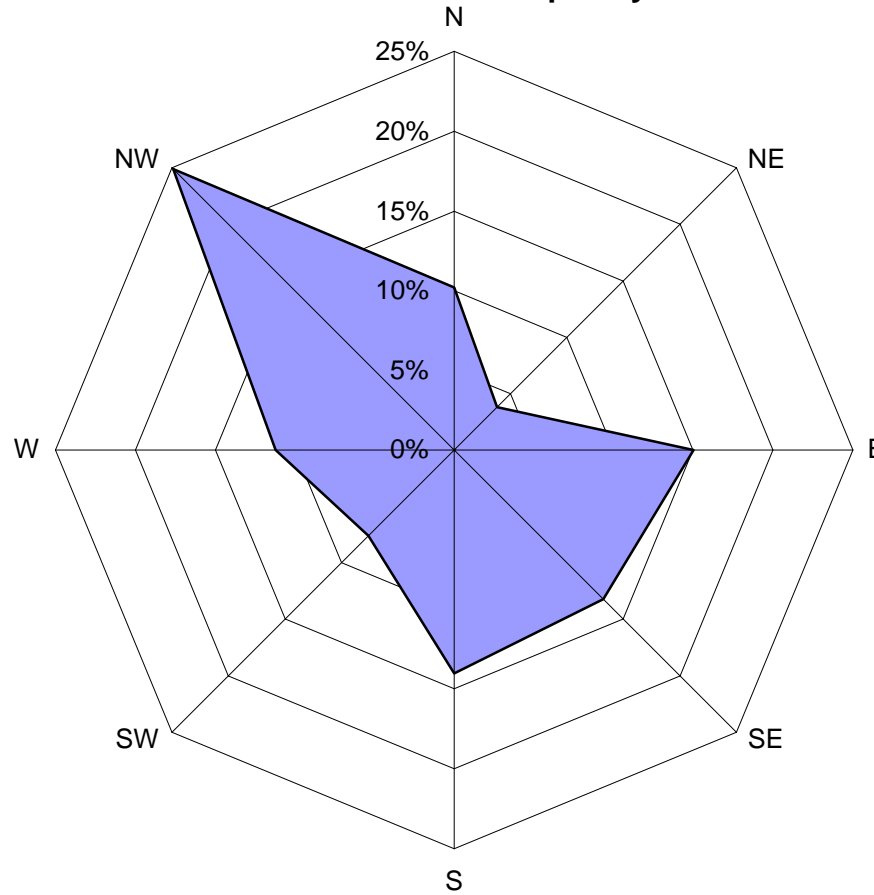


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WOLVERINE PROJECT
Figure 3.4
Daily Average Humidity Measurements (%)



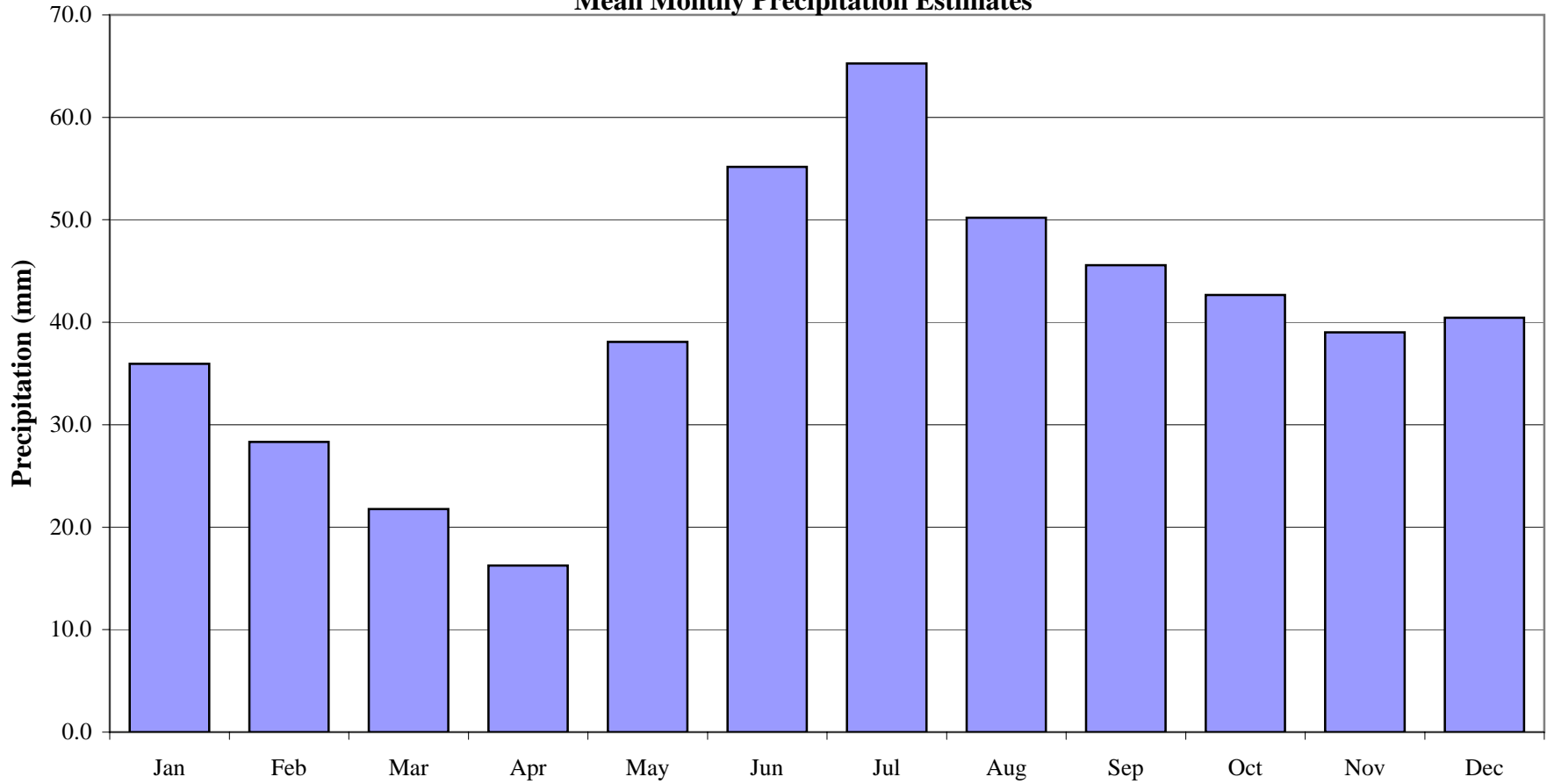
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**Figure 3.5
Wind Direction Frequency**



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**Figure 3.6
Mean Monthly Precipitation Estimates**



Source: Environment Canada, AES Precipitation Records

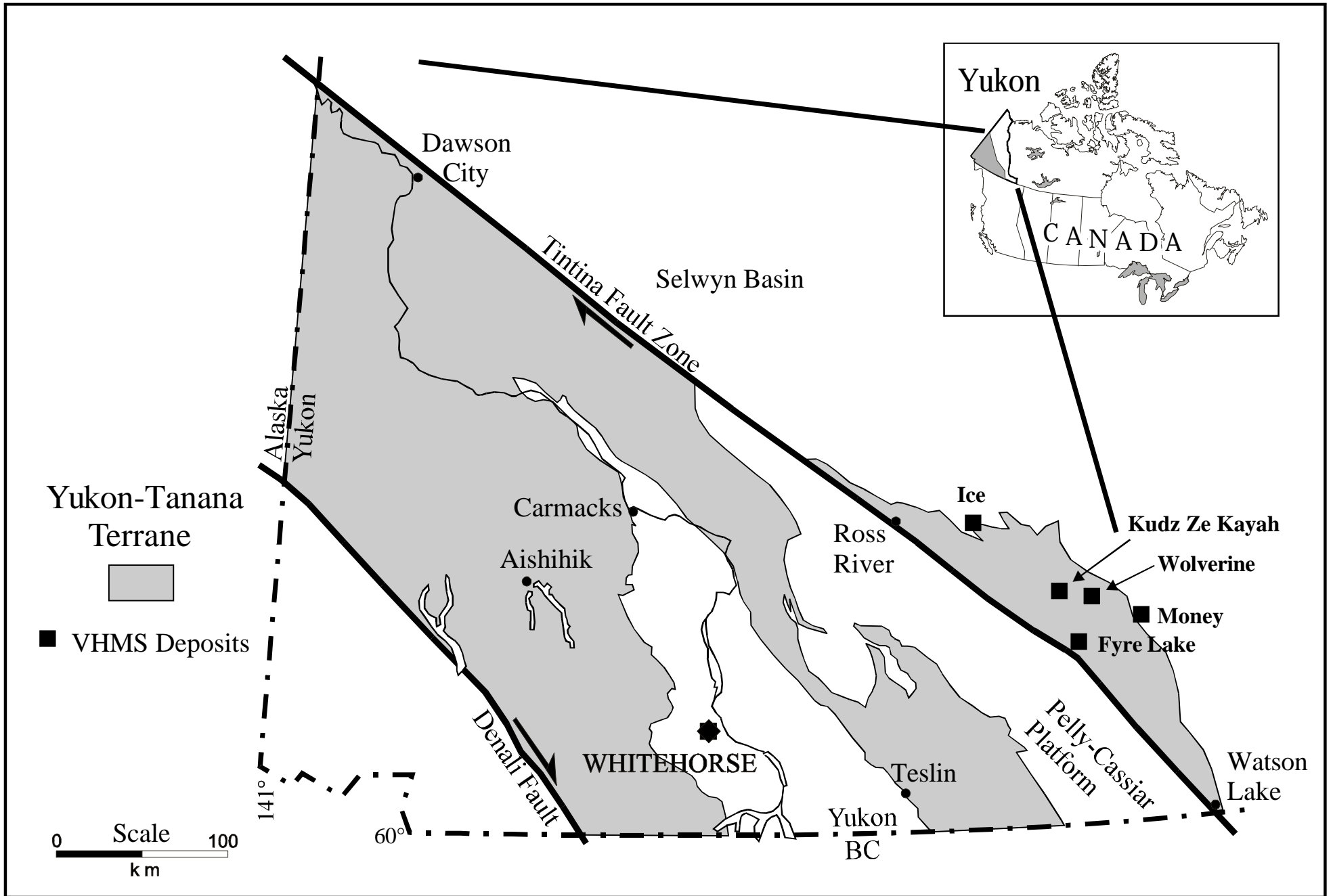
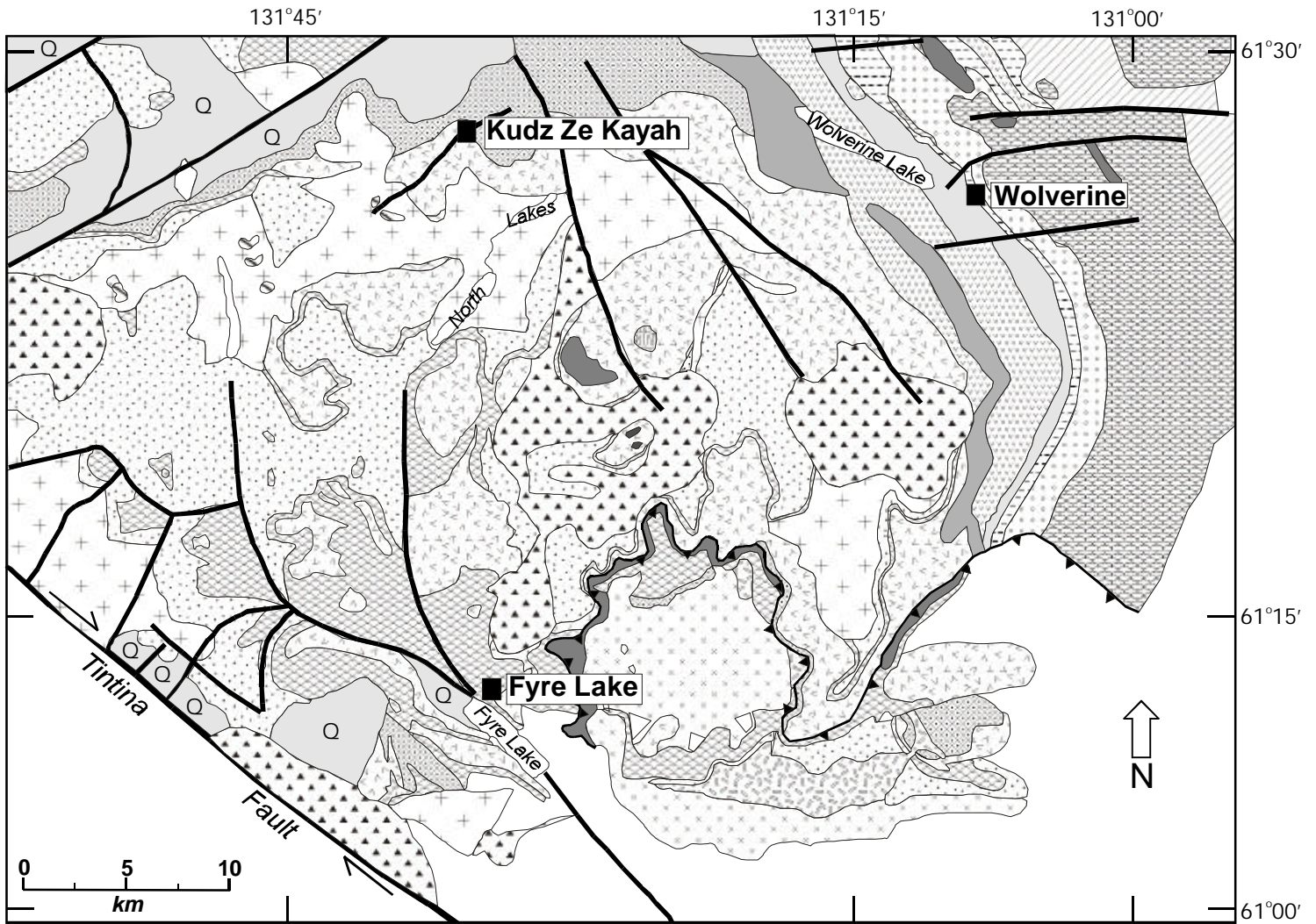


Figure 3.7. Location of the Finlayson Lake VHMS district.



○ Quaternary sediments

Pennsylvanian-Permian

Campbell Range Belt

▨ Chert, chert-pebble conglomerate, sandstone

▨ Mafic volcanic, volcanoclastic and intrusive rocks

▨ Diamiclite, mafic tuff, olistostromal carbonate, chert, sandstone

Mississippian

▨ Unit 6: Felsic volcanic rocks, Fe-formation, mixed tuffs

▨ Unit 5 cp: Carbonaceous argillite and phyllite

▨ Unit 5 f/qfp: Quartz-bearing felsic volcanic and intrusive rocks

Mississippian

▨ Unit 5l: Quartz-feldspar + shale chip conglomerate

Unconformity

▨ Unit 4: Carbonaceous phyllite, rift-related mafic rocks, quartzite

▨ Unit 3: Felsic volcanic and shallow level intrusive rocks, carbonaceous phyllite, turbiditic sedimentary rocks

▨ Unit 2: Mafic volcanic and intrusive rocks, carbonaceous phyllite, lesser felsic volcanic rocks

▨ Unit 1: Q quartz-(+ biotite)-rich metaclastic rocks calc-silicates, rare felsic volcanic horizons

Intrusive Rocks

Cretaceous

▨ Peraluminous granitoids

Mississippian

▨ *Grass Lakes*: Peraluminous granitoids

▨ *Simpson Range Plutonic Suite*: Metaluminous granitoids

▨ *Simpson Range Plutonic Suite*: Sheared metaluminous granitoids

▨ Mississippian? serpentinitized harzburgites and ultramafic rocks (intrusions?)

Other

▬ Faults, displacement uncertain

▾ Money Creek Thrust Fault

■ VMS Deposit

Figure 3.8. Geology of the Finlayson Lake region.

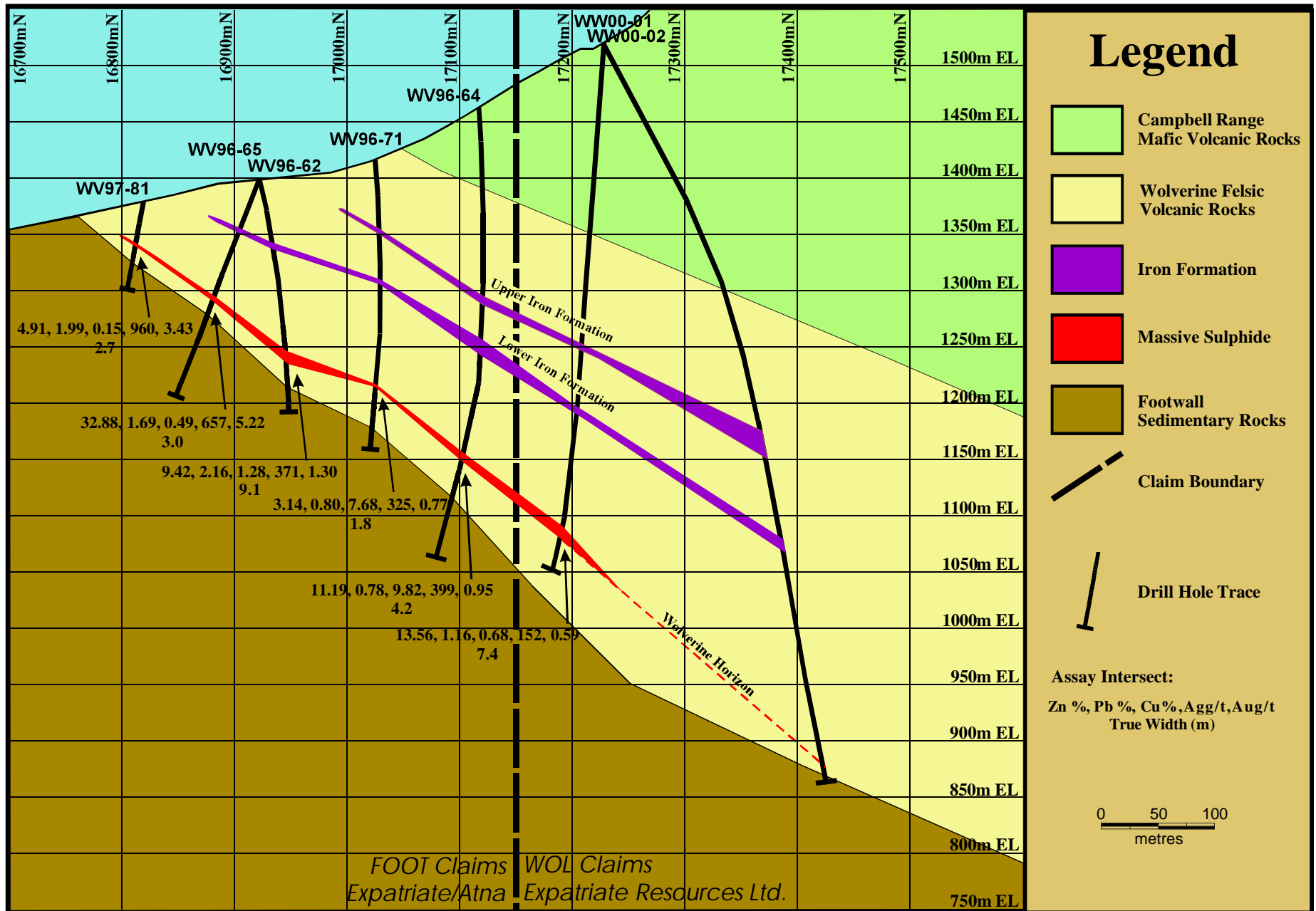


Figure 3.9: Wolverine Deposit Cross Section

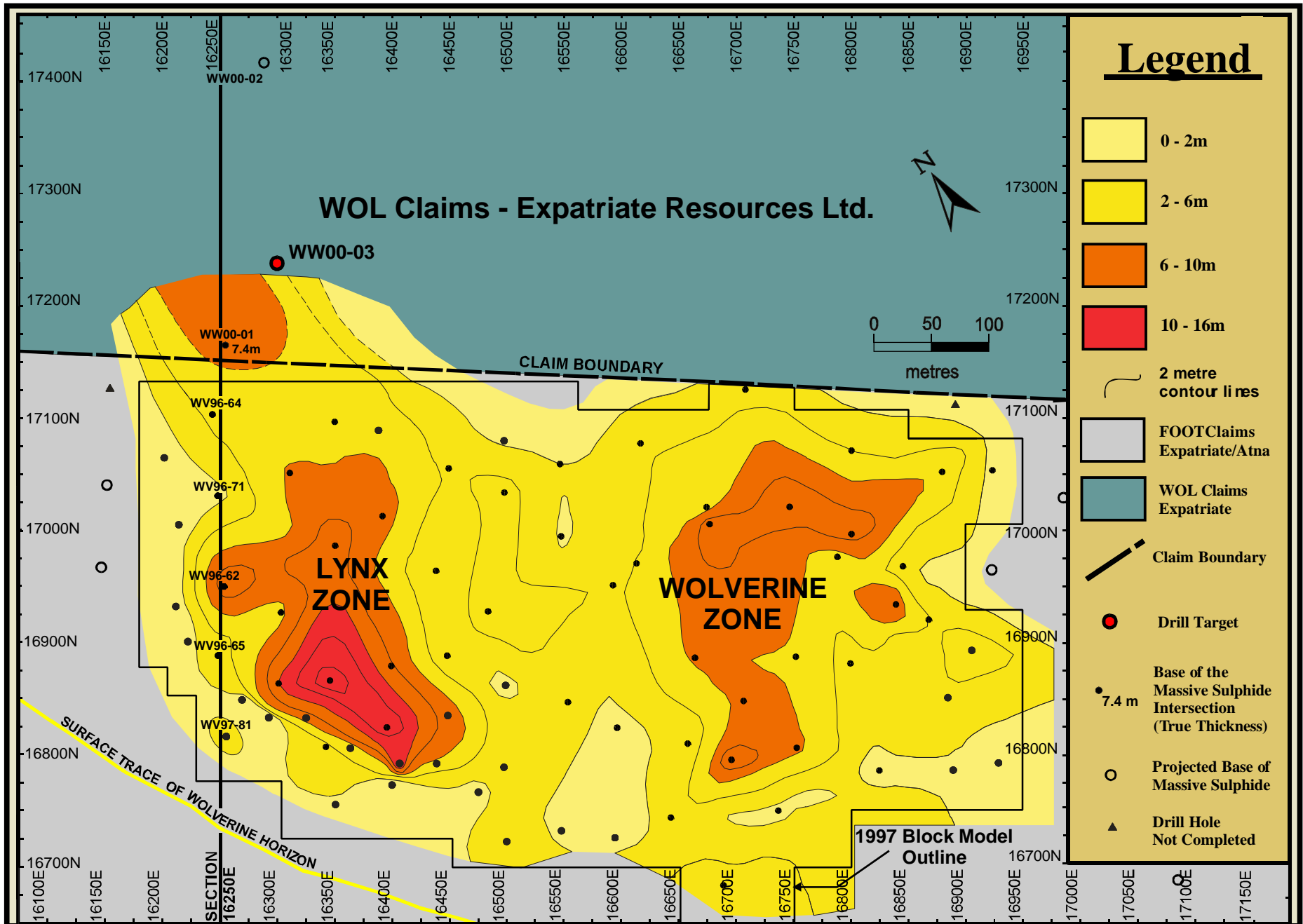
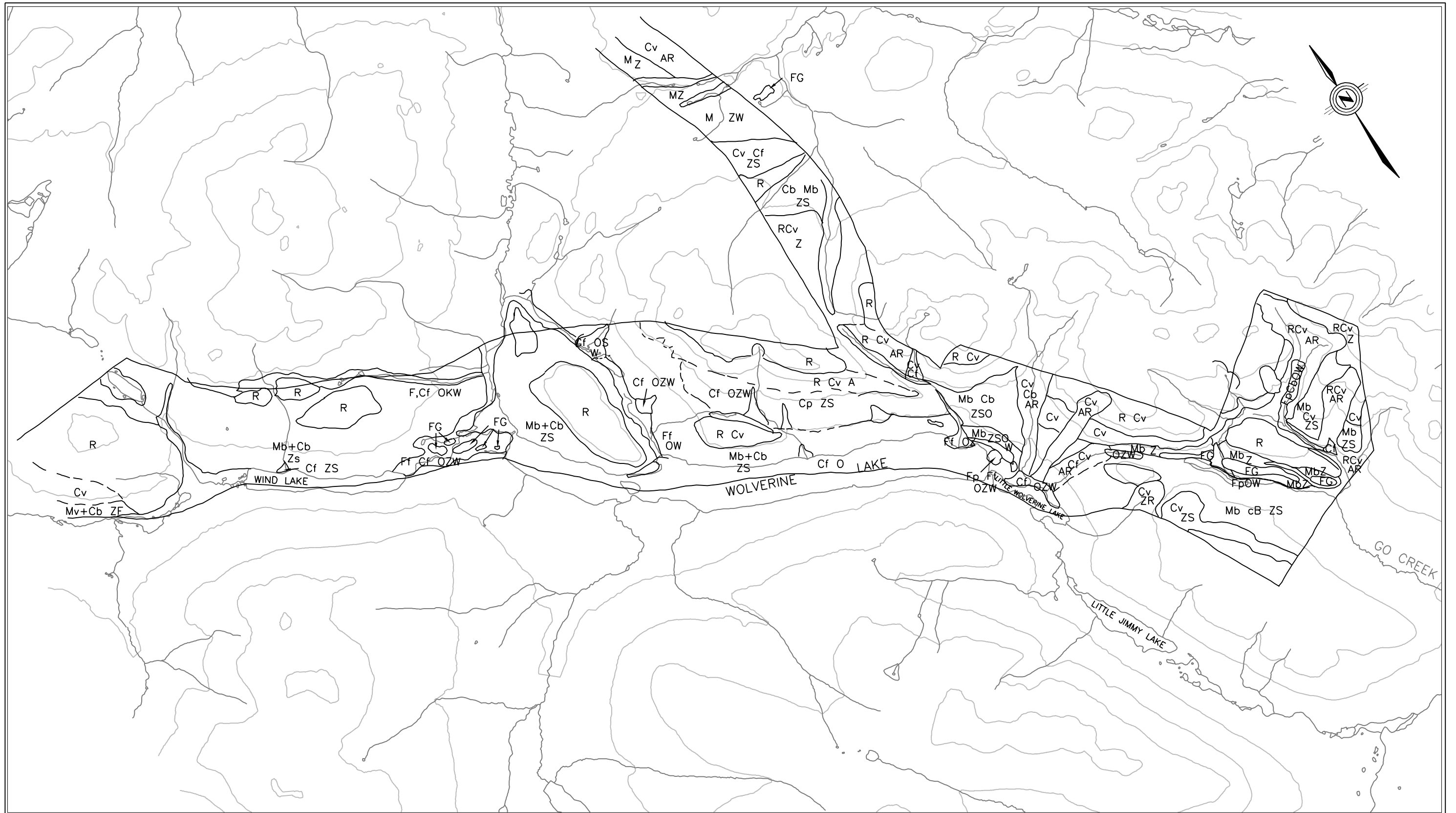
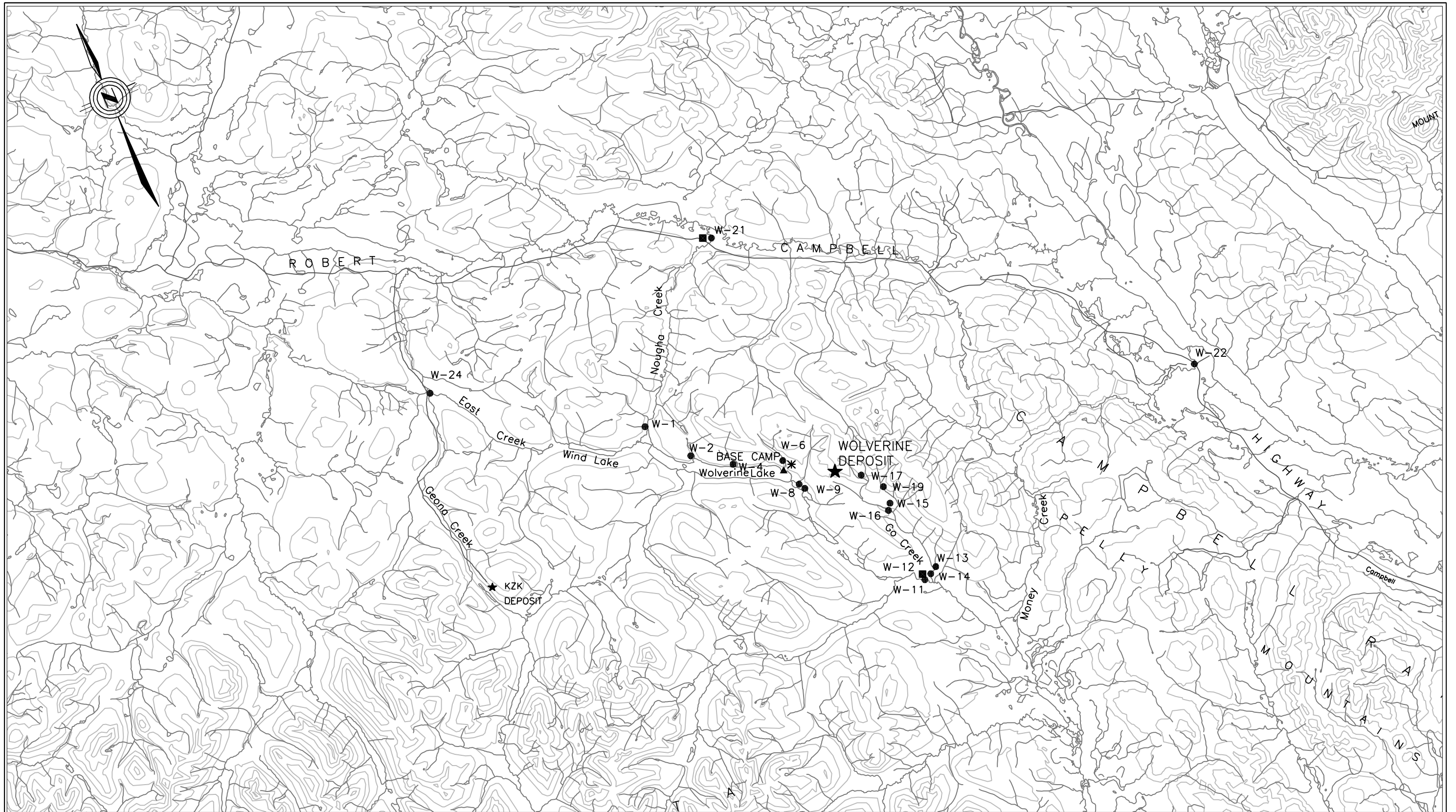


Figure 3.10: Wolverine Deposit Plan View

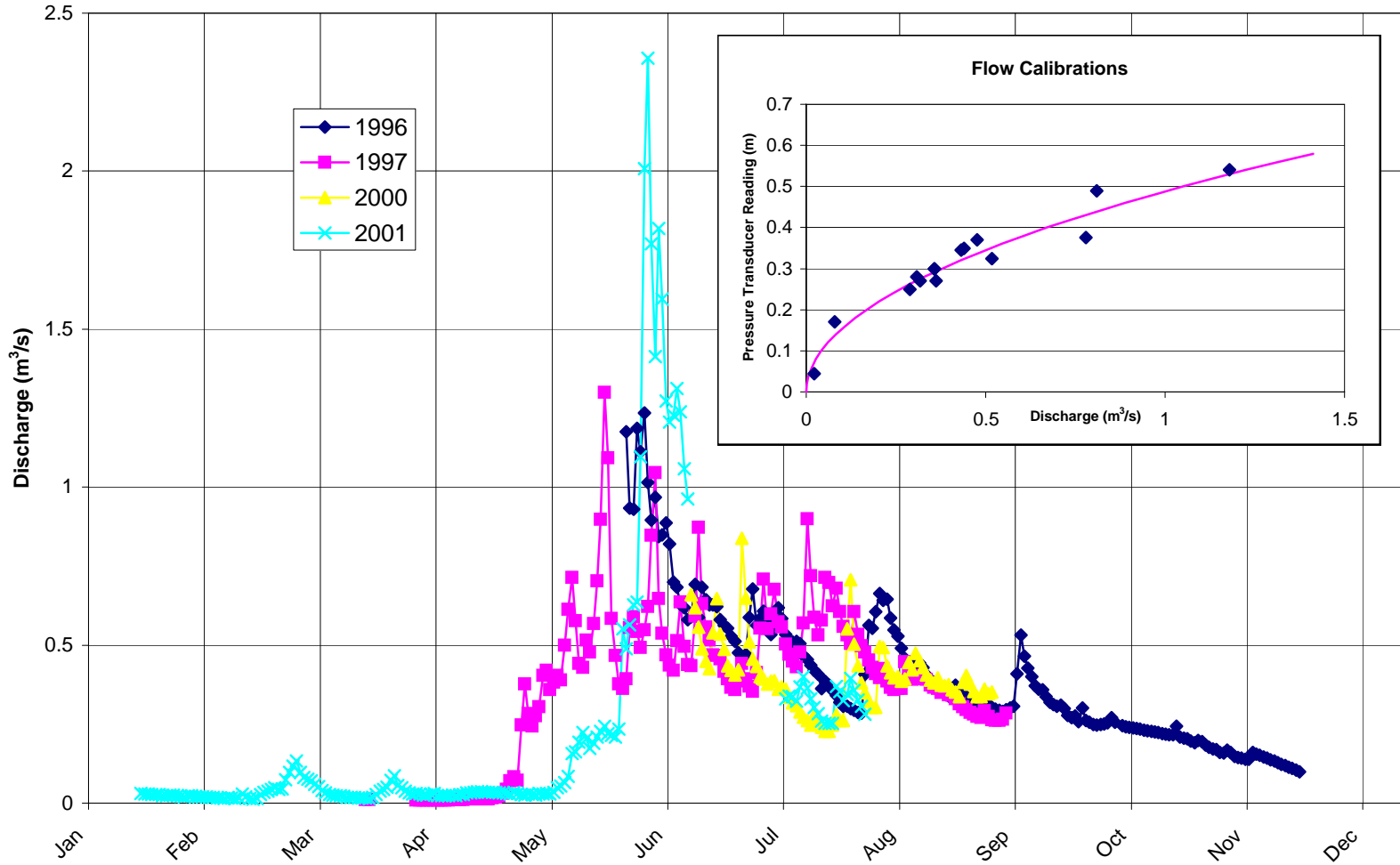


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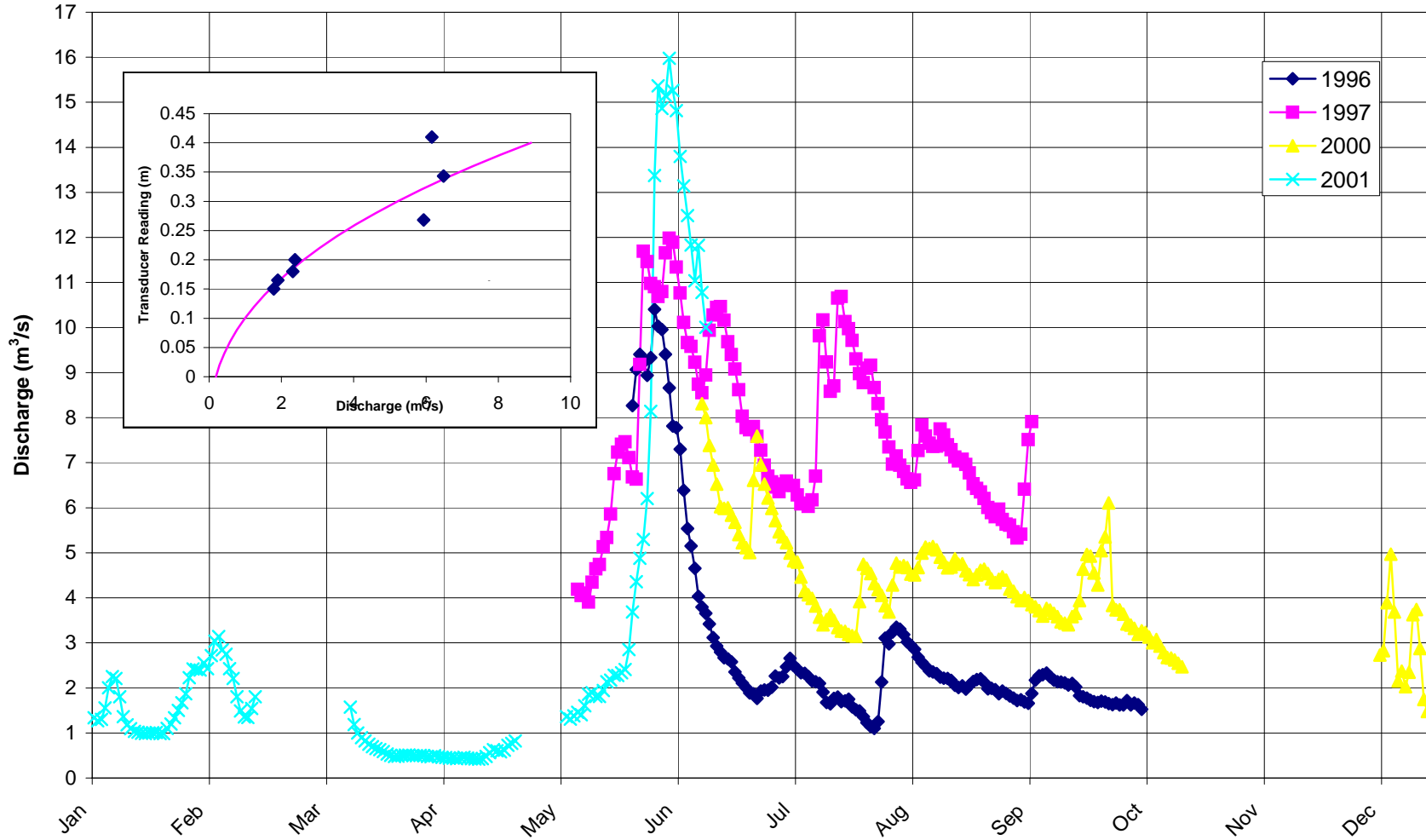
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- * MANUAL CLIMATE STATION
 - ▲ MANUAL CLIMATE STATION
 - AUTOMATIC HYDROLOGY STATIONS
 - MANUAL HYDROLOGY STATIONS

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WOLVERINE PROJECT
Figure 3.13
Stream Discharge at Station W12 (Go Creek)



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Figure 3.14
Stream Discharge at Station W21 (Nougha Creek)



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Figure 3.15
Stream Discharge at Station W9 (Little Wolverine Creek)

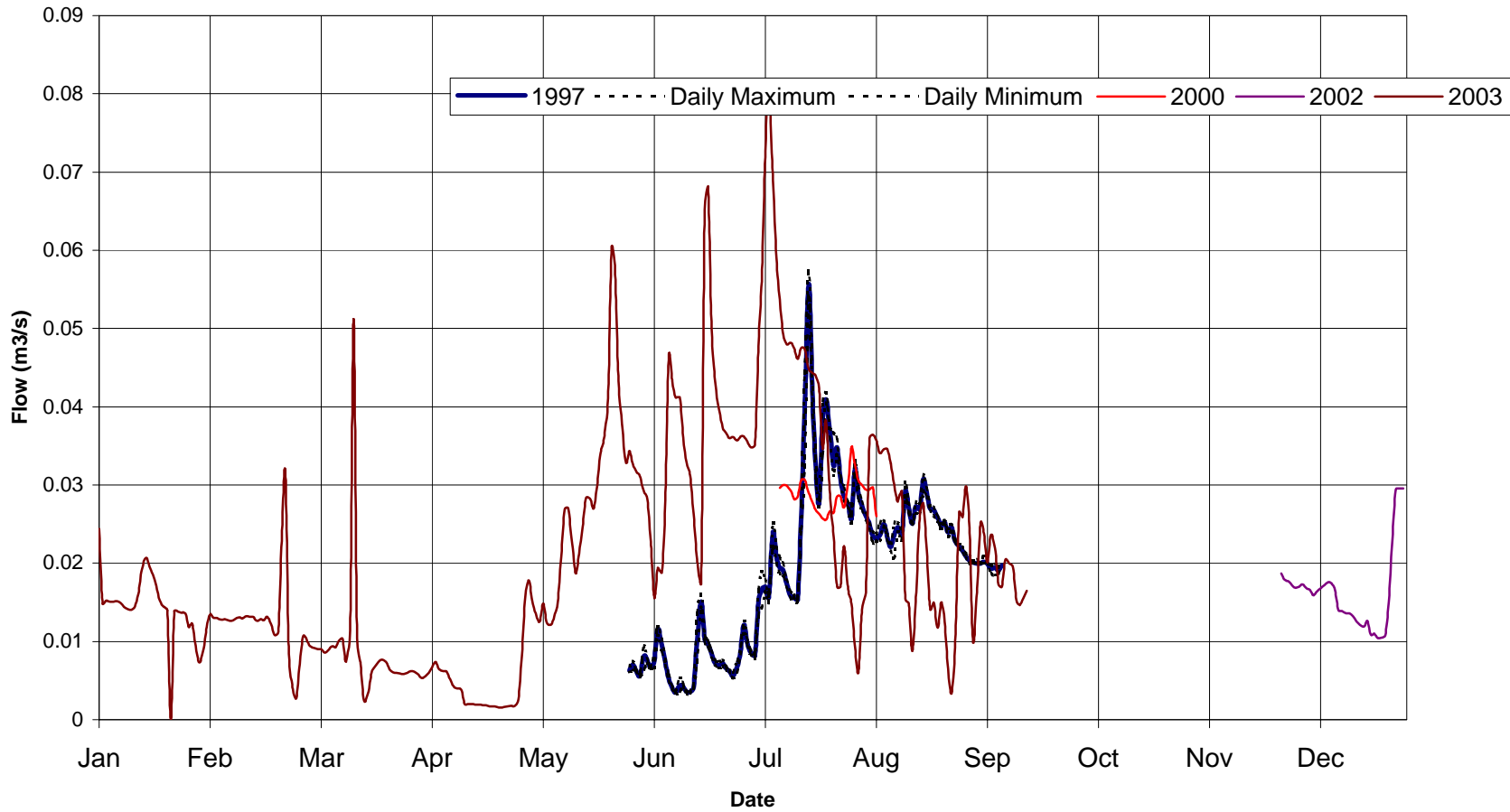
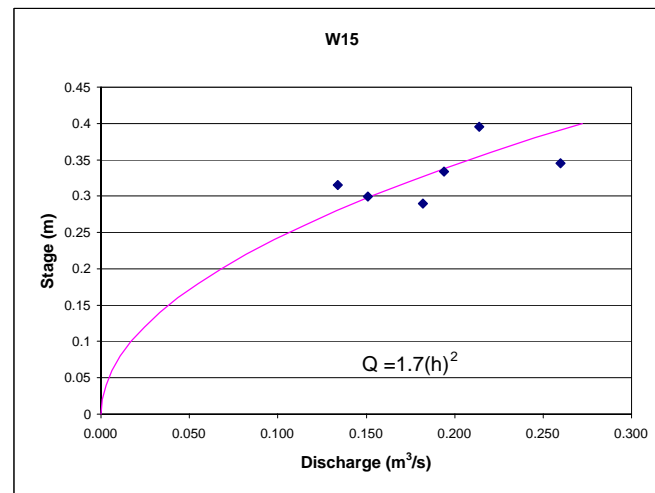
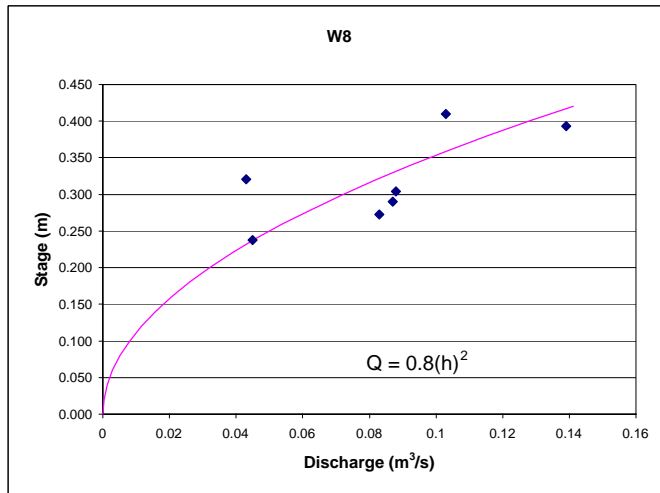
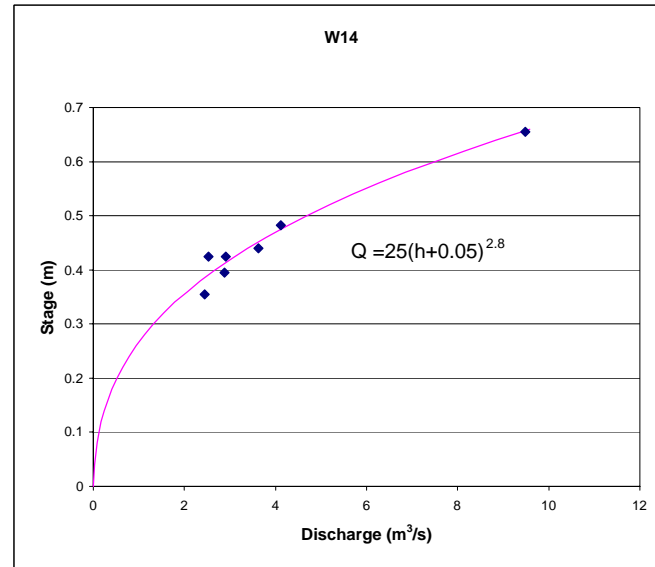
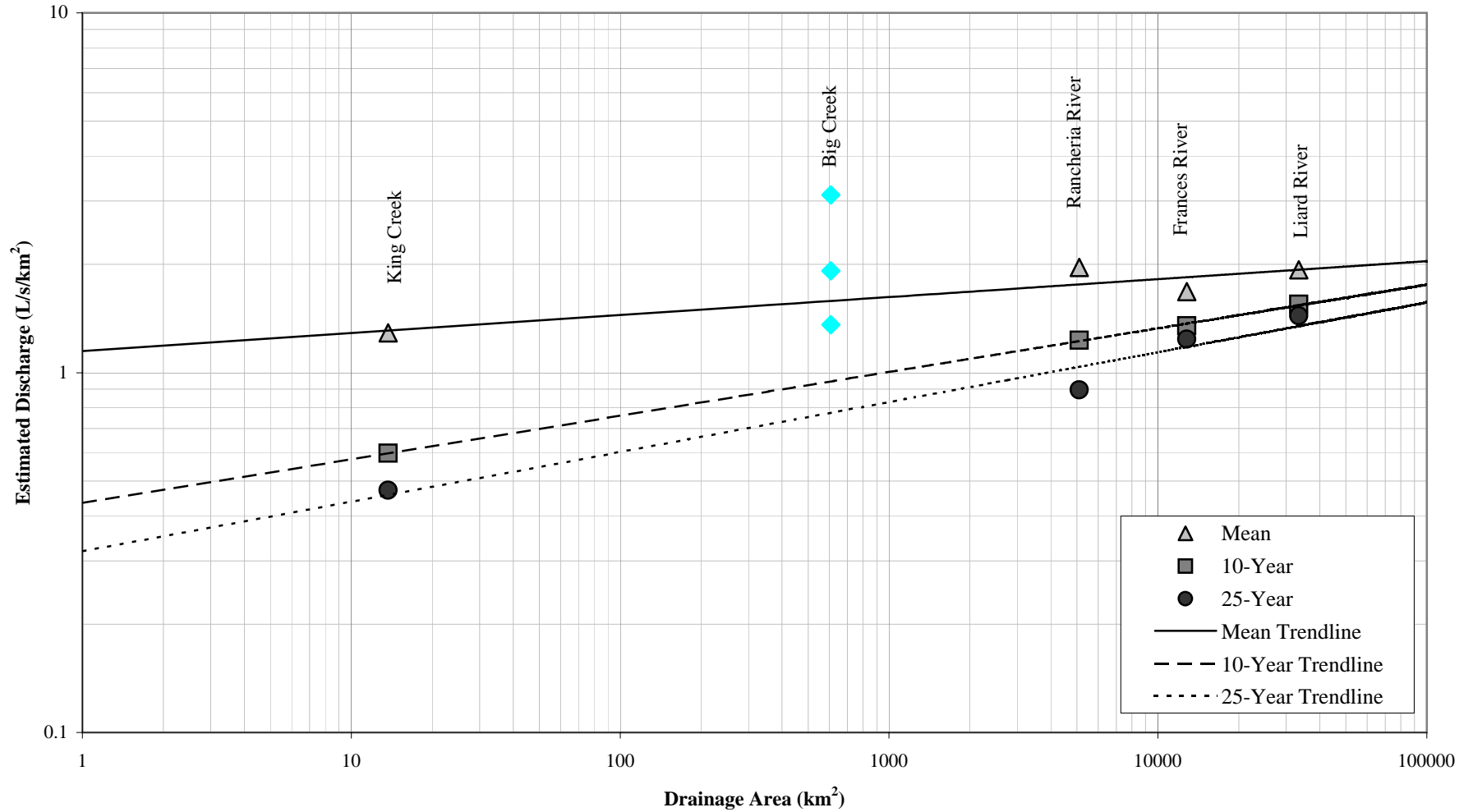


Figure 3.16
Stage-Discharge Calibrations at Manual Hydrology Stations - Wolverine Baseline Studies

Station ID No.	Station Name	Date	Discharge (m ³ /s)	Gauge Plate Reading (m)		
W8	Campbell Creek near the mouth	29-May-96	0.103	0.410		
		25-Jun-96	0.139	0.393		
		17-Jul-96	0.087	0.290		
		20-Aug-96	0.088	0.304		
		29-May-97	0.043	0.321		
		15-Jul-97	0.083	0.273		
		11-Sep-97	0.045	0.238		
		25-Mar-96	0.34	n/a		
W14	Money Creek below Go Creek	29-May-96	9.48	0.655		
		15-Jul-96	2.88	0.395		
		6-Aug-96	3.62	0.44		
		21-Aug-96	2.44	0.355		
		26-Nov-96	0.326			
		28-May-97	2.528	0.425		
		14-Jul-97	4.123	0.482		
		12-Sep-97	2.912	0.425		
		W15	Hawkowl Creek near the mouth	29-May-96	0.260	0.345
				25-Jun-96	0.214	0.395
21-Jul-96	0.151			0.299		
24-Aug-96	0.182			0.290		
15-Jul-97	0.194			0.334		
12-Sep-97	0.134			0.315		



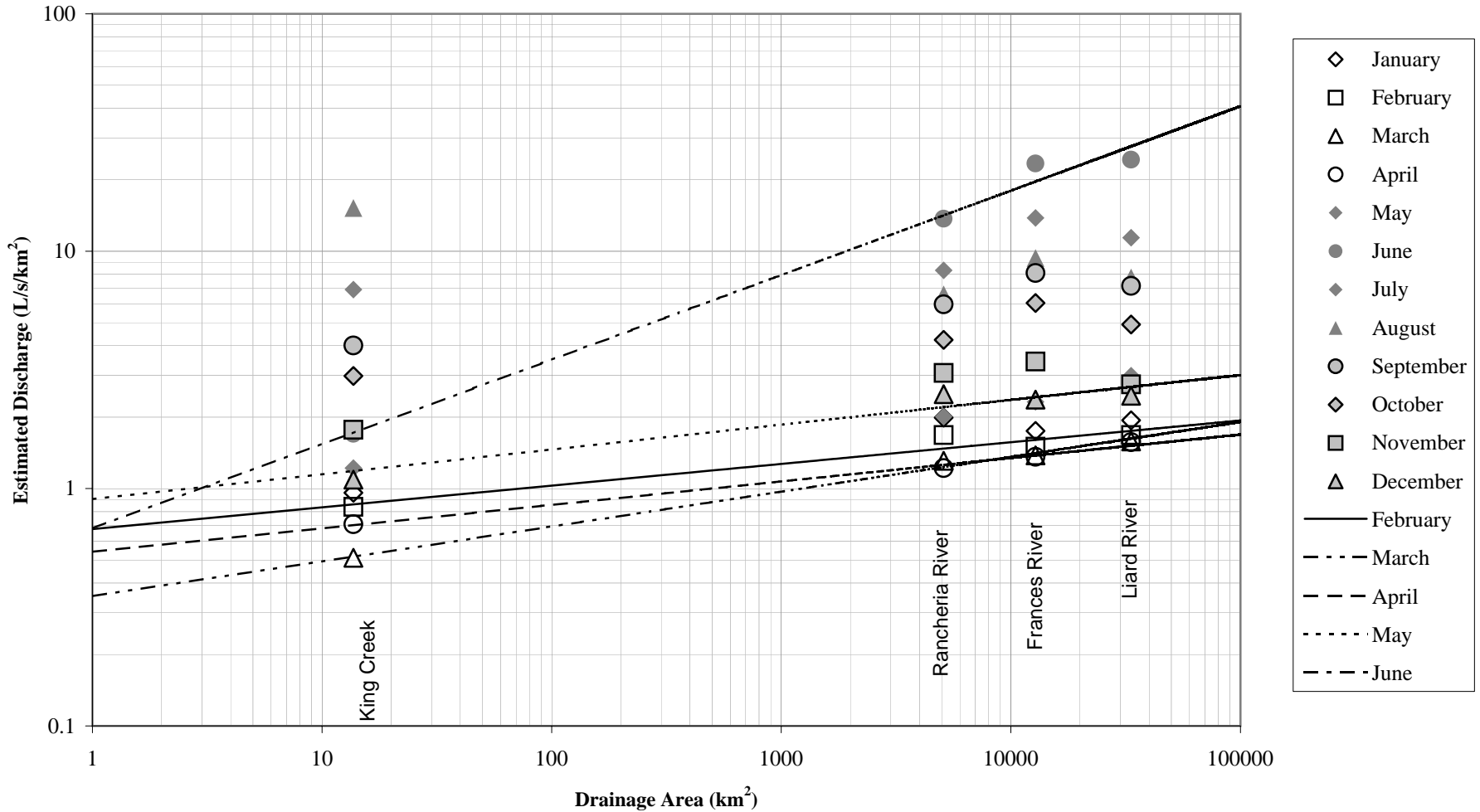
EXPATRIATE RESOURCES LTD.
 WOLVERINE PROJECT
 Figure 3.18
 Annual 10-Year 7-Day Low Flow Analysis



Source: Water Survey of Canada Data Input to Fframe Flood Frequency Analysis Program

EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 3.19
Monthly 10-Year 7-Day Low Flow Estimates

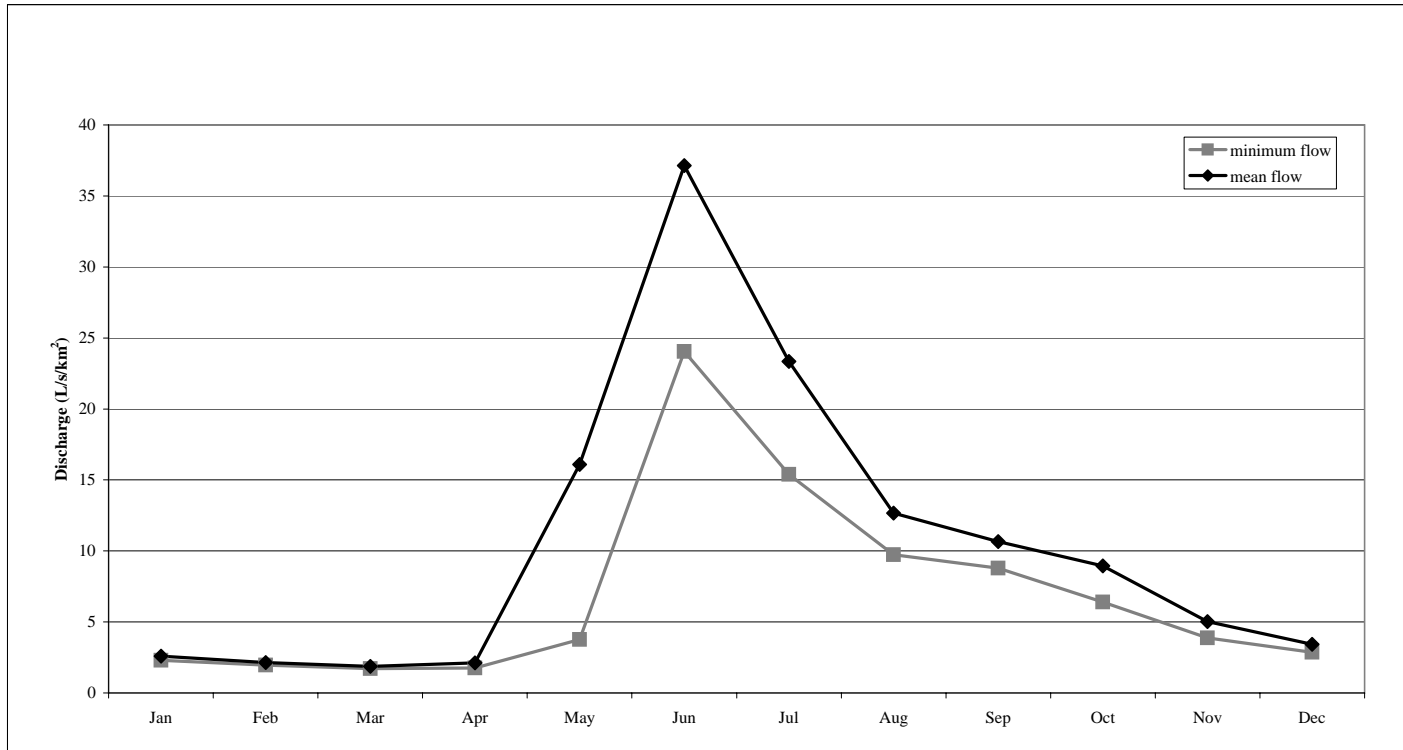


Source: Water Survey of Canada Data Input to Flame Flood Frequency Analysis Program

**EXPATRIATE RESOURCES LTD.
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**Figure 3.20
Normal Variations in Monthly Flows**

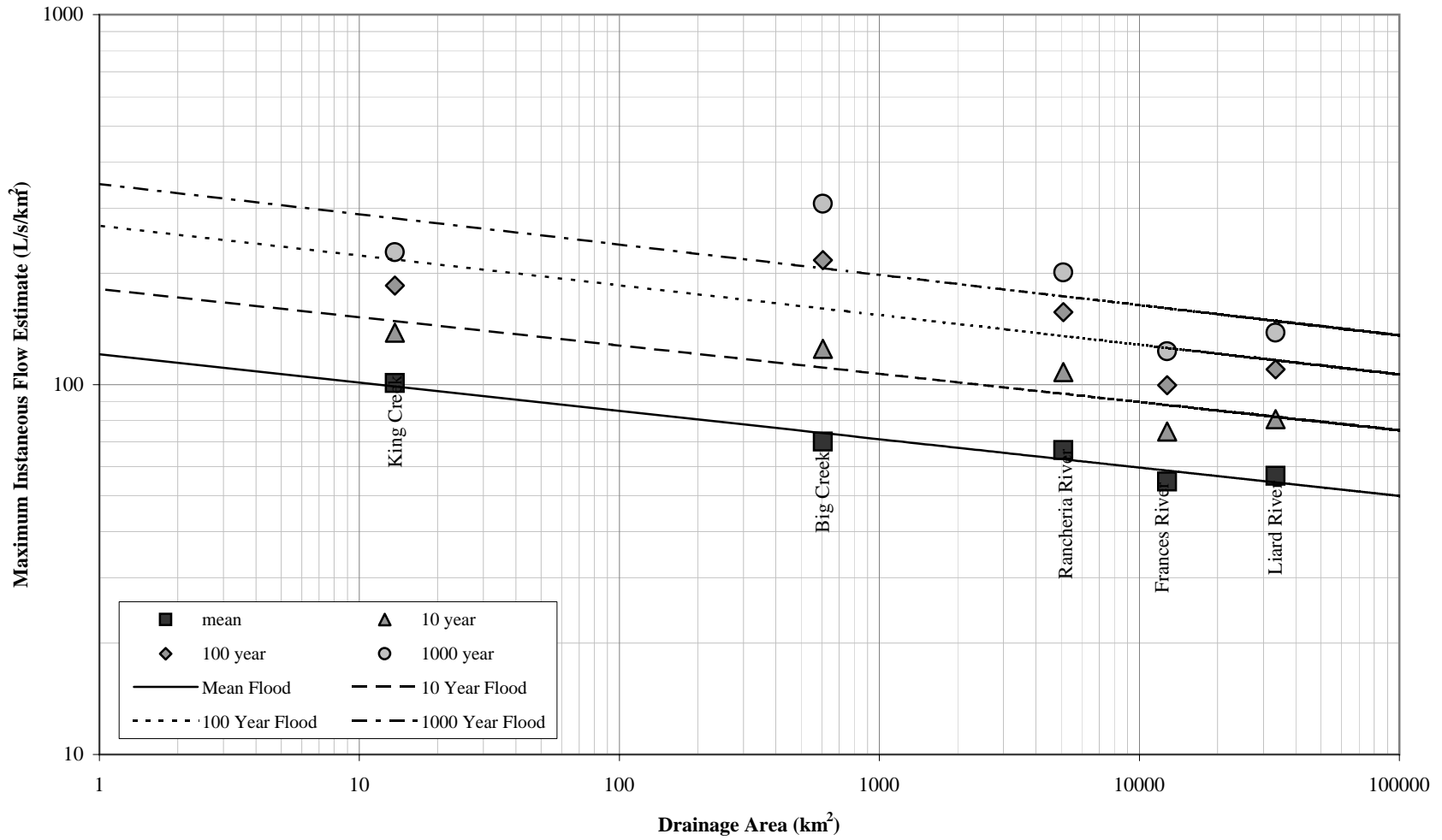
Station ID	Station Name	Drainage Area (km ²)	Years of Record	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
10AA004	Rancheria River near the Mouth	5100	13--15	0.903	0.926	0.916	0.844	0.257	0.632	0.662	0.781	0.838	0.664	0.772	0.862
10AA001	Liard River at Upper Crossing	33400	34	0.877	0.928	0.949	0.799	0.277	0.699	0.706	0.804	0.845	0.691	0.78	0.852
10AB001	Frances River near Watson Lake	12800	33	0.872	0.92	0.952	0.851	0.237	0.719	0.708	0.793	0.846	0.741	0.755	0.835
10AB003	King Creek at km 20.9 Nahanni Range Road	13.7	11--14	0.897	0.889	0.831	0.831	0.165	0.539	0.562	0.699	0.771	0.764	0.777	0.799
	Mean			0.887	0.916	0.912	0.831	0.234	0.647	0.660	0.769	0.825	0.715	0.771	0.837



Source: Water Survey of Canada Data Input to Flame Flood Frequency Analysis Program

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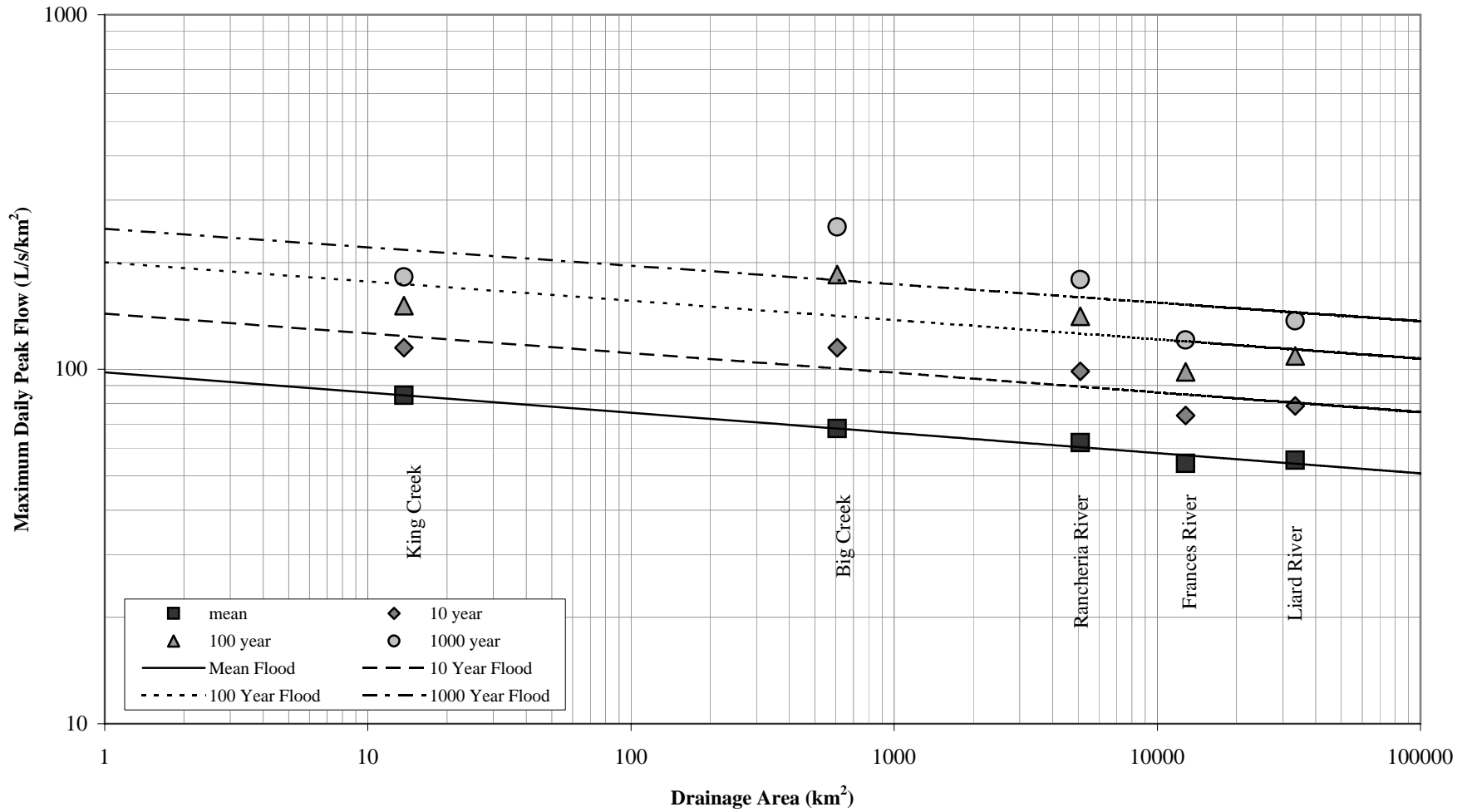
Figure 3.21
Maximum Instantaneous Flood



Source: Water Survey of Canada Data Input to Fframe Flood Frequency Analysis

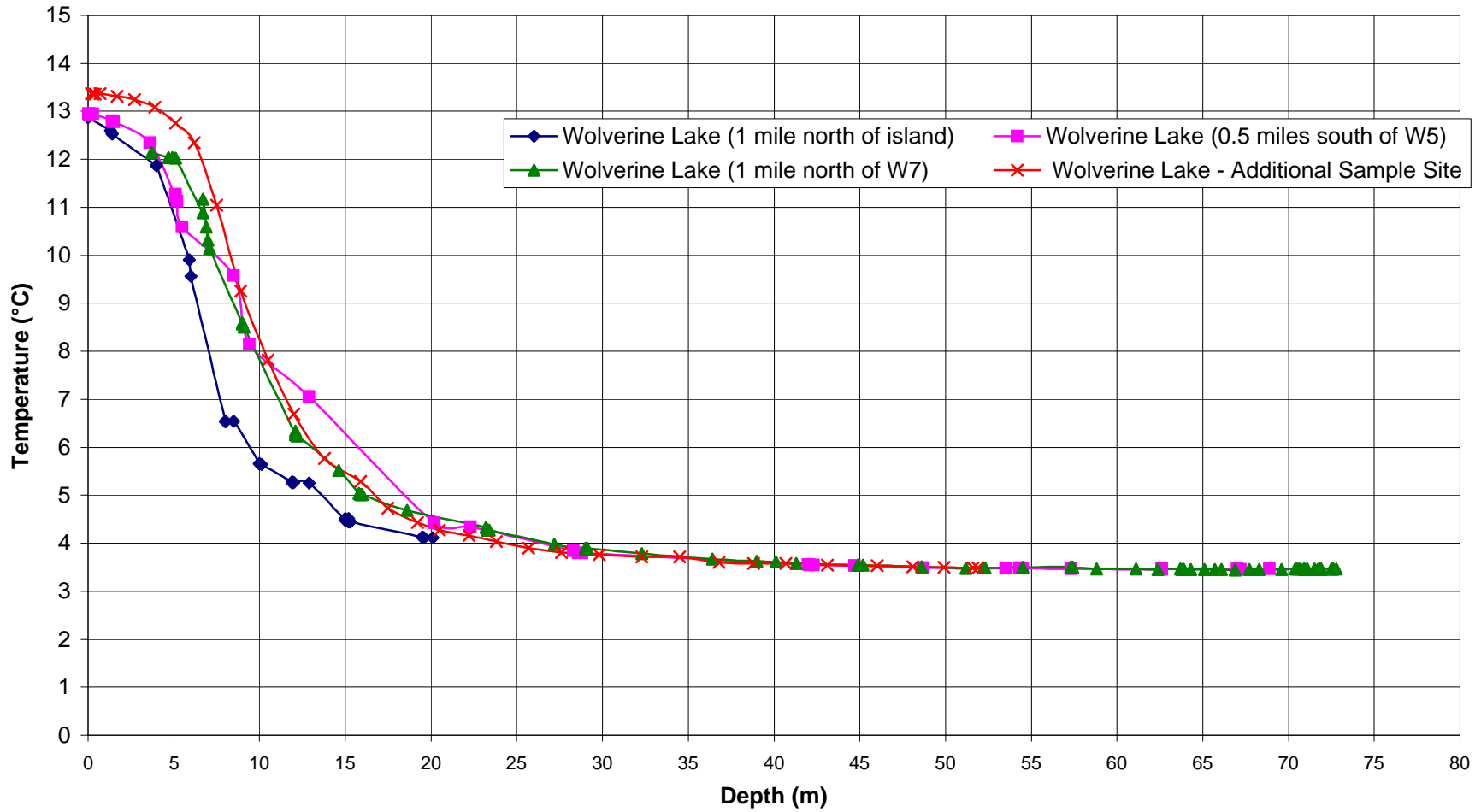
EXPATRIATE RESOURCES LTD.
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Figure 3.22
Daily Maximum Flood Estimates

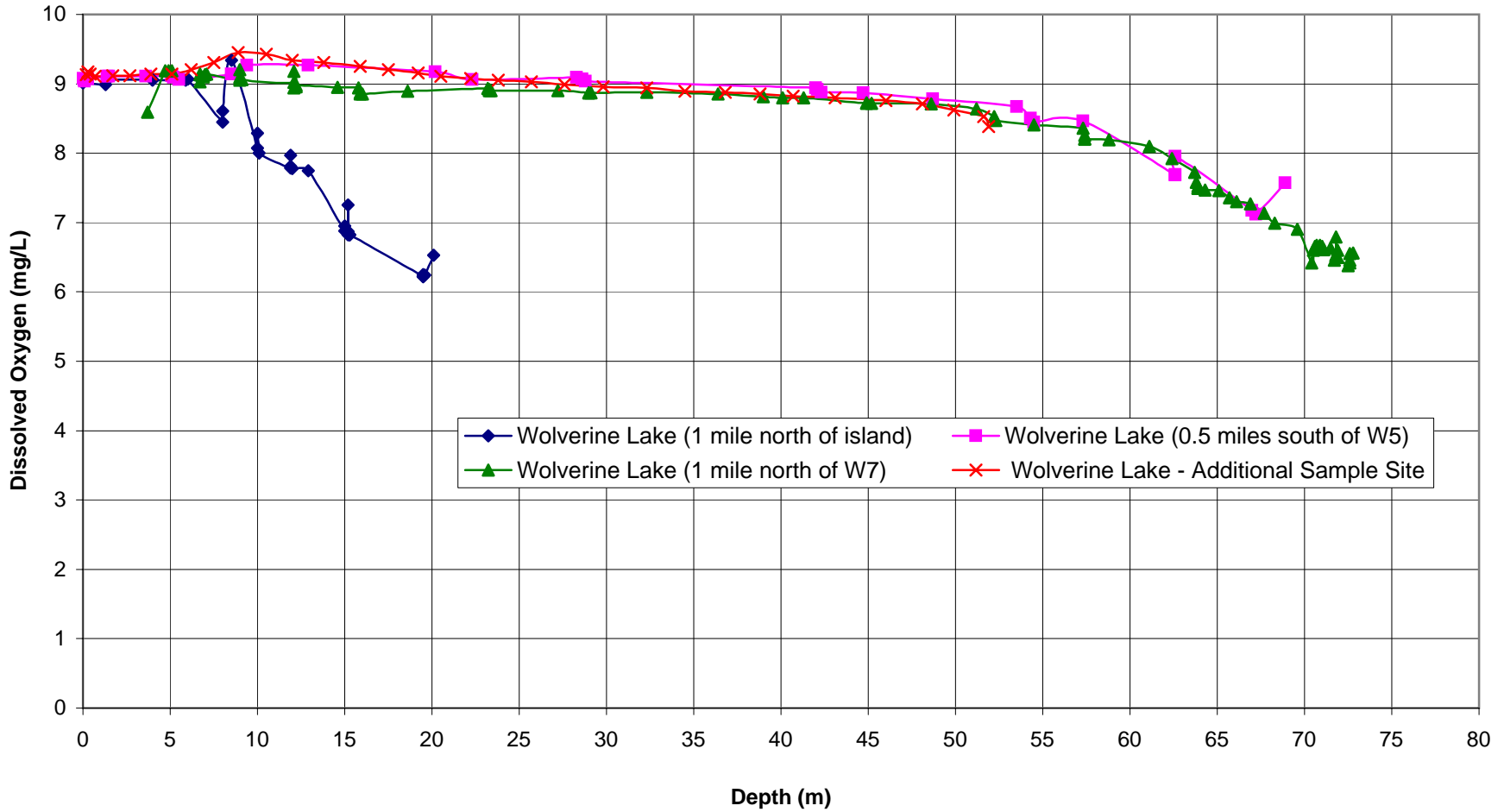


Source: Water Survey of Canada Data Input to Ffame Flood Frequency Analysis Program

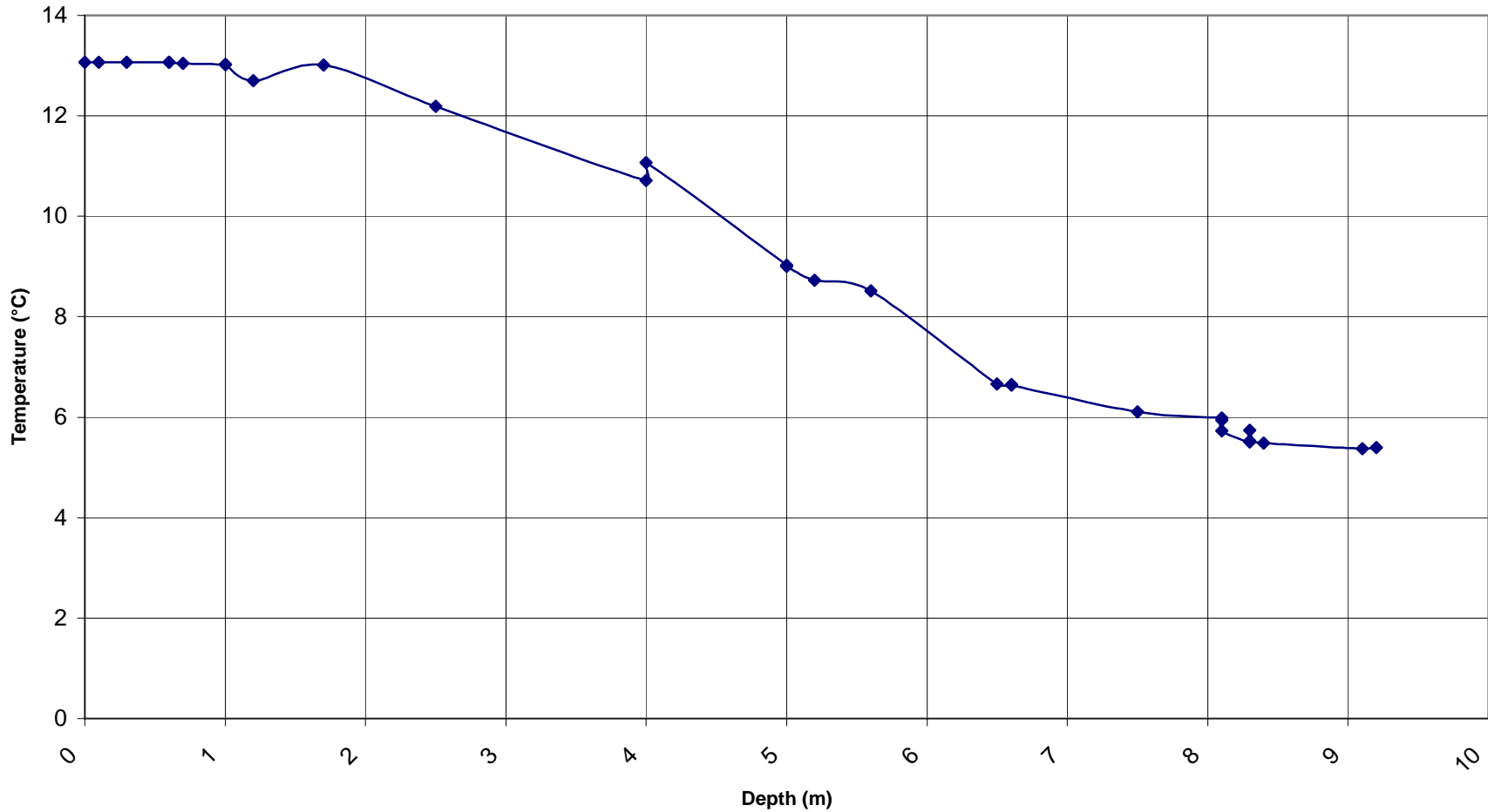
EXPATRIATE RESOURCES
WOLVERINE PROJECT
Figure 3.23
Temperature Profile of Wolverine Lake



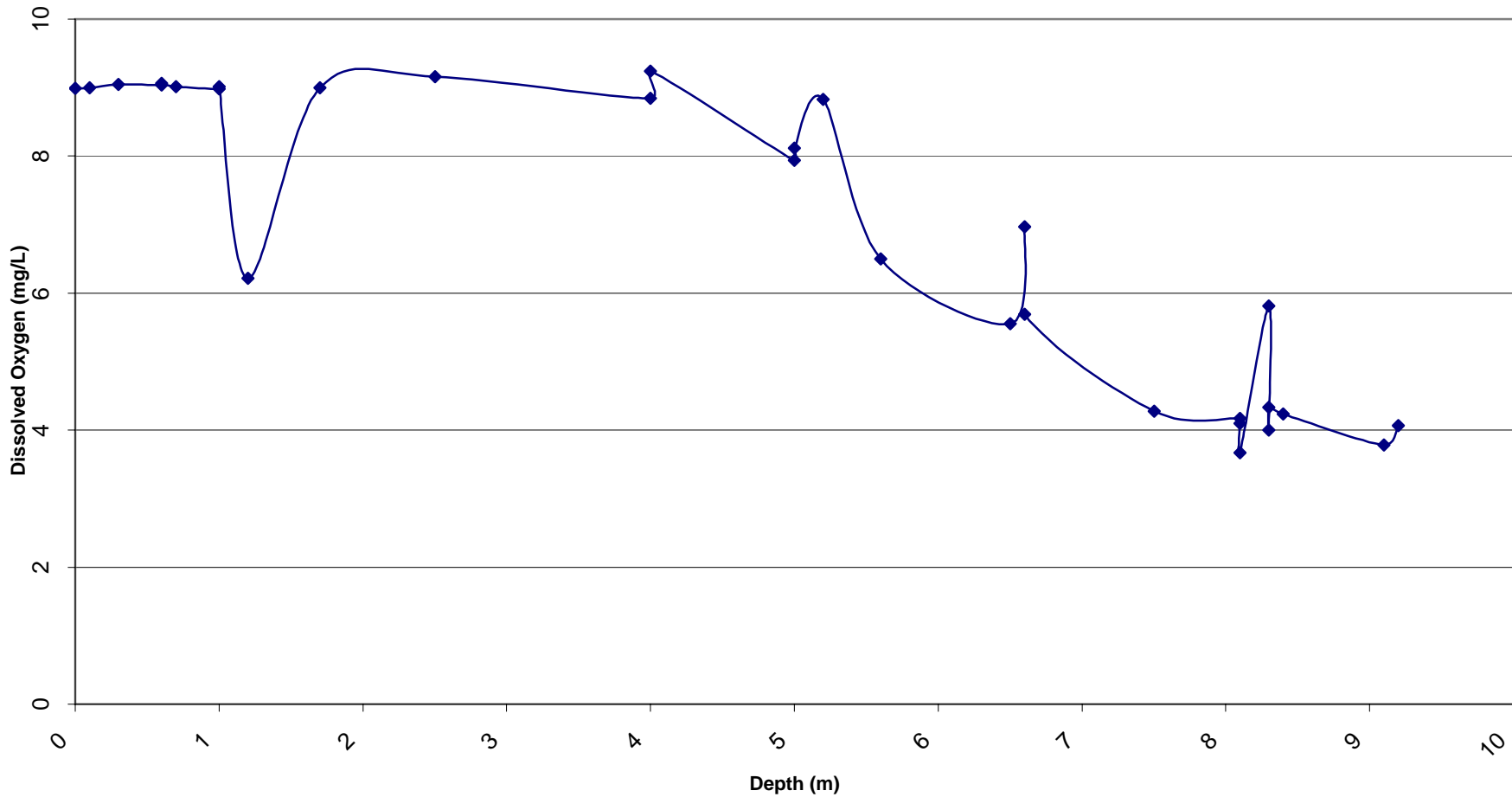
EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT
Figure 3.24
Dissolved Oxygen Profile
of Wolverine Lake

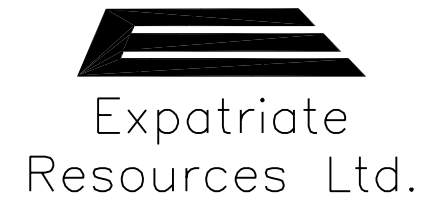
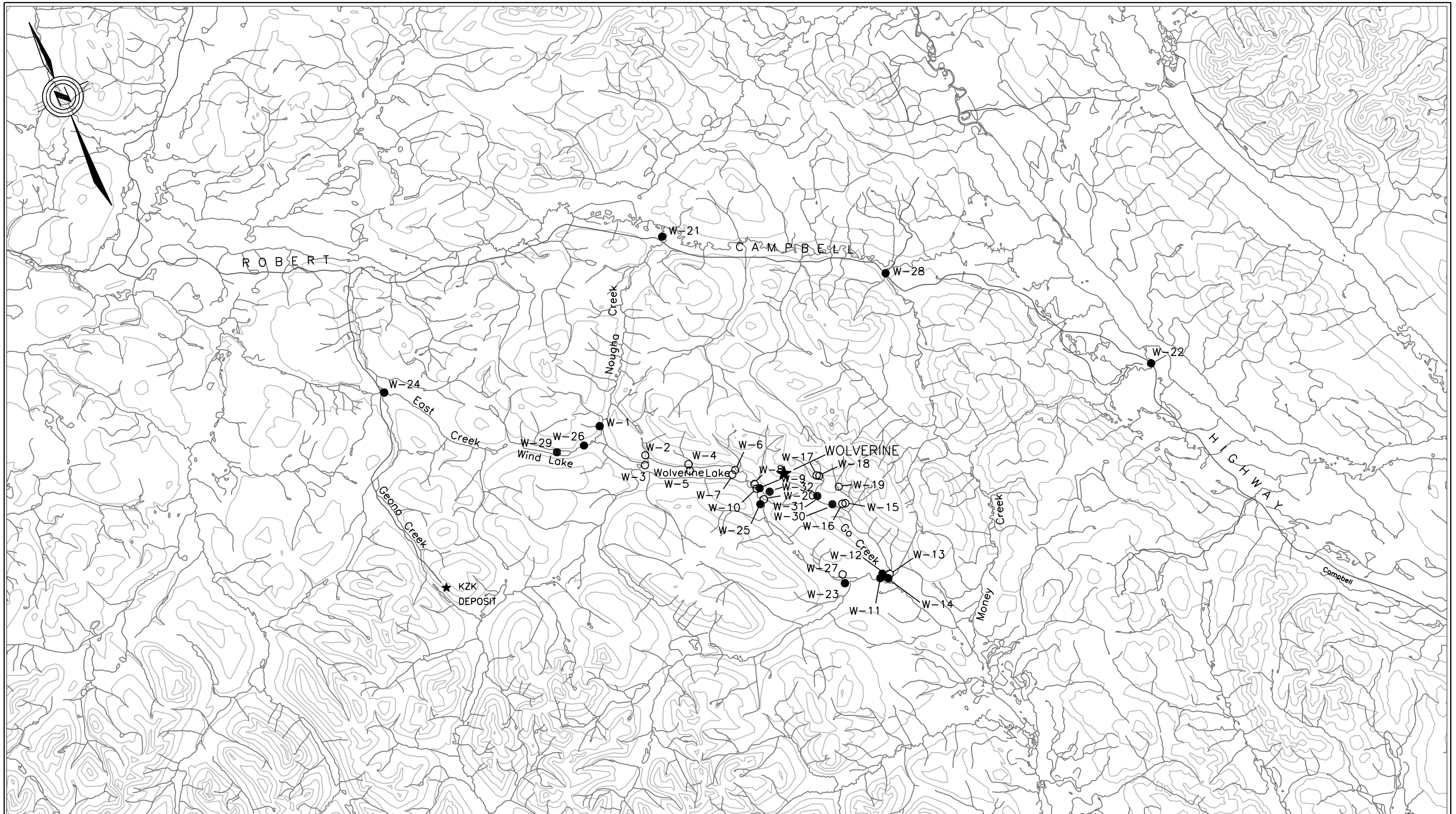


EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT
Figure 3.25
Temperature Profile of Little Wolverine Lake



EXPATRIATE RESOURCES
WOLVERINE PROJECT
Figure 3.26
Dissolved Oxygen Profile of Little Wolverine Lake





LEGEND: ○ COMPREHENSIVE MONITORING STATIONS
● COMPREHENSIVE AND ROUTINE MONITORING STATIONS

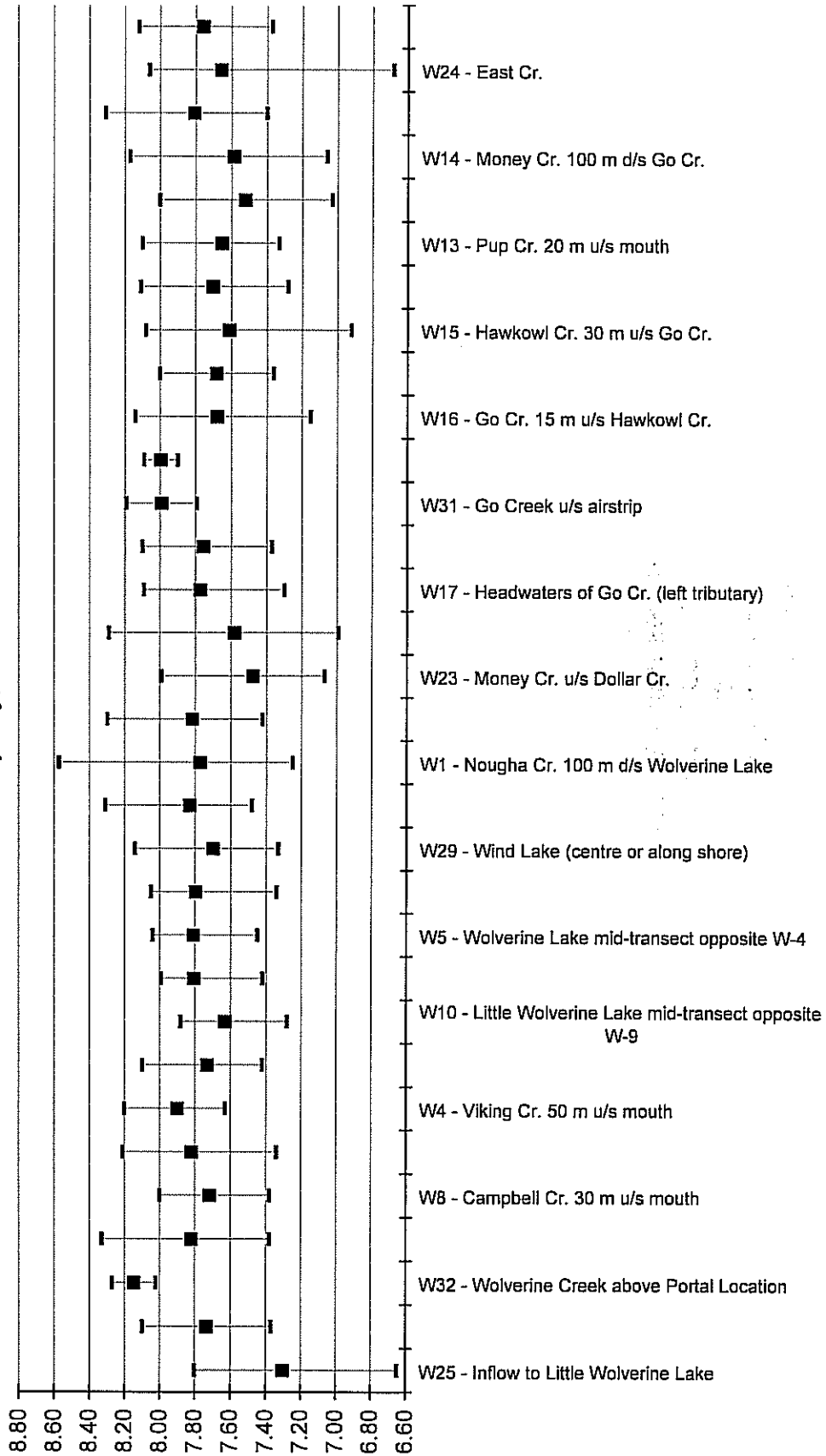
EXPATRIATE RESOURCES LIMITED		WOLVERINE LAKE PROPERTY	
BASELINE BIOPHYSICAL SURVEY PROGRAM			
LOCATIONS OF SURFACE WATER QUALITY STATIONS IN THE AREA SURROUNDING WOLVERINE LAKE			
ADAPTED FROM:	ACCESS MINING CONSULTANTS LTD.		
SCALE: 1:250,000	DATE: 10/14/04	FILE:	FIN-3_27



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Figure 3.28
Mean and Range of pH at Water Quality Sites,
Wolverine Property, 1995-2001

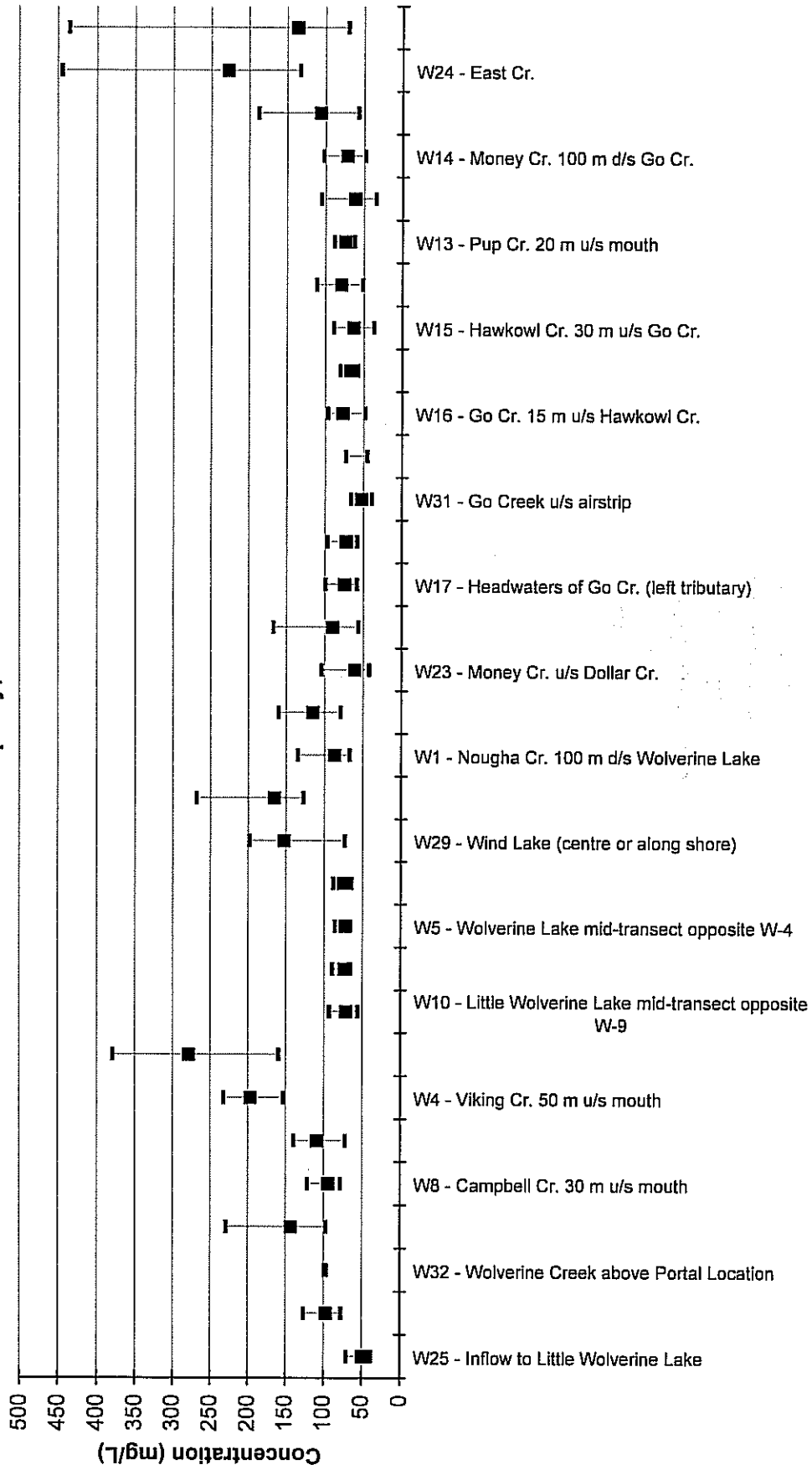




Gartner Lee

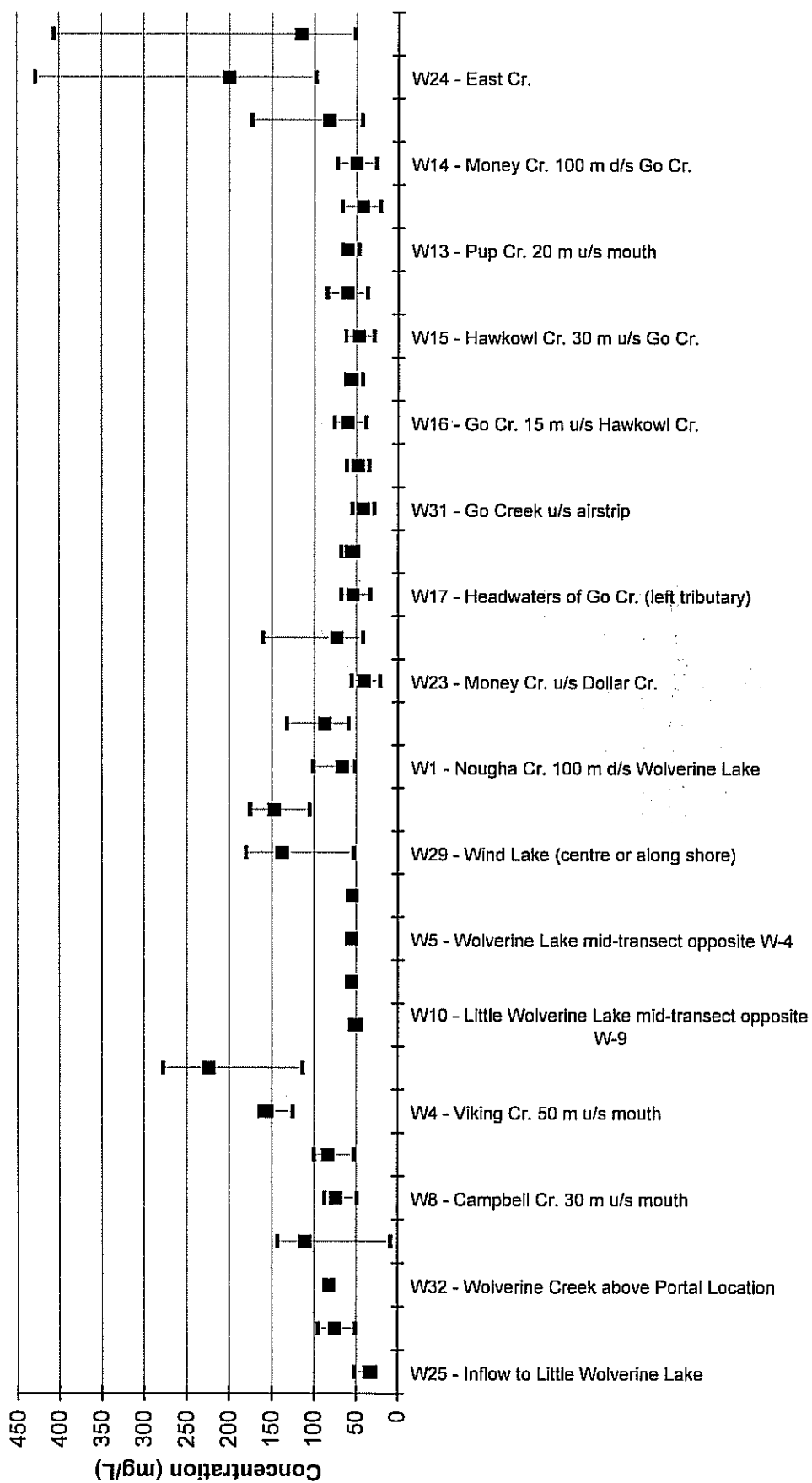
EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 3.29
Mean and Range of Total Dissolved Solids Measured at Water Quality Sites,
Wolverine Property, 1995-2001



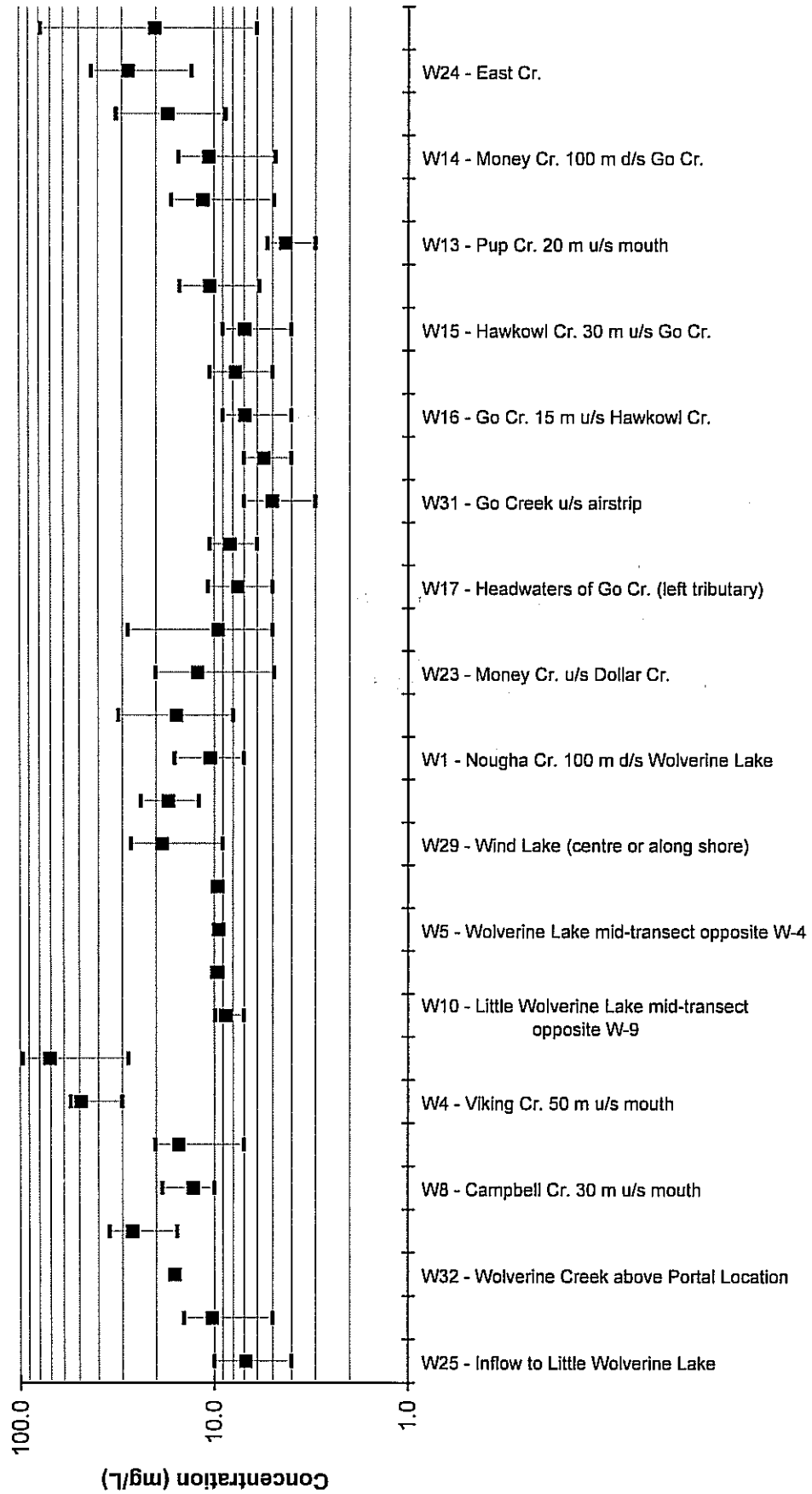
**EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT**

**Figure 3.30
Mean and Range of Total Hardness Measured at Water Quality Sites,
Wolverine Property, 1995-2001**



EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT

Figure 3.31
Mean and Range of Sulphates at Water Quality Sites,
Wolverine Property, 1995-2001

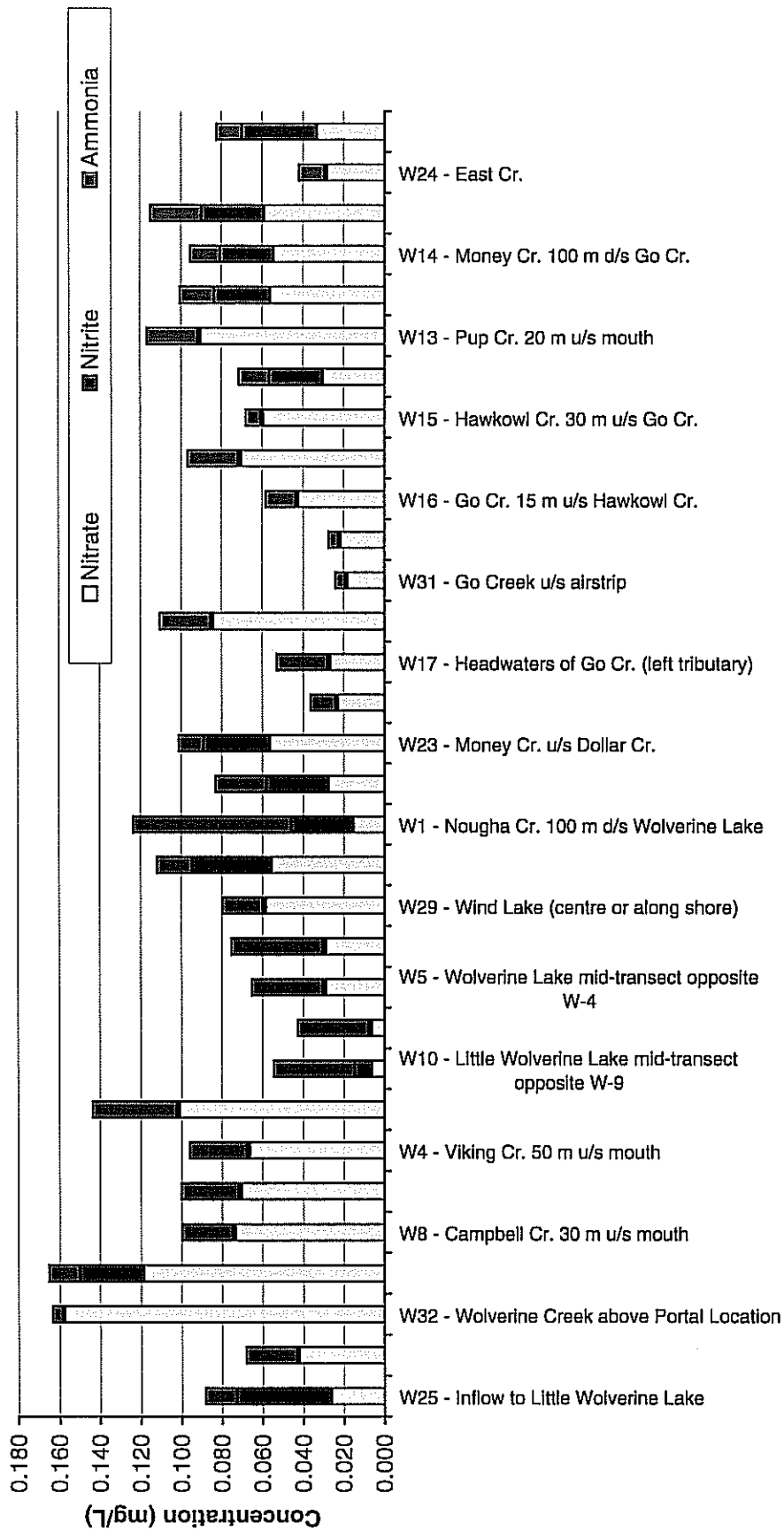




Gartner Lee

**EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT**

**Figure 3.32
Summary Averages of Nutrients at Water Quality Sites,
Wolverine Property, 1995-2001**

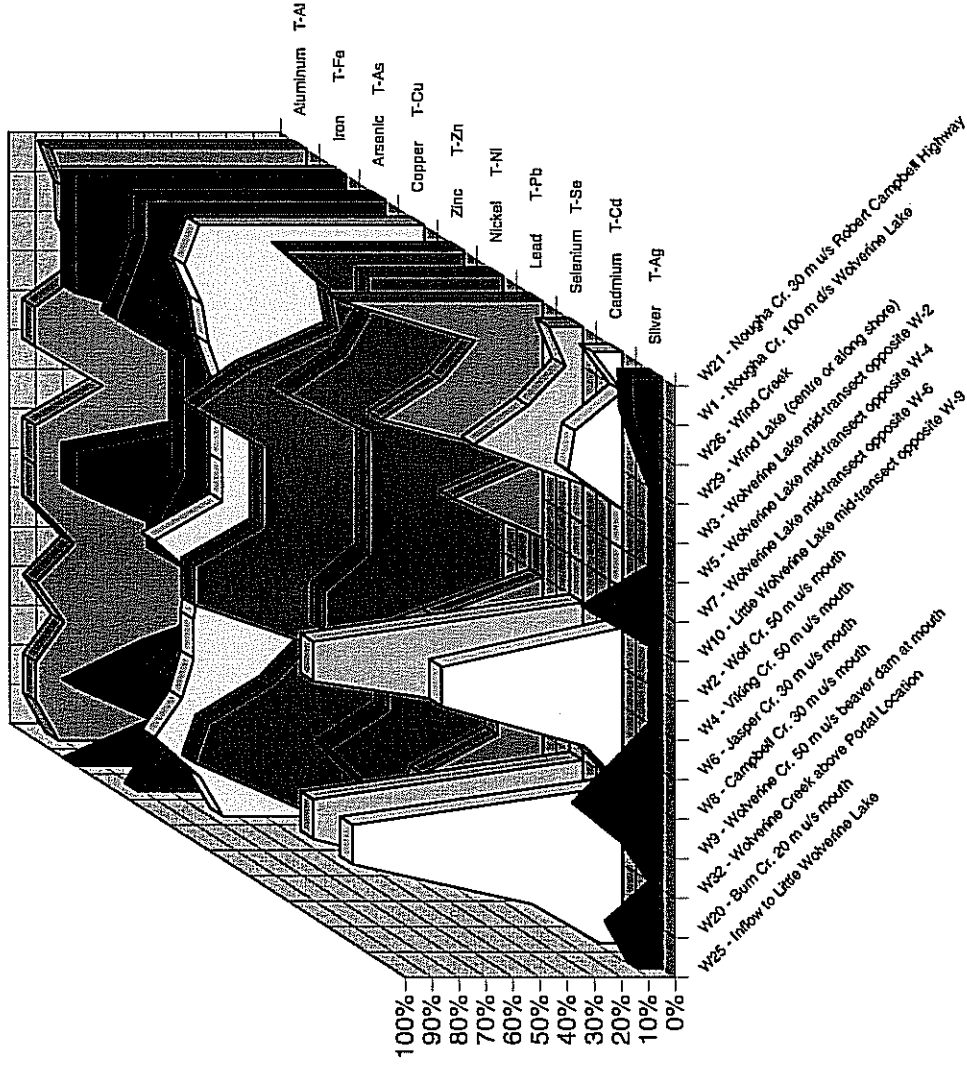




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Figure 3.33

% Detection of Heavy Metals in Water Samples from the Wolverine Drainage

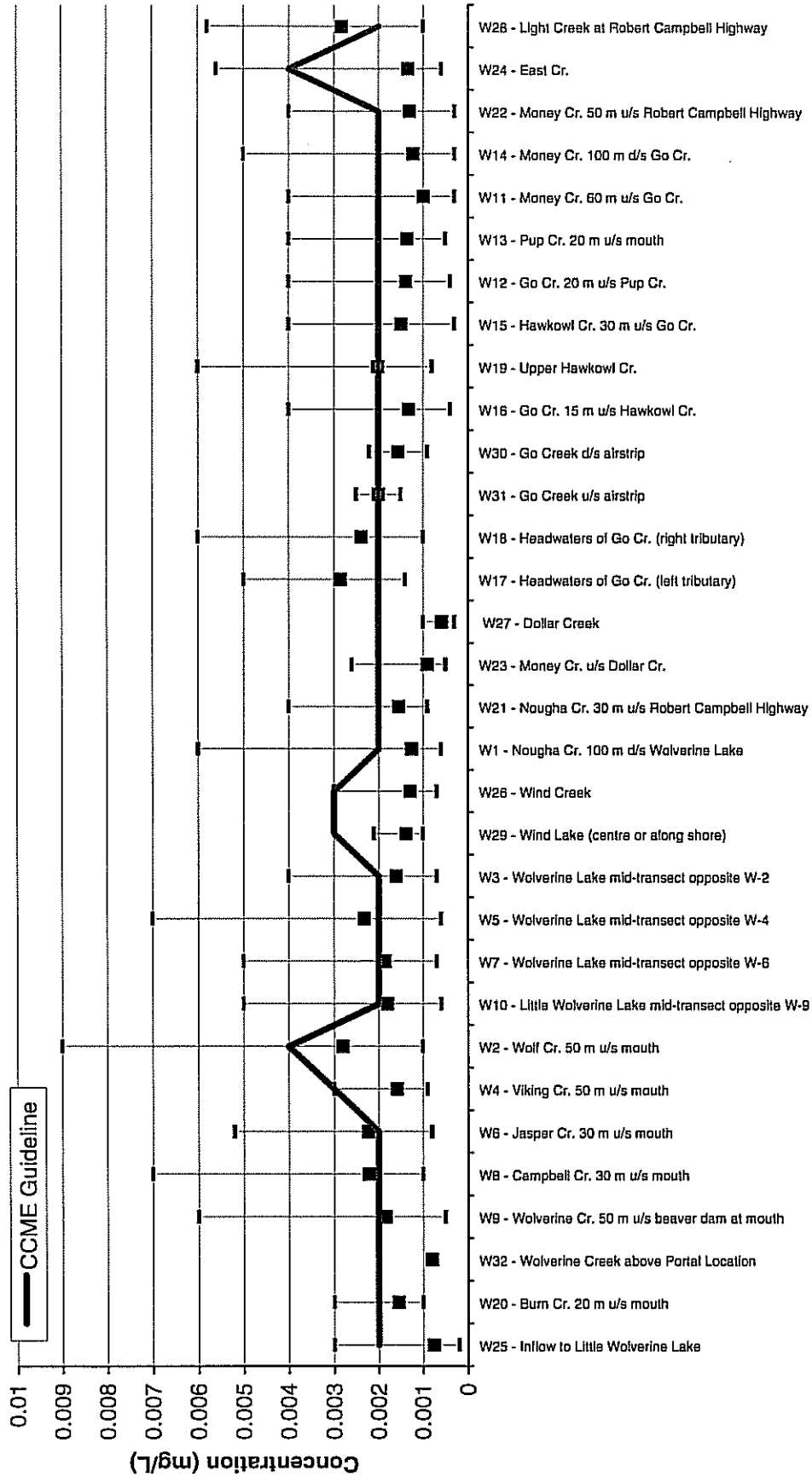




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Figure 3.34
Mean and Range of Copper Measured at Water Quality Sites,
Wolverine Property, 1995-2001

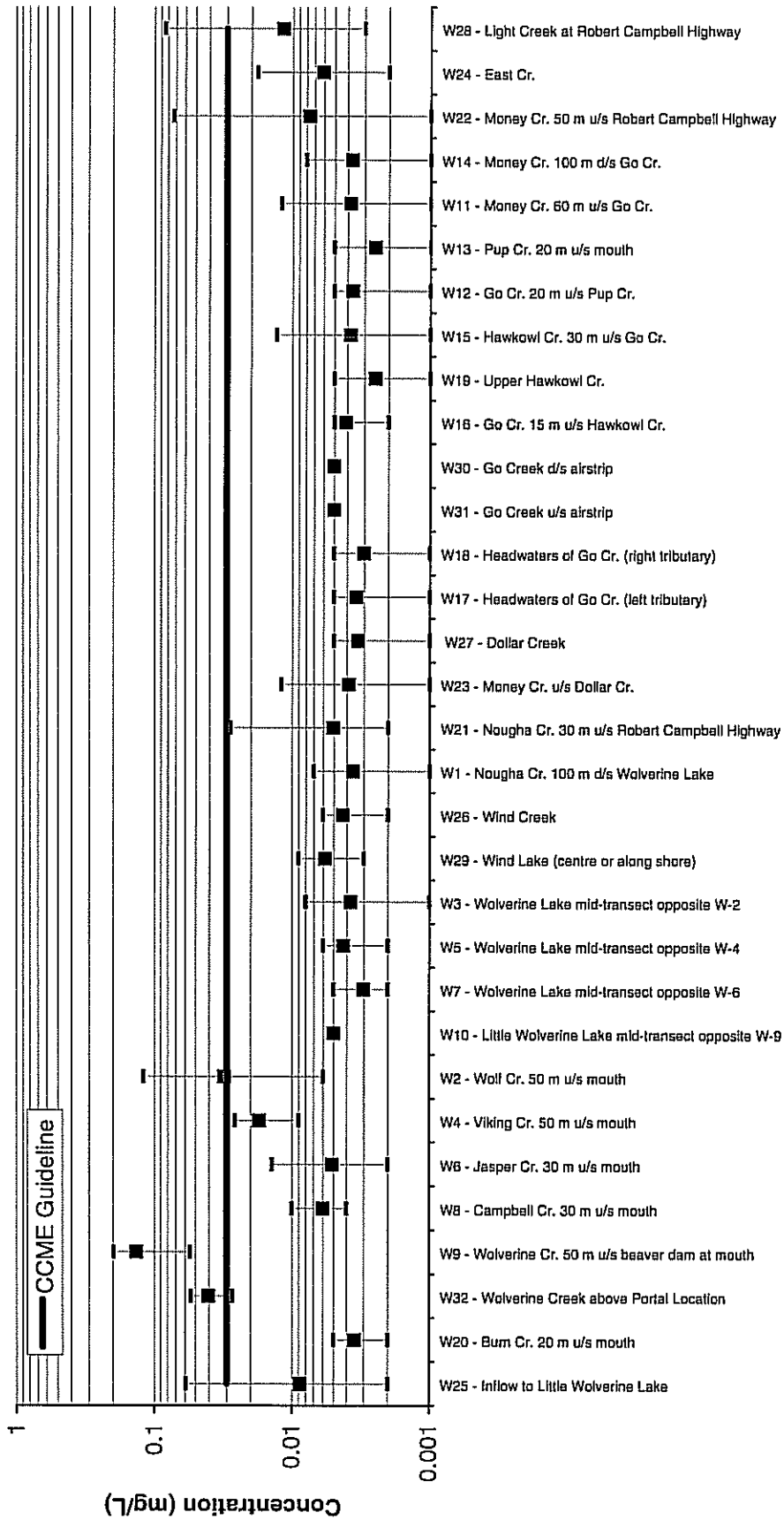




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Figure 3.35
Mean and Range of Zinc Measured at Water Quality Sites,
Wolverine Property, 1995-2001

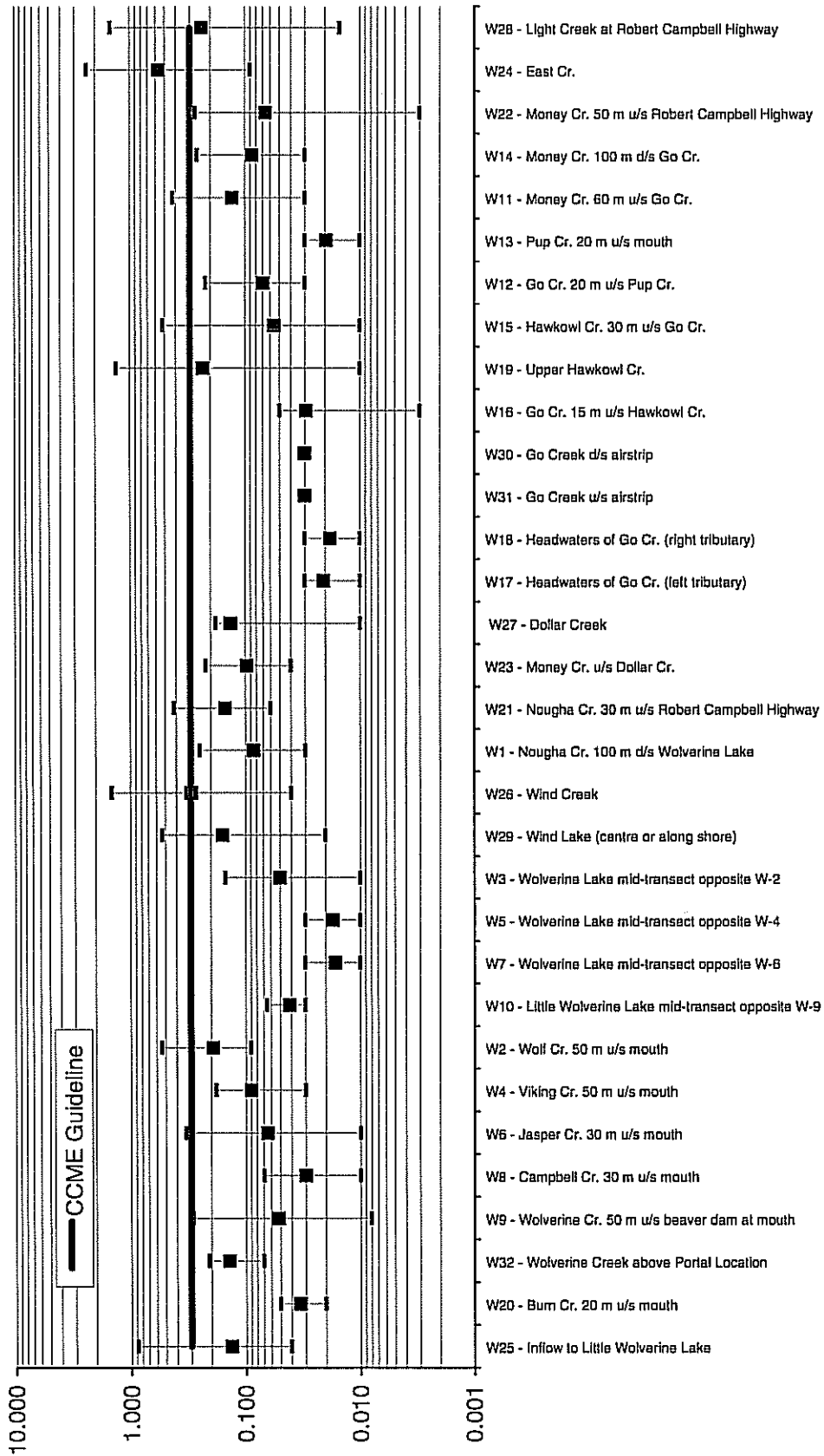




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Figure 3.36
Mean and Range of Iron Measured at Water Quality Sites,
Wolverine Property, 1995-2001

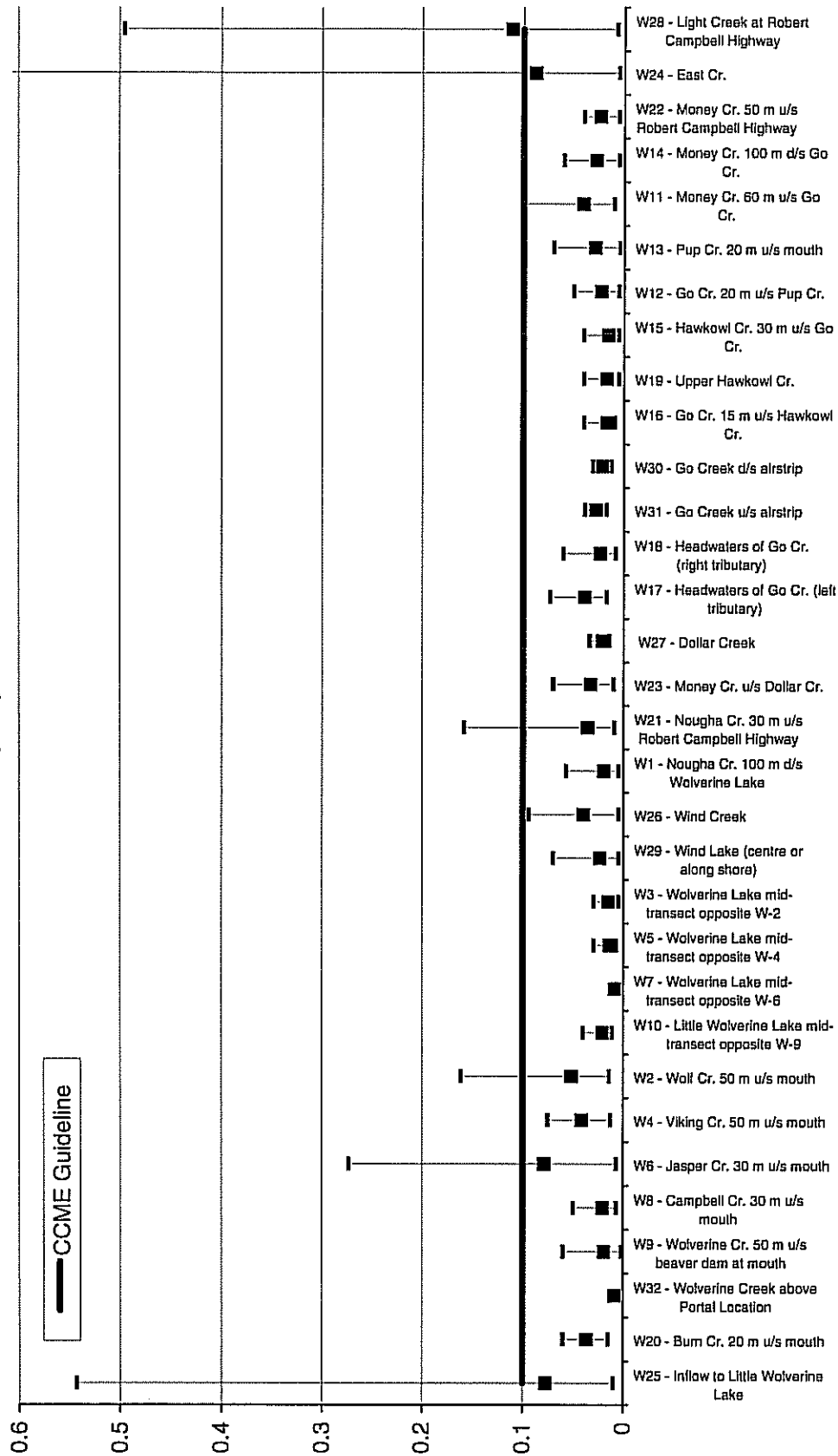




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Figure 3.37
Mean and Range of Aluminum Measured at Water Quality Sites,
Wolverine Property, 1995-2001

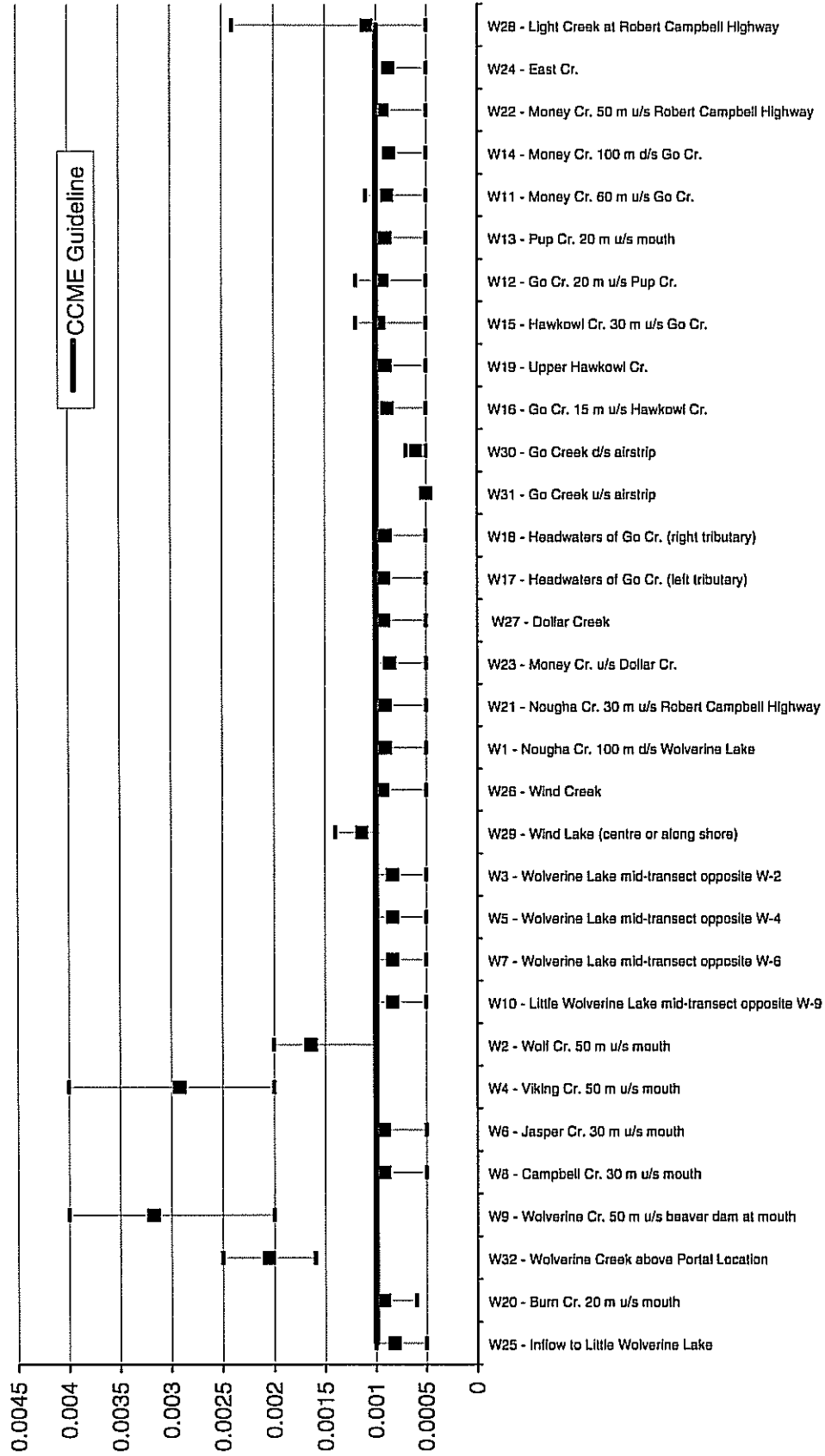




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WOLVERINE PROJECT

Figure 3.38
Mean and Range of Selenium Measured at Water Quality Sites,
Wolverine Property, 1995-97

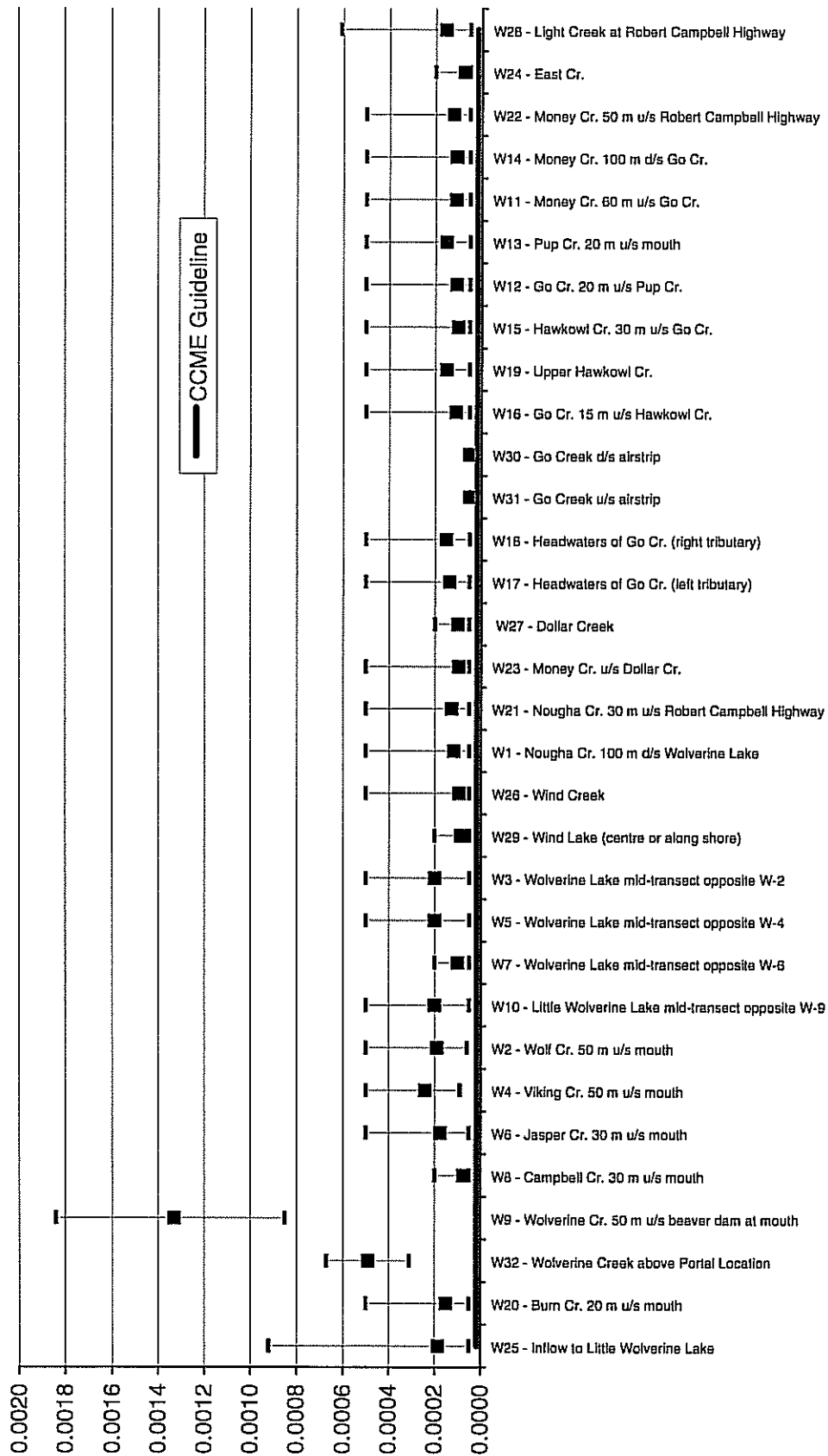




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WOLVERINE PROJECT

Figure 3.39
Mean and Range of Cadmium Measured at Water Quality Sites,
Wolverine Property, 1995-2001

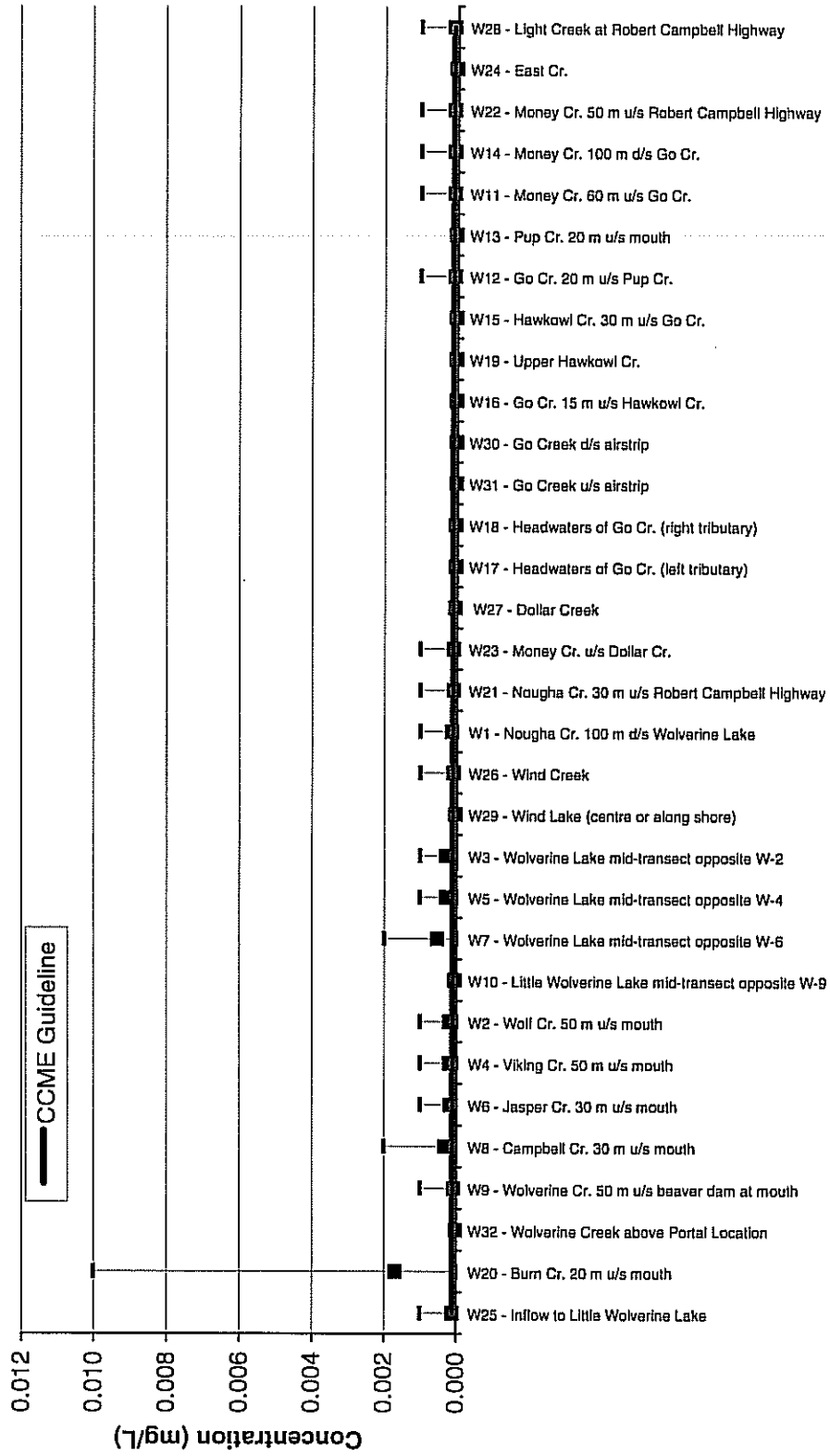




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WOLVERINE PROJECT

Figure 3.40
Mean and Range of Silver Measured at Water Quality Sites,
Wolverine Property, 1995-97

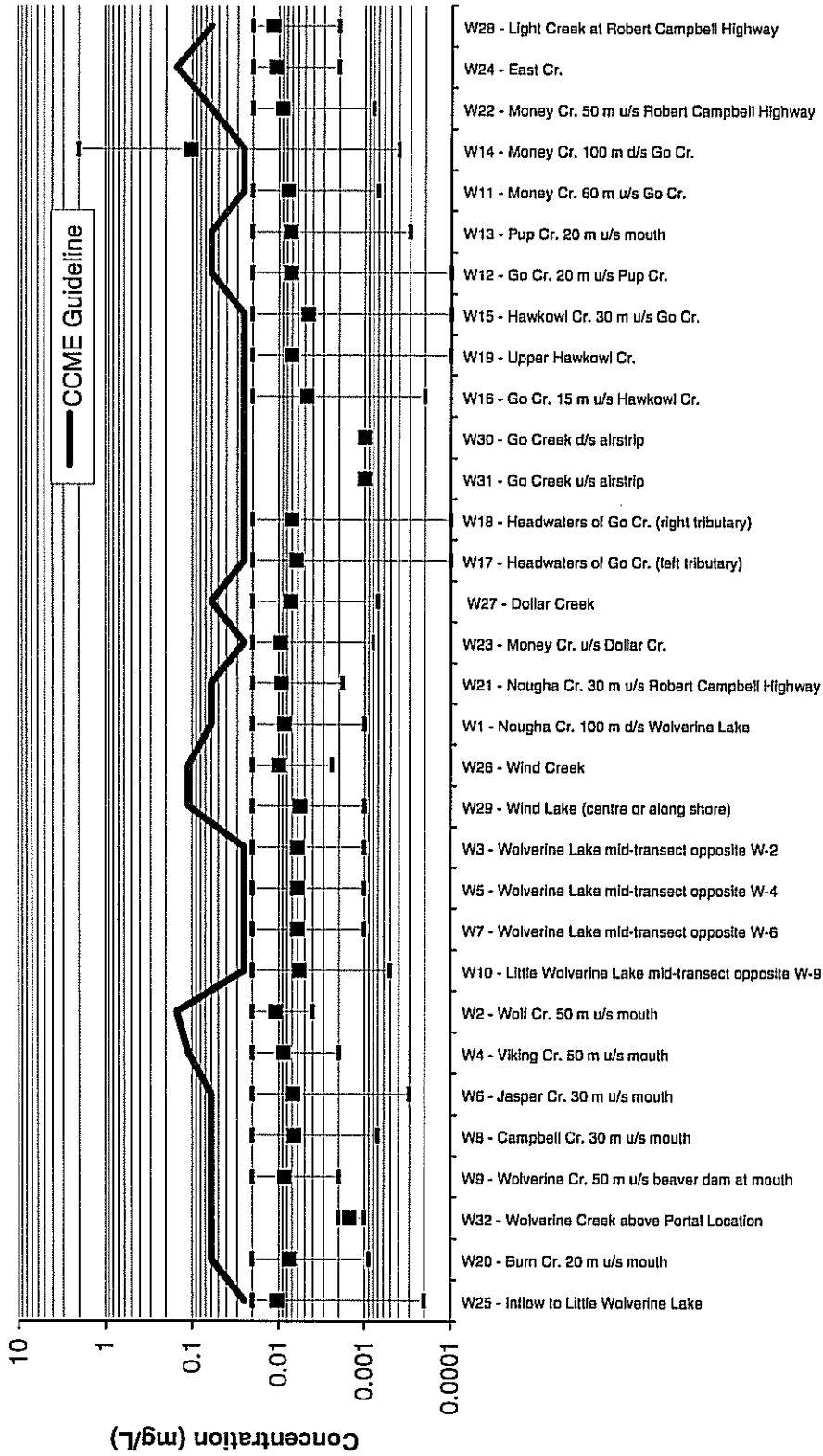




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WOLVERINE PROJECT

Figure 3.41
Mean and Range of Nickel Measured at Water Quality Sites,
Wolverine Property, 1995-2001

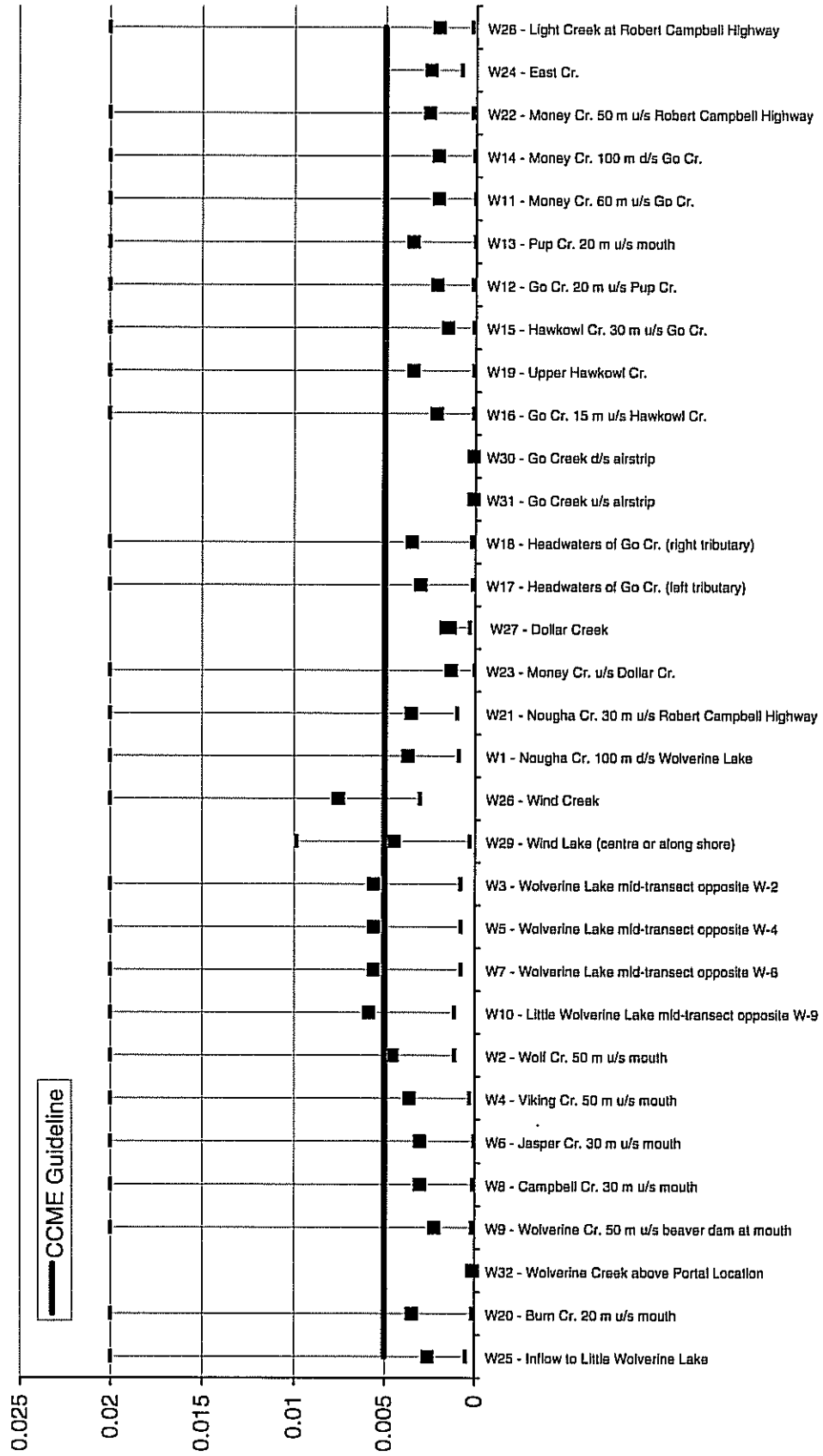




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Figure 3.42
Mean and Range of Arsenic Measured at Water Quality Sites,
Wolverine Property, 1995-97



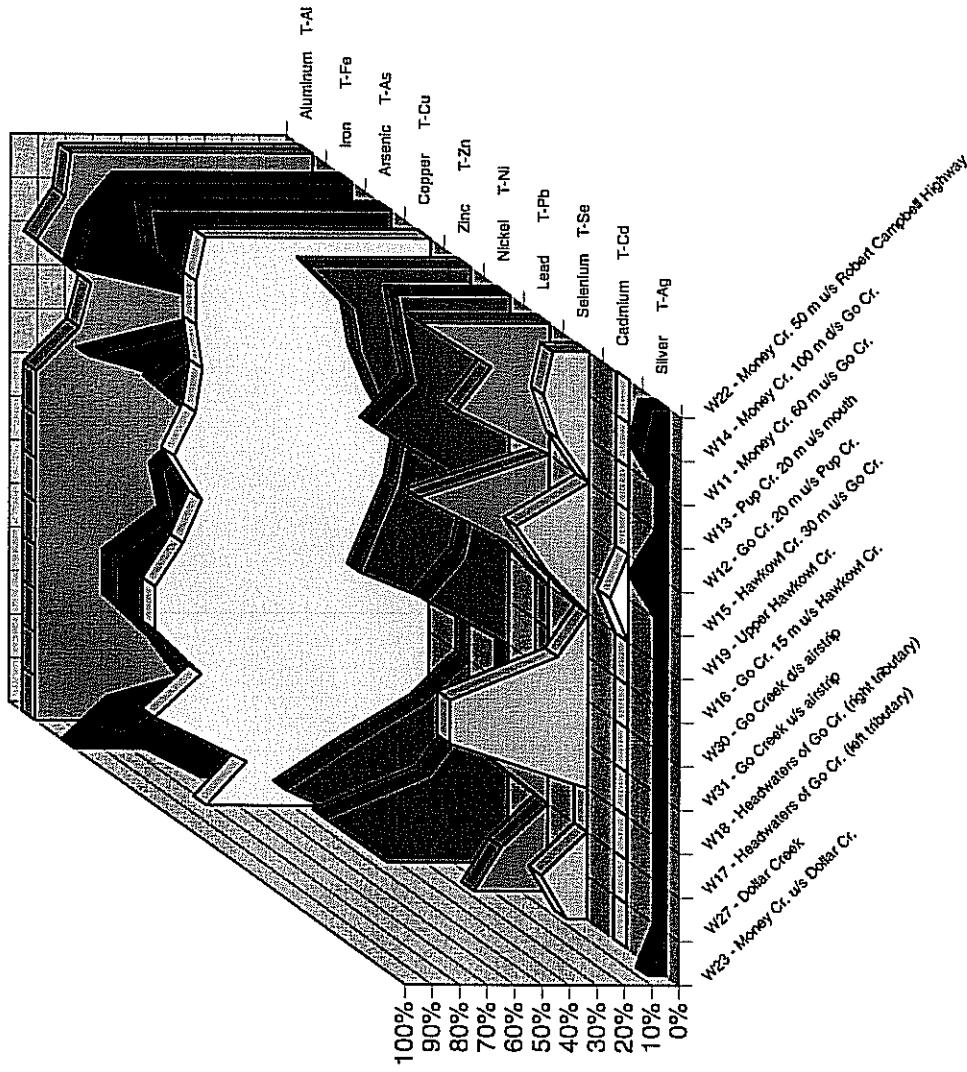


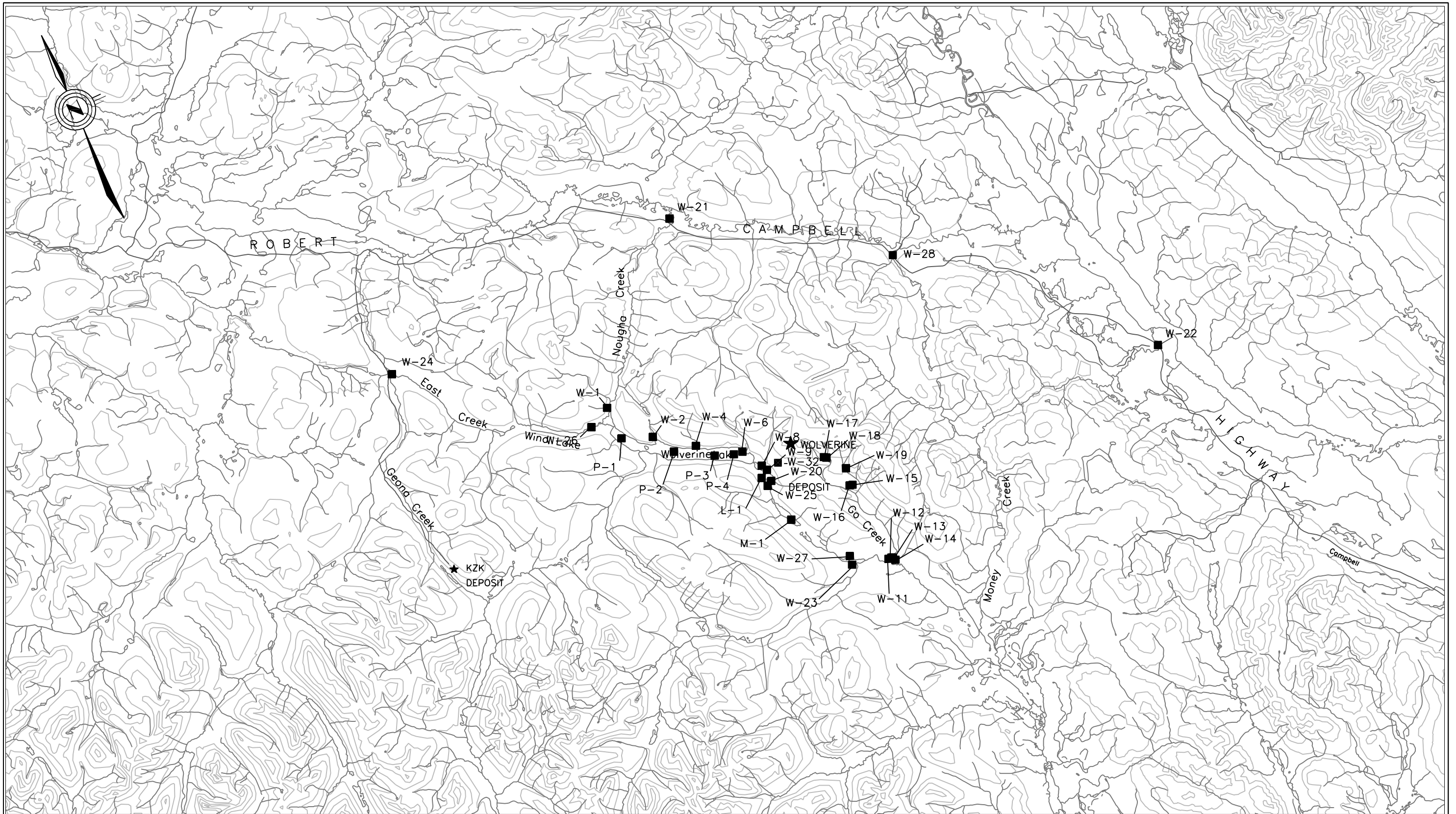
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Figure 3.44

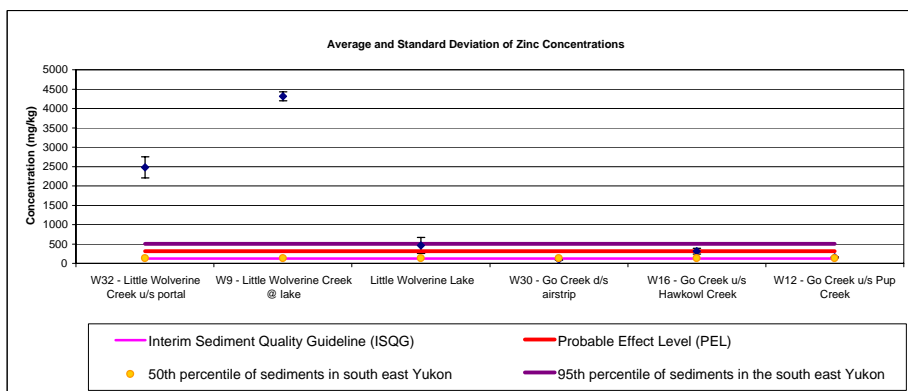
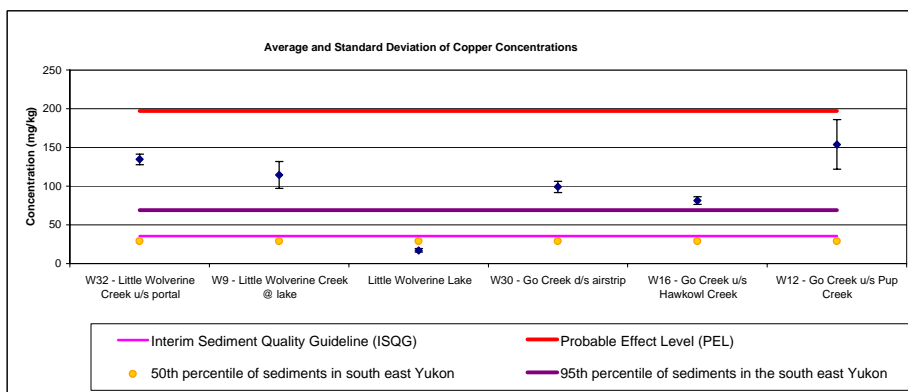
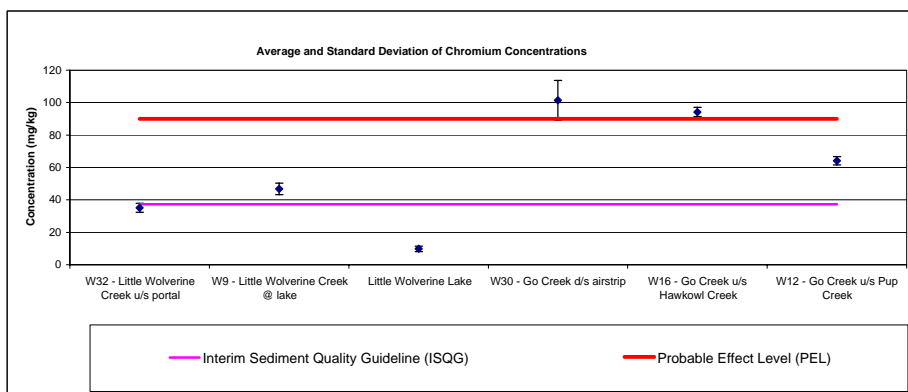
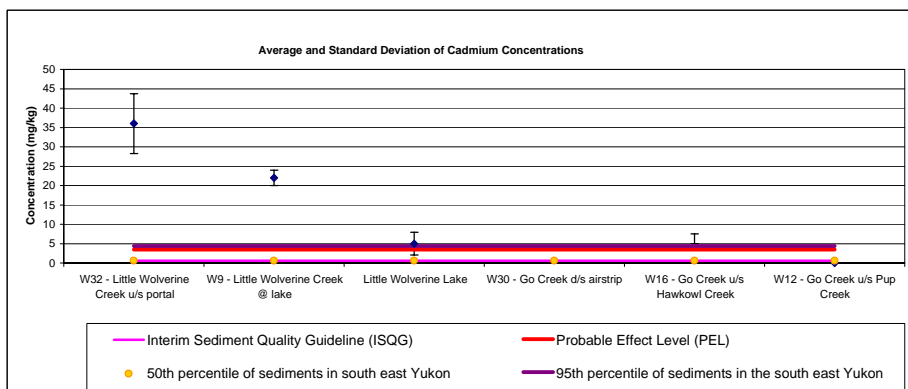
% Detection of Heavy Metals in Water Samples from the Go/Money Creek Drainage

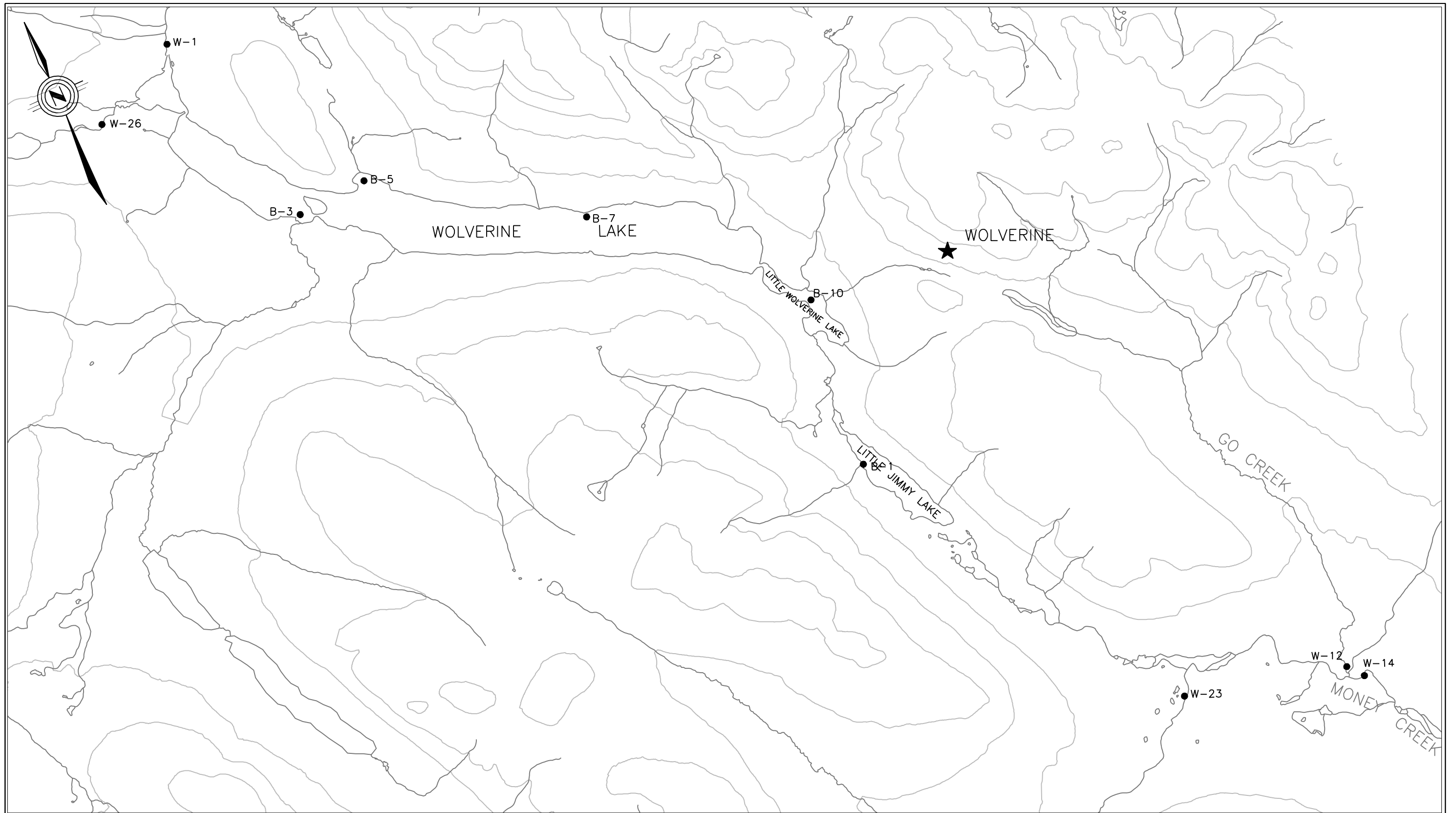




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Figure 3.46
2001 Sampling Program - Stream and Lake Sediments Metals Concentrations

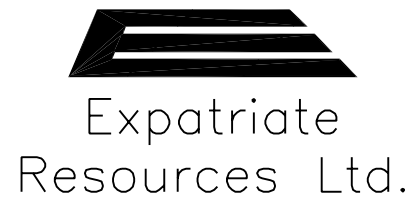
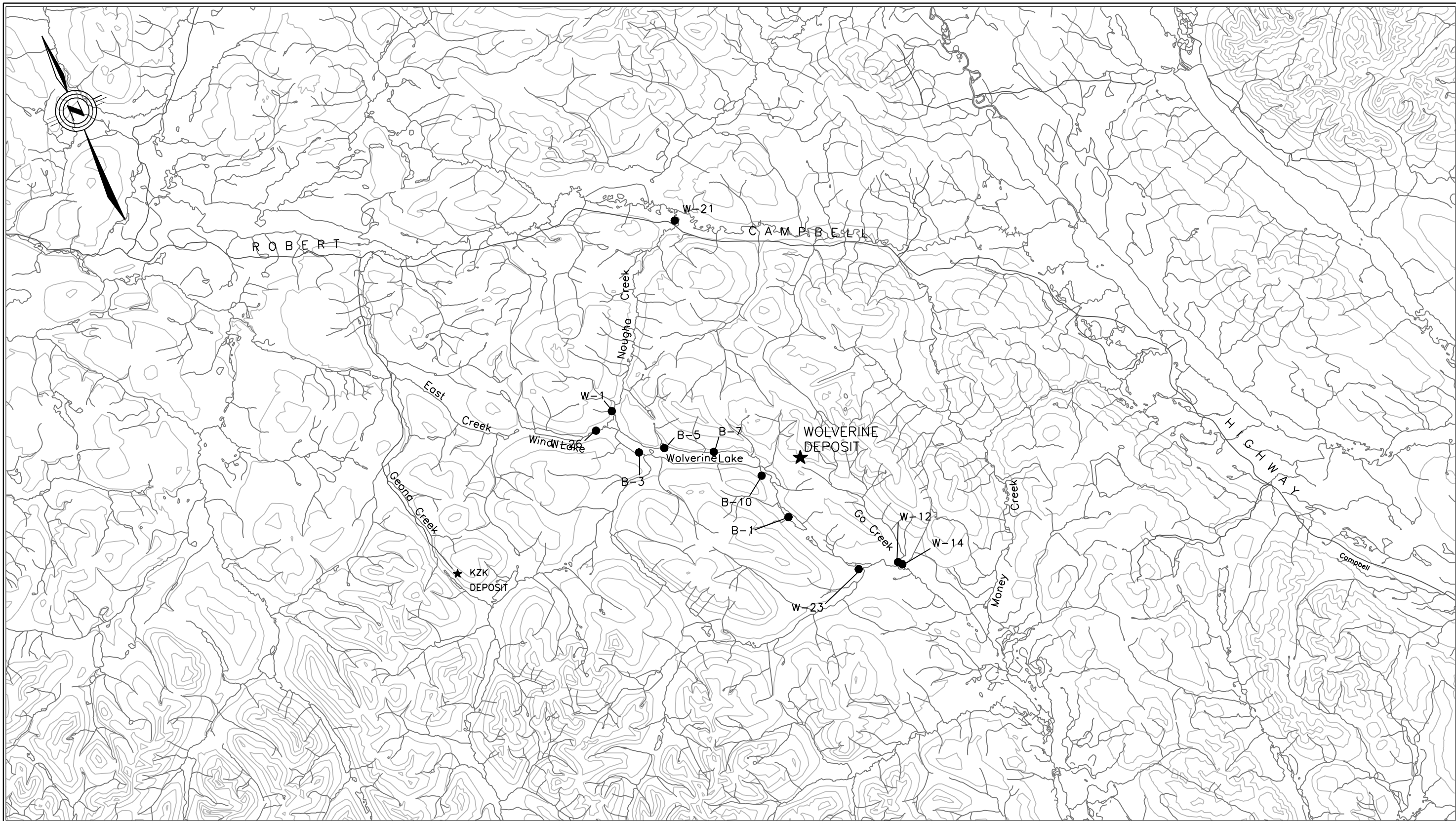




LEGEND: ● BETHNIC MONITORING STATIONS

EXPATRIATE RESOURCES LIMITED		WOLVERINE LAKE PROPERTY	
BASELINE BIOPHYSICAL SURVEY PROGRAM			
BENTHOS MONITORING STATIONS			
WOLVERINE AREA			
ADAPTED FROM:	ACCESS MINING CONSULTANTS LTD.		
SCALE: 1:60,000	DATE: 10/14/04	FILE:	FIN-3_47

FIG. 3.47



LEGEND: ● BETHNIC MONITORING STATIONS

EXPATRIATE RESOURCES LIMITED WOLVERINE LAKE PROPERTY

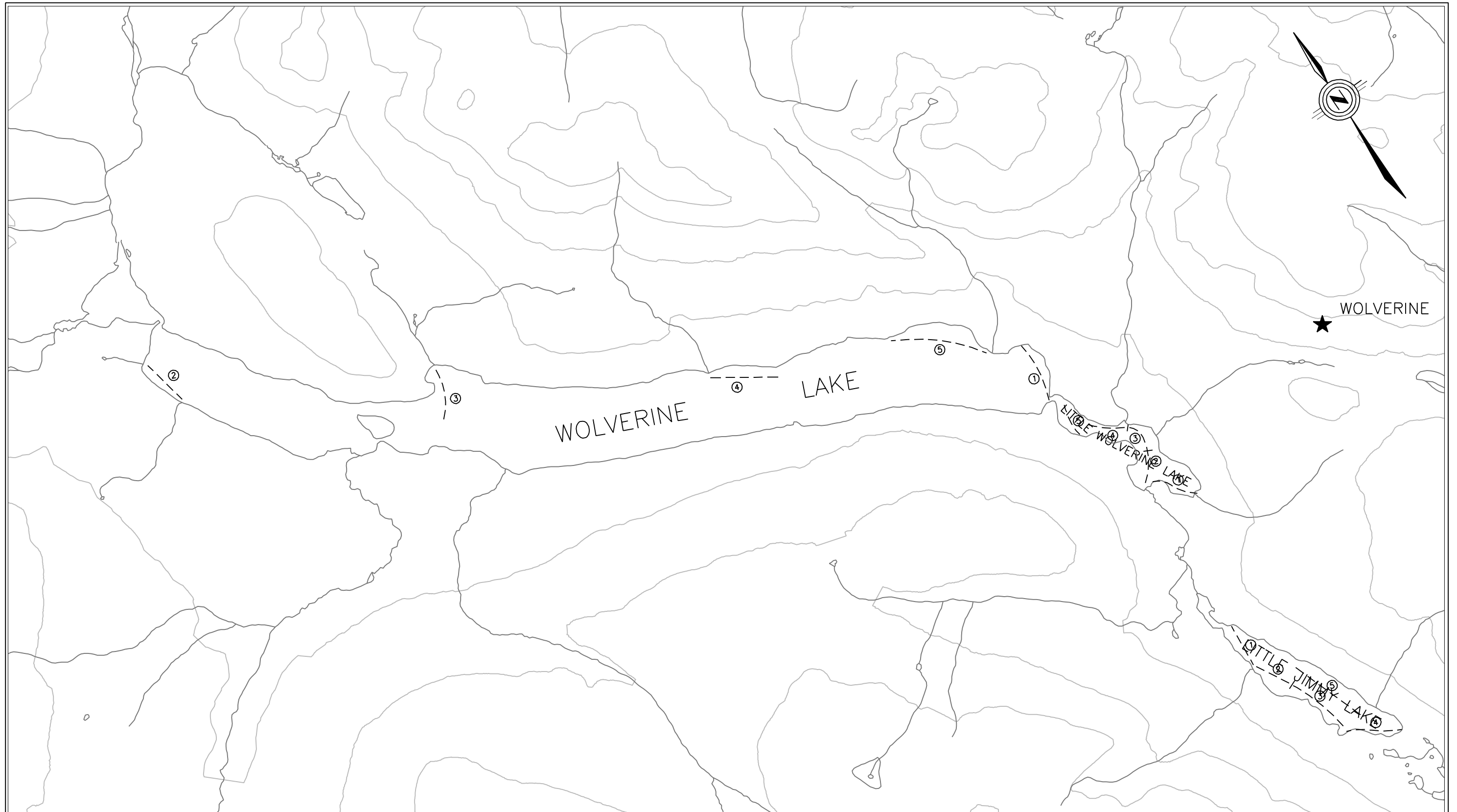
BASELINE BIOPHYSICAL SURVEY PROGRAM

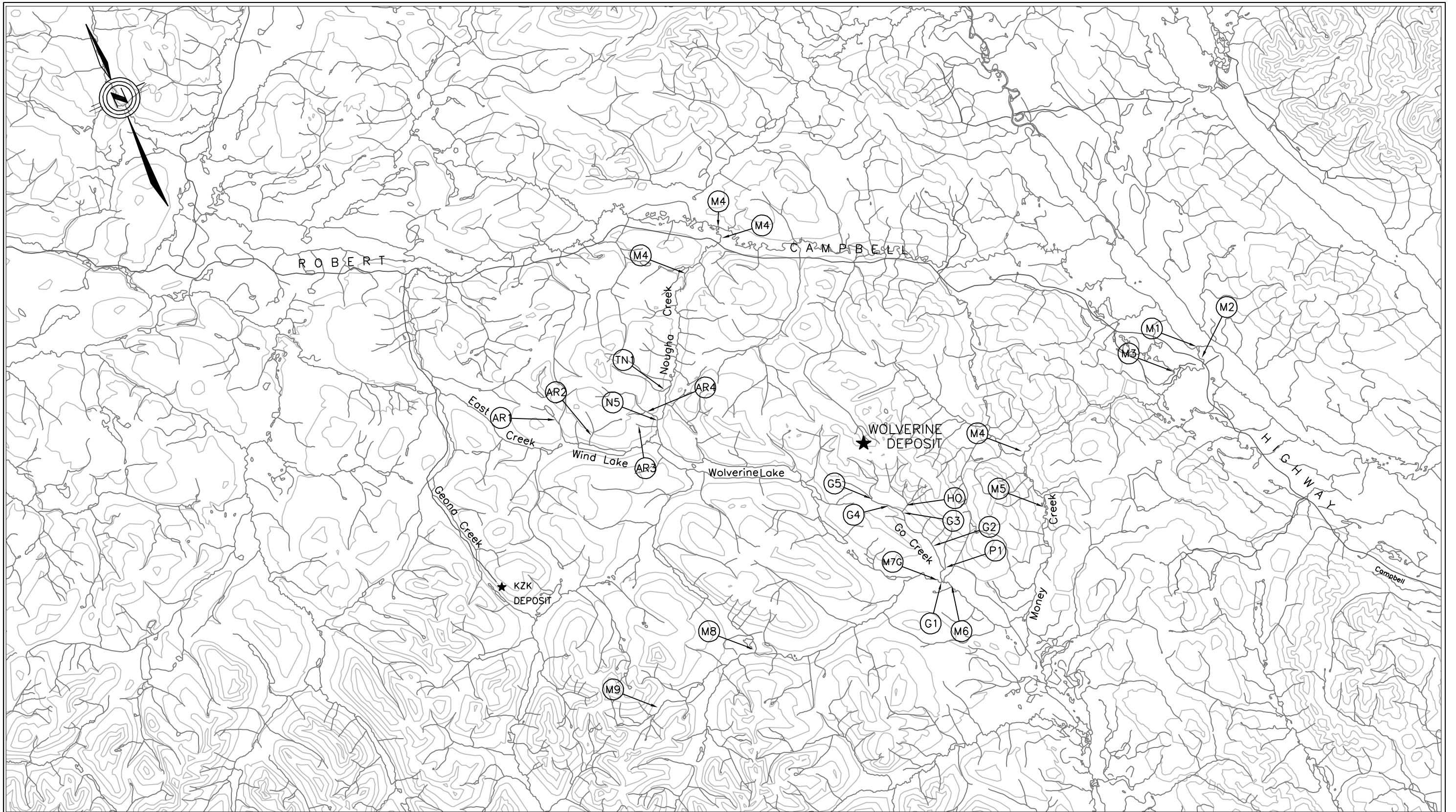
BENTHOS MONITORING STATIONS
WOLVERINE PROJECT AREA

ADAPTED FROM: ACCESS MINING CONSULTANTS LTD.

SCALE: 1:250,000 DATE: 10/14/04 FILE: FIN-3_48

FIG. 3.48

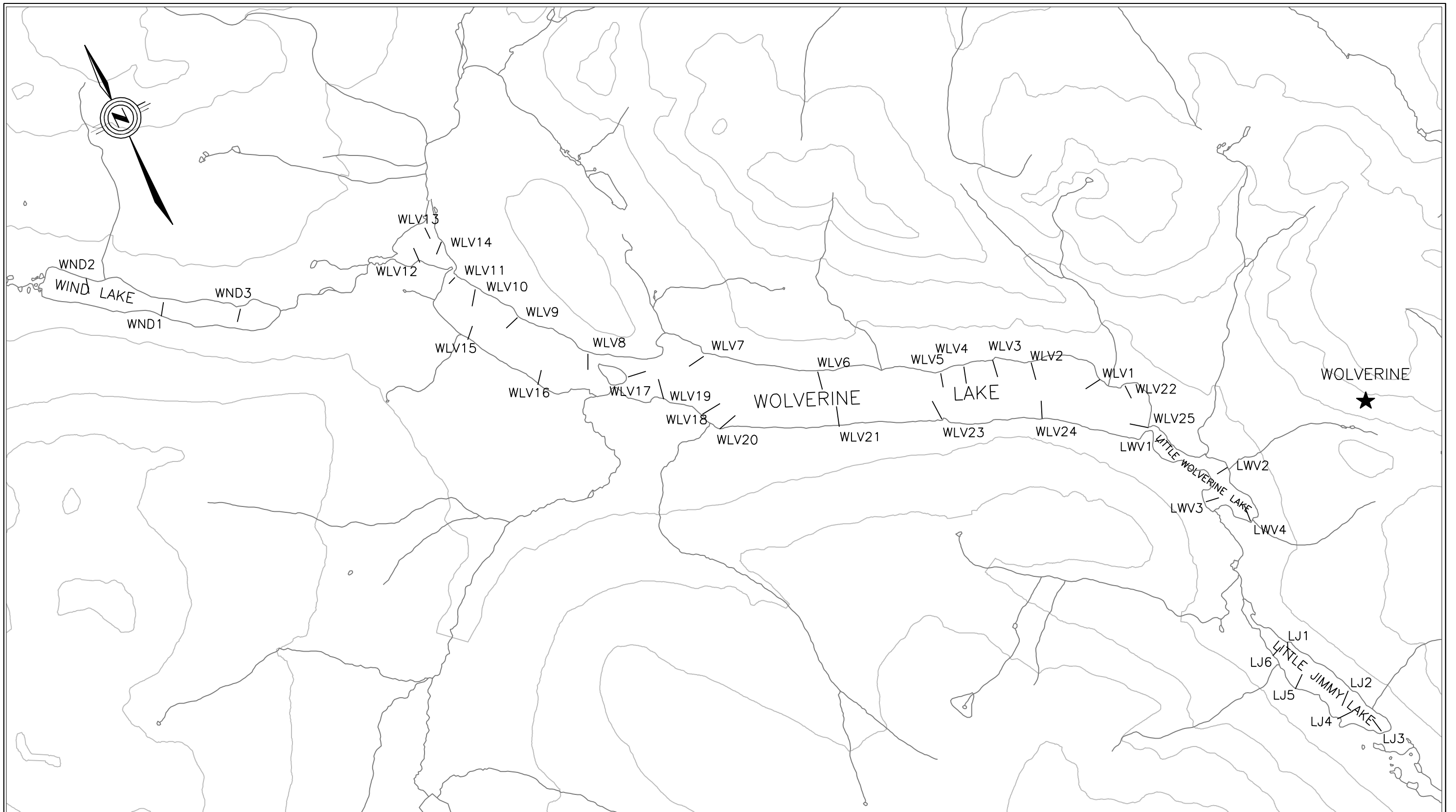




LEGEND: (I) → CREEK SAMPLE SITES

EXPATRIATE RESOURCES LIMITED		WOLVERINE LAKE PROPERTY	
BASELINE BIOPHYSICAL SURVEY PROGRAM			
LOCATIONS AND TITLES OF CREEK SAMPLING SITES			
WOLVERINE FISHERIES INVESTIGATIONS			
ADAPTED FROM:	ACCESS MINING CONSULTANTS LTD.		
SCALE: 1:250,000	DATE: 10/14/04	FILE:	FIN-3_50

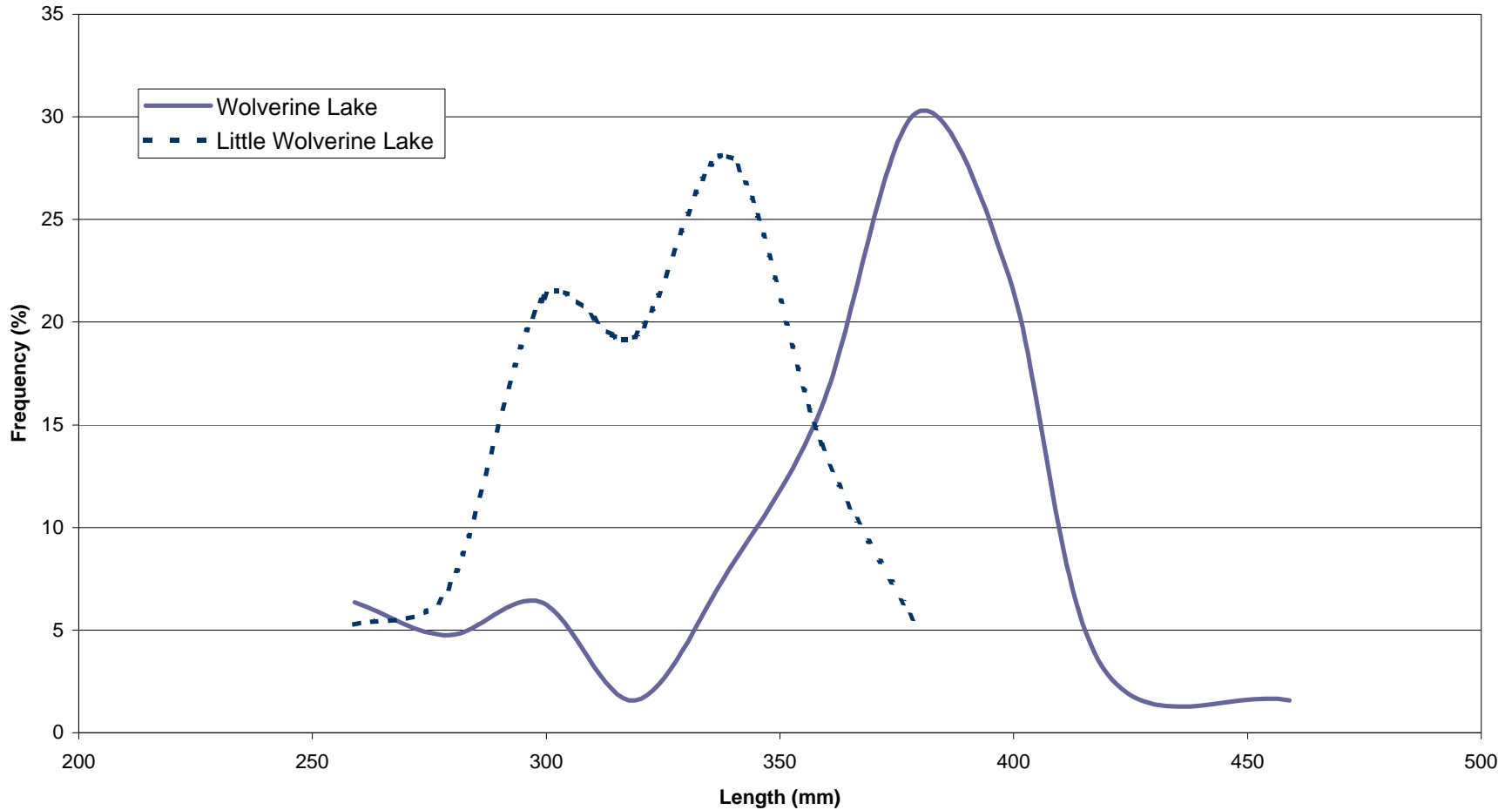
FIG. 3.50



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WOLVERINE PROJECT

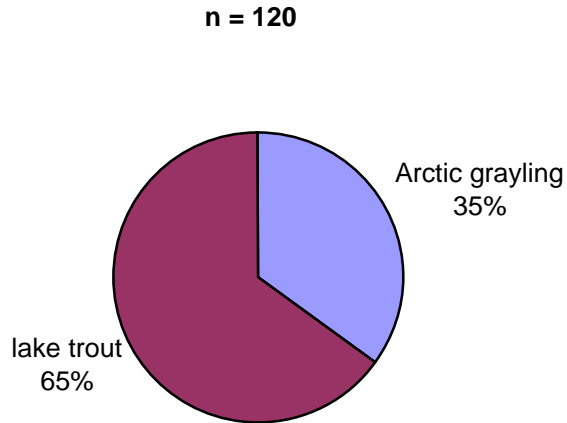
Figure 3.52

Length-Frequency Data for Arctic Grayling in Lakes in the Wolverine Area

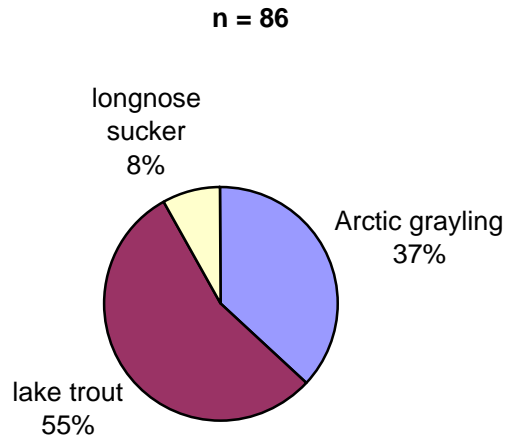


**EXPATRIATE RESOURCES LTD.
WOLVERINE PROJECT**

**Figure 3.53
Species Composition by Weight for Fish in Lakes in the Wolverine Area**



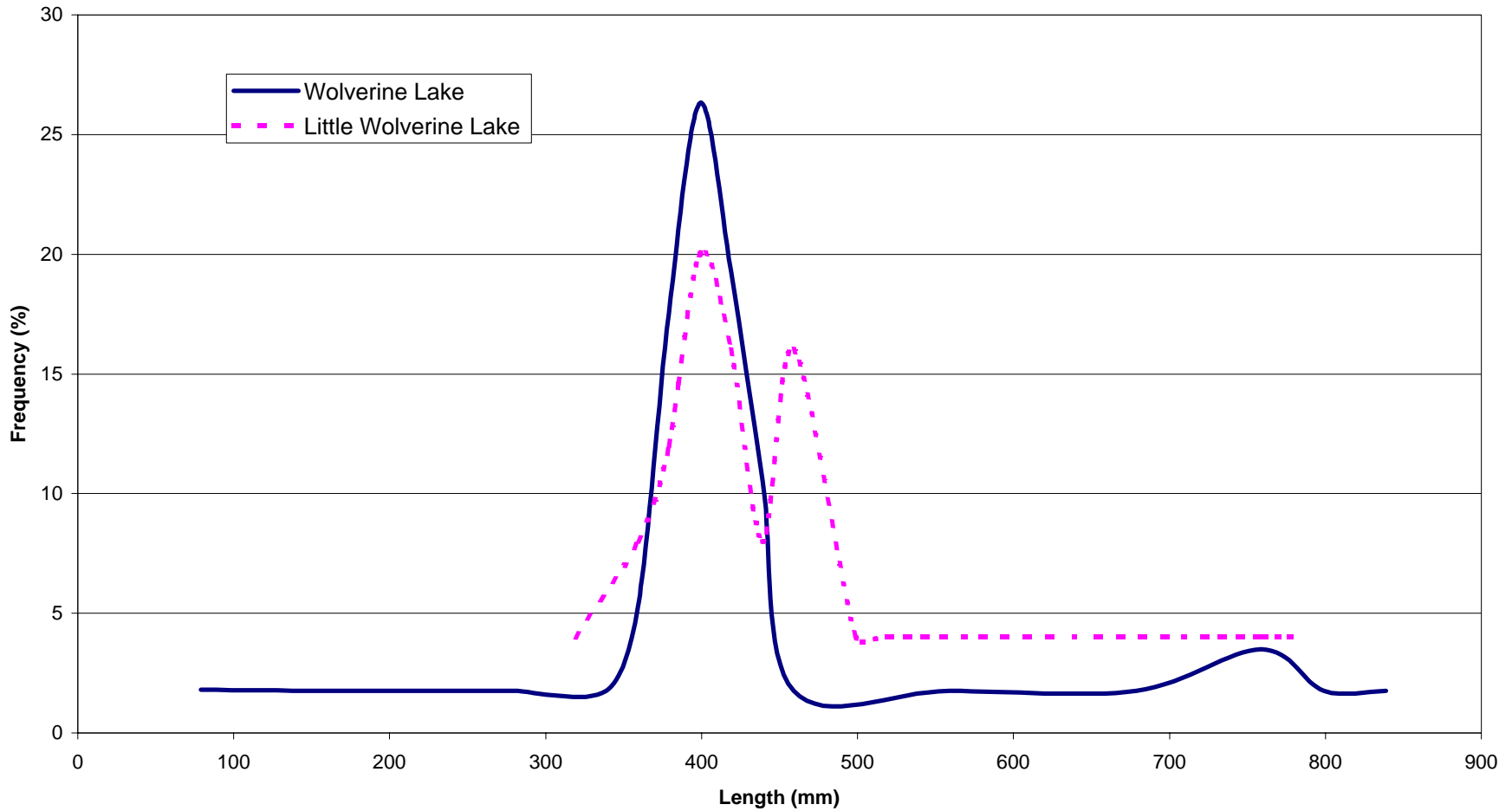
Species composition by weight as determined from index gillnets, Wolverine Lake, 1996.



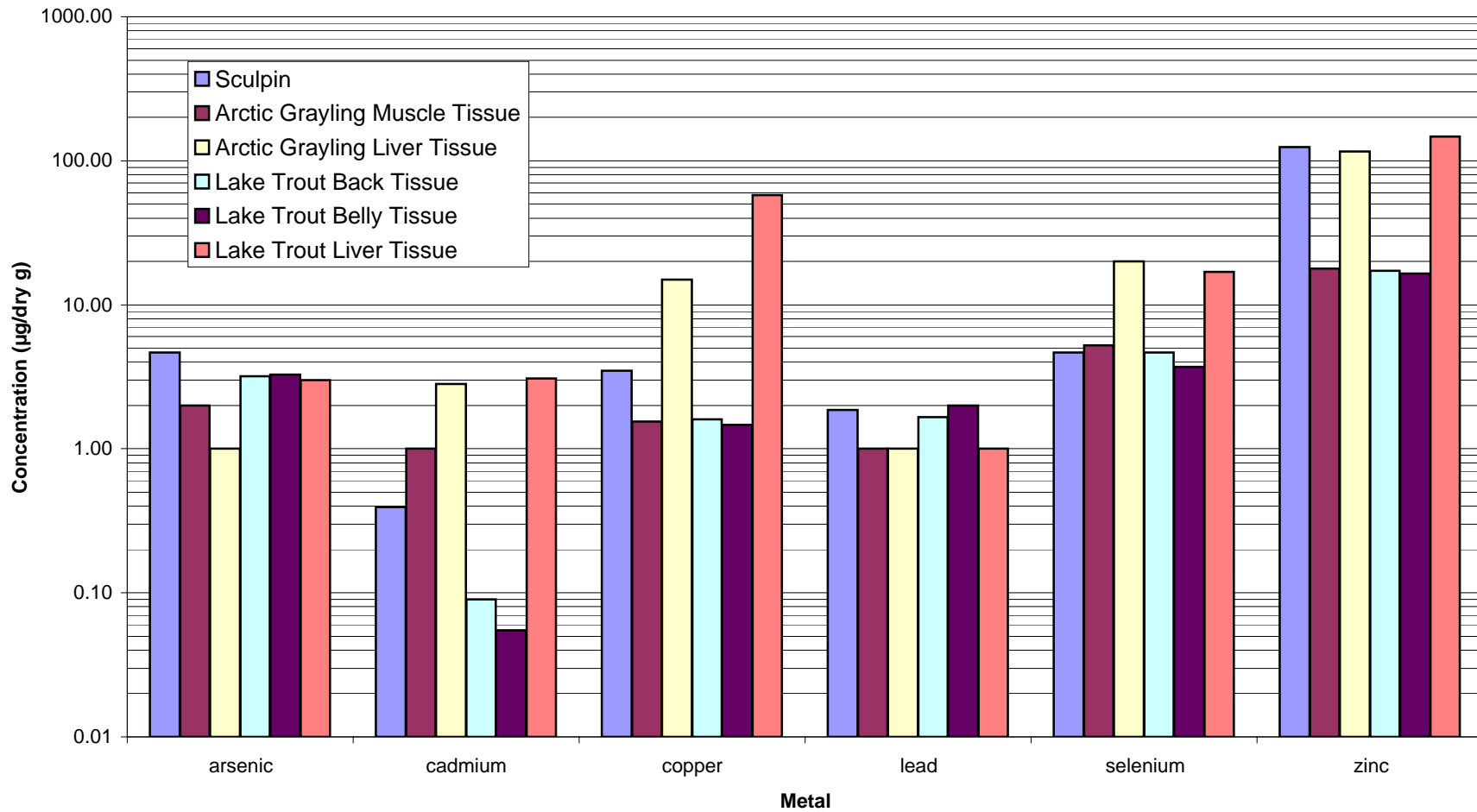
Species composition by weight as determined from index gillnets, Little Wolverine Lake, 1996.

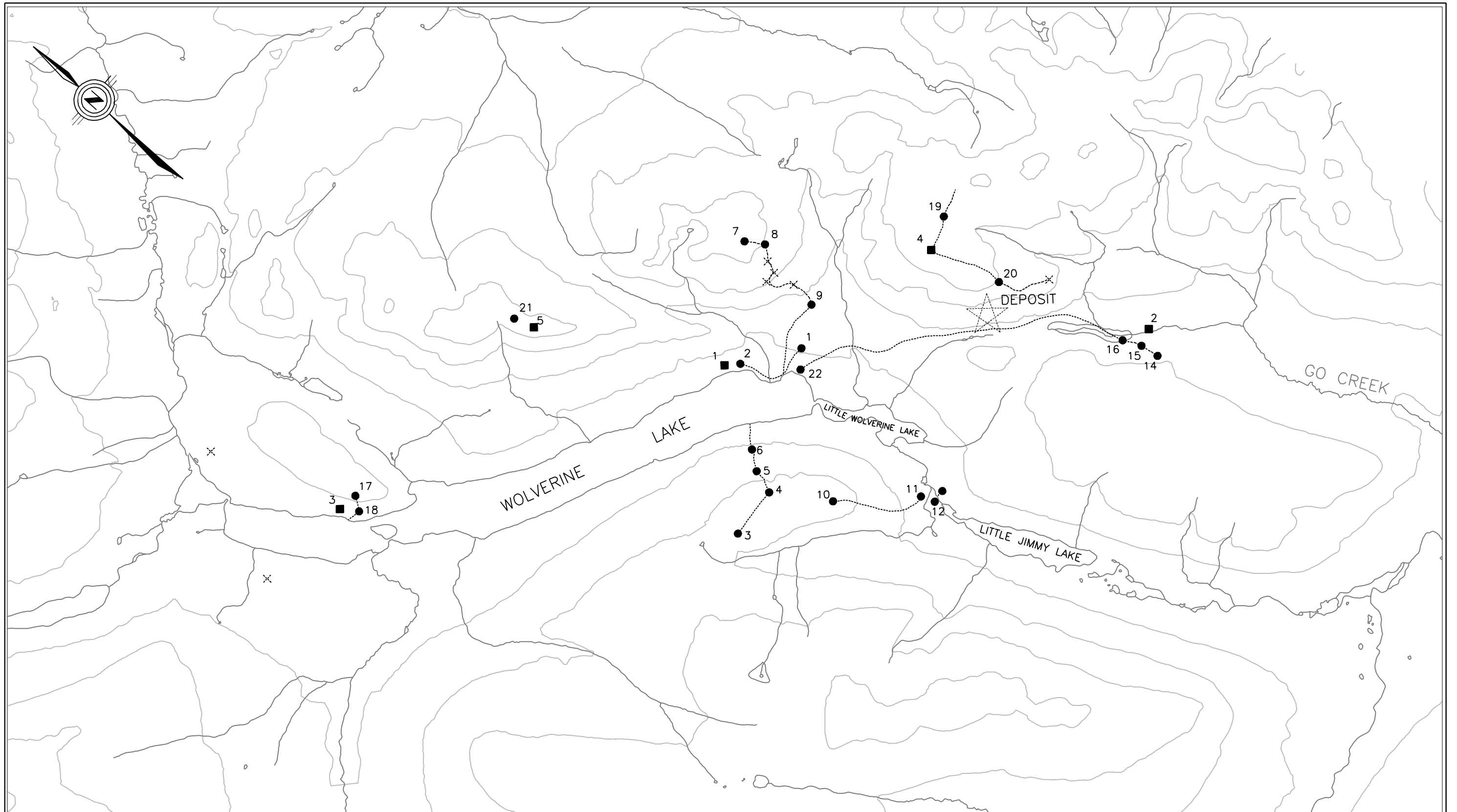
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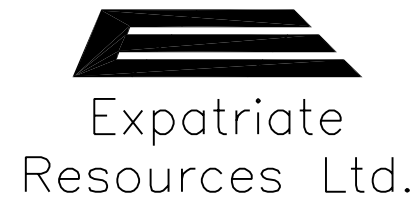
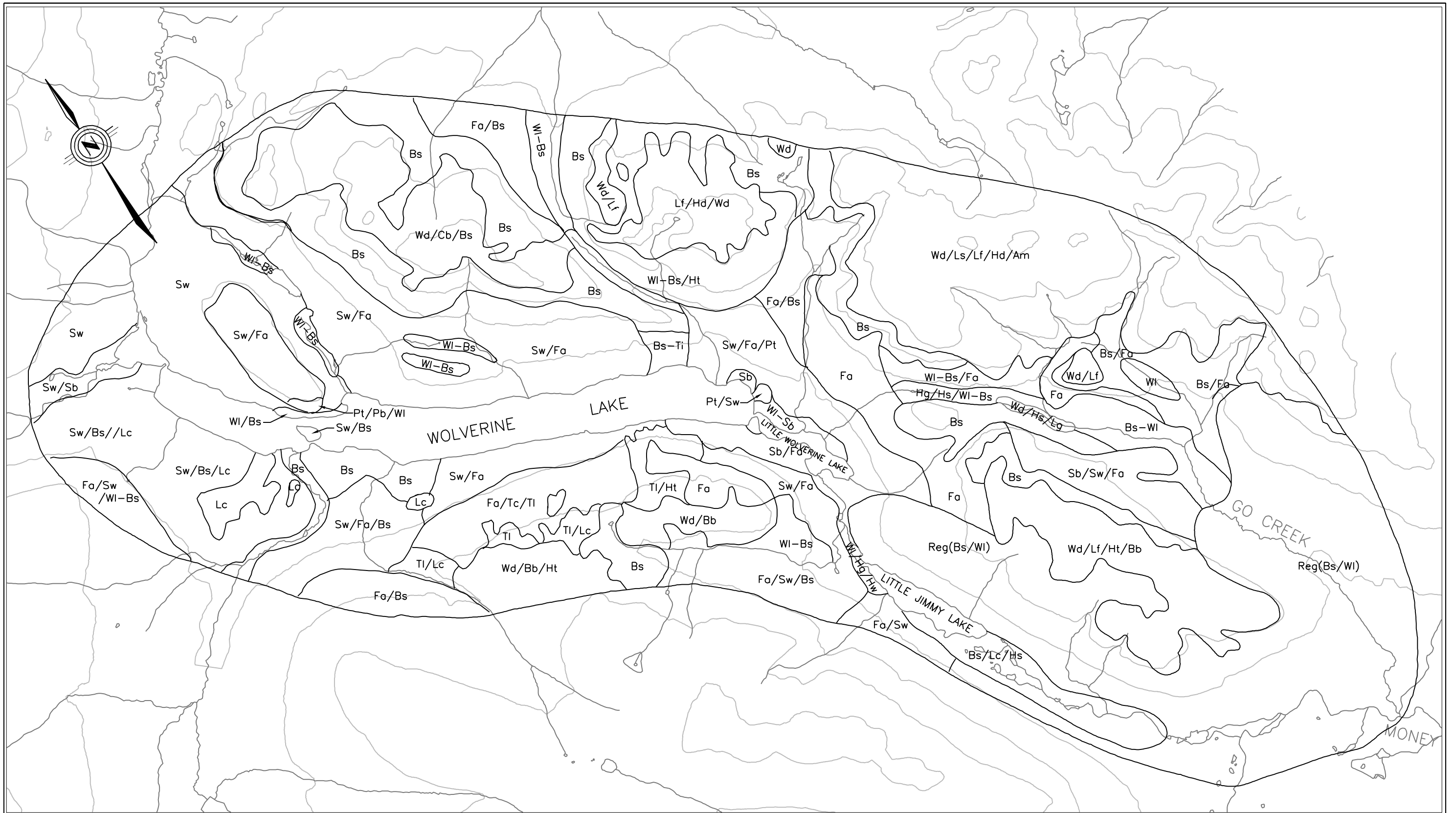
Figure 3.54
Length-Frequency Data for Lake Trout in Lakes in the Wolverine Area



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 WOLVERINE PROJECT
 Figure 3.55
 Metals in Fish Tissue - Wolverine Area







Sw White Spruce
Sb Black Spruce
Fa Alpine Fir
Pt Trembling Aspen
Pb Balsam Poplar
Bs Shrub Birch
TI Labrador Tea
Lc Cladina Lichen

Bs-TI Shrub Birch - Labrador Tea
WI Willow (Low)
WI-Bs Willow - Shrub Birch
Wd Willow (Dwarf)
Bb Alpine Bearberry
Cb Lowbush Cranberry
Ht White Heather
Reg Regeneration (Following 1994 Fire)

LEGEND:

Am Mountain Aven
Hs Sedge Herb
Hg Grass Herb
Hm Mesic Mixed Herb
Hw Wet Mixed Herb
Ls Crustose - Fruticose lichen
Lf Cetraria - Alectoria - Fruticose Lichen

EXPATRIATE RESOURCES LIMITED WOLVERINE LAKE PROPERTY

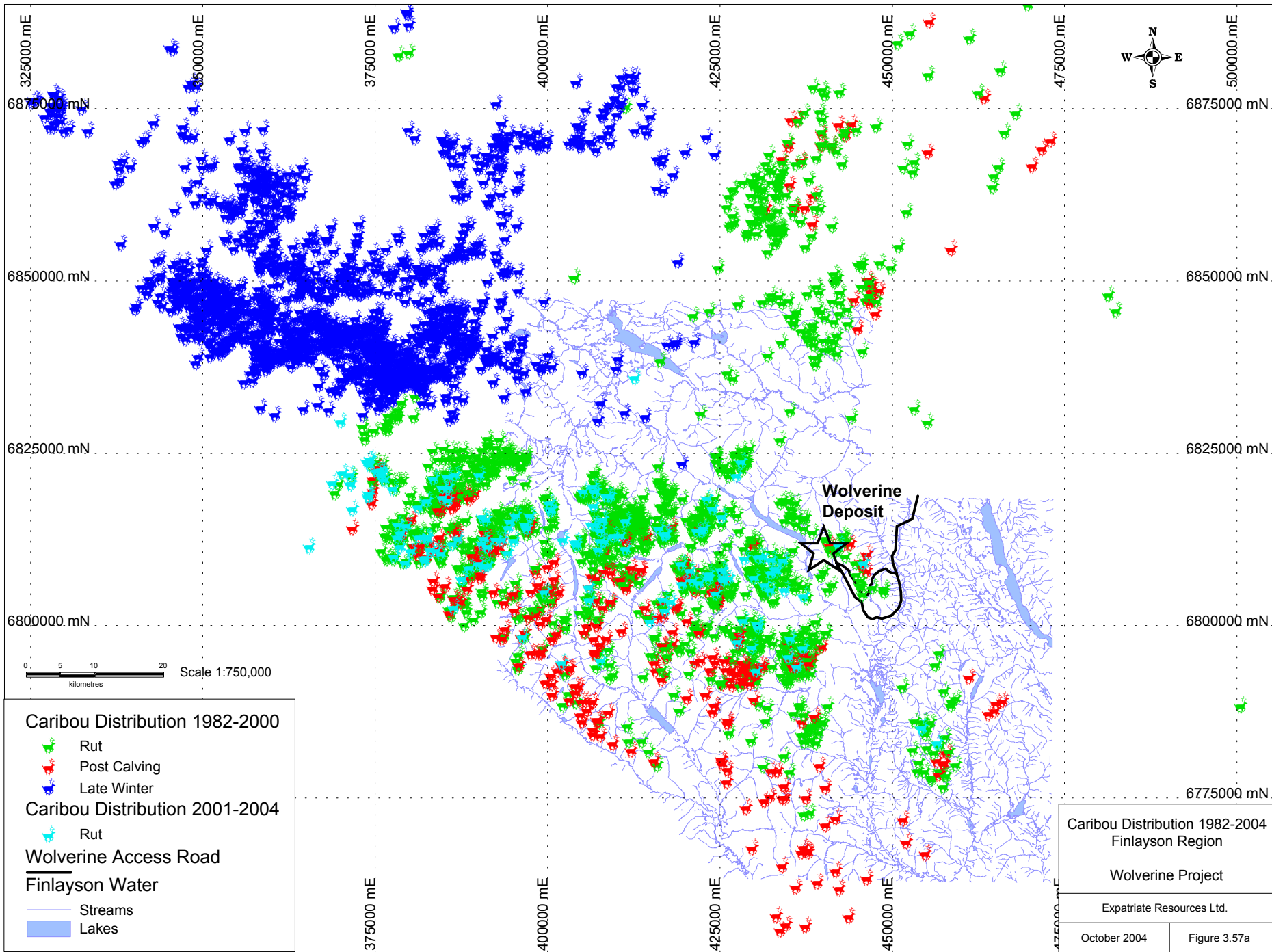
BASELINE BIOPHYSICAL SURVEY PROGRAM

REGIONAL VEGETATION COMMUNITIES
WOLVERINE AREA




ADAPTED FROM: ACCESS MINING CONSULTANTS LTD.

SCALE: 1:60,000 DATE: 10/14/04 FILE: FIN-3_57


FIG. 3.57



Caribou Distribution 1982-2000



-  Rut
-  Post Calving
-  Late Winter

Caribou Distribution 2001-2004

-  Rut

Wolverine Access Road

Finlayson Water

-  Streams
-  Lakes

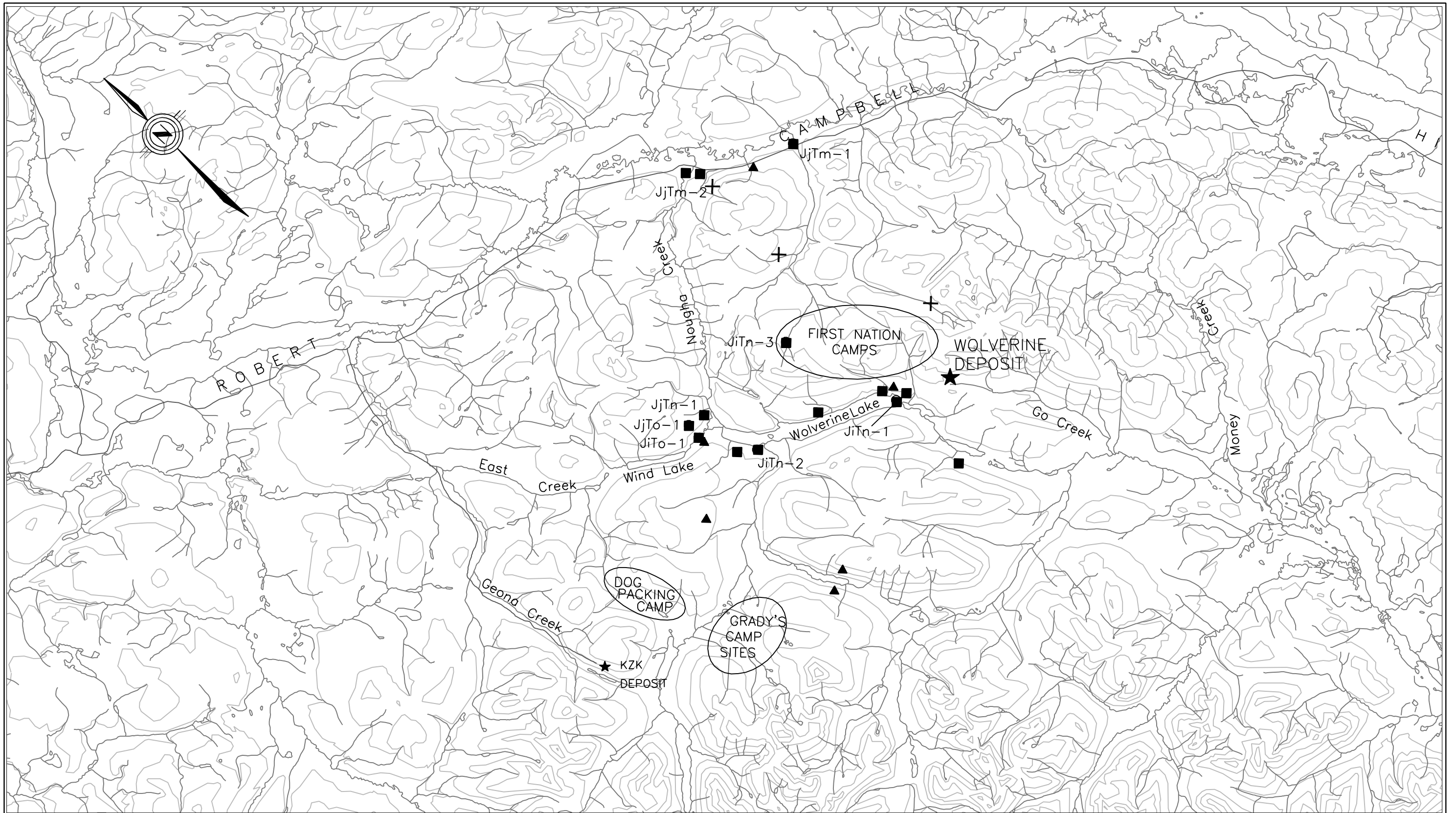
**Caribou Distribution 1982-2004
Finlayson Region**

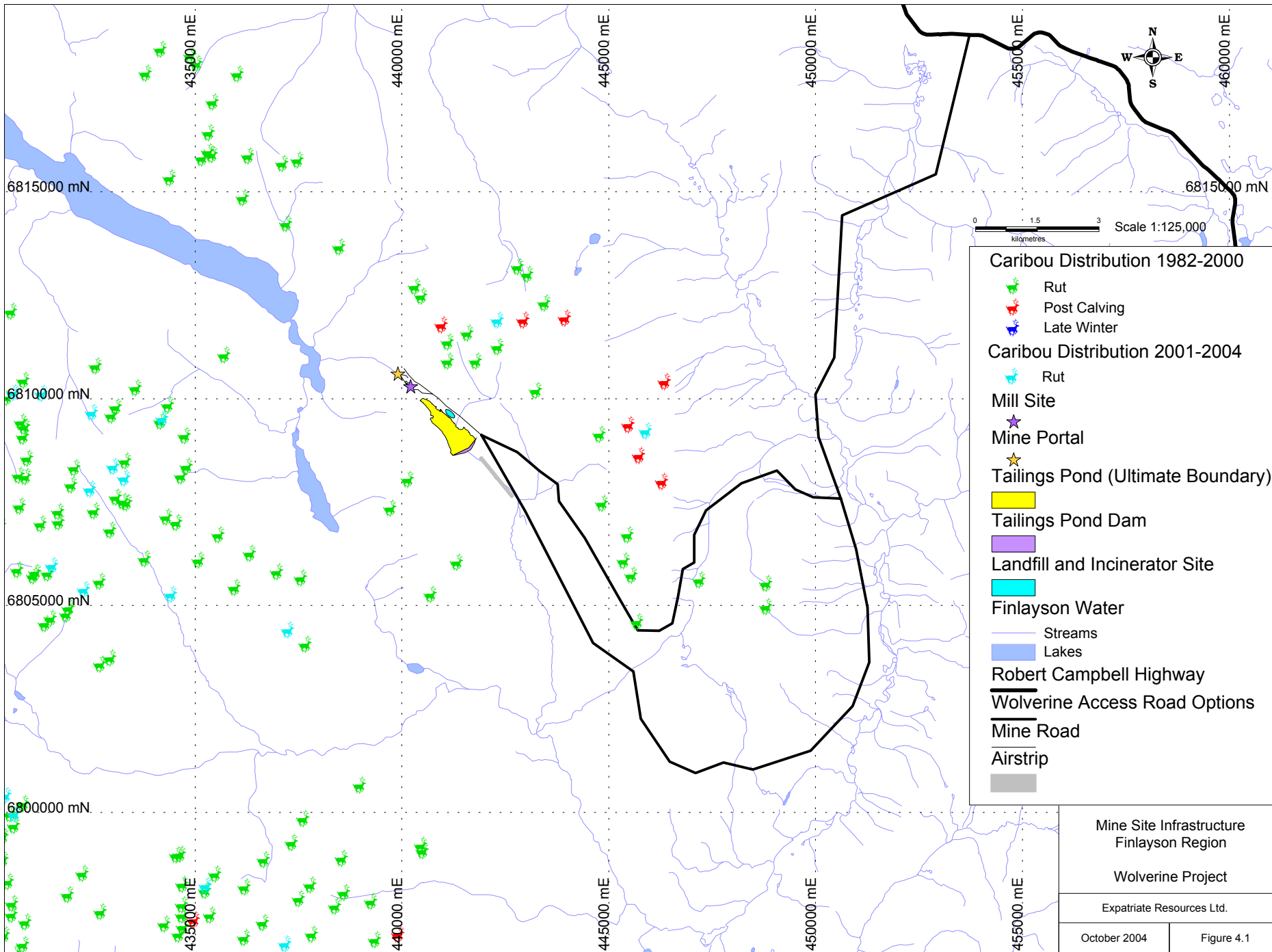
Wolverine Project

Expatriate Resources Ltd.

October 2004

Figure 3.57a





Caribou Distribution 1982-2000

- Rut
- Post Calving
- Late Winter

Caribou Distribution 2001-2004

- Rut

Mill Site

- Mine Portal
- Tailings Pond (Ultimate Boundary)

Tailings Pond Dam

-

Landfill and Incinerator Site

-

Finlayson Water

-

Streams

-

Lakes

-

Robert Campbell Highway

-

Wolverine Access Road Options

-

Mine Road

-

Airstrip

-

Mine Site Infrastructure Finlayson Region	
Wolverine Project	
Expatriate Resources Ltd.	
October 2004	Figure 4.1