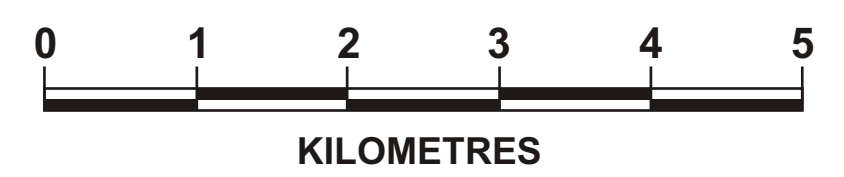


GEOSCIENCE MAP 2004-2
GEOLOGY
of the
NELSON MAP SHEET
NTS 82F/06
SCALE 1:50 000

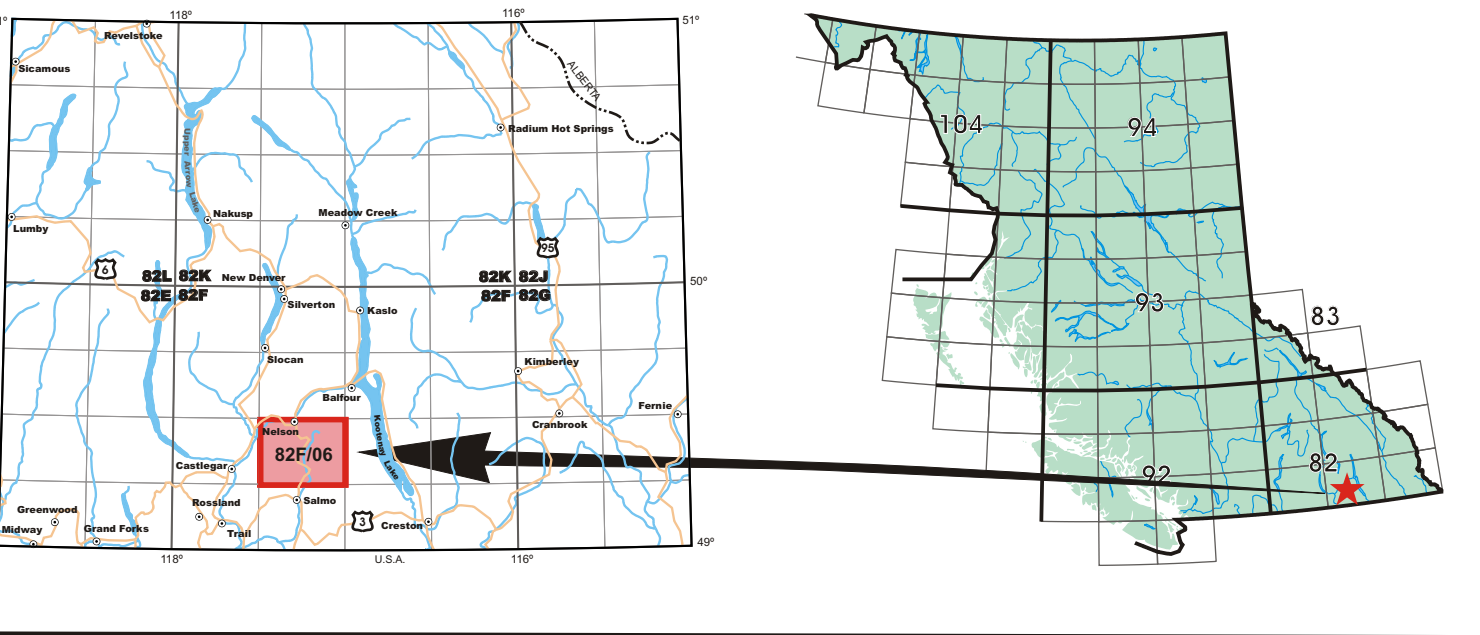


Compiled by Trygve Höy and Kathryn P.E. Dunne
Cartography by Wayne Jackaman

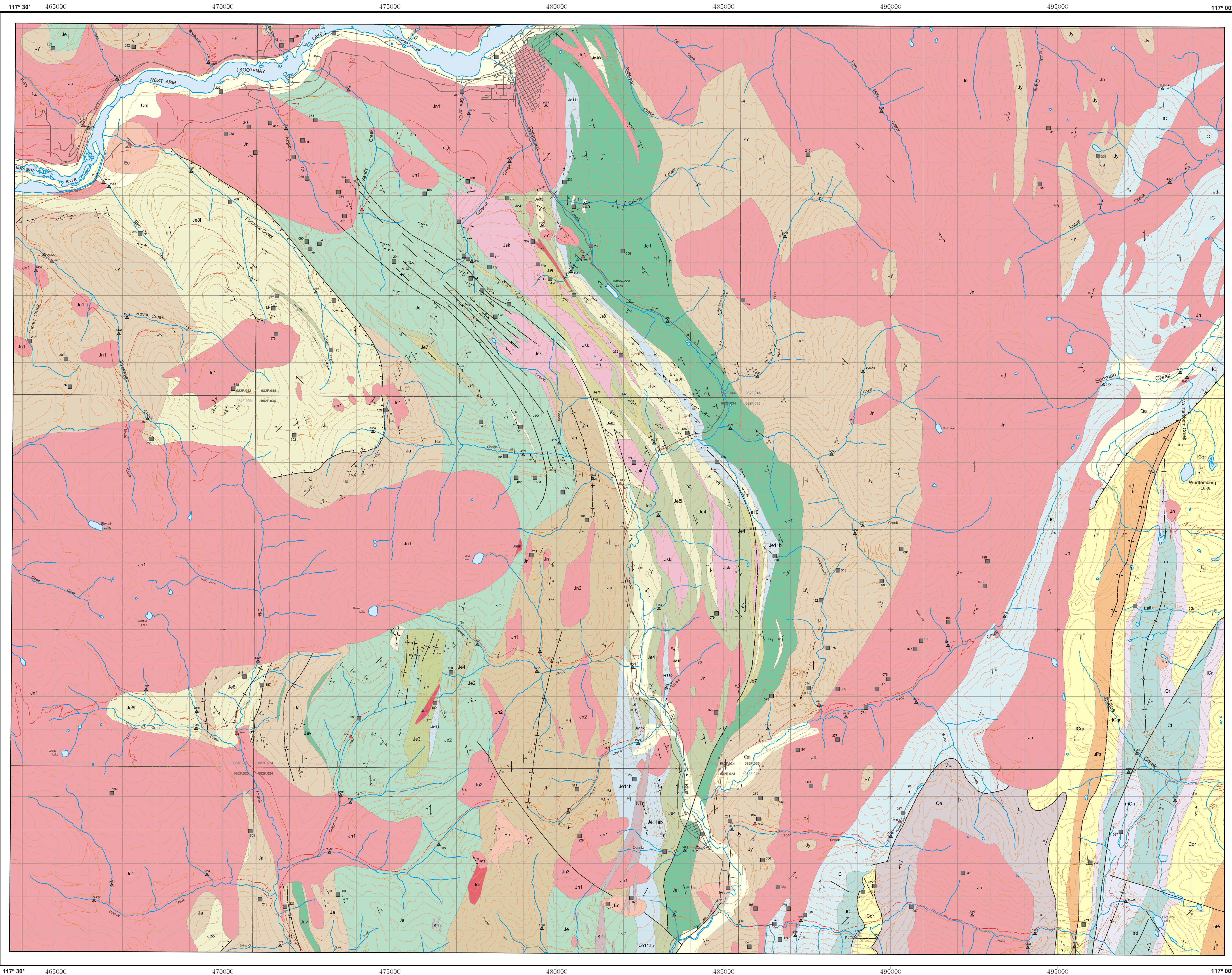
LEGEND

- QUATERNARY**
PLEISTOCENE AND RECENT
Qs1 UNCONSOLIDATED GLACIAL TILL, SAND AND GRAVEL
- TERTIARY AND OLDER**
Kd1 DIORITE DYKE
Ktr RHYOLITE, DACITE DYKE
- MIDDLE EOCENE**
Ec1 CORYELL INTRUSIONS: BIOTITE MONZONITE, SYENITE
- MESOZOIC**
JURASSIC
Jn1 NELSON INTRUSIONS: Jn1: GRANODIORITE, QUARTZ MONZONITE; Jn2: DIORITE PORPHYRY; Jn3: BRECCIA: 165-160 U-Pb ZIRCON DATES
Jsk SILVER KING INTRUSIONS: PLAGIOCLASE PORPHYRY; LOCALLY SHEARED; 174-178 Ma U-Pb ZIRCON DATES
Jmm MAMMOTH INTRUSIONS: PLAGIOCLASE-AUGITE PORPHYRY; DIORITE; AGE UNKNOWN
Jd1 FINE TO COARSE GRANULAR DIORITE; AGE UNKNOWN
- ROSSLAND GROUP**
HALL FORMATION
Jh1 SILTSTONE, SANDSTONE, CONGLOMERATE, ARGILLITE, MINOR LIMY UNIT
ELISE FORMATION
Jel1 MAFIC TO INTERMEDIATE FLOWS, MAFIC TUFF, EPICLASTIC DEPOSITS AND SUBVOLCANIC INTRUSIONS
UPPER ELISE
Jel11 TUFFACEOUS CONGLOMERATE; Jn11c: PREDOMINANTLY INTERMEDIATE VOLCANIC CLASTS; Jn11b: MIXED MAFIC TO INTERMEDIATE CLASTS; Jn11a: PREDOMINANTLY MAFIC CLASTS
Jel10 TUFFACEOUS SILTSTONE, SANDSTONE; Jn10a: PREDOMINANTLY MAFIC CLASTS
Jel8 ANDESITIC TUFF, MINOR BASALTIC TUFF; Jn8: LAPILLI TUFF WITH PLAGIOCLASE ± AUGITE BEARING VOLCANIC CLASTS; Jn8c: PLAGIOCLASE ± AUGITE CRYSTAL TUFF
Jel7 MAFIC TUFF; Jn7: FINE MAFIC TUFF
Jel6 PLAGIOCLASE ± AMPHIBOLE, AUGITE FLOW BRECCIA
Jel4 AUGITE ± PLAGIOCLASE MAFIC FLOW, FLOW BRECCIA
Jel3 MAFIC TO ANDESITIC LAPILLI, CRYSTAL AND FINE TUFF, REWORKED PYROCLASTIC DEPOSITS, SURGE DEPOSITS
Jel2 MAFIC LAPILLI TUFF WITH AUGITE ± PLAGIOCLASE BEARING VOLCANIC CLASTS
- LOWER ELISE**
Jel1 AUGITE ± PLAGIOCLASE MAFIC FLOWS, FLOW BRECCIA, MINOR SUBVOLCANIC INTRUSIONS
- ARCHIBALD FORMATION**
Ja1 SILTSTONE, SANDSTONE, ARGILLITE; COMMONLY RUSTY WEATHERING
Jas1 BASALT, ANDESITE, LAPILLI TUFF
- YMYR GROUP**
Jy1 ARGILLITE, SILTSTONE, GRIT, IMPURE LIMESTONE, MINOR CHERT, WACKE, COMMONLY RUSTY WEATHERING; CORRELATIVE WITH ARCHIBALD FORMATION
- PALEOZOIC**
LOWER AND MIDDLE ORDOVICIAN
ACTIVE FORMATION
Oa1 BLACK ARGILLITE, SLATE, QUARTZITE
- MIDDLE CAMBRIAN**
NELWAY FORMATION
mCn1 BLACK LIMESTONE, CALCAREOUS ARGILLITE, SLATE, PHYLLITE
- LOWER CAMBRIAN**
IC1 QUARTZITE, SCHIST, ARGILLITE, SLATE, LIMESTONE
- LAIB FORMATION**
Lg1 PHYLLITE, ARGILLITE, SCHIST, MICACEOUS QUARTZITE, MINOR LIMESTONE
- REVO FORMATION**
R1 ARGILLACEOUS QUARTZITE, ARGILLITE, MICACEOUS SCHIST
- QUARTZITE RANGE FORMATION**
ICqr1 WHITE, GREEN AND PINKISH QUARTZITE, MINOR SCHIST
- PROTEROZOIC**
NEOPROTEROZOIC
THREE SISTERS FORMATION
uPs1 GREEN AND GREY GRIT AND QUARTZITE; MINOR SCHIST AND LIMESTONE

- SYMBOLS**
CONTACT DEFINED, APPROXIMATE/ASSUMED
CONTACT OF ALLUVIUM
CLEAVAGE, SCHISTOSITY
BEDDING, INCLINED, OVERTURNED, UNKNOWN
FAULT, DEFINED APPROXIMATE, ASSUMED
THRUST FAULT
NORMAL FAULT
ANTICLINAL FOLD
SYNCLINAL FOLD
ANTICLINE OVERTURNED
MINERAL OCCURRENCE (MINFILE NUMBER)
BC REGIONAL GEOCHEMICAL SURVEY SITE (ID)
2003 GEOCHEMICAL SAMPLES (ID)
- BASE MAP INFORMATION**
NORTH AMERICAN DATUM 1983
UTM ZONE 11
TRANSVERSE MERCATOR PROJECTION
APPROXIMATE MEAN DECLINATION 2002
FOR CENTRE OF MAP 82F/04
CHANGING 8.9° WEST ANNUALLY
TOPOGRAPHIC BASE MAP MODIFIED FROM TRIM 1:20 000 AND WATERSHED ATLAS 1:50 000 DIGITAL DATA. CONTOUR INTERVALS ARE 100 METRES.



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Sources of Data

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Recommended Citation:

Höy, T., Dunne, K.P.E. and Jackaman, W. (2004); Geology of the Nelson map sheet (NTS 82F/06); B.C. Ministry of Energy and Mines, Geoscience Map 2004-2.

Mineral Occurrence Data

Minfile No.	Name	Status	Com1	Com2	Com3	Deposit type	Minfile No.	Name	Status	Com1	Com2	Com3	Deposit type
062FSW171	LAST CHANCE	Showing	Pb	Zn		Carbonate hosted Pb-Zn	062FSW179	GOLDEN EAGLE (L.4215)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW172	CHANCE	Prospect	Pb	Zn		Carbonate hosted Pb-Zn	062FSW180	GOLD KING (L.3241)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW173	ELM	Showing	Zn	W		Pb-Zn skarn	062FSW182	BEAR (L.1474)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW174	PORCUPINE (L.4034)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW183	FERNS (L.374)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW175	NEVADA (L.3504)	Dev. Pros.	Au	Pb		Au-Cu vein	062FSW184	CANADIAN BELLE (L.4783)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW176	BLUE WELLS (L.2636)	Showing	Pb				062FSW185	GOLDEN AGE	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW177	CENTER STAR (L.3766)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW186	ELPHINSTON	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW178	DUNDEE	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW187	ELPHINSTON	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW179	YANKEE GIRL (L.7712)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW188	HARRIST	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW180	TWO STAR	Prospect	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW189	PORTO RICCO (L.2385)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW181	MAY BLOSSOM (L.5666)	Showing	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW190	SPOTTED HORSE (L.5375)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW182	PROTECTION	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW191	COMMOCKO (L.14118)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW183	YMYR (L.1708)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW192	ELISE (L.1315)	Dev. Pros.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW184	YMYR GOOD HOPE	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW193	ARDONIA (L.13026)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW185	BLACKCOCK (L.2922)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW194	YMYR BELLE (L.4437)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW186	WILCOX	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW195	LOT-GOOD HOPE	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW187	FOG HORN (L.5204)	Showing	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW196	PIERRE	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW188	GOLD CLIP	Prospect	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW197	MYRTLE	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW189	DUMAS (L.5727)	Prospect	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW198	CATHERINE (L.14431)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW190	OLD TIMER (L.4662)	Prospect	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW199	HUMMINGBIRD	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW191	QUEEN VICTORIA (L.368)	Past Prod.	Cu			Cu skarn	062FSW200	MAMMOTH (L.1466)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW192	STAR (L.367)	Past Prod.	Cu			Cu skarn	062FSW201	COPPER KING (L.5153)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW193	EUREKA (L.552)	Past Prod.	Cu			Poly metallic veins Ag-Pb-Zn-Au	062FSW202	RAID (L.1466)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW194	CENTRAL (L.481)	Past Prod.	Cu			Poly metallic veins Ag-Pb-Zn-Au	062FSW203	WHITEWATER (L.529)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW195	KENNEL	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW204	JACK POT (L.4789)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW196	VENANDI (L.4757)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW205	BIGBORN	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW197	ROYAL CANADIAN (L.633)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW206	ACORN	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW198	GOOD HOPE	Dev. Pros.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW207	LUCKY-BELL-TAG	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW199	MIRACLE	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW208	JOSE (L.3025)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW200	MAY & BENNIE (L.3643)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW209	NORTH STAR (L.1449)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW201	GOLD HILL	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW210	FREE SILVER (L.2923)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW202	VENUS (L.429)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW211	KEITH	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW203	ATHABASCA (L.1589)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au	062FSW212	SHILOH (L.3847)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au
062FSW204	CALIFORNIA (L.1677)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au							
062FSW205	SHAMROCK (L.2234)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au							
062FSW206	VICTORIA-BESSIE	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au							
062FSW207	GREAT EASTERN (L.4152)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au							
062FSW208	DAYLIGHT-BESSIE	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au							
062FSW209	STARLIGHT (L.684)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au							
062FSW210	SILVER KING (L.141)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au							
062FSW211	REFUGED (L.4387)	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au							
062FSW212	NORTHERN LIGHT	Past Prod.	Au	Pb		Poly metallic veins Ag-Pb-Zn-Au							