ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: A GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT ON THE HAWK PROPERTY

TOTAL COST: $210,000

AUTHOR(S): Bob Lane

SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-4-467
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 4252700

YEAR OF WORK: 2008

PROPERTY NAME: Hawk

CLAIM NAME(S) (on which work was done): 416513, 507667

COMMODITIES SOUGHT: Copper, Gold and Silver

MINERAL INVENTORY MINFILE NUMBER(S),IF KNOWN: 092P 155

MINING DIVISION: Clinton
NTS / BCGS: **092P.086**

LATITUDE: **51° 52' 28" N**
LONGITUDE: **120° 55' 41" W** (at centre of work)
UTM Zone: 10 EASTING: 642500 NORTHING: 5749000

OWNER(S): Happy Creek Minerals Ltd.
FMC 203169

MAILING ADDRESS:
2300-1066 West Hastings street
Vancouver, B.C.
V6E 3X2

OPERATOR(S) [who paid for the work]: Same

MAILING ADDRESS: Same

REPORT KEYWORDS: The Hawk property is underlain by volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group, that are cut by coeval dikes of intermediate to mafic composition, and the eastern edge of the Takomkane batholith. The rocks are variably propylitic to potassic-altered and locally sheared and fractured. Fractures contain chlorite, epidote, k-feldspar, sericite, carbonate and trace to 5% combined bornite, chalcopyrite, and pyrite.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:
20466, 27816, 28398

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	2.5 Square kilometres	416513, 507667	25000
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	29.8	416513, 507667	50000
Electromagnetic			
Induced Polarization	16.5	416513, 507667	50000
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil	252	416513, 507667	30000
Silt			
Rock	32	416513, 507667	15000
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core	Log and sample 275.0 metres	416513, 507667	20000
Non-core			
RELATED TECHNICAL		416513, 507667	5000
Sampling / Assaying	88 core samples		
PREPATORY / PHYSICAL			
Line/grid (km)	16.5		15000
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
Other			
		TOTAL COST	$210,000

A GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT

ON THE

HAWK PROPERTY

CLINTON MINING DIVISION

BRITISH COLUMBIA

BCGS MAP: 092P.086

51° 52’ 28” N
120° 55’ 41” W

FOR

HAPPY CREEK MINERALS LTD
2304 – 1066 W. Hastings Street
Vancouver, BC V6C 3X2

PREPARED BY

Bob Lane, PGeo
Allnorth Consultants Limited
2011 PG Pulpmill Road
Prince George, BC V2K 5P5

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1. SUMMARY

The Hawk property is located approximately 50 km northeast of 100 Mile House in the south-central Cariboo region of British Columbia. The property is comprised of 17 contiguous mineral claims that cover 1477.4 ha on BCGS map sheet 092P.086. All of the claims are 100% owned by Happy Creek Minerals Ltd. Access to the property is provided by paved and well-maintained gravel roads.

The property is underlain primarily by volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group. In the central and northern parts of the property, numerous granodiorite and syenitic dykes, and a zoned gabbro to hornblende diorite stock, cut the stratified rocks. On the west side of the property, the stratified rocks are in contact with granodiorite to monzodiorite of the Late Triassic to Early Jurassic Takomkane batholith.

Alteration is widespread and ranges from locally intense hornfels to broad propylitic replacement zones dominated by epidote, chlorite and calcite. Randomly oriented fractures typically have narrow alteration envelopes comprised of epidote, chlorite and calcite that encompass fracture fillings, comprised primarily of quartz, K-feldspar, epidote, bornite, chalcopyrite and pyrite.

The Knob prospect (Minfile 092P 155), located along the western edge of the tenure, is the only recorded showing on the property. Mineralization at the Knob prospect is comprised of disseminated to vein and fracture-controlled pyrite, magnetite, bornite and chalcopyrite in association with epidote-rich calc-silicate replacements of selected zones within the intermediate volcanic and limy sedimentary host rocks.

Past exploration included prospecting, mapping trenching and diamond drilling over selected areas of the Hawk property with a focus on the Knob prospect area. Rock geochemical sampling and drilling has yielded encouraging copper and gold results including a 3.0 metre intersection in hole 82.4 that graded 0.79% Cu and 1.73 g/t Au.

The 2008 exploration program consisted of: logging and sampling core from two of three 2007 holes drilled in the central part of the property; property scale bedrock mapping over the central part of the property; expansion of an existing grid by 1000 metres to the south; completion of 16.5 line-km of 3D-IP geophysical surveying over the new grid and 29.8 line-km of magnetic geophysical surveying over the entire grid, and; collection and analysis of 252 grid–based soil geochemical samples and 36 rock geochemical samples.

Drill holes 07H-1 and 07H-2 from a three-hole drill program conducted by Happy Creek Minerals Ltd in 2007 were logged and sampled. The holes intersected a sequence of andesite flows and tuffs from top to bottom. Alteration is characterized by epidote+/-chlorite that occur as selective replacements of more permeable zones or as fracture fillings and/or veins with calcite and, where the intensity of alteration increases, with pyroxene, biotite, K-feldspar, sericite and quartz. Higher intensities of alteration are uncommon, but are typically accompanied by bornite and/or chalcopyrite. Trace amounts of very fine-grained disseminated pyrite typically occur throughout the holes, as do calcite stringers.

Both holes were sampled in their entirety and a total of 88 core samples were submitted for multi-element analysis. The best mineralized intervals were encountered in hole 07H-2 including a 9.15 m intersection from the top of the hole that averaged 930 ppm Cu and 134.3

ppb Au and a 3.05 intersection, starting at a downhole depth of 39.01 m, that graded 1178.4 ppm Cu and 8.8 ppb Au.

A total of 252 soil geochemical samples and 36 rock geochemical samples were collected during the 2008 field program. Two soil geochemical anomalies were identified: one is a narrow linear copper-gold anomaly on the western edge of the property and the other is a broad northerly tending copper anomaly that occurs on the east third of the grid. The best rock geochemical sample was collected from the north-central part of the grid and returned 2425.7 ppm Cu and 1803.6 ppb Au.

The 3D-IP geophysical survey identified an attractive chargeability high anomaly along the eastern edge of the grid that extends for more than 1200 metres in a north-westerly direction. This area coincides with the copper soil geochemical anomaly.

The Hawk property lies immediately east of the Takomkane batholith and is underlain predominantly by intermediate volcanic rocks of the Nicola Group. The volcanic pile is cut by a number dykes and plugs, some of which may be genetically related to the batholith. Narrow, well mineralized fractures and/or veinlets occur within broad zones of propylitic alteration and indicate potential for the presence of a buried alkali copper-gold porphyry system. Additionally, well-mineralized, narrow epidote-rich replacements suggest potential for the presence of economic calc-silicate or skarn mineralization.

Continued evaluation of the Hawk property, primarily for alkali porphyry copper-gold deposits, is recommended. Specifically, diamond drilling of the chargeability high anomaly identified in the 2008 geophysical survey is recommended to evaluate the bulk tonnage potential of the coincident geochemical-geophysical anomaly. The estimated cost for a proposed phase one drilling program, consisting of 1400 m of NQ drilling, is $403,000.

2. INTRODUCTION AND TERMS OF REFERENCE

Happy Creek Minerals Ltd (Happy Creek) contracted Allnorth Consultants Limited (Allnorth) to log and sample core from two of three NQ holes drilled in 2007 and to conduct a bedrock mapping program over the central portion of the property. Prior to the field visit the author acquired and reviewed the historical information including published and unpublished reports and private corporate files summarizing previous exploration work on the property.

This report is supplemented by published and available studies that document bedrock mapping and geological fieldwork conducted by the Geological Survey Branch of the provincial British Columbia Ministry of Energy, Mines and Petroleum Resources.

3. PROPERTY DESCRIPTION AND LOCATION

3.1 Accessibility and Infrastructure

The Hawk property is located approximately 50 km northeast of 100 Mile House and approximately 80 km southeast of Williams Lake in the south Cariboo region of British Columbia (Figure 1). Access to the property is by paved and gravel roads. To access the centre of the property, travel two km north of 100 Mile House on Highway 97 and turn right onto the Canim-Hendrix

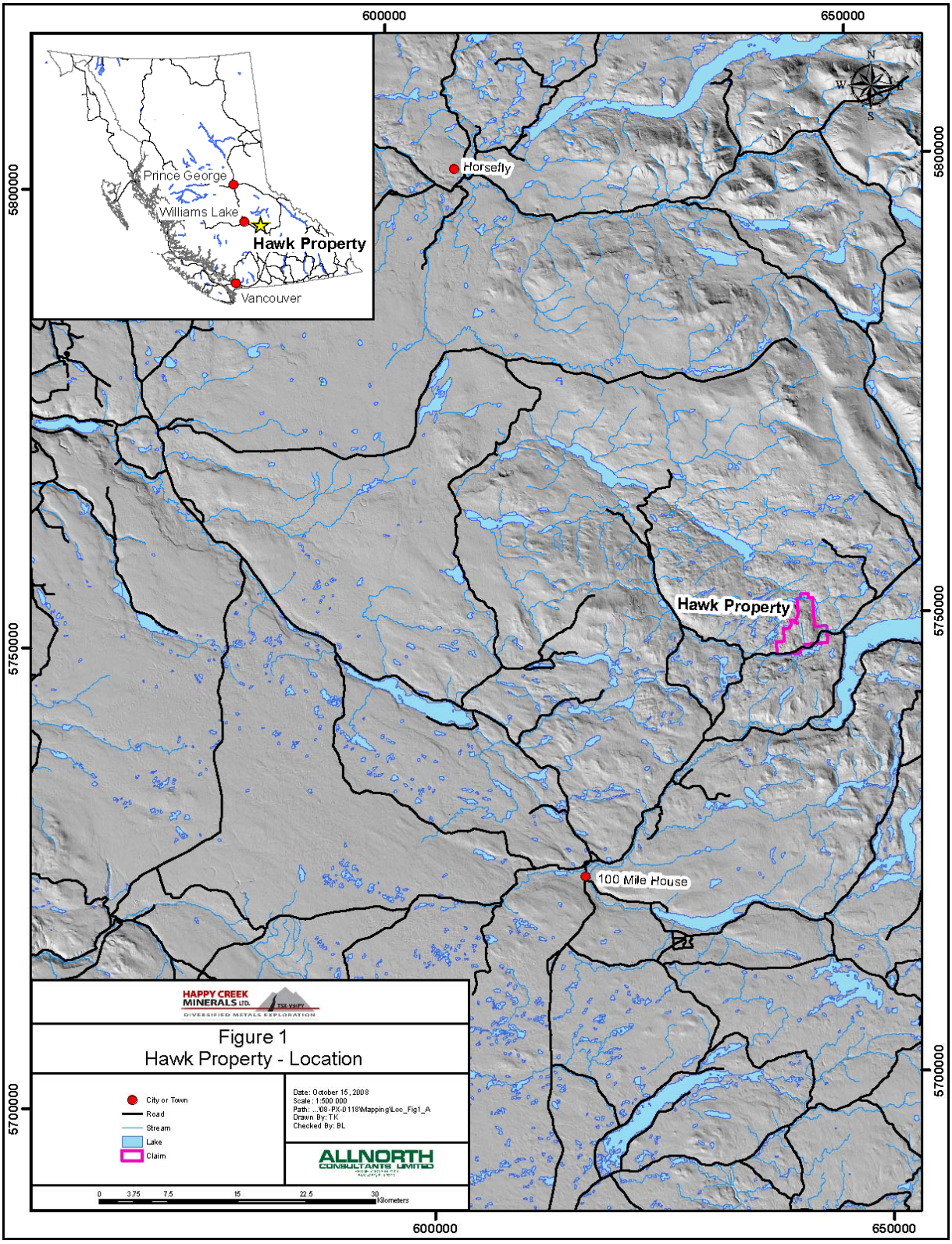


Figure 1: Hawk Property Location

road. Travel this road to Forest Grove and turn right at the 3 way stop. Continue on the Canim-Hendrix road for a total of 50 km from Highway 97 and turn left onto Eagle Creek road. Follow Eagle Creek road for approximately 3.5 km to the Schoolhouse Lake forestry road. The Schoolhouse Lake road climbs approximately 300 m in elevation through eight switchbacks over its first 2 km. The centre of the Hawk property is accessed via the Schoolhouse Lake road, approximately 4.3 km from the start of the road. The western side of the property borders Schoolhouse Lake Provincial Park.

Helicopter access is available via numerous charter companies based out of Williams Lake. Williams Lake and 100 Mile House are each situated along Highway 97 and each had a district population in excess of 10 000 persons. Most services and supplies are available in these resource-based communities.

3.2 Mineral Tenure Information

The Hawk property is comprised of 17 contiguous mineral tenures. The tenures cover 1477.397 hectares of land within the BCGS map 092P.086 and is located between latitudes 51°50'56" and 51°54'26" North and longitudes 120°58"49" and 120° 54'14" West. The centre of the claim block is located at 51°52'28" North, and 120°55'41" West. All of the mineral tenures are 100%-owned by Happy Creek Minerals Ltd and their anniversary dates are listed in Table 1.

Table 1: List of Mineral Tenures and Status (as of August 04, 2008)

Tenure Number	Tenure Type	Claim Name	Map Number	Good To Date	Status	Area (ha)
409978	Mineral	HAWK 1	092P086	2012/dec/31	GOOD	25
409979	Mineral	HAWK 2	092P086	2012/dec/31	GOOD	25
409980	Mineral	HAWK 3	092P086	2012/dec/31	GOOD	25
409981	Mineral	HAWK 4	092P086	2012/dec/31	GOOD	25
413036	Mineral	HAWK 5	092P086	2012/dec/31	GOOD	25
413037	Mineral	HAWK 6	092P086	2012/dec/31	GOOD	25
416513	Mineral	HAWK 7	092P086	2012/dec/31	GOOD	25
416514	Mineral	HAWK 8	092P086	2012/dec/31	GOOD	25
505254	Mineral	HAWK 9	092P	2012/dec/31	GOOD	279.34
508185	Mineral	HAWK 10	092P	2012/dec/31	GOOD	79.788
517573	Mineral	HAWKO	092P	2012/dec/31	GOOD	59.859
517575	Mineral	HAWKO-2	092P	2012/dec/31	GOOD	19.95
534033	Mineral	GREY 3	092P	2010/dec/31	GOOD	99.812
554088	Mineral	HAWK 11	092P	2012/dec/31	GOOD	39.89
554089	Mineral	HAWK12	092P	2012/dec/31	GOOD	19.956
559284	Mineral	HAWK13	092P	2012/dec/31	GOOD	319.42
560651	Mineral	HAWK 14	092P	2008/dec/31	GOOD	359.39
					Total	1477.397

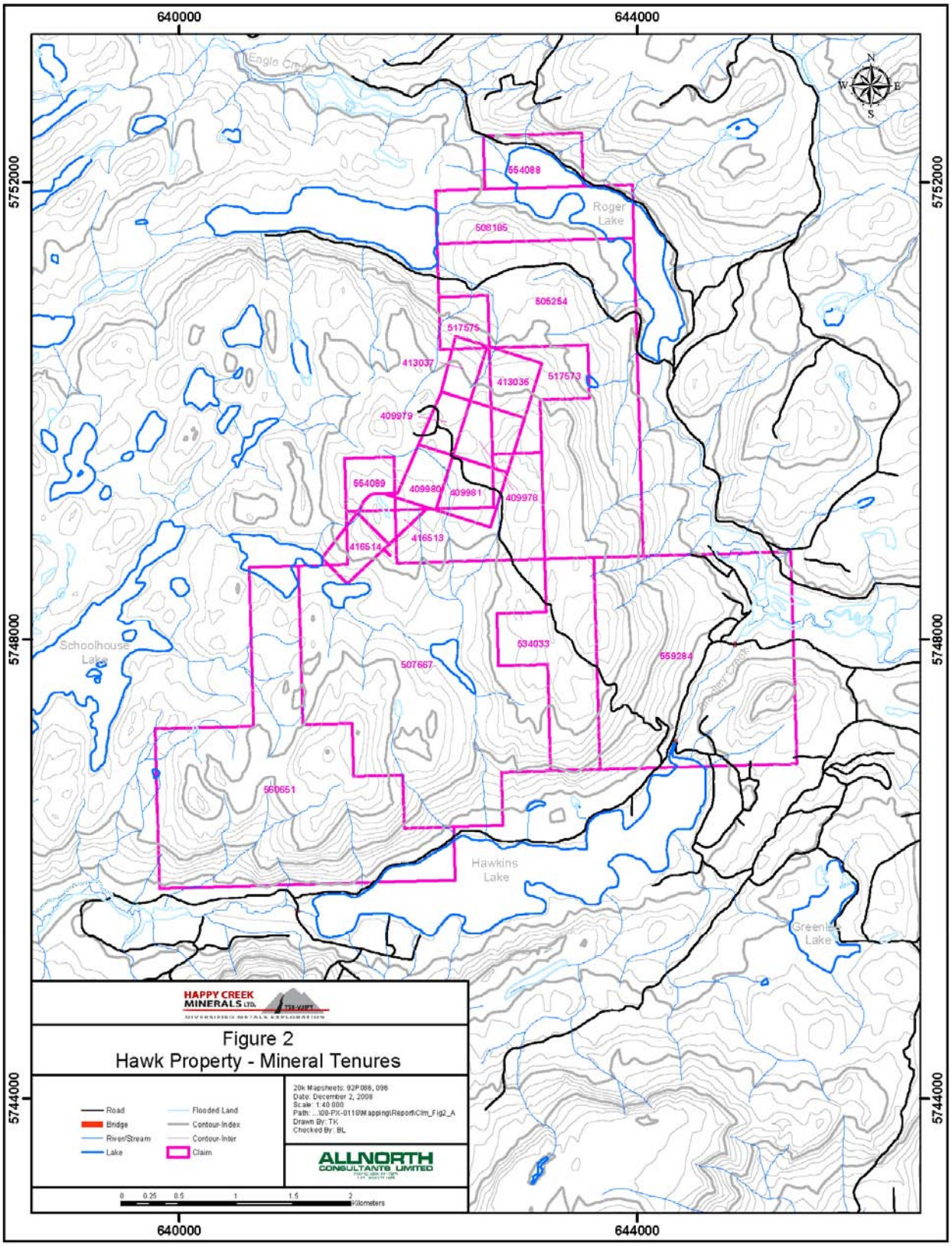


Figure 2: Hawk Property Mineral Tenures

3.3 Physiography and Climate

The Hawk property is located within the transition zone between the Interior Wet Belt and the Interior Dry Belt biogeoclimatic zones within the Quesnel Highlands physiographic region. The majority of the property is located upon a broad, undulating plateau that ranges between 1100 and 1800 m asl. The property borders Schoolhouse Lake Provincial Park to the west.

The area has been extensively logged and the remaining forested areas are covered by a mixture of mature and juvenile stands of lodgepole pine, douglas fir, paper birch and aspen. Areas of the Interior Wet Belt consist of western red cedar and white spruce. The ground cover is dominated by alder and willow saplings as well as wild rose and thimbleberry shrubs. The property contains several small swamps, lakes and water courses.

The climate is typical of the northern interior of British Columbia. Summer temperatures average a daytime high in the 20°C range with occasional temperatures reaching the low 30°C range. October through April sees average sub-zero temperatures with extreme lows reaching -30°C from November through March. Annual precipitation including snowfall averages about 50 cm. Mineral exploration may be conducted from mid-April to early December; although winter drilling is possible with a suitable water source.

4. HISTORY

Previous exploration dates back to as early as 1978 with the discovery of the Knob prospect by Alfred and Clay Robinson. This started various exploration programs ranging from geological mapping to geochemical and geophysical surveying. In 1995, the BC government established Schoolhouse Lake Provincial Park which is situated west of the current tenure bondary. The park boundary bisects the original Knob (Clay) prospect and the BC government is currently being petitioned by Happy Creek to allow mineral exploration to continue within that area of the park. The Hawk property has been previously reported on as the Clay mineral claims, the Hawkins Lake property and the Robby claim group. A detailed account of the exploration history of the property is provided by Blann (2008); a summary of the past activity is listed in Table 2.

5. GEOLOGICAL SETTING

5.1 Regional Geology

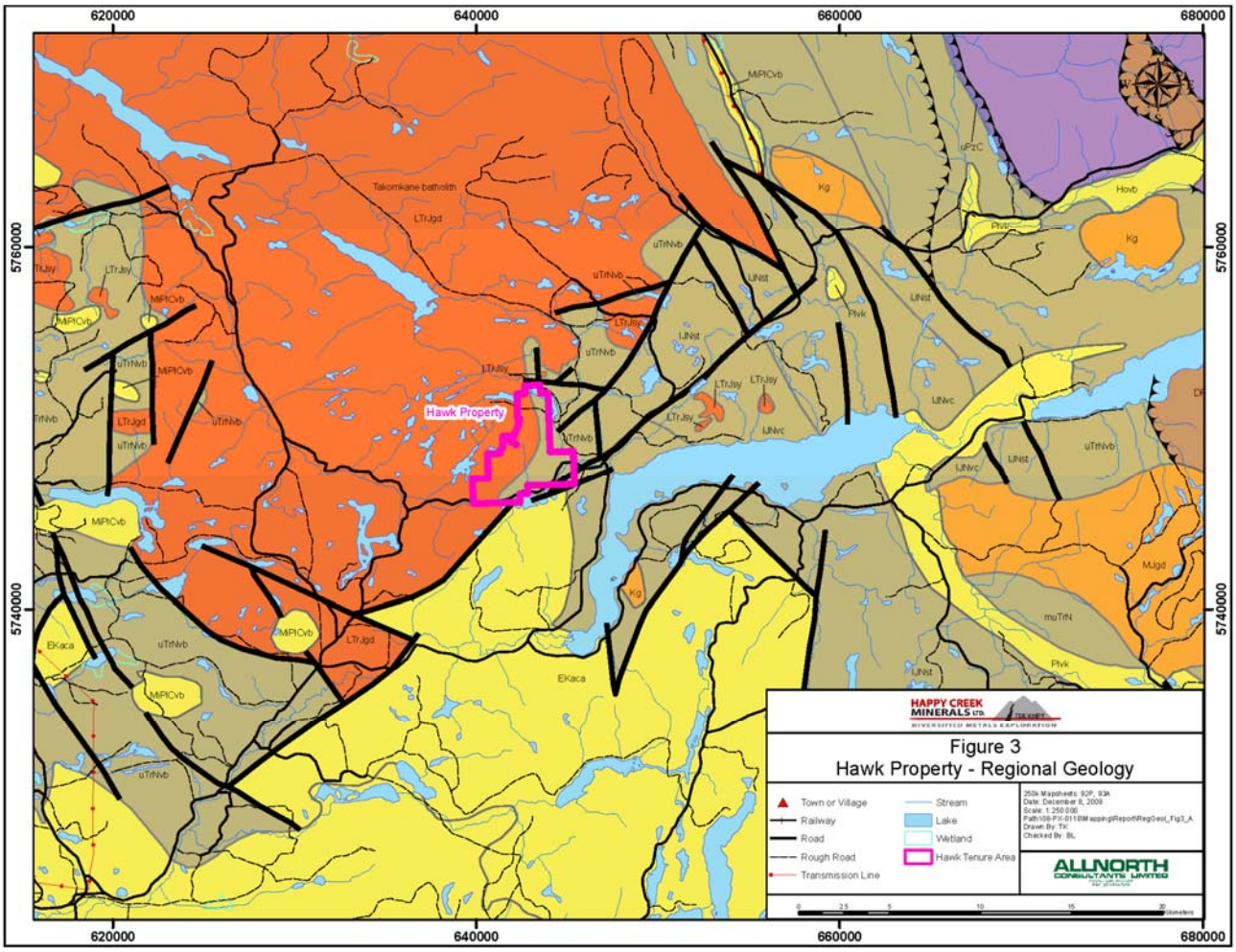
The Hawk property is located within the Quesnel Terrane, part of the Intermontane Tectonic Belt, in the south Cariboo region of central British Columbia (Figure 3). The area of the Hawk property is underlain predominantly by volcanic, volcaniclastic and sedimentary rocks of the Middle to Upper Triassic Nicola Group as well as by ultramafic to granitic plutons and stocks of Late Triassic-Early Jurassic and Jurassic-Cretaceous age (Campbell, 1978; Campbell and Tipper, 1971). These rocks are included as part of the Quesnel magmatic arc, which hosts a number of porphyry copper-gold deposits. Younger rocks within this region include mid-Cretaceous granitic stocks and batholiths, Eocene volcanic and sedimentary rocks, as well as Quaternary basalt (Schiarizza and Boulton, 2006).

The Late Triassic to Early Jurassic Takomkane batholith lies along the western edge of the property. It is in sharp contact with stratified rocks of the Nicola Group that lie immediately to the east. A sample of quartz monzodiorite collected from the Boss Creek area to the north of the Hawk property, yielded a preliminary U-Pb date of 202.5+/-0.5 Ma (Schiarizza and Macauley, 2007).

The Takomkane batholith is host to the former Boss Mountain molybdenum mine, which is located 16 km northwest of the Hen property. Mineralization is genetically related to the Cretaceous Boss Mountain monzogranite stock (Soregaroli and Nelson, 1976). The Boss Mountain mine operated from 1965 to 1971 and from 1974 to 1983 producing 15,546 kg of molybdenum from the milling of 7.588 million tonnes of ore.

Table 2: Summary of Previous Work

Year	**Exploration Activities** (summarized from Blann et al., 2005)
1978	Discovery of Knob prospect by Alfred and Clay Robinson.
1979	Boville Resources optioned the property and conducted geological mapping, VLF-EM and Max-Min surveys.
1982	Alcare Resources Incorporated conducted EM and magnetometer surveys plus 11 BQ diamond drill holes around Knob showing which returned 2.2% Cu, 0.82 oz/t Ag and 0.179 oz/t Au over 2m in hole 82-5.
1984 to 1985	Noranda Exploration Company Limited optioned the property from Alcare Resources and conducted geological mapping, soil sampling, magnetometer and IP surveys as well as a limited diamond drilling program. Several copper anomalies and two IP chargeability zones were outlined.
1988	Sheba Copper Mines Limited optioned the property and contracted R.E. Gale to assess the area and make recommendations. Gale found 3 areas near the Knob showing that deserved further work.
1990	Princeton Mining Corporation optioned the property and extended Noranda's grid. Further soil sampling and geological mapping is conducted. Roger Lake showing was investigated and found to be of limited extent with low grade material.
1994	Pioneer Metals Corporation entered into an agreement leading to an option and conducted a limited detailed soil sampling survey on one copper anomaly previously discovered. The claim reverted back to Alfred Robinson who held the property until 1999.
2004	Happy Creek Minerals Limited staked Hawk property and conducted a preliminary prospecting survey around known showings and recently logged areas.
2005	Happy Creek conducted a limited rock geochemical sampling program.
2007	Happy Creek conducted rock, silt and soil geochemical sampling, bedrock mapping, a 3D-IP geophysical survey and drilled three NQ holes totalling 379.15 m.



Regional Geology

Fault
Normal Fault
Thrust Fault

Stratified Rocks

Cenozoic

Undifferentiated: basaltic volcanic rocks (Hovb, MiPlCvb, Plvk); calc-alkaline volcanic rocks (EKaca)

Middle Triassic to Lower Jurassic

Nicola Group: volcaniclastic rocks (IJNvc); argillite, greywacke conglomerate turbidites (IJNst); basaltic volcanic rocks (uTrNvb); undivided sedimentary rocks (muTrN)

Upper Proterozoic to Upper Paleozoic

Undifferentiated: ultramafic rocks (uPzB); marine sedimentary and volcanic rocks (DPF)

Intrusive Rocks

Late Triassic to Cretaceous

Undifferentiated: undivided (Kg); granodiorite (MJgd)

Late Triassic to Early Jurassic

Unnamed: granodiorite (LTrJgd); syenite to monzonite (LTrJsy)

Metamorphic Rocks

Upper Proterozoic to Paleozoic

Snowshoe Group: undivided (uPrPzS)

Proterozoic to Paleozoic

Undifferentiated: serpentinite (uPzC); orthogneiss (DMQ)

Source: Digital Geology Map of British Columbia, BC Ministry of Energy and Mines, Geofile 2005-2

Figure 3: Regional Geology

5.2 Property Geology, Alteration and Mineralization

The Hawk property is underlain primarily by intermediate volcanics and minor related sediments and limestone of the Nicola Group. These units are massive to locally well-bedded. The volcanic-dominated package is comprised of intermediate augite-phyric flows, ash, crystal and lithic tuffs. Local volcanic conglomerate/ breccia are likely part of the Breccia Subunit of the Nicola Group as described by (Schiarizza and Boulton, 2006). The units strike to the north and generally dip steeply to the west.

The Late Triassic to Early Jurassic Takomkane batholith lies in contact with the volcanic package immediately west of the property. The Takomkane batholith is a composite intrusion comprised of at least four rock types: monzodiorite, quartz monzodiorite, biotite porphyry and hornblende porphyry (MacDonald, et al., 1995). The contact between the Takomkane and the Nicola Group volcanic assemblage does cross onto the southwest corner of the property. Numerous dykes and small plugs intrude the volcanic pile and range from syenite to gabbro. Most of the dykes are weakly altered, but are at least spatially associated with zones of primarily propylitic alteration in the enclosing volcanic rocks.

Alteration on the property is widespread and ranges from narrow replacement zones (calc-silicate and skarn) to broad areas of weak to moderate propylitic alteration. At the Knob prospect (Minfile 092P 155), located along the western edge of the property, locally intense alteration of volcanic breccia and limy sediments (Bishop, 1990) are replaced by a combination of pyroxene, epidote, amphibole, actinolite, calcite and wollastonite.

K-feldspar-magnetite occurs in both volcanic and intrusive rocks (Blann, 2008). Mineralization at the Knob prospect is comprised of disseminated to vein and fracture-controlled pyrite, magnetite, bornite and chalcopyrite in association with epidote-rich calc-silicate replacements. Trace amounts of silver and mercury tellurides, hessite and coloradoite respectively, are locally associated with bornite (Baerg, 1985). A 5-metre chip sample across the main zone of the Knob prospect averaged 0.88% Cu and 1.07 g/t Au (Blann and Ridley, 2005). Float sampled in the vicinity of the Knob prospect has returned high copper-gold grades, including samples of altered volcanic breccia containing coarse clots of bornite/digenite that graded 2.174% Cu, 5.35 g/t Au and 15.0 g/t Ag (Blann and Ridley, 2006).

Widespread weak to locally moderate propylitic alteration of the volcanic rocks, and some of the dykes, is dominated by epidote+/-chlorite+/-calcite. The alteration occurs as irregular diffuse patches, discontinuous elongate zones (controlled by permeable beds) and randomly oriented fracture-fillings and narrow veins. More intense alteration is marked by the presence of K-feldspar+/-magentite and is commonly accompanied by copper sulphide minerals. These features typically have epidote-rich envelopes that are 1 to 3x the width of the fracture-filling or vein. This style of alteration and mineralization is consistent with an alkalic porphyry copper-gold system.

6. 2008 EXPLORATION PROGRAM

The exploration program was initiated in May of 2008 and was completed by August of 2008.

The 2008 exploration program consisted of:

- re-logging and sampling core from two holes of a three-hole drilling program completed by Happy Creek in 2007;
- property-scale bedrock mapping over the central portion of the property;
- rock and soil geochemical sampling and prospecting, and;
- 16.5 line-km of 3D-IP and 29.8 line-km of magnetometer geophysical surveying

6.1 Logging of 2007 Drill Core

6.1.1 Drill Hole Summary Descriptions

Diamond drill holes 07-HK-01 to 07-HK-03 were drilled in November, 2007, but due to personnel constraints, only core from hole 07-HK-03 was logged in 2007. Core was cross-stacked, covered and stored on private property with core from some other Happy Creek properties. Logging of core from holes 07-HK-01 and 07-HK-02 took place in May, 2008. Coordinates for the two holes logged are listed in Table 3 and the locations of the drill holes are shown in Figure 4. Cross-sections for the two holes are presented in Appendix A. Photographs of the core are shown in Appendix B. Geological and geotechnical logs are presented in Appendices C and D, respectively. Geochemical results are shown in Appendix E and a QA/QC report is in Appendix F.

Table 3: Drill Hole Collar Locations

DDH Name	UTM Easting	UTM Northing	Elevation (m)	Azimuth	Dip	Length Drilled (m)
07-HK-01	642673	5749703	1044	0°	-90°	121.31
07-HK-02	641983	5749438	1029	290°	-45°	154.84

DDH 07-HK-01 (07H-1)

Diamond drill hole 07-HK-01 was collared approximately 500 m east of the Knob prospect. The vertical hole collared in bedrock at a depth of 4.14 m and was stopped short of its target, at a depth of 121.31 metres, after drill rods repeatedly became stuck.

The hole intersected a sequence of andesite flows from the collar to a depth of 61.42 m. The flows coarsen downhole with a sharp increase in large clasts which may define the base of each flow unit. A fault zone, consisting of an increase in fracturing and broken zones, as well as gouge-filled fractures, occurs from 26.45 to 56.40 m. A porphyritic volcaniclastic unit (including minor aphanitic sections and minor phaneritic sections) was intersected from 61.42 m to the end of the hole.

Epidote, chlorite and calcite are common throughout the length of the hole. Epidote+/-chlorite occurs as patchy replacements in the more permeable zones of the volcanics, as alteration envelopes on a number of veinlets and locally as a constituent of veinlets.

Narrow calcite stringers occur from 6.00 m to the end of the hole. The calcite veins

are white to pale pink. Biotite occurs as a minor constituent of some of the calcite veinlets and also as disperse patches which become increasingly common downhole to 17.75 m. Sericite and K-feldspar occur locally in or adjacent to select veinlets. Hematite commonly occurs on the margins of calcite veinlets from 6.00 to 54.70 m. Quartz veinlets are rare. Carbonate is typically isolated to the areas near veinlets, and rarely is an interstitial fill.

Trace amounts of very fine-grained disseminated chalcopyrite (and/or pyrite) occur from 4.14 to 61.42 m. Pyrite and lesser chalcopyrite occur from 26.45 to 61.42 m as very fine grained disseminations within fault zones, but also within the volcaniclastic unit. Magnetite is disseminated and accounts for up to 4% of the core locally, but is typically present in amounts less than 1%.

DDH 07-HK-02 (07H-2)

Drill hole 07-HK-02 was collared approximately 500 m south of the Knob prospect. The hole was drilled at an azimuth of 290 degrees and dip of -45 degrees. The hole collared in bedrock at a depth of 7.05 m and was drilled to a depth of 154.84 m.

The hole intersected a dark greenish-grey tuff from the top of the hole to a depth of 58.19 m. The remainder of the hole intersected a dusky green tuff. A 12 m-wide sequence of porphyritic lithic tuff was intersected from 104.55 to 116.45 m. The upper, dark greenish-grey tuff appears bedded and foliated near the top of the hole, but becomes more granular downhole to 58.19 m. From 58.19 to 116.45 m the tuff is weakly to moderately foliated. From 116.45 m to the end of the hole, the tuff is massive to weakly foliated. Foliation and fracture oritentations typically range from 40 to 60 degrees to the core axis.

Two narrow hornblende-feldspar porphyry dykes were cut at 56.56 m and at 63.94 m. The upper and lower contacts of each dyke are sharp and occur at 45 degrees to the core axis.

Magnetite, albite, and epidote occur as diffuse patches throughout the tuff which gives the core a mottled appearance. Magnetite is more abundant near the top of the hole to 60.30 m, where it can account for up to 20% locally, but decreases in abundance downhole to no more than approximately 3%.

Trace amounts of sulphide mineralization was noted throughout most of the hole. Bornite occurs as rare coarse-grained aggregates in association with epidote near the top of the hole, and in epidote-calcite stringers at 39.25 m. Trace amounts of chalcopyrite and pyrite form wispy bands, but are uncommon, and pyrite occurs locally as a minor constituent of calcite-dominated veinlets. Chalcocite locally occurs as thin coatings on other sulphide minerals. Up to 1% pyrrhotite occurs as a component of the groundmass from 104.55 to 116.46 m. Trace amounts of galena were noted at 100.15 m. Calcite-dominated veinlets are common and comprise approximately 1% of the total core volume.

6.1.2 Geochemical Results

A total of 88 core samples (excluding blanks and standards) were submitted to Acme Analytical Laboratories in Vancouver BC for multi-element analysis. Geochemical results from hole 07-HK-01 were disappointing, but the top of hole 07-HK-02 did yield a couple of narrow intersections of note (Table 4) including a 9.15 m interval grading 930 ppm Cu and 134.3 ppb Au. The better values in hole 07-HK-02 correspond with low angle carbonate-epidote-sulphide veinlets where bornite+/-chalcocite+/-chalcopyrite was noted in the log.

Table 4: Selected Geochemical Results from Drill Hole 07-HK-02

Drill Hole	From	To	Length (m)	Sample	Cu ppm	Au ppb
07-HK-02	11.58	14.63	3.05	659702	1832.4	229.9
07-HK-02	14.63	17.68	3.05	659703	497.7	79.8
07-HK-02	17.68	20.73	3.05	659704	460	93.2
Weighted Average			9.15		930	134.3
07-HK-02	39.01	42.06	3.05	659713	1178.4	8.8

6.1.3 Methodology and Data Verification

Drill holes were logged for geological and basic geotechnical properties. All core samples were selected by site geologists. Each section of core to be sampled was clearly identified and then marked with a centre line and halved using a water-cooled diamond saw. Eighty-eight (88) core samples were labelled, cut and bagged. Thirteen (13) quality control samples (blanks, duplicates and standards) were inserted into the sample stream at regular intervals following a prescribed sequence: included in each batch of twenty core samples are one certified reference standard, one laboratory duplicate, one blank sample comprised of sterile pulp and one duplicate core sample.

Each sample was split into two parts, half remained on the property in storage and the other half was shipped to the Acme Laboratories in Vancouver for chemical analysis. All the core samples collected during the 2008 re-logging program were selected, sealed and shipped to Acme Analytical Laboratories in Vancouver, BC. Individual samples were labeled, placed in plastic sample bags, sealed and stored at a secure facility in Forestgrove, BC. Groups of samples were then placed into durable rice bags and secured for shipping. The samples were delivered via carrier to Acme Laboratory in Vancouver, BC. All samples were crushed, pulverized and the resulting sample pulps were analyzed. The drill core was jaw crushed until 70% passed through a 10 mesh (2 mm) screen. The sample was split and a 250 g riffle split sample was then pulverized in a mild-steel ring-and-puck mill until 95% passed through a 150 mesh (100 µm) screen. The remaining coarse reject portions of the samples remain in storage at the Acme Labs storage facility in Vancouver. The samples were analyzed using the Acme Labs assay procedure 1DX-15, a 1:1:1 Aqua Regia Digestion with an ICP-MS finish. The reader is referred to http://www.acmelab.com for details of these analytical procedures and the assay certificates are located in Appendix F.

Rock Quality Designation (RQD) was conducted on the recovered core greater than 100 mm in length. Core pieces that were not hard and sound were not

counted even though they were 100 mm in length (Deere, 1964). RQD is defined as the quotient: RQD = (Sum of 10)/ltot * 100%

Where: (Sum of 10) = sum of length of core pieces equal to or longer than 100 mm; and Ltot = total length of core run. RQD index is classified using Table 5.

Table 5: RQD Classification Table

RQD	Rock mass quality
< 25%	Very poor
25-50%	Poor
50-75%	Fair
75-90%	Good
90-100%	Excellent

6.2 Bedrock Mapping

Bedrock mapping of the central part of the Hawk property took place between May 23 and June 25, 2008, by a 4-person team consisting of Mark Ralph and Sheri Burt (PGeo) and assistants Amber Marko and Brian Kornichuk. The mapping project was managed by Bob Lane (PGeo). Exposed bedrock is scarce in the northern part of the map area, but is more plentiful in the central plateau area where there are abundant, albeit small ovoid outcrops.

The property is primarily underlain by volcanic rocks of the Upper Triassic to Lower Jurassic Nicola Group (Figure 4, in pocket). Minor intrusions of hornblende granodiorite, gabbro and syenite cut the volcanic package in the central and northern parts of the map area. Granodiorite of the Late Triassic to Early Jurassic Takomkane batholith lies to the west of the property, but the southeast trending contact does cross the southwest corner of the map area. A west trending fault crosses the central part of the map area and truncates several of the north and northwest-trending dykes.

The Nicola Group is composed primarily of a massive to locally well-bedded sequence of augite-phyric andesite flows, andesitic tuff and crystal tuff, and lesser volcanic conglomerate/ breccia. The most common rocks in the package are augite-phyric andesite flows (map unit Ap). The flows are medium to dark grey and greenish-grey, and are characterized by phenocrysts of augite, 1 to 20 mm across, that locally comprise up to 15% of the total rock volume. Layers of well-bedded andesitic tuff and crystal tuff (map unit At) are interbedded with the other volcanic units. The tuffaceous units are typically medium to dark grey and greenish-grey, fine-grained with occasional mm-sized phenocrysts of augite. Augite crystals can account for up to 10% of the total rock volume and lithic clasts are common. Locally the unit is more of a volcanic conglomerate /breccia where unsorted to poorly sorted, subrounded to subangular, pebbles and cobbles of primarily volcanic material are set in tuffaceous matrix. The units are interbedded and, without a good weathered surface, can be very similar in appearance and difficult to distinguish from each other.

A small gabbro (map unit Gb) plug occurs in the central part of the claim group. The gabbro is black, coarse-grained and contains up to 2% disseminated pyrite. It is rimmed by a medium to coarse-grained bladed hornblende porphyry to equigranular granodiorite (map unit hGd) that ranges from relatively unaltered to intensely iron carbonate-altered.

A similar intensely iron carbonate-altered intrusion occurs in the northern part of the map area. It is medium-grained and has a 'crowded porphyry" appearance defined by subhedral to euhedral feldpsars that stand out against the chlorite-altered mafic mineral groundmass. Iron-carbonate alteration consists of common patches of sparry calcite intergrown with euhedral pyrite and an iron oxide stain that penetrates five or more cm into the rock. Pink syenite (map unit Sy) and pale grey granodiorite (map unit Gd) dykes occur across the central part of the map area and generally trend to the north or northwest.

The volcanic rocks display widespread weak to moderate propylitic alteration in the form of irregular diffuse patches, discontinuous elongate zones (controlled by permeable beds) and fracture-fillings of epidote-calcite+/-chlorite. Trace to 1-2% disseminated pyrite is common locally and chalcopyrite is uncommon. Narrow fractures containing epidote-calcite+/-chlorite with K-feldspar are less common, but where K-feldspar is present it is commonly accompanied by bornite or chalcopyrite.

6.3 Geochemical Surveying

6.3.1 Soil Geochemical Survey

A total of 252 soil samples were collected in 2008 from grid lines that were added to those established in 2007. The 2008 grid additions consist of five east-west lines spaced 200 m apart, lines L3200 to L4000, and short extensions that were added to the west and east ends of lines L4200N to L4600N. In total approximately 11.5 line-km of new grid was soil sampled. Samples were collected at 50 m intervals on all of the lines. Samples were taken from the 'C' soil horizon using either a mattock or tree planting shovel. Figures 6 through 8 illustrate the distribution of gold, copper and iron in soils. Full analytical results area presented in Appendices H and I.

All samples were dried at 60°C, and sieved through -80 mesh. The resulting 100 g samples were dried again at 60°C and analyzed. The remaining coarse reject portions of the samples remain in storage at Acme. The samples were analyzed using Acme's assay procedure 1DX-15; a 1:1:1 Aqua Regia Digestion with an ICP-MS finish. The reader is referred to http://www.acmelab.com for details of these analytical procedures. A statistical analysis of the soil geochemical results for copper and gold is shown in Table 6. Full analytical results are presented in Appendices H and I.

Table 6: Statistical Results for 2008 Soil Samples

# of Samples = 252				Percentiles		
	Min	Max	Mean	80%	90%	95%
Gold (Au ppb)	0.5	182.3	3.0	2.4	3.8	5.7
Copper (Cu ppm)	10.8	315.8	50.6	68.54	105.72	135.2
Iron (Fe %)	1.00	6.40	2.40	2.79	3.31	3.87

*For statistical purposes the below detection limit values are equal to ½ the detection limit based on the detection limit for each element.

Two soil geochemical anomalies were outlined. The first anomaly is a narrow linear copper-gold anomaly on the western edge of the property that trends toward the Knob prospect (Figure 7). The highest gold value (182.3 ppb Au) came from the

west end of grid line L3800N at station 4+50E and is part of the central area of the main grid. The second anomaly is a broad semi-continuous northerly trending band of 95th percentile copper values that extend from grid line L3200N to L4600N (Figure 6). The copper anomaly coincides with a similar sized iron anomaly suggesting a link between anomalous copper and the presence of high levels of iron in the soils.

6.3.2 Rock Geochemical Survey

A total of 36 rock samples were collected for geochemical analysis from the Hawk property in 2008. Samples were secured in labelled polyethylene bags and shipped to Acme Analytical Laboratories in Vancouver for analysis using ICP-MS methods. Sample locations are shown on Figure 5 and results for selected elements are shown on Figures 4 (in pocket) and Figures 6 through 8. Notable geochemical results are presented in Table 7. Full analytical results are presented in Appendices H and I.

All rock samples were crushed, pulverized and the resulting sample pulps were analyzed. The rock samples were jaw crushed until 70% passed through a -10 mesh (2 mm) screen. The sample was split and a 250 g riffle split sample was then pulverized in a mild-steel ring-and-puck mill until 95% passed through a 150 mesh (100 µm) screen. The remaining coarse reject portions of the samples remain in storage at Acme. The samples were analyzed using Acme's assay procedure 1DX-15; a 1:1:1 Aqua Regia Digestion with an ICP-MS finish. The reader is referred to http://www.acmelab.com for details of this analytical procedure.

The best rock geochemical results came from a sample of quartz vein material taken from what appeared to be float or suboutcrop in the central part of the map area and graded 2425.7 ppm Cu and 1803.6 ppb Au (Sample 659659). Only one of four other rock samples that were anomalous in copper, grading from 404.2 ppm Cu to 698.1 ppm Cu, carried in excess of 100 ppb Au (Sample 826519). Anomalous copper-gold samples typically are associated with epidote+/-chlorite+/-calcite+/-K-feldspar bearing fractures and/or stringers that commonly host at least traces of pyrite and locally blebs of bornite and/or chalcopyrite.

Table 7: Notable Geochemical Results for 2008 Rock Samples

Sample	Copper (Cu ppm)	Gold (Au ppb)	Silver (Ag ppm)
322620	623.0	0.9	0.3
659659	2425.7	1803.6	37.4
826515	459.1	31.1	0.5
826516	698.1	33.8	0.9
826519	404.2	115.0	0.3

641000 641500 642000 642500 643000 643500 644000 644500

5749500 5749000 5748500 5748000 5747500

N W E S

322615 322616 322617 322618 322619 322620

659655 659654 659653 659652 659651

826516 826515 826517 826519 826518 826514

826508 826507 826509

826513 826512 826511 826510

826502 826503 826504 826501 826505 826506

659669 659658

L4600N L4400N L4200N L4000N L3800N L3600N L3400N L3200N

Legend

Rock Sample Location

- Sample Number
- 2008 Grid
- Claim Boundary
- BC Parks

HAPPY CREEK MINERALS LTD. TSX-V:HPY
DIVERSIFIED METALS EXPLORATION

Figure 5

Hawk Property - 2008 Grid: Rock & Soil Sample Locations

- Road
- River/Stream
- Lake
- Flooded Land
- Contour-Index
- Contour-Inter

20k Mapsheets: 92P086,096
Date: January 15, 2009
Projection: UTM10N, NAD83
Scale: 1:10 000
Path: ..\08-PX-0118\Mapping\RkSoilSmpLoc_B
Drawn By: BB
Checked By: BL

ALLNORTH CONSULTANTS LIMITED
PHONE: (250) 614-7241
FAX: (250) 614-7249

0 0.125 0.25 0.5 0.75 1 Kilometers

641000 641500 642000 642500 643000 643500 644000 644500

5749500 5749000 5748500 5748000 5747500

N W E S

L4600N L4400N L4200N L4000N L3800N L3600N L3400N L3200N

271.8 288.3 698.1 459.1 103.9 404.2 83.5 10.5 18.5 143.6 52.3 140.7 48.2 203 194.4 20.3 623 73.5 92.8 143.8 137.6 74.8 136.1 268.2 122.9 315.8 275.6 166.3 4.4 133.6 171.2 189.3 91.3 64 19.1 5.6 170.3 183.1 9.8 12.5 189.4 38.1 15.1 104.2

Legend

Rock Sample Location

Cu (ppm)

Soil Geochemistry - Cu (ppm)

- 10.3 - 68.5 (192) <80 percentile
- 68.5 - 105.7 (24) 80 percentile
- 105.7 - 135.2 (12) 90 percentile
- 135.2 - 315.8 (12) 95 percentile (values shown)

Claim Boundary

BC Parks

HAPPY CREEK MINERALS LTD. TSX.V:HPY

DIVERSIFIED METALS EXPLORATION

Figure 6

Hawk Property - 2008 Grid: Rock & Soil Geochemistry - Cu (ppm)

Road
River/Stream
Lake
Flooded Land
Contour-Index
Contour-Inter

20k Mapsheets: 92P086,096
Date: January 15, 2009
Projection: UTM10N, NAD83
Scale: 1:10 000
Path: ...\08-PX-0118\Mapping\RkSoilGeoch_B
Drawn By: BB
Checked By: BL

ALLNORTH CONSULTANTS LIMITED

0 0.125 0.25 0.5 0.75 1 Kilometers

641000 641500 642000 642500 643000 643500 644000 644500

5749500 5749000 5748500 5748000 5747500

N W E S

L4600N L4400N L4200N L4000N L3800N L3600N L3400N L3200N

127 85.1 34.8 33.8 31.1 115 13.6 7.7 0.5 13.2 182.3 1.6 1 1.9 4.2 6.8 1 17 10 0.9 5.8 0.8 4 7.6 7.8 3 2 2.1 7.2 2.6 3.2 1.7 11.9 4.7 0.5 5.7 2.2 16.4 12.5 1.1 0.7 2.7 2 1.6

Legend

Rock Sample Location

▲ Au (ppb)

Soil Geochemistry - Au (ppb)

0.0 - 2.4 (192)	<80 percentile
2.4 - 3.8 (24)	80 percentile
3.8 - 5.7 (12)	90 percentile
5.7 - 182.3 (12)	95 percentile (values shown)

Claim Boundary

BC Parks

HAPPY CREEK MINERALS LTD. TSX-V:HPY

DIVERSIFIED METALS EXPLORATION

Figure 7

Hawk Property - 2008 Grid: Rock & Soil Geochemistry - Au (ppb)

Road
River/Stream
Lake
Flooded Land
Contour-Index
Contour-Inter

20k Mapsheets: 92P086,096
Date: January 15, 2009
Projection: UTM10N, NAD83
Scale: 1:10 000
Path: ...\08-PX-0118\Mapping\RkSoilGeoch_B
Drawn By: BB
Checked By: BL

ALLNORTH CONSULTANTS LIMITED

PHONE: (250) 614-7241
FAX: (250) 614-7249

0 0.125 0.25 0.5 0.75 1 Kilometers

641000 641500 642000 642500 643000 643500 644000 644500

5749500 5749000 5748500 5748000 5747500

N W E S

0.82 3 3.63 4.06 1.2 6.4 1.24 1.76 4.38 1.96 1.21 4.05 4.21 5.49 5.06 3.51 4 4.18 3.4 3.39 2.65 2.42 4.92 5.05 3.91 3.3 4.65 2.97 3.06 2.75 3.5 2.92 3.85 4.24 1.52 1.42 1.18 0.95 2.98 1.62 1.38 1.47 1.54 1.65

L4600N L4400N L4200N L4000N L3800N L3600N L3400N L3200N

Legend

Rock Sample Location

▲ Fe (%)

Soil Geochemistry - Fe (%)

•	0.0 - 2.8 (193)	<80 percentile
●	2.8 - 3.3 (23)	80 percentile
●	3.3 - 3.9 (12)	90 percentile
●	3.9 - 6.4 (12)	95 percentile (values shown)

Claim Boundary

BC Parks

HAPPY CREEK MINERALS LTD. TSX-V:HPY

DIVERSIFIED METALS EXPLORATION

Figure 8

Hawk Property - 2008 Grid: Rock & Soil Geochemistry - Fe (%)

Road — Flooded Land

River/Stream — Contour-Index

Lake — Contour-Inter

20k Mapsheets: 92P086,096
Date: January 15, 2009
Projection: UTM10N, NAD83
Scale: 1:10 000
Path: ...\08-PX-0118\Mapping\RkSoilGeoch_B
Drawn By: BB
Checked By: BL

ALLNORTH CONSULTANTS LIMITED

PHONE: (250) 614-7251
FAX: (250) 614-7299

0 0.125 0.25 0.5 0.75 1 Kilometers

6.4 Geophysical Survey

Ground magnetometer and three-dimensional induced polarization (3D IP) surveys were completed over the Hawk soil grid area by SJ Geophysics Ltd in June, 2008. The northern part of the grid had been established and surveyed (3D IP only) in 2007. The SJ Geophysics 'Logistics Report' for the 2008 geophysical surveys is presented in Appendix J along with the plans and sections for the two surveys.

The 2008 3D IP survey was completed over 8 cross lines, totalling 16.5 line-km of grid, covering lines 3200N to 4600N. The cross lines were spaced 200 m apart, ranged from 1800 m to 2300 m in length, and were oriented at an azimuth of 108 degrees. Survey stations were marked at 50 m intervals along each line.

The 2008 magnetometer survey grid includes the IP survey grid and an additional 9 cross lines from the 2007 3D IP survey grid (lines 4800N to 7000N). The additional cross lines are shorter than those to the south and range from 750 m to 1200 m in length. In total, the magnetometer survey was completed over 17 cross lines and 3 tie lines totalling 29.8 line-km of grid, covering lines 3200N to 7000N.

The magnetometer survey defined three northerly trending linear magnetic highs flanked by lows in the southwest–central area of the grid. The survey also outlined several magnetic highs in the northwest, central and east areas of the grid that correspond with mapped dykes. The westernmost feature corresponds with the eastern edge of the Takomkane batholith.

The 3D IP survey outlined several interesting anomalies. The most striking anomaly is a chargeability high that extends from the eastern edge of line 3800N in a north-westerly direction to the eastern end of line 4800N. The feature is more than 1200 metres long and has an estimated width of approximately 500 metres. At a depth of 150 metres from surface the anomaly consists of two >12 millisecond lobes connected by 8 and 10 millisecond contours. The chargeability anomaly has an inferred south-westerly dip. The chargeability feature is within a band of resistivity high.

A second, much smaller chargeability anomaly occurs in the northwest corner of the grid area. There are also linear chargeability and resistivity features that coincide with the linear magnetic high features described above. They may indicate the presence of faults that are sub-parallel to the Takomkane-Nicola contact.

7. INTERPRETATION AND CONCLUSIONS

The Hawk property is situated in the prospective Quesnel Terrane and is underlain primarily by Upper Triassic to Lower Jurassic volcanic rocks of the Nicola Group. On the west side of the property, the stratified rocks are in fault contact with granodiorite to monzodiorite of the Lower to Middle Jurassic Takomkane batholith. Previous work on the property identified copper and gold-enriched replacement mineralization along the western edge of the property and copper-gold fracture-controlled and vein mineralization in association with propylitic and subordinate potassic alteration over the central part of the property. The latter is consistent with an alkali porphyry copper gold model.

The 2008 exploration program consisted of property-scale bedrock mapping, logging and sampling of core from two of three diamond drill holes completed by Happy Creek in 2007 and soil and rock geochemical sampling. A total of 252 soil geochemical samples and 36 rock geochemical samples were collected during the program. In addition, SJ Geophysics Ltd completed a ground-based geophysical program including 29.8 line-km of magnetometer survey and 16.5 line-km of 3D Induced Polarization survey over the central part of the Hawk property.

The majority of the property is underlain by intermediate volcanic flows and tuffs of the Upper Triassic to Lower Jurassic Nicola Group. Small dykes and/or plugs of granodiorite, gabbro and syenite cut the volcanic pile. The composite Late Triassic to Early Jurassic Takomkane batholith is in contact with the volcanics in the southwest part of the map area.

Two NQ diamond drill holes drilled in the central part of the map area in late 2007 (07-HK-01 and 07-HK-02) were logged and sampled in May of 2008. The two holes encountered weak propylitically altered intermediate flows and tuffs. A total of 88 core samples were analyzed and two narrow intervals of copper-gold mineralization were identified in hole 07-HK-02..

A grid-based soil sampling program expanded upon the 2007 survey and outlined two anomalies of note. The first anomaly is a narrow, linear gold+/-copper anomaly on the western edge of the property that trends toward the Knob prospect. The second anomaly is a broad semi-continuous northerly trending band of 95th percentile copper values that extends from grid line L3200N to L4600N.

The magnetic geophysical survey completed on the Hawk property in 2008 defined three northerly trending linear magnetic features that likely indicate the Takomkane-Nicola contact and several sub-parallel fault structures. The 3D-IP survey completed in 2008, when coupled with the 3D-IP survey completed in 2007, outlined several interesting anomalies. The most striking anomaly is a chargeability high that extends from the eastern edge of line 3800N in a north-westerly direction to the eastern end of line 4800N. The feature is more than 1200 metres long, approximately 500 metres wide, and appears to extend to a depth of at least 250 metres.

The 3D-IP chargeability high feature is coincident with widespread weak propylitic alteration of the Nicola volcanics, a broad copper-iron soil geochemical anomaly, and numerous float and bedrock samples that are anomalous in copper and gold. This coincident anomaly, located in the central part of the property, suggests that an alkalic porphyry copper-gold system may exist at depth.

8. RECOMMENDATIONS

It is recommended that exploration continue on the Hawk property. A program consisting of diamond drilling is proposed to evaluate the potential for a buried alkalic porphyry copper-gold system. The proposed program consists of the following elements:

- Development of drill trails from existing access
- 1400 m of NQ diamond drilling in 4 holes to test a coincident IP chargeability – copper-iron soil geochemical anomaly.

The estimated cost of the proposed program is $403,000.

9. STATEMENT OF COSTS – 2008

Period March 15 2008 - December 05 2008

Wages	# days	$/day	Totals
D. Blann, P.Eng	1.5	$ 650.00	$975.00
D Black- Prospector	30	$ 325.00	$9,750.00
T. Ridley - Field Tech	23.5	$ 150.00	$3,525.00
D. Ridley, Prospector	20	$ 350.00	$7,000.00
	75		$21,250.00
Disbursements			
Truck - Blann	1	$ 100.00	$100.00
Truck - Black	15	$ 100.00	$1,500.00
Truck - Ridley	13.5	$ 100.00	$1,350.00
ATV - Black	5	$ 75.00	$375.00
Room/Board	75	$ 100.00	$7,500.00
sat and cell phone, radios - Communications	75	$ 10.00	$750.00
Field Supplies - saws, tools, camp construction materials and safety, geological field equip			$2,203.83
Analyses			
Acme Analytical Laboratories			$7,176.43
Contractors			
Allnorth Consultants Limited			$60,044.79
GamX Inc.			$3,950.00
Hendex Exploration etc			$7,583.29
S.J. Geophysics Ltd.			$60,020.25
S.J.V. Consultants Ltd.			$8,494.00
Shipping (Bus, Courier)			$644.87
Drafting & Reproductions			$1,165.05
Report			$3,500.00
			$166,257.51

Wages and Disbursements	$187,507.51
12% Management Fee	$22,500.90
Total	$210,008.41

10. COST OF PROPOSED PROGRAM

Exploration Item	Details				Totals
Field Crew Wages		**Days**	**Rate**	**Subtotal**	
Geologist (PGeo)	drillhole layout, core logging, project management	21	$550.00	$11,550.00	
Geological assistant	core splitting, sampling	21	$250.00	$5,250.00	
				$16,800.00	$16,800.00
Office Studies		**Days**	**Rate**	**Subtotal**	
Project Preparation	permitting & preparation for field	3	$500.00	$1,500.00	
				$1,500.00	$1,500.00
Diamond Drilling		**Metres**	**Cost/m**	**Subtotal**	
Longyear 38 or equivalent	1400 m of NQ in 4 holes, pad and access construction (est 14 days)	1400	$175.00	$245,000.00	
				$245,000.00	$245,000.00
Mechanical Trenching		**No.**	**Rate**	**Subtotal**	
D6 dozer or equivalent	layout, mob/demob, rehab	14	$2,000.00	$28,000.00	
				$28,000.00	$28,000.00
Geochemical Analysis		**No.**	**Rate**	**Subtotal**	
Core Samples	incl. blanks, standards and duplicates	475	$35.00	$16,625.00	
				$16,625.00	$16,625.00
Transportation		**No.**	**Rate**	**Subtotal**	
4x4 pickup 1	100/day	21	$100.00	$2,100.00	
Fuel	100/day	21	$100.00	$2,100.00	
				$4,200.00	$4,200.00
Accommodation & Food	**Rates per day**				
Field & Drill Crew	98 person days, camp lodging & meals	98	$120.00	$11,760.00	
				$11,760.00	$11,760.00
Miscellaneous					
Field Supplies (consumables)	Bags, tags, etc, misc equipment	1	$1,000.00	$1,000.00	
Maps		1	$500.00	$500.00	
Assessment Report		1	$5,000.00	$5,000.00	
				$6,500.00	$6,500.00
SUBTOTAL					$350,385.00
Contingency (10%)					$35,038.00
GST (5%)					$17,519.00
TOTAL					$402,942.00

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12. STATEMENT OF QUALIFICATIONS

I, Robert (Bob) A. Lane, of 2606 Carlisle Way, Prince George, B.C., do hereby certify that:

1. I visited the Hawk property on May 8 and May 28, 2008.
2. I authored the assessment report with the assistance of Diana Benz.
3. I graduated from the University of British Columbia in 1990 with a M.Sc. in Geology.
4. I am a Professional Geoscientist (P.Geo.) registered with the Association of Professional Engineers and Geoscientists of British Columbia, license #18993, and have been a member in good standing since 1992.
5. From 1990 until present I have been continuously employed as a geologist in mining and mineral exploration sector.

Dated at: Prince George the 9th day of January 2009.

APPENDIX A
DIAMOND DRILL HOLE CROSS SECTIONS

320 340 360 380 400 420

1060 1040 1020 1000 980 960 940 920 900 880

07-HK-01

OB

VFL

VFL

VCL

VCL

VCL

Lithology

Stratified

OB	Overburden
PORP	Porphyry
TUFF	Tuff
VCL	Volcanic Flow
VFL	Volcaniclastic Sandstone

Assay

Au
ppb

- 0.25 - 5.00
- 5.01 - 10.00
- 10.01 - 20.00
- 20.01 - 40.00
- 40.01 - 79.00
- 79.01 - 229.90

Cu
ppm

- 0.25 - 50.00
- 50.01 - 100.00
- 100.01 - 200.00
- 200.01 - 400.00
- 400.01 - 832.40

HAPPY CREEK MINERALS LTD. TSX-V:HPY
DIVERSIFIED METALS EXPLORATION

Hawk Property
Section 1a

Topography

Date: October 21, 2008
Scale: 1:500
Vert. Exag.: 1.0
Path: ...\08-PX-0118\Mapping\Sct_B
Drawn By: BB
Checked By: DB

ALLNORTH CONSULTANTS LIMITED
PHONE: (250) 614-7291
FAX: (250) 614-7290

0 4.5 9 18 27 36 Meters

320 340 360 380 400 420

-420 -400 -380 -360 -340 -320 -300

1060 1040 1020 1000 980 960 940 920 900 880

07-HK-02

OB

TUFF

PORP

PORP

TUFF

TUFF

TUFF

TUFF

TUFF

Lithology

Stratified

OB	Overburden
PORP	Porphyry
TUFF	Tuff
VCL	Volcanic Flow
VFL	Volcaniclastic Sandstone

Assay

Au
ppb

0.25 - 5.00
5.01 - 10.00
10.01 - 20.00
20.01 - 40.00
40.01 - 79.00
79.01 - 229.90

Cu
ppm

0.25 - 50.00
50.01 - 100.00
100.01 - 200.00
200.01 - 400.00
400.01 - 832.40

HAPPY CREEK MINERALS LTD. TSX-V:HPY
DIVERSIFIED METALS EXPLORATION

Hawk Property
Section 1b

Topography

Date: October 21, 2008
Scale: 1:500
Vert. Exag.: 1.0
Path: ...\08-PX-0118\Mapping\Sct_B
Drawn By: BB
Checked By: DB

ALLNORTH CONSULTANTS LIMITED
PHONE: (250) 614-7291
FAX: (250) 614-7290

0 4.5 9 18 27 36 Meters

APPENDIX B
CORE PHOTOGRAPHS

ALLNORTH CONSULTANTS LIMITED
2011 PG Pulp Mill Road, Prince George, BC, V2L 4V1
Phone (250) 614-7291 / Fax (250) 614-7290

PHOTO SHEET

JOB NUMBER: 08PX0118
CLIENT: Happy Creek Minerals Limited
PROJECT: Exploration & Project Management - Hawk
DESCRIPTION: 2007 Hawk Core Photographs

HAWK DDH 07-HK-01 Interval 4.14 to 18.02 m

HAWK DDH 07-HK-01 Interval 18.02 to 30.78 m

ALLNORTH CONSULTANTS LIMITED
2011 PG Pulp Mill Road, Prince George, BC, V2L 4V1
Phone (250) 614-7291 / Fax (250) 614-7290

PHOTO SHEET

JOB NUMBER: 08PX0118
CLIENT: Happy Creek Minerals Limited
PROJECT: Exploration & Project Management - Hawk
DESCRIPTION: 2007 Hawk Core Photographs

HAWK DDH 07-HK-01 Interval 30.78 to 43.56 m

HAWK DDH 07-HK-01 Interval 43.56 to 56.45 m

ALLNORTH CONSULTANTS LIMITED
2011 PG Pulp Mill Road, Prince George, BC, V2L 4V1
Phone (250) 614-7291 / Fax (250) 614-7290

PHOTO SHEET

JOB NUMBER: 08PX0118
CLIENT: Happy Creek Minerals Limited
PROJECT: Exploration & Project Management - Hawk
DESCRIPTION: 2007 Hawk Core Photographs

HAWK DDH 07-HK-01 Interval 56.45 to 69.57 m

HAWK DDH 07-HK-01 Interval 69.57 to 82.44 m

ALLNORTH CONSULTANTS LIMITED
2011 PG Pulp Mill Road, Prince George, BC, V2L 4V1
Phone (250) 614-7291 / Fax (250) 614-7290

PHOTO SHEET

JOB NUMBER: 08PX0118
CLIENT: Happy Creek Minerals Limited
PROJECT: Exploration & Project Management - Hawk
DESCRIPTION: 2007 Hawk Core Photographs

HAWK DDH 07-HK-01 Interval 82.44 to 95.78 m

HAWK DDH 07-HK-01 Interval 95.78 to 109.40 m

ALLNORTH CONSULTANTS LIMITED
2011 PG Pulp Mill Road, Prince George, BC, V2L 4V1
Phone (250) 614-7291 / Fax (250) 614-7290

PHOTO SHEET

JOB NUMBER: 08PX0118
CLIENT: Happy Creek Minerals Limited
PROJECT: Exploration & Project Management - Hawk
DESCRIPTION: 2007 Hawk Core Photographs

HAWK DDH 07-HK-01 Interval 109.40 to 121.41 m; EOH

HAWK DDH 07-HK-02 Boxes 1 (7.62 m) to 3 (22.62 m)

ALLNORTH CONSULTANTS LIMITED
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Phone (250) 614-7291 / Fax (250) 614-7290

PHOTO SHEET

JOB NUMBER: 08PX0118
CLIENT: Happy Creek Minerals Limited
PROJECT: Exploration & Project Management - Hawk
DESCRIPTION: 2007 Hawk Core Photographs

HAWK DDH 07-HK-02 Boxes 4 (22.62 m) to 6 (35.50 m)

HAWK DDH 07-HK-02 Boxes 7 (35.50 m) to 9 (48.16 m)

ALLNORTH CONSULTANTS LIMITED
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Phone (250) 614-7291 / Fax (250) 614-7290

PHOTO SHEET

JOB NUMBER: 08PX0118
CLIENT: Happy Creek Minerals Limited
PROJECT: Exploration & Project Management - Hawk
DESCRIPTION: 2007 Hawk Core Photographs

HAWK DDH 07-HK-02 Boxes 10 (48.16 m) to 12 (60.83 m)

HAWK DDH 07-HK-02 Boxes 13 (60.83 m) to 15

ALLNORTH CONSULTANTS LIMITED
2011 PG Pulp Mill Road, Prince George, BC, V2L 4V1
Phone (250) 614-7291 / Fax (250) 614-7290

PHOTO SHEET

JOB NUMBER: 08PX0118
CLIENT: Happy Creek Minerals Limited
PROJECT: Exploration & Project Management - Hawk
DESCRIPTION: 2007 Hawk Core Photographs

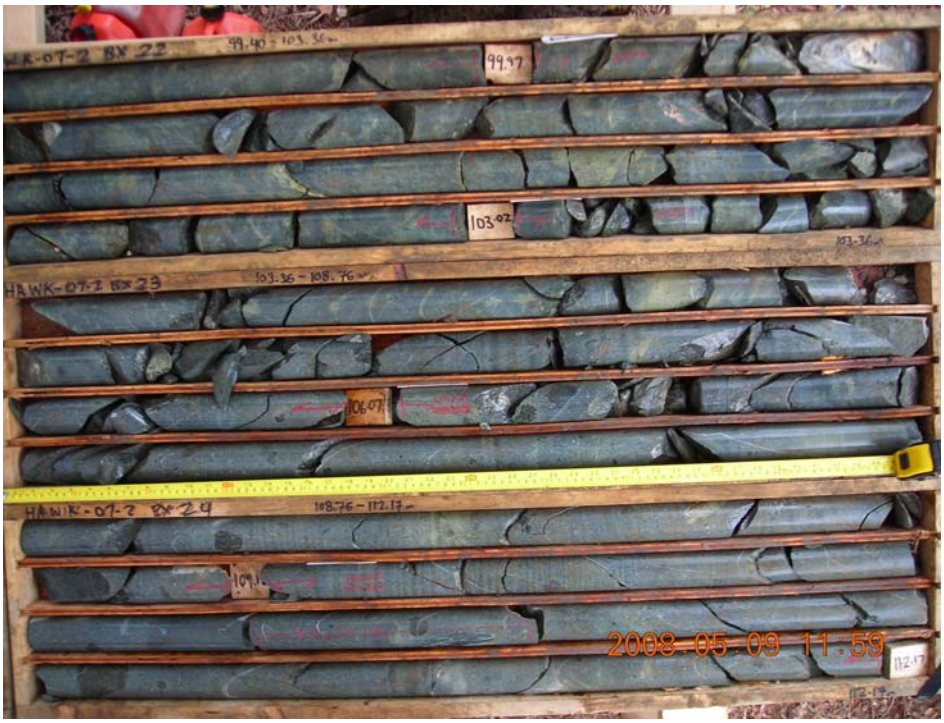
HAWK DDH 07-HK-02 Boxes 16 to 18

HAWK DDH 07-HK-02 Boxes 19 to 21 (99.40 m)

ALLNORTH CONSULTANTS LIMITED
2011 PG Pulp Mill Road, Prince George, BC, V2L 4V1
Phone (250) 614-7291 / Fax (250) 614-7290

PHOTO SHEET

JOB NUMBER: 08PX0118
CLIENT: Happy Creek Minerals Limited
PROJECT: Exploration & Project Management - Hawk
DESCRIPTION: 2007 Hawk Core Photographs



HAWK DDH 07-HK-02 Boxes 22 (99.40 m) to 24 (112.17 m)

HAWK DDH 07-HK-02 Boxes 25 (112.17 m) to 27 (126.25 m)

ALLNORTH CONSULTANTS LIMITED
2011 PG Pulp Mill Road, Prince George, BC, V2L 4V1
Phone (250) 614-7291 / Fax (250) 614-7290

PHOTO SHEET

JOB NUMBER: 08PX0118
CLIENT: Happy Creek Minerals Limited
PROJECT: Exploration & Project Management - Hawk
DESCRIPTION: 2007 Hawk Core Photographs

HAWK DDH 07-HK-02 Boxes 28 (126.25 m) to 30

HAWK DDH 07-HK-02 Boxes 31 to 33 (154.84 m); EOH (NB boxes are lain out in reverse order, 33 at the top and 31 at the bottom)

APPENDIX C
DIAMOND DRILL HOLE LOGS

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

07-HK-01

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
0	4.14	Overburden						

Notes: Depth to core changed due to blocking error downhole. (See geotech log). Casing moved from 1.09 m to 4.14 m.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

07-HK-01

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
4.14	**17.75**	**Volcanic Flow**	**Medium Grained**	**Dark Greenish Gray**	**Graded Bedding**			

Notes: Intermediate volcanic flow (likely andesite) with beds exceeding 10 m. Typified by the presence of flow tops. Beds display a coarsening upward with a sharp decrease in large fragments down hole from the upper 10 to 20 cm of section. Epidote commonly replaces subrounded 1mm to 1cm clasts and also forms veinlets. Biotite appears within calcite veinlets as disperse wavy patches which become increasingly common downhole. Calcite veinlets can, at times, show a pink undertone, and are generally erratic with a moderate variance to core axis. Quartz veinlets are rare, narrow and in one instance imbricated and intergrown with chlorite. Magnetite is disseminated and spotty and appears most intense in the fresher looking core. Sericite and chlorite is pervasive. Limonite coatings are common down to 15 m then becomes very rare. Carbonate is isolated to areas near veinlets, and rarely shows as an interstitial fill. Mineralization is rare and forms <<1% of the total volume. Chalcopyrite as very, very fine grained disseminated crystals within host (oxidized pyrite?). Hematite commonly appears on the margins of small carbonate veins. Lower contact is gradational.

STRUCTURE

From	To	Structure	Discontinuity Condition	TCA	Strain	Notes
6.02	6.07	Fault	Infilling	15	W	Appears to be a green gouge filled fracture that may be a fault.
7.10	7.60	Fracture			M	Broken and ground epidote rich.
7.75	7.85	Flow Banding	Shape - Planar	50	M	Flow top with graded bedding coarsening uphole.
14.90	15.10	Flow Banding	Shape - Planar	45	M	Flow top with graded bedding coarsening uphole.

ALTERATION

		Assemblages											Minerals							
From	To	Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser	Notes
4.14	16.82													W	VW	W	W			W	Biotite - pervasive to spotty, epidote - spotty and localized to veins and as a replacement of mafics(?)
16.82	26.45													M	W	W	VW			VW	Biotite - pervasive to spotty and starting to form narrow localized wavy bands.

VEINS

From	To	Vn %	V / M	TCA	Qz %	Feld %	CC %	Py %	Mineral 1	Mineral 2	Notes
6.00	18.00	1	1	60	100						Thin rare quartz veins generally less then 4 mm and sometimes imbricated.
6.00	18.00	1	1	45			100		Chlorite 10%	Hematite 1%	Hematite as ocher coatings on some veins. All veins 1-2 mm and with a highly variable angle to the core axis. Biotite forms euhedral plates within some veins. Some of these veins appear to crosscut one another.

MINERALIZATION

				Economic Minerals					Gangue Minerals			
From	To	Style 1	Style 2	Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	Notes
4.14	17.75	Disseminated		Chalcopyrite 1%					Magnetite 4%			Chalcopyrite as very, very fine grained disseminated crystals in host and forms <<1%.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

07-HK-01

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
17.75	**26.45**	**Volcanic Flow**	**Medium Grained**	**Dark Greenish Gray**	**Mottled**			

Notes: Intermediate volcanic (flow? likely dacite). Very similiar to previous section except mottled and a rapid increase in carbonate veinlets. Several psuedo mylonites and/or imbricated gouge filled shears. Otherwise as per previous sections with a higher degree of alteration.

STRUCTURE

From	To	Structure	Discontinuity Condition	TCA	Strain	Notes
17.75	26.40	Fault	Shape - Planar	30	W	Over 12 narrow green gouge filled fractures up to 10 mm wide. Broad fault zone.
20.38	20.68	Shear or Strain Zone	Shape - Planar	30	M	Localized psuedomylonite with intense hairline parallel stockwork of carbonate veinlets.
26.40	54.90	Fault	Roughness - Rough	30	W	Narrow green gouge + kaolinite filled faults or fractures. Angle to the core axis can be highly variable but averages around 30 degrees.
26.40	121.31	Foliation		30	W	
26.40	56.40	Fracture	Roughness - Rough			

ALTERATION

		Assemblages											Minerals							
From	To	Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser	Notes
16.82	26.45													M	W	W	VW			VW	Biotite - pervasive to spotty and starting to form narrow localized wavy bands.

VEINS

From	To	Vn %	V / M	TCA	Qz %	Feld %	CC %	Py %	Mineral 1	Mineral 2	Notes
6.00	18.00	1	1	60	100						Thin rare quartz veins generally less then 4 mm and sometimes imbricated.
6.00	18.00	1	1	45			100		Chlorite 10%	Hematite 1%	Hematite as ocher coatings on some veins. All veins 1-2 mm and with a highly variable angle to the core axis. Biotite forms euhedral plates within some veins. Some of these veins appear to crosscut one another.
17.75	26.45	5	20	30	10		90		Chlorite 10%	Hematite 1%	Weak stockwork of hairline carbonate +/- quartz with a variable angle to the core axis. Rarely appear internally brecciated. No significant mineralization observed.

MINERALIZATION

				Economic Minerals					Gangue Minerals			
From	To	Style 1	Style 2	Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	Notes
17.75	26.45	Disseminated		Chalcopyrite 1%					Magnetite 4%			Chalcopyrite as very, very fine grained disseminated crystals in host and forms <<1%.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

07-HK-01

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
26.45	**56.40**	**Volcanoclastic**	**Coarse Sand**	**Dark Greenish Gray**	**Grain Supported**			

Notes: Intermediate volcanic (likely andesite). Confined to a fault zone which consists of dozens of small faults and localized weak carbonate stockwork. Textures appear to be fake meaning they are a result of alteration. Porphyroblasts are generally rounded, with ghosting on the rims, zoned, and locally form a jigsaw fit. They are also dominantly sericite altered with minor chlorite and with minor calcite on the rims. The groundmass generally consists entirely of alteration minerals, specifically epidote and chlorite or biotite. In the case of chlorite there is often a weak foliation associated. Magnetite is present but varies significantly over very small intervals. Interspersed among these zones are fine grained sections which are somewhat harder (silica?) and are a dark green to dark grey. These could be flow tops? This unit is generally broken and several section show grounding from the drill. Mineralization is localized to small shears and fault zones and consists of very, very fine grained euhedral pyrite>>chalcopyrite. Limonite becomes apparent on some of the fault surfaces.

STRUCTURE

From	To	Structure	Discontinuity Condition	TCA	Strain	Notes
26.40	54.90	Fault	Roughness - Rough	30	W	Narrow green gouge + kaolinite filled faults or fractures. Angle to the core axis can be highly variable but averages around 30 degrees.
26.40	121.31	Foliation		30	W	
26.40	56.40	Fracture	Roughness - Rough			
54.90	61.42	Fault	Shape - Undulating	30	W	Narrow green gouge filled faults with moderate localized shearing (protomylonite). Weak stockwork associated.

ALTERATION

		Assemblages											Minerals							
From	To	Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser	Notes
26.45	56.40													M	VW	M	W			M	

VEINS

From	To	Vn %	V / M	TCA	Qz %	Feld %	CC %	Py %	Mineral 1	Mineral 2	Notes
26.45	54.70	1	1	30	10		90		Chlorite 10%	Hematite 1%	Locally as a stockwork of hairline carbonate +/- quartz with a variable angle to the core axis.
54.70	61.90	5	30	30	2		98		Chlorite 1%		Within a major fault and as a stockwork of hairline veinlets.

MINERALIZATION

				Economic Minerals					Gangue Minerals			
From	To	Style 1	Style 2	Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	Notes
26.45	56.40	Disseminated		Pyrite 1%	Chalcopyrite 1%				Magnetite 2%			Pyrite and chalcopyrite as very fine grained disseminated crystals generally within fault gouge but also rarely within host. Pyrite>>chalcopyrite.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

07-HK-01

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
56.40	**61.42**	**Volcanoclastic**	**Fine Sand**	**Dark Greenish Gray**	**Aphanitic**			

Notes: Intermediate volcanic (likely andesite). Locally intense faulting, stockwork veining and alteration. Section is locally broken and crackeled. Mineralization is as disseminated euhedral, very fine grained pyrite predominantly within the gouge. Major structures are at 30 degrees to the core axis but some variation does exist. Minor limonite coatings on some fracture surfaces. Lower contact is sharp and intense with little or no structures downhole.

STRUCTURE

From	To	Structure	Discontinuity Condition	TCA	Strain	Notes
26.40	121.31	Foliation		30	W	
54.90	61.42	Fault	Shape - Undulating	30	W	Narrow green gouge filled faults with moderate localized shearing (protomylonite). Weak stockwork associated.
56.40	56.41	Contact				Lower contact is a moderate psuedo-mylonite.

ALTERATION

		Assemblages											Minerals							
From	To	Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser	Notes
56.40	61.42													W	W	M	W			W	Biotite - spotty, chlorite - pervasive, calcite - localized near veinlets.

VEINS

From	To	Vn %	V / M	TCA	Qz %	Feld %	CC %	Py %	Mineral 1	Mineral 2	Notes
54.70	61.90	5	30	30	2		98		Chlorite 1%		Within a major fault and as a stockwork of hairline veinlets.

MINERALIZATION

				Economic Minerals					Gangue Minerals			
From	To	Style 1	Style 2	Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	Notes
56.40	61.42	Disseminated		Pyrite 1%	Chalcopyrite 1%				Magnetite 1%			Significant drop in magnetite with the exception of some narrow intervals.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

07-HK-01

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
61.42	121.31	Volcanoclastic	Coarse Silt	Dark Greenish Gray	Porphyritic			

Notes: Generally porphyritic with minor aphanitic sections and minor phaneritic sections. This variation is likely due to alteration producing psuedo-volcanic textures but may also be the result of flow banding. Evidence for the later includes a slight grading in the size and distribution of the larger grains with a common tendency to coarsen downhole. That said there have been several instances where core has been turned around, misplaced or even moved between runs (dropped box? Drilling error?). In short, determining this relationship with confidence is difficult without extensively puzzling the core. Veining is common but widely disperse and consists of calcite, pink calcite to pink K-feldspar downhole, minor grey quartz, bull quartz +/- well developed biotite (1-3 mm books up to 1 mm wide) and trace amphibole(?). Trace galena was noted in one vein. These veins range between 5 mm and 40 mm and can at times contain vugs with perfect calcite rhomb druses, and/or breccia. These veins also have a large epidote halo which can persist up to 5 times the vein width from the vein margin uphole and downhole. Minor epidote was noted in the host beyond these veins. The frequency of all veins drops downhole.
Within the epidote patches are dark to light and sometimes zoned or double zoned octahedral grains ranging from 1 mm to 4 mm in size. These can be either hard (5-6) or quite soft. At times these grains are replaced(?) with calcite, at other times they are replaced by chlorite. Generally these grains appear euhedral but some display a weak ghosting of the crystal boundries.
Mineralization is rare at best with trace amounts noted on some vein boundries and/or within quartz veins.

STRUCTURE

From	To	Structure	Discontinuity Condition	TCA	Strain	Notes
26.40	121.31	Foliation		30	W	
61.42	61.43	Contact				Gradational.
68.00	76.00	Fracture	Roughness - Rough	45	M	
93.00	95.00	Fracture	Roughness - Rough		W	
109.40	121.31	Fracture	Roughness - Rough		W	

ALTERATION

		Assemblages											Minerals							
From	To	Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser	Notes
61.42	121.31													VW	W	W	W			VW	Biotite - spotty, calcite - localized near veinlets, within coarser grained sections as replacement alteration and as flooding, and on some parting planes, chlorite - pervasive and at times strong, epidote - as alteration halos around carbonate veins and as a weak replacement alteration within host, sericite - as a replacement alteration within coarser grained sections.

VEINS

From	To	Vn %	V / M	TCA	Qz %	Feld %	CC %	Py %	Mineral 1	Mineral 2	Notes
54.70	61.90	5	30	30	2		98		Chlorite 1%		Within a major fault and as a stockwork of hairline veinlets.
61.90	121.31	0	0	30	100				Chlorite 2%		Rare disrupted vein up to 2.5 mm with minor books of chlorite and trace biotite + chalcopyrite (<<1%)
61.90	121.31	1	2	30	20		80				Erratic sometimes discontinuous hairlines of carbonate +/- quartz.
61.90	85.00	1	1	15		50	50		Epidote 0%		Convoluted, disrupted, pink and white veins with a large epidote halo.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

MINERALIZATION

From	To	Style 1	Style 2	Economic Minerals					Gangue Minerals			Notes
				Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	
68.00	76.00								Magnetite 2%			Spotty pervasive.

07-HK-02

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
0	**7.05**	**Overburden**						

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

07-HK-02

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
7.05	58.19	Tuff	Fine grained	Dark Greenish Gray	Mottled	Albite	Magnetite	Epidote

Notes: Dark greyish green locally mottled. Appears bedded near top of hole but quickly becomes granular downhole and begins to appear almost igneous. This texture is due to alteration to albite, magnetite, and epidote with minor chlorite and trace K-feldspar. Magnetite increases steadily then stabilizes downhole. Albite, magnetite, and epidote form in a patchy fashion lending a mottled appearance to the core. The most prominent mineralization is bornite which is only apparent in any quantity near the top of the hole and is almost always associated with large epidote patches. Visible gold may be present in this upper section. Chalcopyrite does appear in various places throughout this intervals within veinlets and associated with epidote. Foliation appears strong near the upper sections but drops off in strength downhole. This may be remnant bedding however it is more likely a pseudo-bedding. In some instances, this unit appears to have a augen schist appearance, however this texture is never very well developed. Closer to the lower contact a number of small, <1 cm, dark green hornblende porphyritic dyklets(?) begin to appear. Hairlines of erratic to planar carbonate, with variable core angles, are common but never form more then 1% of the core. Carbonate is rarely found within the host. Local, narrow muddy sections become increasingly common past 52 m. Open fractures and foliation remains generally constant between 40 and 60 degrees to the core axis throughout. Over this section is fairly consistent and, with the exception of the uppermost portions, barren.

STRUCTURE

From	To	Structure	Discontinuity Condition	TCA	Strain	Notes
7.05	14.13	Foliation	Shape - Planar	50	W	
14.13	18.36	Foliation	Shape - Planar	55	M	
15.58	15.68	Breccia	Infilling	5		White carbonate matrix with 10-30 mm by 5 mm clasts. Barren.
18.36	22.62	Foliation	Shape - Planar	45	M	
22.62	29.87	Foliation	Shape - Planar	60	W	
29.87	35.80	Foliation	Shape - Planar	50	VW	Trace alignment of albite and pseudo-veinlets of epidote
35.80	35.85	Shear or Strain Zone	Shape - Planar	35	M	20 mm wide, internally undulating and convoluted. Wisps of chalcopyrite on uphole margin and associated with epidote. Comprised of chlorite, calcite, epidote and elogated clasts of k-feldspar(?). 2% chalcopyrite overall.
35.80	48.16	Foliation	Shape - Planar	55	VW	
48.16	52.38	Foliation	Shape - Planar	55	W	Low angle, dark bands begin to appear. These are likely a result of overprinting alterations and, at times, appear to be foliation. Albite can be concentrated on the walls of these bands.
52.38	58.19	Foliation	Shape - Planar	65	W	Low angle dark bands remain apparent and are similiar to those described above.

ALTERATION

		Assemblages												Minerals							
From	To	Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser	Notes
7.05	12.00														W	W				M	Pervasive.
12.00	22.62														W	W	M			W	Complete localized epidote. Calcite is weak in host but common on fracture planes. Sericite and chlorite - pervasive.
22.62	29.87														W		W			W	Epidote as localized veins or bands and sometimes spatially associated with albite.
29.87	35.80														VW		M	VW		W	Epidote as localized veins or bands and sometimes spatially associated with albite. Calcite is increasingly rare. K-feldspar rarely associated with epidote.
35.80	48.16															W	M	VW		W	Epidote and chlorite commonly associated with rare K-feldspar within foliation/bedding controlled veinlets.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

ALTERATION

From	To	Assemblages											Minerals							Notes
		Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser	
48.16	53.38															W	M	VW		W	Epidote is becoming increasingly patchy and less confined to bands/veins.
53.38	58.19															W	M	VW		W	Epidote appears dominantly as patches with some minor veinlets.

VEINS

From	To	Vn %	V / M	TCA	Qz %	Feld %	CC %	Py %	Mineral 1	Mineral 2	Notes
7.05	12.00	1	1	85			100				High angle planar.
7.05	12.00	1	5	50		0	100				Most common as planar to weakly undulating very fine hairs.
12.00	22.62	2	5	25			100				Most common as planar to weakly undulating very fine hairs.
22.62	35.80	1	5	35			100				Most common as planar to weakly undulating very fine hairs. Most common at 35 but several other angles to the core axis observed.
35.80	37.60	1	1	35		10	90		1 Epidote 5%	Chlorite 1%	Planar with a riddell component (common). Sulphide generally disseminated and as rare wisps.
37.60	48.50	1	2	5					Chlorite 90%	Epidote 10%	High angle cuts and alters previous alteration(?). Often produces shallow curves on core. No significant mineralization. Less than 1 mm.
48.50	58.19	1	20	15			90		0 Epidote 10%		Erratic, highly variable angle to the core axis, carbonate hairs less than 1 mm.
57.55	57.65	50	1	35			100				Large crystals of calcite up to 5 mm long likely from within a vug.
57.65	72.00	1	4	35			100				Erratic, highly variable angle to the core axis, carbonate hairs less than 1 mm.

MINERALIZATION

From	To	Style 1	Style 2	Economic Minerals					Gangue Minerals			Notes
				Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	
7.05	12.00	Coarse grained		Bornite 2%	Chalcocite 0%							Bornite forms as large anhedral chunks within epidote clots. Chalcocite as coatings on fracture planes and less than 0.1%.
12.00	22.62	Disseminated		Chalcocite 0%					Magnetite 3%	Hematite 1%		Rare as fine disseminated crystals in host (<0.1%).
22.62	31.05	Disseminated							Magnetite 8%	Albite 25%		Magnetite - increasing, crystals up to 2 mm, sub-euhedral. Albite - spotty pervasive and up to 50% in some locations.
31.05	31.80	Disseminated							Magnetite 20%	Albite 20%	Hematite 0%	Magnetite - disseminated and stabilized. Albite increasingly spotty but still pervasive. Hematite as very rare localized specs.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

MINERALIZATION

From	To	Style 1	Style 2	Economic Minerals					Gangue Minerals			Notes
				Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	
31.80	31.85	Disseminated		Chalcopyrite 2%					Magnetite 20%	Albite 20%	Hematite	Chalcopyrite as wisps on uphole margin and associated with epidote and K-feldspar. Magnetite - disseminated and stabilized. Albite increasingly spotty but still pervasive. Hematite as very rare localized specs.
31.85	39.25	Disseminated		Pyrite 0%	Chalcopyrite 0%				Magnetite 20%	Albite 20%	Hematite	Pyrite and chalcopyrite locally associated with dark fine grain bands. Pyrite>>chalcopyrite. Both are very rare. Magnetite - disseminated and stabilized. Albite increasingly spotty but still pervasive. Hematite as very rare localized specs.
39.25	39.50	Blocky	Disseminated	Bornite 3%	Pyrite	Chalcopyrite	Chalcopyrite	Chalcopyrite	Magnetite 20%	Albite 20%	Hematite	5 mm chunks in a low angle epidote/carbonate vein. Pyrite and chalcopyrite locally associated with dark fine grain bands. Pyrite>>chalcopyrite. Both are very rare. Magnetite - disseminated and stabilized. Albite increasingly spotty but still pervasive. Hematite as very rare localized specs.
39.50	48.16	Disseminated		Pyrite	Chalcopyrite				Magnetite 20%	Albite 20%	Hematite	Magnetite - disseminated and stabilized. Albite increasingly spotty but still pervasive. Hematite as very rare localized specs.
48.16	60.30	Disseminated							Magnetite 20%	Albite 20%	Hematite	Magnetite - disseminated and stabilized. Albite increasingly spotty but still pervasive. Hematite as very rare localized specs.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

07-HK-02

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
56.56	**56.74**	**Porphyry**	**Very fine grained**	**Dusky Green**	**Porphyritic**	**Hornblende**	**Feldspar**	

Notes: Dark green hornblende feldspar porphyritic dyke. Hornblende elongated (1 mm by 3 mm) euhedral crystals forming up to 5% of dyke. Feldspar crystals are white with partially eroded boundaries and/or replace with chlorite and or minor reaction rims. Locally euhedral. Sharp upper and lower contacts at 45 degrees to the core axis. No chill margin noted. Barren.

STRUCTURE

From	To	Structure	Discontinuity Condition	TCA	Strain	Notes
52.38	58.19	Foliation	Shape - Planar	65	W	Low angle dark bands remain apparent and are similiar to those described above.

ALTERATION

		Assemblages											Minerals							
From	To	Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser	Notes
53.38	58.19															W	M	VW		W	Epidote appears dominantly as patches with some minor veinlets.

VEINS

From	To	Vn %	V / M	TCA	Qz %	Feld %	CC %	Py %	Mineral 1	Mineral 2	Notes
48.50	58.19	1	20	15			90	0	Epidote 10%		Erratic, highly variable angle to the core axis, carbonate hairs less than 1 mm.

MINERALIZATION

				Economic Minerals					Gangue Minerals			
From	To	Style 1	Style 2	Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	Notes
48.16	60.30	Disseminated							Magnetite 20%	Albite 20%	Hematite	Magnetite - disseminated and stabilized. Albite increasingly spotty but still pervasive. Hematite as very rare localized specs.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

07-HK-02

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
58.19	**73.16**	**Tuff**	**Very fine grained**	**Dusky Green**	**Mottled**		**Magnetite**	**Epidote**

Notes: Dark green, fine grained, banded and weakly foliated ash tuff. No apparent bedding unless epidote preferentially alters along bedding plane. Epidote forms discrete planer bands up to 20 mm wide. One 25 mm wide grey semi-translucent quartz vein, barren. Minor erratic low angle carbonate hairs. One minor dyke(?). No mineralization noted.

STRUCTURE

From	To	Structure	Discontinuity Condition	TCA	Strain	Notes
58.19	66.00	Foliation	Shape - Planar	50	W	Appears to control alteration especially epidote. May be remnant bedding.
64.63	64.84	Shear or Strain Zone	Shape - Planar	30	M	Weak shear? Gneissic appearance. Very dark.
66.00	72.00	Foliation	Shape - Planar	55	W	Appears to control alteration especially epidote. May be remnant bedding.
72.00	100.00	Foliation	Shape - Planar	45	W	Appears to control alteration especially epidote. May be remnant bedding.

ALTERATION

		Assemblages											Minerals							
From	To	Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser	Notes
58.19	73.16													W		W	M			W	Epidote appears dominantly as bands and minor patches up to 20 mm thick. Biotite appears as large disseminated patches locally.

VEINS

From	To	Vn %	V / M	TCA	Qz %	Feld %	CC %	Py %	Mineral 1	Mineral 2	Notes
57.65	72.00	1	4	35			100				Erratic, highly variable angle to the core axis, carbonate hairs less than 1 mm.

MINERALIZATION

				Economic Minerals					Gangue Minerals			
From	To	Style 1	Style 2	Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	Notes
48.16	60.30	Disseminated							Magnetite 20%	Albite 20%	Hematite	Magnetite - disseminated and stabilized. Albite increasingly spotty but still pervasive. Hematite as very rare localized specs.
60.30	73.16	Disseminated							Magnetite 5%	Albite 2%		Significant drop in magnetite and albite with an increase in epidote. Locally strongly magnetic and patches of increased albitization.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

07-HK-02

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
63.94	**64.10**	**Porphyry**	**Very fine grained**	**Dusky Green**	**Porphyritic**	**Hornblende**	**Feldspar**	

Notes: Dark green hornblende feldspar porphyritic dyke. Hornblende elongated (0.5 mm x 2 mm) euhedral crystals forming up to 5% of dyke. Feldspar crystals are white with partially eroded boundries and/or replace with chlorite but less altered the dyke noted uphole. Locally euhedral. Sharp upper and lower contacts with a convoluted lower contact. Barren.

STRUCTURE

From	To	Structure	Discontinuity Condition	TCA	Strain	Notes
58.19	66.00	Foliation	Shape - Planar	50	W	Appears to control alteration especially epidote. May be remnant bedding.

ALTERATION

		Assemblages											Minerals							
From	To	Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser	Notes
58.19	73.16													W		W	M			W	Epidote appears dominantly as bands and minor patches up to 20 mm thick. Biotite appears as large disseminated patches locally.

VEINS

From	To	Vn %	V / M	TCA	Qz %	Feld %	CC %	Py %	Mineral 1	Mineral 2	Notes
57.65	72.00	1	4	35			100				Erratic, highly variable angle to the core axis, carbonate hairs less than 1 mm.

MINERALIZATION

				Economic Minerals					Gangue Minerals			
From	To	Style 1	Style 2	Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	Notes
60.30	73.16	Disseminated							Magnetite 5%	Albite 2%		Significant drop in magnetite and albite with an increase in epidote. Locally strongly magnetic and patches of increased albitization.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

07-HK-02

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
73.16	**104.55**	**Tuff**	**Very fine grained**	**Dusky Green**	**Mottled**	**Albite**	**Epidote**	**Magnetite**

Notes: Dark green massive to weakly foliated with minor sections of moderate foliation. Protolith appears to be very fine grained. Unit varies from intense albite + epidote + magnetite +/- sericite alteration to sections with moderate chlorite and a lack of albite and patchy epidote +/- sericite. Quartz veins are isolated to these sections. Mineralization appears limited to the boundary of these quartz veins.

STRUCTURE

From	To	Structure	Discontinuity Condition	TCA	Strain	Notes
72.00	100.00	Foliation	Shape - Planar	45	W	Appears to control alteration especially epidote. May be remnant bedding.
73.16	73.17	Contact				Gradational.
100.00	154.84	Foliation	Shape - Planar	40	W	

ALTERATION

		Assemblages											Minerals							
From	To	Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser	Notes
73.16	100.00													VW		W	M	VW		W	Alteration ranges from patches of albite dominant to epidote dominant.

VEINS

From	To	Vn %	V / M	TCA	Qz %	Feld %	CC %	Py %	Mineral 1	Mineral 2	Notes
73.16	80.05	1	1	40			90		Chlorite 10%		Imbricated and mildly disrupted. Dirty pyrite on uphole margin as continuous masses < 5 mm thick.
100.15	100.25	90	1	30	20	10	65		Chlorite 5%		Planar, imbricated and vuggy with trace sulphide (possibly galena).

MINERALIZATION

				Economic Minerals					Gangue Minerals			
From	To	Style 1	Style 2	Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	Notes
73.17	100.00	Disseminated		Pyrite 1%					Magnetite 4%	Albite 10%		Pyrite localized to carbonate veins.
100.15	100.25	Disseminated		Galena 1%								One small grain of galena in vein.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

07-HK-02

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
104.55	116.45	Tuff	Very coarse grained	Dusky Green	Porphyritic	Hornblende	Feldspar	Magnetite

Notes: Dark green, porphyritic, lithic lapilli tuff. Matrix supported with clasts ranging from sub-mm to 10 cm on the long axis. Clasts display a wide range of compositions and texture with a fine grained volcanoclastic dominating. In many cases, these clasts are mineralized with pyrite and chalcopyrite in varying amounts and with chalcopyrite up to 4% in very rare cases. One clast in particular displays parasitic folding and is intensely mineralized (up to 4% chaclopyrite) (~110.45 to 110.55 m). In most cases, these clasts are subangular to subrounded with rare angular and rounded clasts. Almost all of these clasts are carbonate altered. Overall clasts comprises <30% of this unit and is focus near the core of the intersection.
This unit is generally unaltered and displays only localized foliation or orientation of rock forming minerals. Pyrite +/- chalcopyrite was noted in the groundmass but never forms more then trace amounts of mineralization. Carbonate is spotty, weak and generally isolated to areas near veinlets. Hornblende crystals are euhedral blades up to 10 mm in length but never more then 2 mm wide with a few isolated grains reaching 20 mm by 4 mm. Feldspars are euhedral to subrounded and commonly display a ghosting of crystal boundries. Chlorite has selectively replaced the smaller rounded fragments (?) which may simply be chlorite altered mafics.
Micro-veinlets of carbonate are common but never forms more then 1% of core and can, at time, be weakly mineralized with pyrite +/- chalcopyrite. Both upper and lower contacts appear sharp but are within severely broken core and, as such, no core angles are possible. The lower contact appears to be distorted and may be the result of soft sediment injection textures.

STRUCTURE

From	To	Structure	Discontinuity Condition	TCA	Strain	Notes
100.00	154.84	Foliation	Shape - Planar	40	W	
104.55	104.56	Contact				Sharp?

ALTERATION

		Assemblages											Minerals							
From	To	Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser	Notes
104.55	116.46														VW	W	VW	W	VW	VW	Alteration appears confined to ghosting of plagioclase, replacement by chlorite of fragments, very weak and generally localized carbonate and pyrite, trace spotty pervasive magnetite, and localized trace interstitial sericite and epidote.

VEINS

From	To	Vn %	V / M	TCA	Qz %	Feld %	CC %	Py %	Mineral 1	Mineral 2	Notes
104.55	116.46	1	4	30			95	3	Chlorite 5%		Planar to mildly disrupted hairlines that crosscut all other elements. Very rare chalcopyrite.

MINERALIZATION

				Economic Minerals					Gangue Minerals			
From	To	Style 1	Style 2	Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	Notes
104.55	116.46	Disseminated		Pyrite 2%	Pyrrhotite 1%	Chalcopyrite 1%	Chalcopyrite	Chalcopyrite	Magnetite 2%	Albite 2%	Hornblende 10%	Pyrite, pyrrhotite and chalcopyrite in groundmass = <1% combined. Pyrite, pyrrhotite, and chalcopyrite in fragments = up to 5% combined within fragments.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

07-HK-02

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
116.45	154.84	Tuff	Very fine grained	Dusky Green	Mottled	Albite	Epidote	Magnetite

Notes: Dark green massive to weakly foliated with minor sections of moderate foliation. Protolith appears to be very fine grained. Unit varies from intense albite + epidote + magnetite +/- sericite alteration to sections with moderate chlorite and a lack of albite and patchey epidote +/- sericite. Quartz veins are isolated to these later sections. Mineralization appears most commonly associated to the boundry of these quartz veins as wisps of pyrite +/- chalcocite. Rarely when mineralization is found within these veins they tend to form as clusters of small euhedral pyrite crystals, and when found as wisps of pyrite +/- chalcocite.
Epidote patches appear to be becoming boudinaged and in rare cases rotated.

STRUCTURE

From	To	Structure	Discontinuity Condition	TCA	Strain	Notes
100.00	154.84	Foliation	Shape - Planar	40	W	
116.45	116.46	Contact	Shape - Stepped			Sharp variable angles with possible injection structures.
150.50	150.65	Fault	Shape - Planar	35	S	Sharp contact uphole with quartz/carbonate vein. Sharp contact downhole. Slickensides on uphole contact. Gouge consists of chlorite and kaolinite and is green. Also fragments of wall rock.

ALTERATION

		Assemblages											Minerals							
From	To	Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser	Notes
104.55	116.46														VW	W	VW	W	VW	VW	Alteration appears confined to ghosting of plagioclase, replacement by chlorite of fragments, very weak and generally localized carbonate and pyrite, trace spotty pervasive magnetite, and localized trace interstitial sericite and epidote.
116.46	154.84														VW	W	M	W	VW	VW	Alteration ranges from patches of albite dominant to epidote dominant.

VEINS

From	To	Vn %	V / M	TCA	Qz %	Feld %	CC %	Py %	Mineral 1	Mineral 2	Notes
104.55	116.46	1	4	30			95	3	Chlorite 5%		Planar to mildly disrupted hairlines that crosscut all other elements. Very rare chalcopyrite.
116.46	154.84	1	1	30	20	5	70	1	Chlorite 5%		Planar and locally imbricated and never more then 20 mm wide. Rare mineralization.

MINERALIZATION

				Economic Minerals					Gangue Minerals			
From	To	Style 1	Style 2	Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	Notes
104.55	116.46	Disseminated		Pyrite 2%	Pyrrhotite 1%	Chalcopyrite 1%	Chalcopyrite	Chalcopyrite	Magnetite 2%	Albite 2%	Hornblende 10%	Pyrite, pyrrhotite and chalcopyrite in groundmass = <1% combined. Pyrite, pyrrhotite, and chalcopyrite in fragments = up to 5% combined within fragments.

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0118

MINERALIZATION

From	To	Style 1	Style 2	Economic Minerals					Gangue Minerals			Notes
				Economic Mineral 1	Economic Mineral 2	Economic Mineral 3	Economic Mineral 4	Economic Mineral 5	Mineral 1	Mineral 2	Mineral 3	
116.46	154.84	Disseminated		Pyrite 1%	Chalcocite 0%	Chalcopyrite 0%	Chalcopyrite	Chalcopyrite	Magnetite 3%	Albite 5%		Pyrite, chalcocite, and chalcopyrite most abundant within veins and forms << 1% of overall core.

APPENDIX D
DIAMOND DRILL HOLE GEOTECHNICAL LOGS

GEOTECHNICAL DRILL LOG

The content of this report was filtered as follows:
project ref #: 08PX0118

Run	From	To	Cut (m)	Core Recovered	(%) Core Recovered	RQD Recovered	(%) RQD	DOMINANT DISCONTINUITY				Weathering Grade	Rock Strength Grade
								Dominant Discontinuity	# of Discontinuities	Condition	Angle To Core Axis		
07-HK-01													
1	0.00	4.14	4.14										
2	4.14	5.49	1.35	1.38	102.2	0.59	43.7	OJ	10	RO	50	SW	R3
3	5.49	8.53	3.04	2.65	87.2	0.76	25.0	OJ	46	RO	65	SW	R3
4	8.53	11.58	3.05	2.67	87.5	1.54	50.5	OJ	30	RO	50	SW	R3
5	11.58	14.63	3.05	2.12	69.5	0.37	12.1	OJ	35	RO	50	SW	R3
6	14.63	17.68	3.05	1.56	51.1	0.62	20.3	OJ	20	RO	50	SW	R3
7	17.68	20.73	3.05	2.50	82.0	1.13	37.0	OJ	45	RO	50	SW	R3
8	20.73	23.77	3.04	2.49	81.9	1.76	57.9	OJ	30	RO	50	SW	R3
9	23.77	26.82	3.05	2.25	73.8	1.11	36.4	OJ	38	RO	50	SW	R3
10	26.82	29.87	3.05	2.13	69.8	0.15	4.9	OJ	70	RO	50	FR	R3
11	29.87	32.92	3.05	1.73	56.7	0.28	9.2	OJ	65	RO	45	FR	R3
12	32.92	35.97	3.05	2.17	71.1	0.47	15.4	OJ	60	RO	60	FR	R3
13	35.97	39.01	3.04	2.35	77.3	0.89	29.3	OJ	41	RO	50	FR	R3
14	39.01	42.06	3.05	2.45	80.3	1.37	44.9	OJ	37	RO	40	FR	R3
15	42.06	45.11	3.05	2.01	65.9	0.61	20.0	OJ	46	RO	40	FR	R3
16	45.11	48.16	3.05	1.89	62.0	0.48	15.7	OJ	55	RO	40	FR	R3
17	48.16	51.21	3.05	2.18	71.5	0.81	26.6	OJ	31	RO	40	FR	R3
18	51.21	54.25	3.04	2.09	68.8	0.38	12.5	OJ	58	RO	60	FR	R3
19	54.25	57.30	3.05	2.69	88.2	1.41	46.2	OJ	34	RO	40	FR	R3
20	57.30	60.35	3.05	2.78	91.1	1.80	59.0	OJ	21	RO	50	FR	R3
21	60.35	63.40	3.05	2.56	83.9	1.61	52.8	OJ	23	RO	40	FR	R3
22	63.40	66.45	3.05	2.69	88.2	1.33	43.6	OJ	30	RO	80	FR	R3
23	66.45	69.49	3.04	2.54	83.6	1.16	38.2	OJ	25	RO	50	FR	R3
24	69.49	72.54	3.05	2.37	77.7	0.89	29.2	OJ	29	RO	40	FR	R3
25	72.54	75.59	3.05	2.59	84.9	1.02	33.4	OJ	25	RO	50	FR	R3

GEOTECHNICAL DRILL LOG

The content of this report was filtered as follows:
project ref #: 08PX0118

Run	From	To	Cut (m)	Core Recovered	(%) Core Recovered	RQD Recovered	(%) RQD	DOMINANT DISCONTINUITY				Weathering Grade	Rock Strength Grade
								Dominant Discontinuity	# of Discontinuities	Condition	Angle To Core Axis		
07-HK-01													
26	75.59	78.64	3.05	2.65	86.9	1.91	62.6	OJ	23	RO	60	FR	R3
27	78.64	81.69	3.05	3.01	98.7	2.33	76.4	OJ	19	RO	40	FR	R3
28	81.69	84.73	3.04	2.71	89.1	1.84	60.5	OJ	28	RO	70	FR	R3
29	84.73	87.78	3.05	2.75	90.2	1.31	43.0	OJ	28	RO	30	FR	R3
30	87.78	90.83	3.05	2.75	90.2	2.22	72.8	OJ	18	RO	70	FR	R3
31	90.83	93.88	3.05	2.48	81.3	1.65	54.1	OJ	21	RO	60	FR	R3
32	93.88	96.93	3.05	2.56	83.9	1.10	36.1	OJ	32	RO	60	FR	R3
33	96.93	99.97	3.04	2.90	95.4	1.80	59.2	OJ	23	RO	40	FR	R3
34	99.97	103.02	3.05	2.54	83.3	1.47	48.2	OJ	21	RO	40	FR	R3
35	103.02	106.07	3.05	1.92	63.0	2.42	79.3	OJ	16	RO	40	FR	R3
36	106.07	109.12	3.05	2.69	88.2	2.73	89.5	OJ	16	RO	40	FR	R3
37	109.12	112.17	3.05	1.65	54.1	0.91	29.8	OJ	20	RO	30	FR	R3
38	112.17	115.21	3.04	2.81	92.4	1.08	35.5	OJ	25	RO	70	FR	R3
39	115.21	118.26	3.05	2.62	85.9	1.12	36.7	OJ	24	RO	60	FR	R3
40	118.26	121.31	3.05	3.00	98.4	1.95	63.9	OJ	25	RO	80	FR	R3
	Total For 07-HK-01		**121.31**	**93.88**	**77.4**	**48.38**	**39.9**						
07-HK-02													
1	0.00	7.62	7.62	0.00	0.0	0.00	0.0						
2	7.62	11.58	3.96	1.94	49.0	0.29	7.3	OJ	33	RO	40	SW	R3
3	11.58	14.63	3.05	2.07	67.9	0.11	3.6	OJ	36	RO	40	SW	R3
4	14.63	17.68	3.05	2.30	75.4	0.11	3.6	OJ	40	RO	45	SW	R3
5	17.68	20.73	3.05	2.82	92.5	0.57	18.7	OJ	30	RO	50	SW	R3
6	20.73	23.77	3.04	2.82	92.8	1.28	42.1	OJ	26	RO	55	SW	R3
7	23.77	26.82	3.05	2.90	95.1	1.15	37.7	OJ	37	RO	60	SW	R3
8	26.82	29.87	3.05	3.00	98.4	1.23	40.3	OJ	18	RO	55	SW	R3
9	29.87	32.92	3.05	3.15	103.3	2.61	85.6	OJ	14	RO	45	FR	R3

GEOTECHNICAL DRILL LOG

The content of this report was filtered as follows:
project ref #: 08PX0118

Run	From	To	Cut (m)	Core Recovered	(%) Core Recovered	RQD Recovered	(%) RQD	DOMINANT DISCONTINUITY				Weathering Grade	Rock Strength Grade
								Dominant Discontinuity	# of Discontinuities	Condition	Angle To Core Axis		
07-HK-02													
10	32.92	35.97	3.05	2.93	96.1	2.01	65.9	OJ	8	RO	45	FR	R3
11	35.97	39.01	3.04	3.05	100.3	0.65	21.4	OJ	15	RO	40	FR	R3
12	39.01	42.06	3.05	2.95	96.7	1.67	54.8	OJ	10	RO	40	FR	R3
13	42.06	45.11	3.05	3.02	99.0	0.86	28.2	OJ	13	RO	45	FR	R3
14	45.11	48.16	3.05	3.03	99.3	2.13	69.8	OJ	14	RO	50	FR	R3
15	48.16	51.21	3.05	3.04	99.7	2.11	69.2	OJ	13	RO	55	FR	R3
16	51.21	54.25	3.04	2.90	95.4	1.34	44.1	OJ	18	RO	45	FR	R3
17	54.25	57.30	3.05	2.90	95.1	2.05	67.2	OJ	18	RO	40	FR	R3
18	57.30	60.35	3.05	3.05	100.0	2.37	77.7	OJ	19	RO	50	FR	R3
19	60.35	63.40	3.05	2.90	95.1	1.30	42.6	OJ	22	RO	55	FR	R3
20	63.40	66.45	3.05	3.05	100.0	1.37	44.9	OJ	21	RO	40	FR	R3
21	66.45	69.49	3.04	2.76	90.8	1.65	54.3	OJ	15	RO	55	FR	R3
22	69.49	72.54	3.05	3.01	98.7	1.81	59.3	OJ	14	RO	50	FR	R3
23	72.54	75.59	3.05	2.95	96.7	1.36	44.6	OJ	11	RO	55	FR	R3
24	75.59	78.64	3.05	3.02	99.0	1.32	43.3	OJ	15	RO	40	FR	R3
25	78.64	81.69	3.05	2.84	93.1	1.26	41.3	OJ	14	RO	40	FR	R3
26	81.69	84.73	3.04	3.02	99.3	2.37	78.0	OJ	8	RO	45	FR	R3
27	84.73	87.78	3.05	2.41	79.0	1.62	53.1	OJ	24	RO	40	FR	R3
28	87.78	90.83	3.05	2.77	90.8	1.69	55.4	OJ	22	RO	30	FR	R3
29	90.83	93.88	3.05	3.14	103.0	2.57	84.3	OJ	16	RO	40	FR	R3
30	93.88	96.93	3.05	2.90	95.1	2.31	75.7	OJ	14	RO	40	FR	R3
31	96.93	99.97	3.04	3.13	103.0	2.68	88.2	OJ	17	RO	40	FR	R3
32	99.97	103.02	3.05	2.85	93.4	1.75	57.4	OJ	31	RO	40	FR	R3
33	103.02	106.07	3.05	2.57	84.3	1.38	45.2	OJ	36	RO	40	FR	R3
34	106.07	109.12	3.05	2.85	93.4	2.20	72.1	OJ	17	RO	40	FR	R3

GEOTECHNICAL DRILL LOG

The content of this report was filtered as follows:
project ref #: 08PX0118

Run	From	To	Cut (m)	Core Recovered	(%) Core Recovered	RQD Recovered	(%) RQD	DOMINANT DISCONTINUITY				Weathering Grade	Rock Strength Grade
								Dominant Discontinuity	# of Discontinuities	Condition	Angle To Core Axis		
07-HK-02													
35	109.12	112.17	3.05	2.85	93.4	2.46	80.7	OJ	15	RO	40	FR	R3
36	112.17	115.21	3.04	2.36	77.6	1.55	51.0	OJ	24	RO	30	FR	R3
37	115.21	118.26	3.05	2.62	85.9	1.17	38.4	OJ	32	RO	50	FR	R3
38	118.26	121.31	3.05	2.60	85.2	1.31	43.0	OJ	26	RO	40	FR	R3
39	121.31	124.36	3.05	2.65	86.9	1.32	43.3	OJ	29	RO	30	FR	R3
40	124.36	127.41	3.05	2.57	84.3	1.07	35.1	OJ	35	RO	40	FR	R3
41	127.41	130.45	3.04	1.89	62.2	0.31	10.2	FL	1	SL		FR	R3
42	130.45	133.50	3.05	2.81	92.1	1.29	42.3	OJ	32	RO	50	FR	R3
43	133.50	136.55	3.05	2.73	89.5	1.11	36.4	OJ	48	RO	50	FR	R3
44	136.55	139.60	3.05	3.09	101.3	2.45	80.3	OJ	20	RO	40	FR	R3
45	139.60	142.65	3.05	2.63	86.2	1.08	35.4	OJ	32	RO	40	FR	R3
46	142.65	145.69	3.04	2.58	84.9	1.51	49.7	OJ	26	RO	40	FR	R3
47	145.69	148.74	3.05	2.62	85.9	1.48	48.5	OJ	27	RO	50	FR	R3
48	148.74	151.79	3.05	2.83	92.8	1.61	52.8	OJ	30	RO	50	FR	R3
49	151.79	154.84	3.05	2.75	90.2	1.24	40.7	OJ	28	RO	45	FR	R3
	Total For 07-HK-02		**154.84**	**133.62**	**86.3**	**72.14**	**46.6**						

APPENDIX E
CORE SAMPLE GEOCHEMICAL RESULTS AND ACME CERTIFICATES OF ANALYSIS

MED Mineral Exploration Database
ALLNORTH CONSULTANTS LIMITED

SAMPLES REPORT

The content of this report was filtered as follows:
project ref #: 08PX0118 AND sample type: CORE

Sample	From	To	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
07-HK-01																																					
659757	4.14	5.49	0.5	119.8	0.8	37	<0.1	36.9	27.4	499	2.94	4.2	<0.1	1.8	0.2	87	<0.1	<0.1	<0.1	101	1.61	0.236	1	100	2.07	117	0.158	4	1.88	0.074	1.33	<0.1	<0.01	5.4	<0.1	<0.05	4	<0.5
659758	5.49	8.53	0.7	278.3	1.2	38	0.1	20.6	22.7	478	4.08	4	<0.1	4.3	0.2	151	<0.1	0.2	<0.1	141	1.66	0.204	1	59	1.44	74	0.151	4	1.55	0.061	0.95	0.1	<0.01	4.8	<0.1	<0.05	5	<0.5
659759	8.53	11.58	0.6	122.8	1.1	36	<0.1	31.8	25.4	525	3.26	4.8	<0.1	4	0.2	117	<0.1	0.1	<0.1	112	1.87	0.271	2	94	2.01	125	0.16	3	1.89	0.074	1.28	<0.1	<0.01	5.3	<0.1	<0.05	5	<0.5
659760	11.58	14.63	0.6	261.2	0.9	40	0.1	26.5	23.9	577	4.66	3.7	<0.1	4.3	0.2	145	<0.1	0.2	<0.1	164	2.43	0.173	2	72	1.68	76	0.166	5	1.67	0.071	0.87	<0.1	<0.01	6.5	<0.1	<0.05	6	<0.5
659762	14.63	17.68	0.5	142	0.8	44	<0.1	41.2	28.4	571	4	4.9	<0.1	2.7	0.2	115	<0.1	0.2	<0.1	141	2.25	0.211	2	113	2.2	111	0.167	2	1.97	0.061	1.37	<0.1	<0.01	5.6	<0.1	<0.05	6	<0.5
659763	17.68	20.73	0.5	45	1.9	43	<0.1	59.5	28.1	619	3.68	4.4	<0.1	5.3	0.2	86	<0.1	0.1	<0.1	121	3.18	0.185	2	196	2.54	136	0.167	1	2.11	0.059	1.48	0.1	<0.01	6.2	<0.1	<0.05	6	<0.5
659764	20.73	23.77	0.3	3.3	1	43	<0.1	79.6	29.7	592	3.29	3.3	<0.1	1.9	0.1	67	<0.1	<0.1	<0.1	97	3.91	0.117	1	290	2.7	205	0.151	1	2.04	0.077	1.39	<0.1	<0.01	6.9	<0.1	<0.05	5	<0.5
659765	23.77	26.82	0.5	84.2	1.9	30	<0.1	39.1	21.9	513	3.09	4.1	<0.1	3.9	0.2	127	<0.1	0.1	<0.1	100	3.5	0.154	1	187	2.03	151	0.142	3	1.63	0.117	0.89	<0.1	<0.01	7.8	<0.1	<0.05	5	<0.5
659766	26.82	29.87	0.6	246.2	2.3	43	0.1	26.6	27.9	603	5.33	4.1	<0.1	5.4	0.1	115	<0.1	0.2	<0.1	194	1.79	0.143	1	65	1.63	103	0.19	3	1.57	0.079	0.94	0.1	0.02	5.5	<0.1	<0.05	6	0.7
659767	26.82	29.87	0.6	234.2	2.9	45	0.1	26.8	29	600	5.44	4.2	<0.1	5.5	0.1	125	<0.1	0.2	<0.1	195	1.91	0.156	1	65	1.67	113	0.188	3	1.56	0.085	0.95	0.1	0.01	5.6	<0.1	<0.05	6	0.5
659768	29.87	32.92	0.4	227.1	1.6	45	0.1	26.1	27.5	544	4.76	3.5	<0.1	4.8	<0.1	104	<0.1	0.2	<0.1	177	1.65	0.15	<1	66	1.69	95	0.19	3	1.66	0.082	1.14	<0.1	<0.01	5.6	<0.1	<0.05	6	<0.5
659769	32.92	35.97	0.6	26.3	1.3	33	<0.1	26	20.2	364	2.96	2.8	<0.1	5.4	<0.1	56	<0.1	<0.1	<0.1	96	1.33	0.136	<1	97	1.51	58	0.138	2	1.32	0.058	1	<0.1	<0.01	4.4	<0.1	<0.05	4	<0.5
659770	35.97	39.01	0.4	49.8	0.6	47	<0.1	51.5	26.4	452	3.59	3.4	<0.1	3.1	0.1	59	<0.1	<0.1	<0.1	122	1.29	0.145	<1	173	2.11	177	0.152	2	1.76	0.081	1.46	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5
659771	39.01	42.06	0.2	59.9	0.4	56	<0.1	77.9	29.7	541	3.6	2.9	<0.1	2.7	<0.1	39	<0.1	<0.1	<0.1	117	1.13	0.109	<1	291	2.82	232	0.15	1	2.22	0.049	1.85	<0.1	<0.01	2.7	<0.1	<0.05	6	<0.5
659772	42.06	45.11	0.6	176.6	0.9	29	<0.1	26.1	20.8	428	3.73	3.2	<0.1	4	0.1	149	<0.1	0.2	<0.1	110	1.73	0.148	<1	83	1.42	77	0.146	3	1.32	0.085	0.59	0.2	0.01	4.3	<0.1	<0.05	4	<0.5
659773	45.11	48.16	1	51.1	1	26	<0.1	36	17.9	338	3.02	2.4	<0.1	2.2	0.1	66	<0.1	0.2	<0.1	91	1.56	0.14	<1	153	1.57	119	0.128	2	1.2	0.083	0.7	0.1	<0.01	4.7	<0.1	<0.05	3	<0.5
659775	48.16	51.24	2.7	37.7	0.5	26	<0.1	59.5	19.5	450	2.25	1.7	<0.1	1.4	0.2	57	<0.1	<0.1	<0.1	64	3.12	0.138	2	302	2.41	102	0.107	2	1.7	0.065	0.76	<0.1	<0.01	5.3	<0.1	<0.05	4	<0.5
659776	51.24	54.25	1.4	25.8	0.7	28	<0.1	57.3	22.7	515	2.64	1.8	<0.1	0.9	0.2	63	<0.1	0.1	<0.1	77	2.52	0.157	1	210	2.3	194	0.127	2	1.83	0.11	1.02	<0.1	<0.01	6.4	<0.1	<0.05	4	<0.5
659777	54.25	57.30	2.1	140	1.7	49	<0.1	82.3	41.3	1291	5.12	3.2	0.1	11.3	0.3	181	0.1	0.2	<0.1	146	7.35	0.173	4	291	4.06	164	0.059	1	2.79	0.017	0.86	<0.1	0.02	17.6	<0.1	0.24	7	<0.5
659778	57.30	60.35	3.6	216.7	1.9	33	<0.1	41.7	25.3	771	3.61	2.4	0.2	3.3	0.4	144	<0.1	0.1	<0.1	114	5.42	0.234	5	163	2.14	108	0.101	1	1.92	0.053	0.66	0.1	<0.01	7.7	<0.1	0.06	6	<0.5
659779	60.35	63.40	0.8	40.3	0.4	33	<0.1	66.8	27.5	635	3.15	1.5	0.1	<0.5	0.3	92	<0.1	<0.1	<0.1	85	3.83	0.171	3	296	2.78	160	0.127	<1	2.19	0.071	0.95	<0.1	<0.01	6.2	<0.1	<0.05	6	<0.5
659780	63.40	66.45	0.6	54.5	1	28	<0.1	17.4	18.5	511	3.16	2.5	0.1	0.8	0.2	249	<0.1	0.2	<0.1	106	3.13	0.167	2	101	1.43	80	0.145	4	1.57	0.084	0.73	0.1	0.01	6.5	<0.1	<0.05	5	<0.5
659782	66.45	69.49	0.3	17.8	0.7	41	<0.1	30.7	24.9	478	3.83	2.6	<0.1	1.1	0.1	127	<0.1	0.1	<0.1	124	1.38	0.128	<1	91	1.74	71	0.145	1	1.55	0.068	1.15	<0.1	<0.01	4.3	<0.1	<0.05	4	<0.5
659783	69.49	72.54	0.4	33.3	1.1	34	<0.1	10.9	19.4	455	3.66	3.1	<0.1	3.7	0.1	151	<0.1	0.2	<0.1	130	1.6	0.141	<1	25	1.21	39	0.162	3	1.36	0.079	0.7	0.1	<0.01	4.2	<0.1	<0.05	4	<0.5
659784	72.54	75.59	0.4	28.4	0.9	35	<0.1	22.8	22.1	447	3.54	3.1	<0.1	2.3	<0.1	117	<0.1	0.2	<0.1	112	1.41	0.141	<1	68	1.5	53	0.165	3	1.45	0.087	0.89	0.1	<0.01	4.5	<0.1	0.07	4	<0.5
659785	75.59	78.64	0.4	43	0.9	30	<0.1	15	21.1	479	3.7	2.9	<0.1	0.7	0.1	146	<0.1	0.2	<0.1	114	2.58	0.142	<1	41	1.36	37	0.193	3	1.42	0.076	0.82	0.1	<0.01	4.8	<0.1	0.8	4	<0.5
659786	78.64	81.69	0.4	58.6	0.8	29	<0.1	13.2	18.4	426	3.38	2.6	<0.1	0.9	<0.1	212	<0.1	0.2	<0.1	110	3.21	0.126	<1	34	1.14	47	0.163	2	1.24	0.059	0.77	<0.1	<0.01	2.9	<0.1	1.26	4	<0.5
659787	81.69	84.73	0.4	113.3	1.2	36	<0.1	14.7	22.6	464	3.89	3.1	<0.1	1.9	0.1	104	<0.1	0.1	<0.1	130	1.46	0.19	<1	33	1.48	64	0.18	3	1.55	0.081	1.06	0.1	<0.01	4.4	<0.1	0.13	4	<0.5
659788	84.73	87.78	0.4	13.2	0.6	33	<0.1	33.8	25.9	430	3.5	3.8	<0.1	2.7	0.1	102	<0.1	<0.1	<0.1	111	1.37	0.145	<1	74	1.74	61	0.171	2	1.55	0.057	1.25	<0.1	<0.01	3.6	<0.1	0.17	4	<0.5
659790	87.78	90.83	0.3	42.6	0.8	38	<0.1	19.5	23.8	455	3.97	3.4	<0.1	8.6	<0.1	92	<0.1	0.1	<0.1	120	1.4	0.139	<1	55	1.47	48	0.164	3	1.39	0.061	1.02	0.1	<0.01	3	<0.1	0.44	4	0.5
659791	90.83	93.88	0.4	34.9	1.1	40	<0.1	22.7	24.5	489	4.43	3.2	<0.1	4.9	0.1	120	<0.1	0.2	<0.1	144	1.78	0.14	<1	71	1.56	56	0.18	3	1.55	0.061	1.08	0.1	<0.01	3.3	<0.1	0.52	4	0.5
659792	93.88	96.93	0.4	6.6	0.8	43	<0.1	46	24.7	427	3.45	3	<0.1	<0.5	0.1	70	<0.1	0.1	<0.1	107	1.52	0.148	<1	169	1.93	96	0.157	2	1.66	0.079	1.31	<0.1	<0.01	4.3	<0.1	<0.05	4	<0.5
659793	96.93	99.97	0.4	7.4	0.8	42	<0.1	43.7	24.3	397	3.42	3.1	<0.1	<0.5	0.1	70	<0.1	0.1	<0.1	100	1.17	0.137	<1	144	1.8	77	0.146	2	1.53	0.062	1.26	<0.1	<0.01	3.9	<0.1	<0.05	4	<0.5
659794	99.97	103.02	0.3	34.9	0.7	34	<0.1	48.5	23.2	460	2.88	2.8	0.1	2.9	0.2	70	<0.1	<0.1	<0.1	83	2.47	0.152	2	234	2.42	110	0.126	1	1.78	0.062	1.06	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5
659795	103.02	106.07	0.5	130.4	1.1	28	<0.1	25.3	18.2	383	3.43	3.1	0.1	2.1	0.1	121	<0.1	0.2	<0.1	111	1.59	0.131	<1	87	1.25	55	0.17	3	1.33	0.067	0.75	0.1	<0.01	3.6	<0.1	0.09	4	<0.5
659797	103.02	109.12	0.4	129.5	0.8	31	<0.1	18.7	19.1	389	3.41	3.2	<0.1	1.1	0.1	91	<0.1	0.2	<0.1	106	1.16	0.141	<1	59	1.28	58	0.153	3	1.26	0.072	0.89	0.1	<0.01	3.1	<0.1	<0.05	4	<0.5
659798	109.12	112.17	0.3	42.1	0.7	27	<0.1	28.2	18.9	346	3.16	3.7	<0.1	4.1	<0.1	69	<0.1	<0.1	<0.1	94	1.35	0.157	<1	99	1.41	68	0.129	2	1.24	0.086	0.89	<0.1	<0.01	4.4	<0.1	<0.05	3	0.7
659799	112.17	115.21	0.4	32.6	1.1	32	<0.1	23.8	24.5	453	3.88	4.6	<0.1	1	0.1	70	<0.1	<0.1	<0.1	115	1.32	0.19	<1	83	1.81	62	0.169	2	1.66	0.082	1.35	0.1	<0.01	4.7	<0.1	<0.05	5	0.7
659800	115.21	118.26	0.3	22.5	0.5	28	<0.1	55.8	24.6	423	2.8	3.4	<0.1	<0.5	<0.1	66	<0.1	<0.1	<0.1	85	1.62	0.136	<1	156	2.04	142	0.157	2	1.71	0.098	1.14	<0.1	<0.01	5.3	<0.1	0.23	4	<0.5
659801	118.26	121.31	0.5	22.4	0.8	23	<0.1	50.7	21.2	415	3.61	3.4	<0.1	<0.5	0.1	118	<0.1	0.1	<0.1	106	2.3	0.124	<1	124	1.79	83	0.162	2	1.5	0.072	1.06	<0.1	<0.01	4.3	<0.1	0.75	4	<0.5

40 Assays reported for 07-HK-01

MED Mineral Exploration Database
ALLNORTH CONSULTANTS LIMITED

SAMPLES REPORT

The content of this report was filtered as follows:
project ref #: 08PX0118 AND sample type: CORE

Sample	From	To	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
07-HK-02																																					
659701	7.62	11.58	0.8	80.9	1.3	60	<0.1	4.9	16.2	508	2.82	6.7	0.4	4.7	0.6	59	<0.1	1	<0.1	115	1.63	0.244	2	6	1.16	31	0.106	1	1.2	0.045	0.2	0.2	0.09	3.9	<0.1	<0.05	5	<0.5
659702	11.58	14.63	2.4	1832.4	1.5	61	1.1	3.8	19.2	699	3.19	5.4	0.3	229.9	0.5	103	<0.1	0.8	0.6	119	2.01	0.305	3	4	1.2	41	0.102	1	1.55	0.053	0.25	0.2	0.66	4.3	<0.1	0.05	6	<0.5
659703	14.63	17.68	0.4	497.7	1.3	53	0.5	4.8	17.7	677	3.57	3.4	0.3	79.8	0.4	91	<0.1	0.4	0.3	136	2.61	0.29	2	9	1.2	30	0.104	2	1.36	0.05	0.12	0.2	0.18	4.8	<0.1	<0.05	5	<0.5
659704	17.68	20.73	0.4	460	0.9	41	0.4	5	14.8	438	2.92	3.7	0.3	93.2	0.4	74	<0.1	0.3	0.2	121	1.59	0.266	2	11	0.93	40	0.11	<1	0.96	0.054	0.13	0.2	0.14	4.3	<0.1	<0.05	4	<0.5
659706	20.73	23.77	0.4	434.5	1.2	53	0.2	6	18.1	482	2.78	5	0.3	9.4	0.4	100	<0.1	0.7	<0.1	109	1.6	0.278	2	6	1.24	21	0.126	<1	1.15	0.051	0.11	0.3	0.07	3.6	<0.1	<0.05	4	<0.5
659707	23.77	26.82	0.5	175.9	0.8	39	0.1	4	13.2	376	2.82	2	0.3	5.1	0.4	100	<0.1	0.2	<0.1	109	1.52	0.266	2	6	0.79	21	0.108	1	0.92	0.062	0.12	0.2	0.02	3.5	<0.1	<0.05	4	<0.5
659708	26.82	29.87	0.4	131.6	1.1	37	<0.1	4.7	13	357	3	3.6	0.3	3.1	0.4	94	<0.1	0.6	<0.1	114	1.62	0.285	2	5	0.75	22	0.111	1	0.97	0.054	0.11	0.1	0.05	3.4	<0.1	<0.05	4	<0.5
659709	29.87	32.92	0.4	66	1	42	<0.1	4.7	15.1	387	3.56	2	0.3	7.8	0.4	80	<0.1	0.2	<0.1	131	1.64	0.26	2	6	0.81	20	0.107	2	1	0.058	0.12	0.1	0.02	3.7	<0.1	<0.05	4	<0.5
659710	32.92	35.97	0.5	165.3	1.3	41	<0.1	5.7	15.8	478	4.14	4	0.3	9.1	0.5	80	<0.1	0.6	<0.1	160	2.02	0.264	2	7	0.89	26	0.104	2	1.2	0.067	0.13	0.2	0.06	4.9	<0.1	<0.05	4	<0.5
659712	35.97	39.01	0.4	85.2	0.9	34	<0.1	4	13.3	439	3.58	1.8	0.3	6.9	0.4	86	<0.1	0.2	<0.1	144	1.87	0.261	2	6	0.79	22	0.103	1	1.11	0.068	0.12	0.2	0.02	4.7	<0.1	<0.05	4	<0.5
659713	39.01	42.06	0.4	1178.4	0.9	33	0.4	4.3	12.5	329	3.53	3.7	0.3	8.8	0.4	95	<0.1	0.4	<0.1	132	1.44	0.256	2	5	0.59	21	0.102	1	0.75	0.053	0.13	0.2	0.04	3.2	<0.1	<0.05	3	<0.5
659714	42.06	45.11	0.5	116.5	0.9	37	<0.1	4.8	14.3	353	4.11	2.5	0.3	4.6	0.4	89	<0.1	0.3	<0.1	150	1.51	0.264	2	8	0.64	25	0.097	<1	0.9	0.057	0.13	0.1	0.01	3.3	<0.1	<0.05	4	<0.5
659715	45.11	48.16	0.3	49.6	0.3	37	<0.1	5.2	14.5	329	4.04	2.7	0.3	3.4	0.4	89	<0.1	0.4	<0.1	143	1.4	0.276	2	8	0.58	22	0.116	1	0.86	0.05	0.12	<0.1	0.04	2.8	<0.1	<0.05	3	<0.5
659716	48.16	51.21	0.3	183.8	0.2	36	<0.1	4.8	14	359	3.67	1.1	0.3	5.2	0.5	106	<0.1	0.1	<0.1	135	1.62	0.286	3	8	0.66	20	0.116	1	0.95	0.053	0.1	0.1	0.01	3.4	<0.1	<0.05	4	<0.5
659717	51.21	54.25	0.4	68.6	0.4	41	<0.1	5.7	16.2	446	3.89	2.6	0.3	4.7	0.4	94	<0.1	0.3	<0.1	141	1.63	0.263	2	6	0.85	40	0.107	1	1.02	0.068	0.13	0.1	0.04	3.8	<0.1	<0.05	4	<0.5
659719	54.25	57.30	0.4	132	<0.1	44	<0.1	5.1	16.8	440	3.5	0.9	0.3	10.9	0.4	95	<0.1	0.1	<0.1	123	1.64	0.27	2	5	0.88	17	0.095	1	1.06	0.048	0.11	0.2	0.08	3.3	<0.1	<0.05	4	<0.5
659720	57.30	60.35	0.3	47.4	0.3	41	<0.1	4.9	15.4	400	3.41	2.1	0.3	4.4	0.4	104	<0.1	0.2	<0.1	124	1.74	0.264	2	4	0.86	19	0.111	1	1.11	0.055	0.1	0.1	0.02	3.6	<0.1	<0.05	4	<0.5
659721	60.35	63.40	1	69.2	0.2	42	<0.1	4.8	15.3	440	3.27	1.1	0.2	6.8	0.3	84	<0.1	0.1	<0.1	121	1.54	0.263	2	5	0.87	14	0.113	1	0.96	0.047	0.11	0.1	0.02	3.5	<0.1	<0.05	4	<0.5
659722	63.40	66.45	0.4	59.6	0.2	34	<0.1	5.9	13.5	369	2.53	1.7	0.2	1.7	0.3	84	<0.1	0.2	<0.1	96	1.5	0.221	2	18	0.9	22	0.124	<1	1.04	0.042	0.2	0.1	0.01	3.6	<0.1	<0.05	3	<0.5
659723	66.45	69.49	0.2	36.2	<0.1	34	<0.1	4.8	13.5	378	2.92	0.6	0.2	7.5	0.3	71	<0.1	0.1	<0.1	106	1.37	0.242	2	10	0.8	15	0.101	<1	0.87	0.049	0.18	0.2	<0.01	3.1	<0.1	<0.05	3	<0.5
659724	69.49	72.54	0.3	101.6	0.1	41	<0.1	5.1	14.3	403	3.44	1.4	0.3	8	0.5	89	<0.1	0.2	<0.1	127	1.48	0.272	3	9	0.79	18	0.127	<1	0.9	0.059	0.2	0.1	0.04	3.7	<0.1	<0.05	4	<0.5
659726	72.54	75.59	0.3	70.8	0.2	43	<0.1	5.4	16.1	403	3.98	0.7	0.3	2.9	0.5	97	<0.1	0.1	<0.1	138	1.47	0.269	3	9	0.85	14	0.112	1	1	0.048	0.13	0.1	<0.01	3.6	<0.1	<0.05	4	<0.5
659727	75.59	78.64	0.3	109.5	0.4	43	<0.1	5.7	15.8	461	3.01	1	0.2	8.4	0.4	108	<0.1	0.2	<0.1	116	1.88	0.258	2	8	0.96	11	0.115	2	1.15	0.048	0.1	0.1	0.16	4.5	<0.1	<0.05	4	<0.5
659728	78.64	81.69	0.3	105.7	0.1	41	<0.1	5.2	15.9	408	3.71	1.1	0.3	4.8	0.4	87	<0.1	0.1	<0.1	130	1.67	0.257	2	8	0.79	12	0.09	1	0.97	0.037	0.09	0.1	0.01	4.1	<0.1	<0.05	4	<0.5
659729	81.69	84.73	0.3	57.9	0.1	33	<0.1	4	12.3	319	2.62	1.7	0.3	1.7	0.4	106	<0.1	0.1	<0.1	98	1.53	0.257	2	5	0.67	15	0.113	1	0.92	0.045	0.1	<0.1	0.01	3.2	<0.1	<0.05	3	<0.5
659730	84.73	87.78	0.3	56	<0.1	43	<0.1	4.5	15	412	3.44	1.3	0.3	4.3	0.5	120	<0.1	0.2	<0.1	129	1.89	0.263	2	6	0.77	12	0.1	1	0.99	0.043	0.09	<0.1	0.01	4	<0.1	<0.05	4	<0.5
659731	87.78	90.83	0.3	104.8	<0.1	33	<0.1	4.3	12.8	307	3.03	1	0.3	3.5	0.4	93	<0.1	0.2	<0.1	105	1.31	0.248	2	6	0.62	16	0.109	1	0.86	0.041	0.12	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5
659732	90.83	93.88	0.2	169.8	<0.1	39	<0.1	5.3	16.1	349	3.23	0.9	0.3	3.4	0.4	104	<0.1	0.1	<0.1	113	1.41	0.264	2	7	0.76	15	0.111	1	0.94	0.039	0.12	<0.1	<0.01	3.2	<0.1	<0.05	3	<0.5
659734	93.88	96.93	0.9	88.9	1.7	36	<0.1	4.2	13.9	359	4.08	1.6	0.4	3.4	0.6	115	<0.1	0.1	0.3	145	1.54	0.256	2	9	0.63	25	0.117	2	1.01	0.076	0.17	0.3	0.01	3.5	<0.1	<0.05	3	<0.5
659735	96.93	99.97	1	179.1	1.1	45	<0.1	6.4	16.4	434	4.1	1.5	0.3	3.1	0.5	132	<0.1	0.1	<0.1	148	1.64	0.269	2	9	0.82	29	0.133	2	1.18	0.079	0.21	0.2	0.01	4	<0.1	<0.05	4	<0.5
659736	99.97	103.02	2.2	110.9	0.9	40	<0.1	4.3	14.3	428	3.25	1.6	0.3	2.3	0.5	139	<0.1	0.1	<0.1	110	2.22	0.277	2	7	0.83	21	0.108	2	1.15	0.054	0.14	0.2	<0.01	4	<0.1	<0.05	4	<0.5
659737	103.02	106.07	1.1	89.9	1.8	48	<0.1	8.1	16.4	655	4.15	5.1	0.2	3	0.4	158	<0.1	<0.1	<0.1	143	1.98	0.221	3	13	1.1	234	0.126	2	1.57	0.102	0.15	0.1	0.01	5	<0.1	0.08	5	<0.5
659738	106.07	109.12	0.2	106	1.5	58	<0.1	15.3	20.3	879	3.91	3.8	<0.1	2.4	0.3	148	<0.1	<0.1	<0.1	124	2.56	0.151	3	28	1.7	57	0.121	1	2.18	0.124	0.15	<0.1	<0.01	6.4	<0.1	0.07	7	<0.5
659739	109.12	112.17	0.3	133.8	1.7	57	<0.1	13.5	21.9	876	3.95	5.2	0.1	3.9	0.3	170	<0.1	<0.1	<0.1	130	2.88	0.154	3	22	1.59	70	0.133	1	2.19	0.165	0.17	<0.1	<0.01	7.8	<0.1	0.11	7	<0.5
659741	112.17	115.21	0.9	116.6	1.7	64	<0.1	13.1	21.6	847	3.93	3.9	0.1	7.7	0.3	137	<0.1	0.1	<0.1	118	2.34	0.153	2	22	1.6	48	0.114	1	2.1	0.118	0.13	<0.1	0.01	7.4	<0.1	0.14	7	<0.5
659742	115.21	118.26	0.5	141.4	1.2	57	<0.1	7.8	16.7	699	3.6	1.8	0.3	4.8	0.4	133	<0.1	0.1	<0.1	124	2.49	0.228	2	11	1.14	131	0.129	<1	1.6	0.085	0.14	<0.1	<0.01	5.3	<0.1	0.11	5	<0.5
659743	118.26	121.31	0.7	113.5	1.4	37	<0.1	4.1	12.8	390	3.21	2	0.4	4.8	0.5	147	<0.1	0.1	<0.1	123	1.78	0.254	2	5	0.74	24	0.125	1	1.1	0.07	0.13	0.1	0.02	4.5	<0.1	<0.05	4	<0.5
659744	121.31	124.36	0.6	93.4	1	39	<0.1	4.9	13.5	448	3.33	2.4	0.3	5.7	0.5	158	<0.1	0.2	<0.1	143	2.02	0.274	2	8	0.86	22	0.14	1	1.19	0.072	0.13	0.1	<0.01	5.5	<0.1	<0.05	4	<0.5
659745	124.36	127.41	0.6	79.3	2.2	45	<0.1	4.7	15.4	436	3.22	4	0.3	3.2	0.4	142	<0.1	0.3	<0.1	127	1.78	0.28	2	5	0.95	25	0.123	1	1.31	0.058	0.12	0.1	0.01	5.5	<0.1	<0.05	4	<0.5
659746	127.41	130.45	0.5	100.5	1.2	46	<0.1	5.1	16.4	484	3.35	4.4	0.3	3.7	0.4	160	<0.1	0.4	<0.1	132	2.06	0.272	2	5	1.01	42	0.122	2	1.46	0.061	0.14	0.1	0.01	6	<0.1	0.05	4	<0.5
659747	130.45	133.50	0.7	31.6	1.6	50	<0.1	5.7	16.1	575	3.5	4.2	0.3	3.1	0.4	126	<0.1	0.5	<0.1	146	2.3	0.288	2	6	1.07	26	0.141	2	1.3	0.077	0.16	0.2	0.01	6.6	<0.1	0.08	4	<0.5
659749	133.50	136.55	0.5	8.4	1.5	56	<0.1	5.5	19.4	553	3.98	2.5	0.3	2.7	0.4	116	<0.1	0.7	<0.1	152	1.96	0.298	2	6	1.15	32	0.125	2	1.37	0.068	0.14	0.2	0.02	4.5	<0.1	<0.05	5	<0.5

MED Mineral Exploration Database
ALLNORTH CONSULTANTS LIMITED

SAMPLES REPORT

The content of this report was filtered as follows:
project ref #: 08PX0118 AND sample type: CORE

Sample	From	To	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
07-HK-02																																					
659750	136.55	139.60	0.7	77.3	4.1	50	<0.1	4.8	15.9	463	4.26	2.6	0.4	5.6	0.4	125	<0.1	0.3	<0.1	158	1.66	0.273	2	5	0.9	28	0.124	2	1.31	0.071	0.18	0.2	0.01	4	<0.1	0.1	4	<0.5
659751	139.60	142.65	0.5	48.7	2.2	45	<0.1	6.4	17.6	491	4.3	1.9	0.4	5.4	0.5	142	<0.1	0.2	<0.1	174	2.04	0.268	2	12	1.03	24	0.135	2	1.32	0.082	0.16	0.2	0.01	6.9	<0.1	<0.05	5	<0.5
659752	142.65	145.69	0.5	124.6	1	40	<0.1	6.1	16.3	465	4.37	1.6	0.4	4.7	0.4	142	<0.1	0.2	<0.1	168	1.97	0.268	2	10	0.95	24	0.124	2	1.22	0.076	0.14	0.2	0.06	6.6	<0.1	<0.05	4	<0.5
659753	145.69	148.74	0.5	172	1	31	<0.1	5.2	13.4	397	3.92	1.5	0.4	1.8	0.5	134	<0.1	0.2	<0.1	156	1.84	0.285	2	11	0.71	136	0.121	2	1.18	0.084	0.18	0.1	0.03	5.6	<0.1	<0.05	4	<0.5
659754	148.74	151.79	1.2	157.4	1.4	48	<0.1	7.7	21.5	719	4.75	1.5	0.5	2.5	0.5	128	<0.1	0.3	<0.1	173	3.6	0.254	3	12	1.19	66	0.122	2	1.44	0.059	0.21	0.1	0.02	11.5	<0.1	0.16	5	<0.5
659756	151.79	154.84	1.2	121.9	1.4	55	<0.1	5.8	19.2	550	4.25	1.3	0.4	3.7	0.5	160	<0.1	0.2	<0.1	163	2.25	0.282	3	6	1.07	24	0.121	1	1.53	0.057	0.16	0.1	0.02	6.7	<0.1	0.06	5	<0.5

48 Assays reported for 07-HK-02

ACME ANALYTICAL LABORATORIES LTD.
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Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Submitted By:	David Blann
Receiving Lab:	Acme Analytical Laboratories (Vancouver) Ltd.
Received:	May 16, 2008
Report Date:	May 22, 2008
Page:	1 of 5

CERTIFICATE OF ANALYSIS VAN08005905.1

CLIENT JOB INFORMATION

Project:	HAWK/HEN
Shipment ID:	08-PX-0118
P.O. Number	08-PX-0118
Number of Samples:	101

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
DISP-RJT	Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	92	Crush split and pulverize drill core to 150mesh		
1DX	101	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed

ADDITIONAL COMMENTS

Invoice To: Happy Creek Minerals Ltd.
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
Raymond Chan

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Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: HAWK/HEN
Report Date: May 22, 2008

CERTIFICATE OF ANALYSIS VAN08005905.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
659701	Drill Core	4.15	0.8	80.9	1.3	60	<0.1	4.9	16.2	508	2.82	6.7	0.4	4.7	0.6	59	<0.1	1.0	<0.1	115	1.63
659702	Drill Core	4.52	2.4	1832	1.5	61	1.1	3.8	19.2	699	3.19	5.4	0.3	229.9	0.5	103	<0.1	0.8	0.6	119	2.01
659703	Drill Core	4.62	0.4	497.7	1.3	53	0.5	4.8	17.7	677	3.57	3.4	0.3	79.8	0.4	91	<0.1	0.4	0.3	136	2.61
659704	Drill Core	7.27	0.4	460.0	0.9	41	0.4	5.0	14.8	438	2.92	3.7	0.3	93.2	0.4	74	<0.1	0.3	0.2	121	1.59
659705	Rock Pulp	0.11	180.8	2566	52.5	293	2.7	9.4	21.2	204	3.21	29.0	6.6	228.6	12.3	46	3.0	7.8	4.7	40	0.89
659706	Drill Core	8.13	0.4	434.5	1.2	53	0.2	6.0	18.1	482	2.78	5.0	0.3	9.4	0.4	100	<0.1	0.7	<0.1	109	1.60
659707	Drill Core	7.68	0.5	175.9	0.8	39	0.1	4.0	13.2	376	2.82	2.0	0.3	5.1	0.4	100	<0.1	0.2	<0.1	109	1.52
659708	Drill Core	8.82	0.4	131.6	1.1	37	<0.1	4.7	13.0	357	3.00	3.6	0.3	3.1	0.4	94	<0.1	0.6	<0.1	114	1.62
659709	Drill Core	9.43	0.4	66.0	1.0	42	<0.1	4.7	15.1	387	3.56	2.0	0.3	7.8	0.4	80	<0.1	0.2	<0.1	131	1.64
659710	Drill Core	4.28	0.5	165.3	1.3	41	<0.1	5.7	15.8	478	4.14	4.0	0.3	9.1	0.5	80	<0.1	0.6	<0.1	160	2.02
659711	Drill Core	3.65	0.5	133.2	1.2	41	<0.1	5.4	15.7	472	4.07	2.9	0.3	6.8	0.4	75	<0.1	0.4	<0.1	156	1.89
659712	Drill Core	8.08	0.4	85.2	0.9	34	<0.1	4.0	13.3	439	3.58	1.8	0.3	6.9	0.4	86	<0.1	0.2	<0.1	144	1.87
659713	Drill Core	8.63	0.4	1178	0.9	33	0.4	4.3	12.5	329	3.53	3.7	0.3	8.8	0.4	95	<0.1	0.4	<0.1	132	1.44
659714	Drill Core	7.60	0.5	116.5	0.9	37	<0.1	4.8	14.3	353	4.11	2.5	0.3	4.6	0.4	89	<0.1	0.3	<0.1	150	1.51
659715	Drill Core	9.17	0.3	49.6	0.3	37	<0.1	5.2	14.5	329	4.04	2.7	0.3	3.4	0.4	89	<0.1	0.4	<0.1	143	1.40
659716	Drill Core	9.16	0.3	183.8	0.2	36	<0.1	4.8	14.0	359	3.67	1.1	0.3	5.2	0.5	106	<0.1	0.1	<0.1	135	1.62
659717	Drill Core	8.08	0.4	68.6	0.4	41	<0.1	5.7	16.2	446	3.89	2.6	0.3	4.7	0.4	94	<0.1	0.3	<0.1	141	1.63
659718	Rock Pulp	0.12	4.3	38.0	1.6	42	<0.1	21.4	8.7	494	3.02	4.2	0.3	4.1	1.4	39	0.1	0.6	<0.1	55	0.78
659719	Drill Core	8.82	0.4	132.0	<0.1	44	<0.1	5.1	16.8	440	3.50	0.9	0.3	10.9	0.4	95	<0.1	0.1	<0.1	123	1.64
659720	Drill Core	9.42	0.3	47.4	0.3	41	<0.1	4.9	15.4	400	3.41	2.1	0.3	4.4	0.4	104	<0.1	0.2	<0.1	124	1.74
659721	Drill Core	8.22	1.0	69.2	0.2	42	<0.1	4.8	15.3	440	3.27	1.1	0.2	6.8	0.3	84	<0.1	0.1	<0.1	121	1.54
659722	Drill Core	8.13	0.4	59.6	0.2	34	<0.1	5.9	13.5	369	2.53	1.7	0.2	1.7	0.3	84	<0.1	0.2	<0.1	96	1.50
659723	Drill Core	8.15	0.2	36.2	<0.1	34	<0.1	4.8	13.5	378	2.92	0.6	0.2	7.5	0.3	71	<0.1	0.1	<0.1	106	1.37
659724	Drill Core	9.24	0.3	101.6	0.1	41	<0.1	5.1	14.3	403	3.44	1.4	0.3	8.0	0.5	89	<0.1	0.2	<0.1	127	1.48
659725	Rock Pulp	0.11	189.3	2592	51.1	292	2.4	9.3	20.7	200	3.09	28.4	6.6	255.9	12.7	46	2.9	7.9	4.6	39	0.89
659726	Drill Core	8.27	0.3	70.8	0.2	43	<0.1	5.4	16.1	403	3.98	0.7	0.3	2.9	0.5	97	<0.1	0.1	<0.1	138	1.47
659727	Drill Core	8.51	0.3	109.5	0.4	43	<0.1	5.7	15.8	461	3.01	1.0	0.2	8.4	0.4	108	<0.1	0.2	<0.1	116	1.88
659728	Drill Core	7.75	0.3	105.7	0.1	41	<0.1	5.2	15.9	408	3.71	1.1	0.3	4.8	0.4	87	<0.1	0.1	<0.1	130	1.67
659729	Drill Core	9.24	0.3	57.9	0.1	33	<0.1	4.0	12.3	319	2.62	1.7	0.3	1.7	0.4	106	<0.1	0.1	<0.1	98	1.53
659730	Drill Core	7.44	0.3	56.0	<0.1	43	<0.1	4.5	15.0	412	3.44	1.3	0.3	4.3	0.5	120	<0.1	0.2	<0.1	129	1.89

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Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: HAWK/HEN
Report Date: May 22, 2008

CERTIFICATE OF ANALYSIS VAN08005905.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
659701	Drill Core	0.244	2	6	1.16	31	0.106	1	1.20	0.045	0.20	0.2	0.09	3.9	<0.1	<0.05	5	<0.5
659702	Drill Core	0.305	3	4	1.20	41	0.102	1	1.55	0.053	0.25	0.2	0.66	4.3	<0.1	0.05	6	<0.5
659703	Drill Core	0.290	2	9	1.20	30	0.104	2	1.36	0.050	0.12	0.2	0.18	4.8	<0.1	<0.05	5	<0.5
659704	Drill Core	0.266	2	11	0.93	40	0.110	<1	0.96	0.054	0.13	0.2	0.14	4.3	<0.1	<0.05	4	<0.5
659705	Rock Pulp	0.060	20	65	0.62	62	0.043	2	1.13	0.028	0.49	3.4	0.07	4.3	0.4	1.95	4	3.1
659706	Drill Core	0.278	2	6	1.24	21	0.126	<1	1.15	0.051	0.11	0.3	0.07	3.6	<0.1	<0.05	4	<0.5
659707	Drill Core	0.266	2	6	0.79	21	0.108	1	0.92	0.062	0.12	0.2	0.02	3.5	<0.1	<0.05	4	<0.5
659708	Drill Core	0.285	2	5	0.75	22	0.111	1	0.97	0.054	0.11	0.1	0.05	3.4	<0.1	<0.05	4	<0.5
659709	Drill Core	0.260	2	6	0.81	20	0.107	2	1.00	0.058	0.12	0.1	0.02	3.7	<0.1	<0.05	4	<0.5
659710	Drill Core	0.264	2	7	0.89	26	0.104	2	1.20	0.067	0.13	0.2	0.06	4.9	<0.1	<0.05	4	<0.5
659711	Drill Core	0.251	2	6	0.97	23	0.099	1	1.26	0.065	0.12	0.1	0.04	4.7	<0.1	<0.05	5	<0.5
659712	Drill Core	0.261	2	6	0.79	22	0.103	1	1.11	0.068	0.12	0.2	0.02	4.7	<0.1	<0.05	4	<0.5
659713	Drill Core	0.256	2	5	0.59	21	0.102	1	0.75	0.053	0.13	0.2	0.04	3.2	<0.1	<0.05	3	<0.5
659714	Drill Core	0.264	2	8	0.64	25	0.097	<1	0.90	0.057	0.13	0.1	0.01	3.3	<0.1	<0.05	4	<0.5
659715	Drill Core	0.276	2	8	0.58	22	0.116	1	0.86	0.050	0.12	<0.1	0.04	2.8	<0.1	<0.05	3	<0.5
659716	Drill Core	0.286	3	8	0.66	20	0.116	1	0.95	0.053	0.10	0.1	0.01	3.4	<0.1	<0.05	4	<0.5
659717	Drill Core	0.263	2	6	0.85	40	0.107	1	1.02	0.068	0.13	0.1	0.04	3.8	<0.1	<0.05	4	<0.5
659718	Rock Pulp	0.067	5	36	0.75	102	0.121	2	1.48	0.079	0.11	0.2	0.01	4.0	<0.1	<0.05	5	<0.5
659719	Drill Core	0.270	2	5	0.88	17	0.095	1	1.06	0.048	0.11	0.2	0.08	3.3	<0.1	<0.05	4	<0.5
659720	Drill Core	0.264	2	4	0.86	19	0.111	1	1.11	0.055	0.10	0.1	0.02	3.6	<0.1	<0.05	4	<0.5
659721	Drill Core	0.263	2	5	0.87	14	0.113	1	0.96	0.047	0.11	0.1	0.02	3.5	<0.1	<0.05	4	<0.5
659722	Drill Core	0.221	2	18	0.90	22	0.124	<1	1.04	0.042	0.20	0.1	0.01	3.6	<0.1	<0.05	3	<0.5
659723	Drill Core	0.242	2	10	0.80	15	0.101	<1	0.87	0.049	0.18	0.2	<0.01	3.1	<0.1	<0.05	3	<0.5
659724	Drill Core	0.272	3	9	0.79	18	0.127	<1	0.90	0.059	0.20	0.1	0.04	3.7	<0.1	<0.05	4	<0.5
659725	Rock Pulp	0.062	21	68	0.61	83	0.045	2	1.24	0.028	0.50	3.4	0.05	4.5	0.4	1.90	4	2.8
659726	Drill Core	0.269	3	9	0.85	14	0.112	1	1.00	0.048	0.13	0.1	<0.01	3.6	<0.1	<0.05	4	<0.5
659727	Drill Core	0.258	2	8	0.96	11	0.115	2	1.15	0.048	0.10	0.1	0.16	4.5	<0.1	<0.05	4	<0.5
659728	Drill Core	0.257	2	8	0.79	12	0.090	1	0.97	0.037	0.09	0.1	0.01	4.1	<0.1	<0.05	4	<0.5
659729	Drill Core	0.257	2	5	0.67	15	0.113	1	0.92	0.045	0.10	<0.1	0.01	3.2	<0.1	<0.05	3	<0.5
659730	Drill Core	0.263	2	6	0.77	12	0.100	1	0.99	0.043	0.09	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5

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Vancouver BC V6E 3X2 Canada

Project: HAWK/HEN
Report Date: May 22, 2008

CERTIFICATE OF ANALYSIS VAN08005905.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
659731	Drill Core	7.99	0.3	104.8	<0.1	33	<0.1	4.3	12.8	307	3.03	1.0	0.3	3.5	0.4	93	<0.1	0.2	<0.1	105	1.31
659732	Drill Core	5.12	0.2	169.8	<0.1	39	<0.1	5.3	16.1	349	3.23	0.9	0.3	3.4	0.4	104	<0.1	0.1	<0.1	113	1.41
659733	Drill Core	4.27	0.3	161.3	<0.1	40	<0.1	5.5	16.6	352	3.35	1.1	0.3	4.7	0.4	102	<0.1	0.1	<0.1	117	1.33
659734	Drill Core	9.24	0.9	88.9	1.7	36	<0.1	4.2	13.9	359	4.08	1.6	0.4	3.4	0.6	115	<0.1	0.1	0.3	145	1.54
659735	Drill Core	9.95	1.0	179.1	1.1	45	<0.1	6.4	16.4	434	4.10	1.5	0.3	3.1	0.5	132	<0.1	0.1	<0.1	148	1.64
659736	Drill Core	8.75	2.2	110.9	0.9	40	<0.1	4.3	14.3	428	3.25	1.6	0.3	2.3	0.5	139	<0.1	0.1	<0.1	110	2.22
659737	Rock Pulp	7.00	1.1	89.9	1.8	48	<0.1	8.1	16.4	655	4.15	5.1	0.2	3.0	0.4	158	<0.1	<0.1	<0.1	143	1.98
659738	Drill Core	8.51	0.2	106.0	1.5	58	<0.1	15.3	20.3	879	3.91	3.8	<0.1	2.4	0.3	148	<0.1	<0.1	<0.1	124	2.56
659739	Drill Core	9.12	0.3	133.8	1.7	57	<0.1	13.5	21.9	876	3.95	5.2	0.1	3.9	0.3	170	<0.1	<0.1	<0.1	130	2.88
659740	Drill Core	0.10	4.4	41.5	2.4	44	<0.1	22.5	9.5	516	3.16	5.1	0.3	4.6	1.4	41	0.1	0.7	<0.1	59	0.84
659741	Drill Core	7.18	0.9	116.6	1.7	64	<0.1	13.1	21.6	847	3.93	3.9	0.1	7.7	0.3	137	<0.1	0.1	<0.1	118	2.34
659742	Drill Core	7.91	0.5	141.4	1.2	57	<0.1	7.8	16.7	699	3.60	1.8	0.3	4.8	0.4	133	<0.1	0.1	<0.1	124	2.49
659743	Drill Core	7.47	0.7	113.5	1.4	37	<0.1	4.1	12.8	390	3.21	2.0	0.4	4.8	0.5	147	<0.1	0.1	<0.1	123	1.78
659744	Drill Core	7.22	0.6	93.4	1.0	39	<0.1	4.9	13.5	448	3.33	2.4	0.3	5.7	0.5	158	<0.1	0.2	<0.1	143	2.02
659745	Drill Core	6.55	0.6	79.3	2.2	45	<0.1	4.7	15.4	436	3.22	4.0	0.3	3.2	0.4	142	<0.1	0.3	<0.1	127	1.78
659746	Drill Core	5.61	0.5	100.5	1.2	46	<0.1	5.1	16.4	484	3.35	4.4	0.3	3.7	0.4	160	<0.1	0.4	<0.1	132	2.06
659747	Drill Core	7.29	0.7	31.6	1.6	50	<0.1	5.7	16.1	575	3.50	4.2	0.3	3.1	0.4	126	<0.1	0.5	<0.1	146	2.30
659748	Rock Pulp	0.11	199.7	2601	53.8	307	3.0	9.6	21.5	209	3.38	30.3	6.8	245.2	13.0	51	3.0	8.6	4.8	43	0.94
659749	Drill Core	6.61	0.5	8.4	1.5	56	<0.1	5.5	19.4	553	3.98	2.5	0.3	2.7	0.4	116	<0.1	0.7	<0.1	152	1.96
659750	Drill Core	8.45	0.7	77.3	4.1	50	<0.1	4.8	15.9	463	4.26	2.6	0.4	5.6	0.4	125	<0.1	0.3	<0.1	158	1.66
659751	Drill Core	7.19	0.5	48.7	2.2	45	<0.1	6.4	17.6	491	4.30	1.9	0.4	5.4	0.5	142	<0.1	0.2	<0.1	174	2.04
659752	Drill Core	6.55	0.5	124.6	1.0	40	<0.1	6.1	16.3	465	4.37	1.6	0.4	4.7	0.4	142	<0.1	0.2	<0.1	168	1.97
659753	Drill Core	7.04	0.5	172.0	1.0	31	<0.1	5.2	13.4	397	3.92	1.5	0.4	1.8	0.5	134	<0.1	0.2	<0.1	156	1.84
659754	Drill Core	4.44	1.2	157.4	1.4	48	<0.1	7.7	21.5	719	4.75	1.5	0.5	2.5	0.5	128	<0.1	0.3	<0.1	173	3.60
659755	Drill Core	9.92	1.4	154.2	1.9	50	<0.1	7.6	20.5	646	4.80	1.4	0.4	2.7	0.6	124	<0.1	0.3	<0.1	180	3.39
659756	Drill Core	9.92	1.2	121.9	1.4	55	<0.1	5.8	19.2	550	4.25	1.3	0.4	3.7	0.5	160	<0.1	0.2	<0.1	163	2.25
659757	Rock Pulp	4.37	0.5	119.8	0.8	37	<0.1	36.9	27.4	499	2.94	4.2	<0.1	1.8	0.2	87	<0.1	<0.1	<0.1	101	1.61
659758	Drill Core	8.31	0.7	278.3	1.2	38	0.1	20.6	22.7	478	4.08	4.0	<0.1	4.3	0.2	151	<0.1	0.2	<0.1	141	1.66
659759	Drill Core	8.55	0.6	122.8	1.1	36	<0.1	31.8	25.4	525	3.26	4.8	<0.1	4.0	0.2	117	<0.1	0.1	<0.1	112	1.87
659760	Drill Core	6.41	0.6	261.2	0.9	40	0.1	26.5	23.9	577	4.66	3.7	<0.1	4.3	0.2	145	<0.1	0.2	<0.1	164	2.43

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Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: HAWK/HEN
Report Date: May 22, 2008

CERTIFICATE OF ANALYSIS VAN08005905.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
659731	Drill Core	0.248	2	6	0.62	16	0.109	1	0.86	0.041	0.12	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5
659732	Drill Core	0.264	2	7	0.76	15	0.111	1	0.94	0.039	0.12	<0.1	<0.01	3.2	<0.1	<0.05	3	<0.5
659733	Drill Core	0.253	2	7	0.78	17	0.109	1	0.95	0.041	0.13	<0.1	0.01	2.9	<0.1	<0.05	3	<0.5
659734	Drill Core	0.256	2	9	0.63	25	0.117	2	1.01	0.076	0.17	0.3	0.01	3.5	<0.1	<0.05	3	<0.5
659735	Drill Core	0.269	2	9	0.82	29	0.133	2	1.18	0.079	0.21	0.2	0.01	4.0	<0.1	<0.05	4	<0.5
659736	Drill Core	0.277	2	7	0.83	21	0.108	2	1.15	0.054	0.14	0.2	<0.01	4.0	<0.1	<0.05	4	<0.5
659737	Rock Pulp	0.221	3	13	1.10	234	0.126	2	1.57	0.102	0.15	0.1	0.01	5.0	<0.1	0.08	5	<0.5
659738	Drill Core	0.151	3	28	1.70	57	0.121	1	2.18	0.124	0.15	<0.1	<0.01	6.4	<0.1	0.07	7	<0.5
659739	Drill Core	0.154	3	22	1.59	70	0.133	1	2.19	0.165	0.17	<0.1	<0.01	7.8	<0.1	0.11	7	<0.5
659740	Drill Core	0.071	5	39	0.78	102	0.127	2	1.54	0.098	0.12	0.2	0.03	4.3	<0.1	<0.05	5	<0.5
659741	Drill Core	0.153	2	22	1.60	48	0.114	1	2.10	0.118	0.13	<0.1	0.01	7.4	<0.1	0.14	7	<0.5
659742	Drill Core	0.228	2	11	1.14	131	0.129	<1	1.60	0.085	0.14	<0.1	<0.01	5.3	<0.1	0.11	5	<0.5
659743	Drill Core	0.254	2	5	0.74	24	0.125	1	1.10	0.070	0.13	0.1	0.02	4.5	<0.1	<0.05	4	<0.5
659744	Drill Core	0.274	2	8	0.86	22	0.140	1	1.19	0.072	0.13	0.1	<0.01	5.5	<0.1	<0.05	4	<0.5
659745	Drill Core	0.280	2	5	0.95	25	0.123	1	1.31	0.058	0.12	0.1	0.01	5.5	<0.1	<0.05	4	<0.5
659746	Drill Core	0.272	2	5	1.01	42	0.122	2	1.46	0.061	0.14	0.1	0.01	6.0	<0.1	0.05	4	<0.5
659747	Drill Core	0.288	2	6	1.07	26	0.141	2	1.30	0.077	0.16	0.2	0.01	6.6	<0.1	0.08	4	<0.5
659748	Rock Pulp	0.065	23	73	0.66	87	0.045	2	1.32	0.031	0.54	3.8	0.06	4.9	0.4	2.01	4	3.5
659749	Drill Core	0.298	2	6	1.15	32	0.125	2	1.37	0.068	0.14	0.2	0.02	4.5	<0.1	<0.05	5	<0.5
659750	Drill Core	0.273	2	5	0.90	28	0.124	2	1.31	0.071	0.18	0.2	0.01	4.0	<0.1	0.10	4	<0.5
659751	Drill Core	0.268	2	12	1.03	24	0.135	2	1.32	0.082	0.16	0.2	0.01	6.9	<0.1	<0.05	5	<0.5
659752	Drill Core	0.268	2	10	0.95	24	0.124	2	1.22	0.076	0.14	0.2	0.06	6.6	<0.1	<0.05	4	<0.5
659753	Drill Core	0.285	2	11	0.71	136	0.121	2	1.18	0.084	0.18	0.1	0.03	5.6	<0.1	<0.05	4	<0.5
659754	Drill Core	0.254	3	12	1.19	66	0.122	2	1.44	0.059	0.21	0.1	0.02	11.5	<0.1	0.16	5	<0.5
659755	Drill Core	0.255	3	12	1.20	55	0.118	2	1.49	0.056	0.20	0.1	0.02	11.6	<0.1	0.16	5	<0.5
659756	Drill Core	0.282	3	6	1.07	24	0.121	1	1.53	0.057	0.16	0.1	0.02	6.7	<0.1	0.06	5	<0.5
659757	Rock Pulp	0.236	1	100	2.07	117	0.158	4	1.88	0.074	1.33	<0.1	<0.01	5.4	<0.1	<0.05	4	<0.5
659758	Drill Core	0.204	1	59	1.44	74	0.151	4	1.55	0.061	0.95	0.1	<0.01	4.8	<0.1	<0.05	5	<0.5
659759	Drill Core	0.271	2	94	2.01	125	0.160	3	1.89	0.074	1.28	<0.1	<0.01	5.3	<0.1	<0.05	5	<0.5
659760	Drill Core	0.173	2	72	1.68	76	0.166	5	1.67	0.071	0.87	<0.1	<0.01	6.5	<0.1	<0.05	6	<0.5

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Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: HAWK/HEN
Report Date: May 22, 2008

CERTIFICATE OF ANALYSIS VAN08005905.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
659761	Drill Core	0.11	198.7	2493	52.8	304	2.9	9.7	21.2	209	3.34	30.5	6.7	262.9	12.9	49	2.9	8.3	4.6	42	0.91
659762	Drill Core	5.08	0.5	142.0	0.8	44	<0.1	41.2	28.4	571	4.00	4.9	<0.1	2.7	0.2	115	<0.1	0.2	<0.1	141	2.25
659763	Drill Core	8.16	0.5	45.0	1.9	43	<0.1	59.5	28.1	619	3.68	4.4	<0.1	5.3	0.2	86	<0.1	0.1	<0.1	121	3.18
659764	Drill Core	7.97	0.3	3.3	1.0	43	<0.1	79.6	29.7	592	3.29	3.3	<0.1	1.9	0.1	67	<0.1	<0.1	<0.1	97	3.91
659765	Drill Core	7.72	0.5	84.2	1.9	30	<0.1	39.1	21.9	513	3.09	4.1	<0.1	3.9	0.2	127	<0.1	0.1	<0.1	100	3.50
659766	Drill Core	3.52	0.6	246.2	2.3	43	0.1	26.6	27.9	603	5.33	4.1	<0.1	5.4	0.1	115	<0.1	0.2	<0.1	194	1.79
659767	Drill Core	3.57	0.6	234.2	2.9	45	0.1	26.8	29.0	600	5.44	4.2	<0.1	5.5	0.1	125	<0.1	0.2	<0.1	195	1.91
659768	Drill Core	5.22	0.4	227.1	1.6	45	0.1	26.1	27.5	544	4.76	3.5	<0.1	4.8	<0.1	104	<0.1	0.2	<0.1	177	1.65
659769	Drill Core	6.36	0.6	26.3	1.3	33	<0.1	26.0	20.2	364	2.96	2.8	<0.1	5.4	<0.1	56	<0.1	<0.1	<0.1	96	1.33
659770	Drill Core	8.60	0.4	49.8	0.6	47	<0.1	51.5	26.4	452	3.59	3.4	<0.1	3.1	0.1	59	<0.1	<0.1	<0.1	122	1.29
659771	Drill Core	7.45	0.2	59.9	0.4	56	<0.1	77.9	29.7	541	3.60	2.9	<0.1	2.7	<0.1	39	<0.1	<0.1	<0.1	117	1.13
659772	Drill Core	6.45	0.6	176.6	0.9	29	<0.1	26.1	20.8	428	3.73	3.2	<0.1	4.0	0.1	149	<0.1	0.2	<0.1	110	1.73
659773	Drill Core	5.30	1.0	51.1	1.0	26	<0.1	36.0	17.9	338	3.02	2.4	<0.1	2.2	0.1	66	<0.1	0.2	<0.1	91	1.56
659774	Rock Pulp	0.11	4.4	38.4	2.2	42	<0.1	21.1	8.4	514	3.08	4.4	0.3	3.8	1.3	41	0.1	0.6	<0.1	56	0.79
659775	Drill Core	6.63	2.7	37.7	0.5	26	<0.1	59.5	19.5	450	2.25	1.7	<0.1	1.4	0.2	57	<0.1	<0.1	<0.1	64	3.12
659776	Drill Core	6.51	1.4	25.8	0.7	28	<0.1	57.3	22.7	515	2.64	1.8	<0.1	0.9	0.2	63	<0.1	0.1	<0.1	77	2.52
659777	Rock Pulp	7.21	2.1	140.0	1.7	49	<0.1	82.3	41.3	1291	5.12	3.2	0.1	11.3	0.3	181	0.1	0.2	<0.1	146	7.35
659778	Drill Core	7.75	3.6	216.7	1.9	33	<0.1	41.7	25.3	771	3.61	2.4	0.2	3.3	0.4	144	<0.1	0.1	<0.1	114	5.42
659779	Drill Core	7.04	0.8	40.3	0.4	33	<0.1	66.8	27.5	635	3.15	1.5	0.1	<0.5	0.3	92	<0.1	<0.1	<0.1	85	3.83
659780	Drill Core	7.12	0.6	54.5	1.0	28	<0.1	17.4	18.5	511	3.16	2.5	0.1	0.8	0.2	249	<0.1	0.2	<0.1	106	3.13
659781	Drill Core	0.11	188.6	2538	54.5	297	2.8	9.6	20.6	213	3.32	30.4	6.5	272.0	12.9	50	3.0	8.4	4.7	41	0.91
659782	Drill Core	8.70	0.3	17.8	0.7	41	<0.1	30.7	24.9	478	3.83	2.6	<0.1	1.1	0.1	127	<0.1	0.1	<0.1	124	1.38
659783	Drill Core	7.21	0.4	33.3	1.1	34	<0.1	10.9	19.4	455	3.66	3.1	<0.1	3.7	0.1	151	<0.1	0.2	<0.1	130	1.60
659784	Drill Core	8.70	0.4	28.4	0.9	35	<0.1	22.8	22.1	447	3.54	3.1	<0.1	2.3	<0.1	117	<0.1	0.2	<0.1	112	1.41
659785	Drill Core	8.67	0.4	43.0	0.9	30	<0.1	15.0	21.1	479	3.70	2.9	<0.1	0.7	0.1	146	<0.1	0.2	<0.1	114	2.58
659786	Drill Core	9.30	0.4	58.6	0.8	29	<0.1	13.2	18.4	426	3.38	2.6	<0.1	0.9	<0.1	212	<0.1	0.2	<0.1	110	3.21
659787	Drill Core	9.25	0.4	113.3	1.2	36	<0.1	14.7	22.6	464	3.89	3.1	<0.1	1.9	0.1	104	<0.1	0.1	<0.1	130	1.46
659788	Drill Core	5.14	0.4	13.2	0.6	33	<0.1	33.8	25.9	430	3.50	3.8	<0.1	2.7	0.1	102	<0.1	<0.1	<0.1	111	1.37
659789	Drill Core	4.15	0.4	16.0	0.6	34	<0.1	34.6	25.5	452	3.59	3.8	<0.1	3.6	0.1	106	<0.1	0.1	<0.1	114	1.36
659790	Drill Core	9.62	0.3	42.6	0.8	38	<0.1	19.5	23.8	455	3.97	3.4	<0.1	8.6	<0.1	92	<0.1	0.1	<0.1	120	1.40

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Project: HAWK/HEN
Report Date: May 22, 2008

CERTIFICATE OF ANALYSIS VAN08005905.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
659761	Drill Core	0.062	23	75	0.65	93	0.046	2	1.37	0.032	0.61	3.6	0.07	5.0	0.4	1.97	4	3.6
659762	Drill Core	0.211	2	113	2.20	111	0.167	2	1.97	0.061	1.37	<0.1	<0.01	5.6	<0.1	<0.05	6	<0.5
659763	Drill Core	0.185	2	196	2.54	136	0.167	1	2.11	0.059	1.48	0.1	<0.01	6.2	<0.1	<0.05	6	<0.5
659764	Drill Core	0.117	1	290	2.70	205	0.151	1	2.04	0.077	1.39	<0.1	<0.01	6.9	<0.1	<0.05	5	<0.5
659765	Drill Core	0.154	1	187	2.03	151	0.142	3	1.63	0.117	0.89	<0.1	<0.01	7.8	<0.1	<0.05	5	<0.5
659766	Drill Core	0.143	1	65	1.63	103	0.190	3	1.57	0.079	0.94	0.1	0.02	5.5	<0.1	<0.05	6	0.7
659767	Drill Core	0.156	1	65	1.67	113	0.188	3	1.56	0.085	0.95	0.1	0.01	5.6	<0.1	<0.05	6	0.5
659768	Drill Core	0.150	<1	66	1.69	95	0.190	3	1.66	0.082	1.14	<0.1	<0.01	5.6	<0.1	<0.05	6	<0.5
659769	Drill Core	0.136	<1	97	1.51	58	0.138	2	1.32	0.058	1.00	<0.1	<0.01	4.4	<0.1	<0.05	4	<0.5
659770	Drill Core	0.145	<1	173	2.11	177	0.152	2	1.76	0.081	1.46	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5
659771	Drill Core	0.109	<1	291	2.82	232	0.150	1	2.22	0.049	1.85	<0.1	<0.01	2.7	<0.1	<0.05	6	<0.5
659772	Drill Core	0.148	<1	83	1.42	77	0.146	3	1.32	0.085	0.59	0.2	0.01	4.3	<0.1	<0.05	4	<0.5
659773	Drill Core	0.140	<1	153	1.57	119	0.128	2	1.20	0.083	0.70	0.1	<0.01	4.7	<0.1	<0.05	3	<0.5
659774	Rock Pulp	0.071	4	36	0.76	99	0.110	2	1.49	0.086	0.12	0.2	0.03	3.9	<0.1	<0.05	5	<0.5
659775	Drill Core	0.138	2	302	2.41	102	0.107	2	1.70	0.065	0.76	<0.1	<0.01	5.3	<0.1	<0.05	4	<0.5
659776	Drill Core	0.157	1	210	2.30	194	0.127	2	1.83	0.110	1.02	<0.1	<0.01	6.4	<0.1	<0.05	4	<0.5
659777	Rock Pulp	0.173	4	291	4.06	164	0.059	1	2.79	0.017	0.86	<0.1	0.02	17.6	<0.1	0.24	7	<0.5
659778	Drill Core	0.234	5	163	2.14	108	0.101	1	1.92	0.053	0.66	0.1	<0.01	7.7	<0.1	0.06	6	<0.5
659779	Drill Core	0.171	3	296	2.78	160	0.127	<1	2.19	0.071	0.95	<0.1	<0.01	6.2	<0.1	<0.05	6	<0.5
659780	Drill Core	0.167	2	101	1.43	80	0.145	4	1.57	0.084	0.73	0.1	0.01	6.5	<0.1	<0.05	5	<0.5
659781	Drill Core	0.066	22	69	0.65	80	0.043	2	1.26	0.031	0.58	3.8	0.07	4.7	0.4	2.00	4	3.6
659782	Drill Core	0.128	<1	91	1.74	71	0.145	1	1.55	0.068	1.15	<0.1	<0.01	4.3	<0.1	<0.05	4	<0.5
659783	Drill Core	0.141	<1	25	1.21	39	0.162	3	1.36	0.079	0.70	0.1	<0.01	4.2	<0.1	<0.05	4	<0.5
659784	Drill Core	0.141	<1	68	1.50	53	0.165	3	1.45	0.087	0.89	0.1	<0.01	4.5	<0.1	0.07	4	<0.5
659785	Drill Core	0.142	<1	41	1.36	37	0.193	3	1.42	0.076	0.82	0.1	<0.01	4.8	<0.1	0.80	4	<0.5
659786	Drill Core	0.126	<1	34	1.14	47	0.163	2	1.24	0.059	0.77	<0.1	<0.01	2.9	<0.1	1.26	4	<0.5
659787	Drill Core	0.190	<1	33	1.48	64	0.180	3	1.55	0.081	1.06	0.1	<0.01	4.4	<0.1	0.13	4	<0.5
659788	Drill Core	0.145	<1	74	1.74	61	0.171	2	1.55	0.057	1.25	<0.1	<0.01	3.6	<0.1	0.17	4	<0.5
659789	Drill Core	0.146	<1	76	1.79	67	0.169	2	1.59	0.068	1.29	0.1	<0.01	4.0	<0.1	0.17	5	<0.5
659790	Drill Core	0.139	<1	55	1.47	48	0.164	3	1.39	0.061	1.02	0.1	<0.01	3.0	<0.1	0.44	4	0.5

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www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: HAWK/HEN
Report Date: May 22, 2008

CERTIFICATE OF ANALYSIS VAN08005905.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
659791	Drill Core	7.67	0.4	34.9	1.1	40	<0.1	22.7	24.5	489	4.43	3.2	<0.1	4.9	0.1	120	<0.1	0.2	<0.1	144	1.78
659792	Drill Core	8.20	0.4	6.6	0.8	43	<0.1	46.0	24.7	427	3.45	3.0	<0.1	<0.5	0.1	70	<0.1	0.1	<0.1	107	1.52
659793	Drill Core	9.73	0.4	7.4	0.8	42	<0.1	43.7	24.3	397	3.42	3.1	<0.1	<0.5	0.1	70	<0.1	0.1	<0.1	100	1.17
659794	Drill Core	8.18	0.3	34.9	0.7	34	<0.1	48.5	23.2	460	2.88	2.8	0.1	2.9	0.2	70	<0.1	<0.1	<0.1	83	2.47
659795	Drill Core	9.60	0.5	130.4	1.1	28	<0.1	25.3	18.2	383	3.43	3.1	0.1	2.1	0.1	121	<0.1	0.2	<0.1	111	1.59
659796	Rock Pulp	0.12	4.6	40.5	2.6	46	<0.1	22.8	9.0	534	3.12	5.0	0.3	3.7	1.5	44	0.1	0.7	<0.1	57	0.85
659797	Drill Core	8.50	0.4	129.5	0.8	31	<0.1	18.7	19.1	389	3.41	3.2	<0.1	1.1	0.1	91	<0.1	0.2	<0.1	106	1.16
659798	Drill Core	4.94	0.3	42.1	0.7	27	<0.1	28.2	18.9	346	3.16	3.7	<0.1	4.1	<0.1	69	<0.1	<0.1	<0.1	94	1.35
659799	Drill Core	7.38	0.4	32.6	1.1	32	<0.1	23.8	24.5	453	3.88	4.6	<0.1	1.0	0.1	70	<0.1	<0.1	<0.1	115	1.32
659800	Drill Core	7.50	0.3	22.5	0.5	28	<0.1	55.8	24.6	423	2.80	3.4	<0.1	<0.5	<0.1	66	<0.1	<0.1	<0.1	85	1.62
659801	Drill Core	8.33	0.5	22.4	0.8	23	<0.1	50.7	21.2	415	3.61	3.4	<0.1	<0.5	0.1	118	<0.1	0.1	<0.1	106	2.30

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Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: HAWK/HEN
Report Date: May 22, 2008

CERTIFICATE OF ANALYSIS VAN08005905.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
659791	Drill Core	0.140	<1	71	1.56	56	0.180	3	1.55	0.061	1.08	0.1	<0.01	3.3	<0.1	0.52	4	0.5
659792	Drill Core	0.148	<1	169	1.93	96	0.157	2	1.66	0.079	1.31	<0.1	<0.01	4.3	<0.1	<0.05	4	<0.5
659793	Drill Core	0.137	<1	144	1.80	77	0.146	2	1.53	0.062	1.26	<0.1	<0.01	3.9	<0.1	<0.05	4	<0.5
659794	Drill Core	0.152	2	234	2.42	110	0.126	1	1.78	0.062	1.06	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5
659795	Drill Core	0.131	<1	87	1.25	55	0.170	3	1.33	0.067	0.75	0.1	<0.01	3.6	<0.1	0.09	4	<0.5
659796	Rock Pulp	0.077	5	39	0.78	109	0.122	2	1.56	0.102	0.13	0.2	0.03	4.3	<0.1	<0.05	5	<0.5
659797	Drill Core	0.141	<1	59	1.28	58	0.153	3	1.26	0.072	0.89	0.1	<0.01	3.1	<0.1	<0.05	4	<0.5
659798	Drill Core	0.157	<1	99	1.41	68	0.129	2	1.24	0.086	0.89	<0.1	<0.01	4.4	<0.1	<0.05	3	0.7
659799	Drill Core	0.190	<1	83	1.81	62	0.169	2	1.66	0.082	1.35	0.1	<0.01	4.7	<0.1	<0.05	5	0.7
659800	Drill Core	0.136	<1	156	2.04	142	0.157	2	1.71	0.098	1.14	<0.1	<0.01	5.3	<0.1	0.23	4	<0.5
659801	Drill Core	0.124	<1	124	1.79	83	0.162	2	1.50	0.072	1.06	<0.1	<0.01	4.3	<0.1	0.75	4	<0.5

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Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: HAWK/HEN
Report Date: May 22, 2008

QUALITY CONTROL REPORT VAN08005905.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
659706	Drill Core	8.13	0.4	434.5	1.2	53	0.2	6.0	18.1	482	2.78	5.0	0.3	9.4	0.4	100	<0.1	0.7	<0.1	109	1.60
REP 659706	QC		0.4	433.0	1.2	53	0.2	6.0	18.0	498	2.84	5.2	0.3	11.3	0.4	101	<0.1	0.8	<0.1	115	1.57
659746	Drill Core	5.61	0.5	100.5	1.2	46	<0.1	5.1	16.4	484	3.35	4.4	0.3	3.7	0.4	160	<0.1	0.4	<0.1	132	2.06
REP 659746	QC		0.5	98.7	1.3	47	<0.1	4.9	16.1	491	3.38	4.5	0.3	3.7	0.4	168	<0.1	0.4	<0.1	134	2.09
659774	Rock Pulp	0.11	4.4	38.4	2.2	42	<0.1	21.1	8.4	514	3.08	4.4	0.3	3.8	1.3	41	0.1	0.6	<0.1	56	0.79
REP 659774	QC		4.6	38.8	2.3	44	<0.1	20.6	8.6	502	3.10	5.0	0.3	4.5	1.5	43	0.1	0.6	<0.1	57	0.82
Core Reject Duplicates																					
659710	Drill Core	4.28	0.5	165.3	1.3	41	<0.1	5.7	15.8	478	4.14	4.0	0.3	9.1	0.5	80	<0.1	0.6	<0.1	160	2.02
DUP 659710	QC		0.5	147.4	1.0	42	<0.1	5.1	16.2	474	4.10	2.3	0.3	10.3	0.4	72	<0.1	0.2	<0.1	157	1.94
659745	Drill Core	6.55	0.6	79.3	2.2	45	<0.1	4.7	15.4	436	3.22	4.0	0.3	3.2	0.4	142	<0.1	0.3	<0.1	127	1.78
DUP 659745	QC		0.6	74.5	0.9	43	<0.1	4.9	14.3	426	3.13	3.7	0.3	3.3	0.4	139	<0.1	0.2	<0.1	123	1.75
659780	Drill Core	7.12	0.6	54.5	1.0	28	<0.1	17.4	18.5	511	3.16	2.5	0.1	0.8	0.2	249	<0.1	0.2	<0.1	106	3.13
DUP 659780	QC		0.7	54.6	1.0	28	<0.1	17.2	19.0	515	3.24	2.7	0.1	0.6	0.2	245	<0.1	0.2	<0.1	111	3.16
Reference Materials																					
STD DS7	Standard		21.0	111.7	68.5	412	0.9	54.9	10.0	607	2.39	59.6	5.6	63.9	5.0	71	7.5	7.0	5.2	84	0.94
STD DS7	Standard		21.4	110.8	66.6	397	0.9	53.9	10.2	625	2.37	60.7	5.4	61.6	4.9	72	7.1	6.8	5.0	83	0.94
STD DS7	Standard		19.5	102.4	65.3	391	0.8	53.7	10.1	598	2.38	58.2	5.2	60.2	4.7	69	7.1	7.1	5.0	82	0.92
STD DS7	Standard		18.1	105.2	66.7	402	0.8	53.6	10.2	600	2.35	57.3	5.4	64.3	4.6	60	7.4	6.9	5.2	80	0.87
STD DS7	Standard		20.4	108.6	63.7	393	0.5	54.3	10.2	610	2.32	55.1	5.2	55.5	4.6	66	7.1	6.6	4.8	80	0.91
STD DS7 Expected			20.92	109	70.6	411	0.89	56	9.7	627	2.39	48.2	4.9	70	4.4	68.7	6.38	5.86	4.51	86	0.93
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	2.7	1.5	2.6	42	<0.1	3.3	4.0	448	1.54	3.7	2.3	0.7	3.8	40	<0.1	0.7	0.5	30	0.35
G1	Prep Blank	<0.01	2.9	1.7	2.9	44	<0.1	3.8	4.4	487	1.65	3.9	2.6	0.5	4.3	42	<0.1	0.8	0.6	31	0.36

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Vancouver BC V6E 3X2 Canada

Project: HAWK/HEN
Report Date: May 22, 2008

QUALITY CONTROL REPORT VAN08005905.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																		
659706	Drill Core	0.278	2	6	1.24	21	0.126	<1	1.15	0.051	0.11	0.3	0.07	3.6	<0.1	<0.05	4	<0.5
REP 659706	QC	0.271	2	6	1.21	19	0.133	2	1.15	0.051	0.11	0.3	0.07	3.9	<0.1	<0.05	5	<0.5
659746	Drill Core	0.272	2	5	1.01	42	0.122	2	1.46	0.061	0.14	0.1	0.01	6.0	<0.1	0.05	4	<0.5
REP 659746	QC	0.276	2	5	1.00	42	0.122	2	1.49	0.063	0.15	0.1	0.01	6.5	<0.1	0.05	4	<0.5
659774	Rock Pulp	0.071	4	36	0.76	99	0.110	2	1.49	0.086	0.12	0.2	0.03	3.9	<0.1	<0.05	5	<0.5
REP 659774	QC	0.073	5	37	0.77	108	0.114	2	1.53	0.095	0.12	0.2	0.03	4.1	<0.1	<0.05	5	<0.5
Core Reject Duplicates																		
659710	Drill Core	0.264	2	7	0.89	26	0.104	2	1.20	0.067	0.13	0.2	0.06	4.9	<0.1	<0.05	4	<0.5
DUP 659710	QC	0.272	2	7	0.92	22	0.100	2	1.10	0.057	0.11	0.2	0.02	4.5	<0.1	<0.05	5	<0.5
659745	Drill Core	0.280	2	5	0.95	25	0.123	1	1.31	0.058	0.12	0.1	0.01	5.5	<0.1	<0.05	4	<0.5
DUP 659745	QC	0.277	2	5	0.93	23	0.118	1	1.28	0.058	0.12	0.1	0.01	5.2	<0.1	<0.05	4	<0.5
659780	Drill Core	0.167	2	101	1.43	80	0.145	4	1.57	0.084	0.73	0.1	0.01	6.5	<0.1	<0.05	5	<0.5
DUP 659780	QC	0.162	2	89	1.37	77	0.153	4	1.61	0.101	0.73	0.1	<0.01	6.6	<0.1	<0.05	5	<0.5
Reference Materials																		
STD DS7	Standard	0.090	13	170	1.04	394	0.119	40	0.97	0.078	0.45	3.9	0.20	2.6	4.2	0.19	5	3.6
STD DS7	Standard	0.095	13	169	1.05	388	0.116	40	1.00	0.085	0.48	4.0	0.20	2.6	4.1	0.19	5	3.7
STD DS7	Standard	0.093	12	171	1.05	387	0.116	42	0.98	0.077	0.48	3.9	0.19	2.4	4.1	0.19	4	4.0
STD DS7	Standard	0.090	11	163	1.01	349	0.118	36	0.92	0.068	0.42	3.7	0.20	2.3	4.0	0.19	5	3.1
STD DS7	Standard	0.086	12	168	1.02	377	0.123	37	0.97	0.069	0.42	3.6	0.18	2.4	3.9	0.18	5	3.0
STD DS7 Expected		0.08	12.7	163	1.05	370.3	0.124	38.6	0.959	0.073	0.44	3.8	0.2	2.5	4.19	0.21	4.6	3.5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
Prep Wash																		
G1	Prep Blank	0.079	5	9	0.50	208	0.105	<1	0.80	0.053	0.45	0.5	0.04	1.6	0.4	<0.05	4	<0.5
G1	Prep Blank	0.085	5	10	0.55	221	0.111	<1	0.88	0.057	0.49	0.6	0.05	1.7	0.5	<0.05	4	<0.5

APPENDIX F
QA/QC REPORT

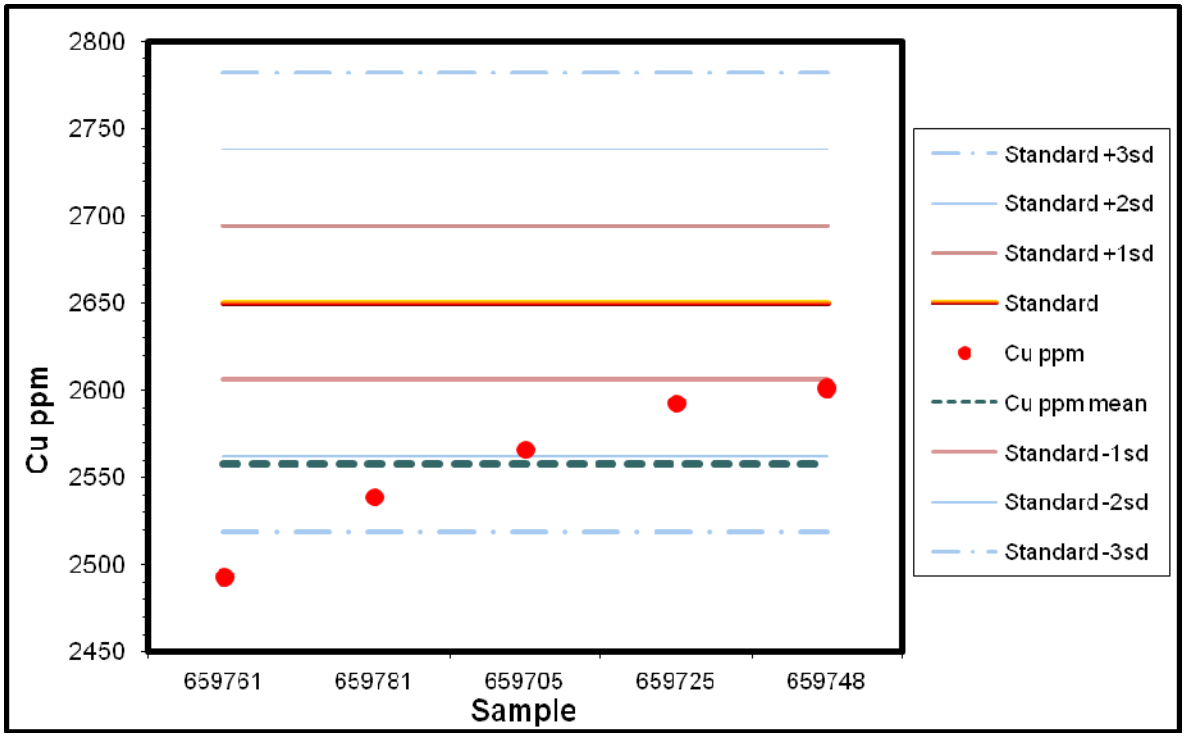
All core samples were selected by site geologists. Each section of core to be sampled was clearly identified and then marked with a centre line and halved using a water-cooled diamond saw. Eighty-eight (88) core samples were labelled, cut and bagged. Thirteen (13) quality control samples (blanks, duplicates and standards) were inserted into the sample stream at regular intervals following a prescribed sequence: included in each batch of twenty core samples are one certified reference standard, one laboratory duplicate, one blank sample comprised of sterile pulp and one duplicate core sample.

All the core samples, collected during the 2008 core re-logging program, were selected, sealed and shipped to Acme Analytical Laboratories in Vancouver, BC. Individual samples were labeled, placed in plastic sample bags, sealed and stored at a secure facility in Forest Grove, BC. Groups of samples were then placed into durable rice bags and secured for shipping. The samples were delivered via carrier to Acme Laboratories in Vancouver, BC. The CDN-CGS-12 Minerals Cu-Au standard was used for quality control of the copper and gold abundances. CDN-BL-3 was the blank standard used for to check null/lower detection limit values. The duplicates inserted into the sample stream tested the precision of the analyses performed.

Cu ppm values of CDN-CGS-12 Standard (2650 ppm Cu)

Standard	Cu ppm
659761	2492.7
659781	2538.4
659705	2565.6
659725	2592.2
659748	2601

Cu ppm Statistics of CDN-CGS-12 Standard (2650 ppm Cu)

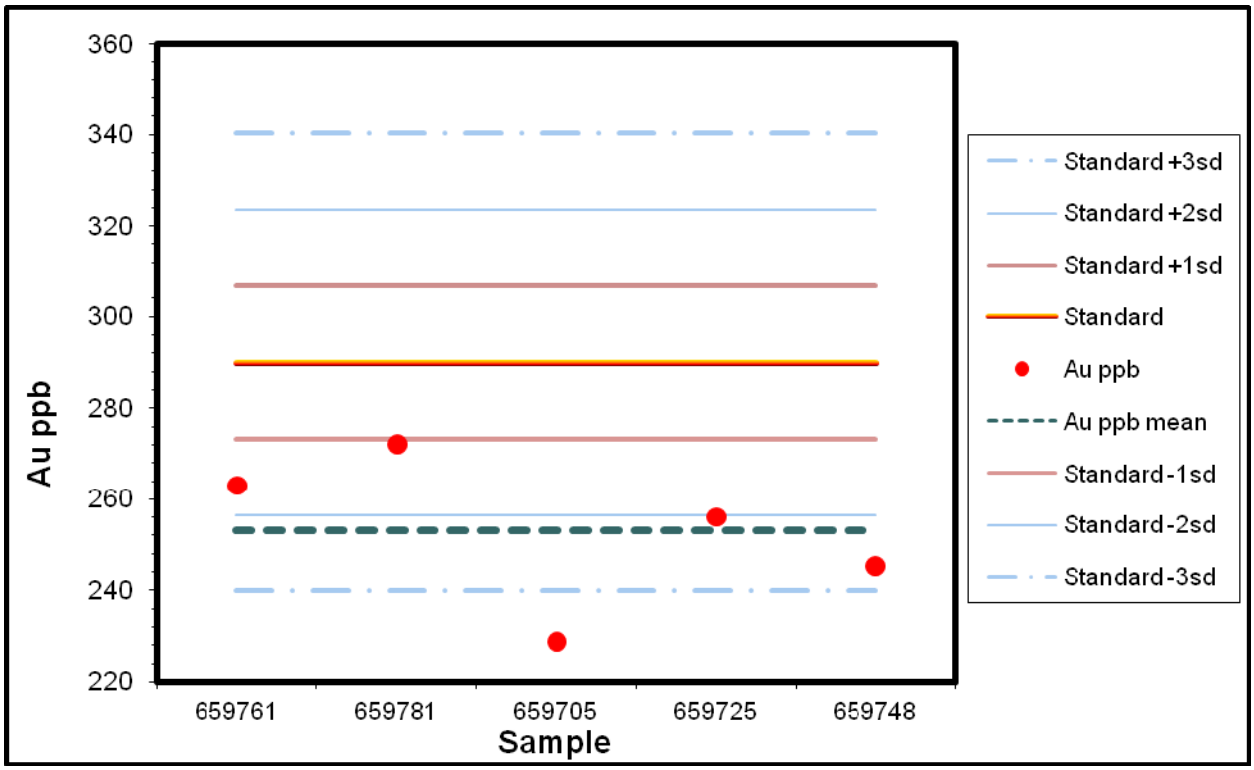


The sample mean Cu ppm results of the CDN-CGS-12 Standard are 92.02 ppm lower than the documented Cu ppm content of the standard. The Cu abundances are generally within 3 standard deviation of the documented standard Cu content, but 1 sample falls below the expected Cu abundance. The small, 92.02 ppm difference in Cu abundances, between the lab and the published values, and the larger standard deviation from the published standard value is not significant but it does imply there was improper or poor digestion of the sample material or a possible degradation of the standard sample material due to long or improper storage.

Au ppb Values of CDN-CGS-12 Standard (290 ppb Au)

Standard	Au ppb
659761	262.9
659781	272
659705	228.6
659725	255.9
659748	245.2

Au ppb Statistics of CDN-CGS-12 Standard (290 ppb Au)

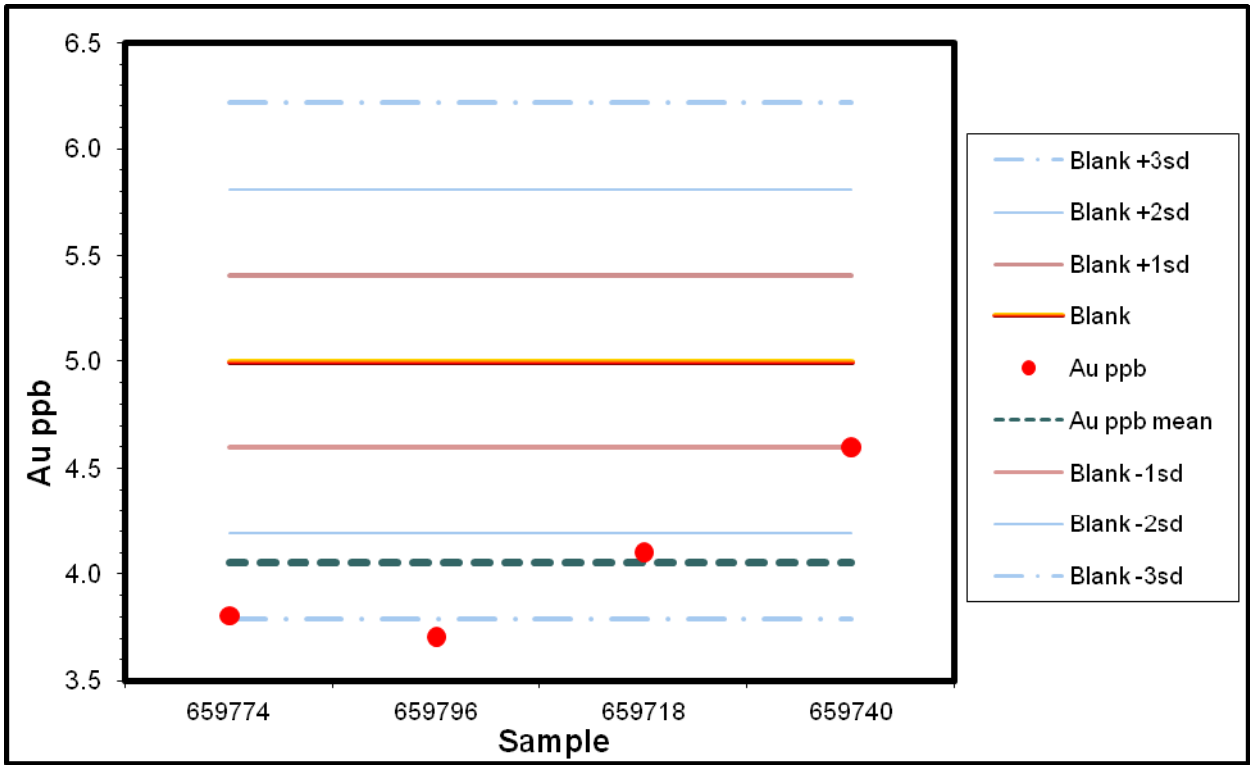


The sample mean Au ppb results of the CDN-CGS-12 Standard are 37 ppb smaller than the documented Au ppb content of the standard. The Au ppb abundances are generally within 2 standard deviation of the documented standard Au content, except one sample that falls below the 3 standard deviation demarkation. The small, 37 ppb difference in Au abundances, between the lab and the published values, and the 2 to 3 standard deviation from the published standard value is not significant but it does reinforce the possibility there was improper or poor digestion of the sample material or a possible degradation of the standard sample material due to long or improper storage.

Au ppb Values of CDN-BL-3 Blank

Sample	Au ppb
659774	3.8
659796	3.7
659718	4.1
659740	4.6

Au ppb Statistics for CDN-BL-3 Blank

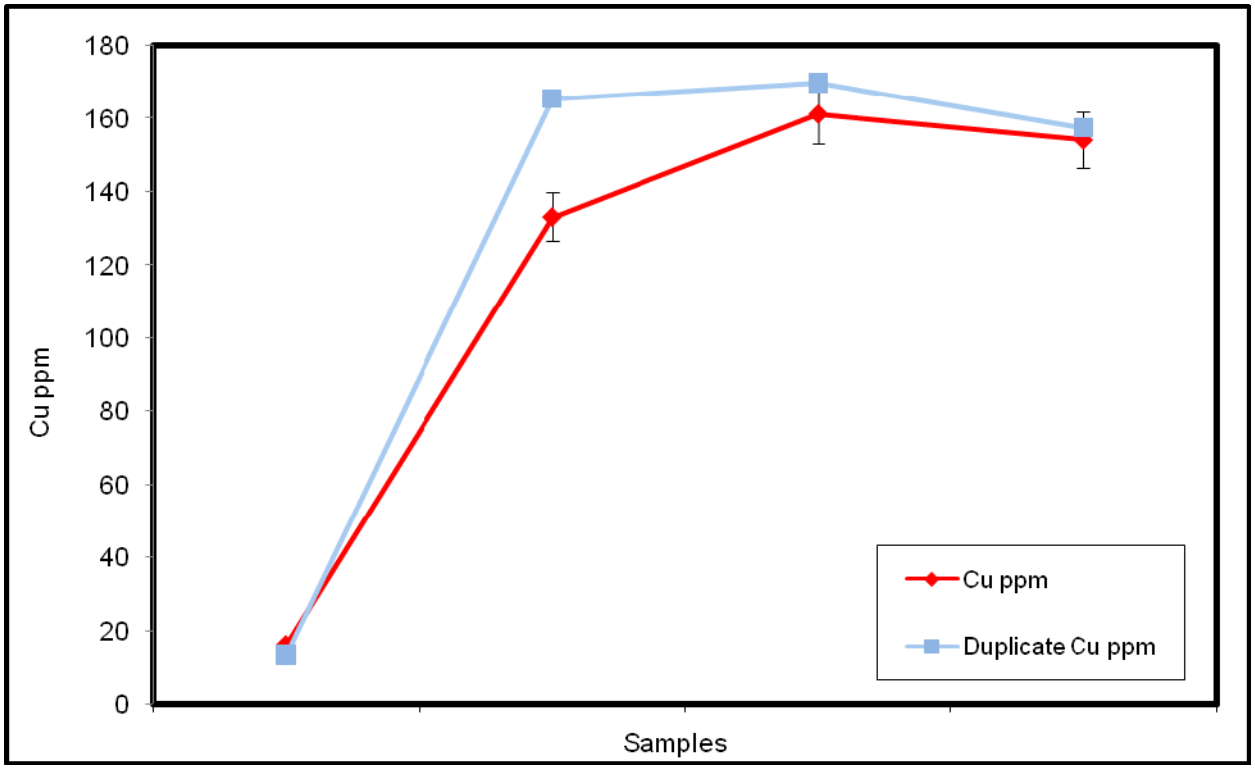


All the Au ppb values are within 3 standard deviation of the average documented abundance for the CDN-BL-3 blank standard of 5 ppb.The acceptable Au value for this blank standard is <10 ppb and all analyzed values fall below this limit. The CDN-BL-3 Au ppb results are consistent (within approximately 1 sd) with respect to each other.

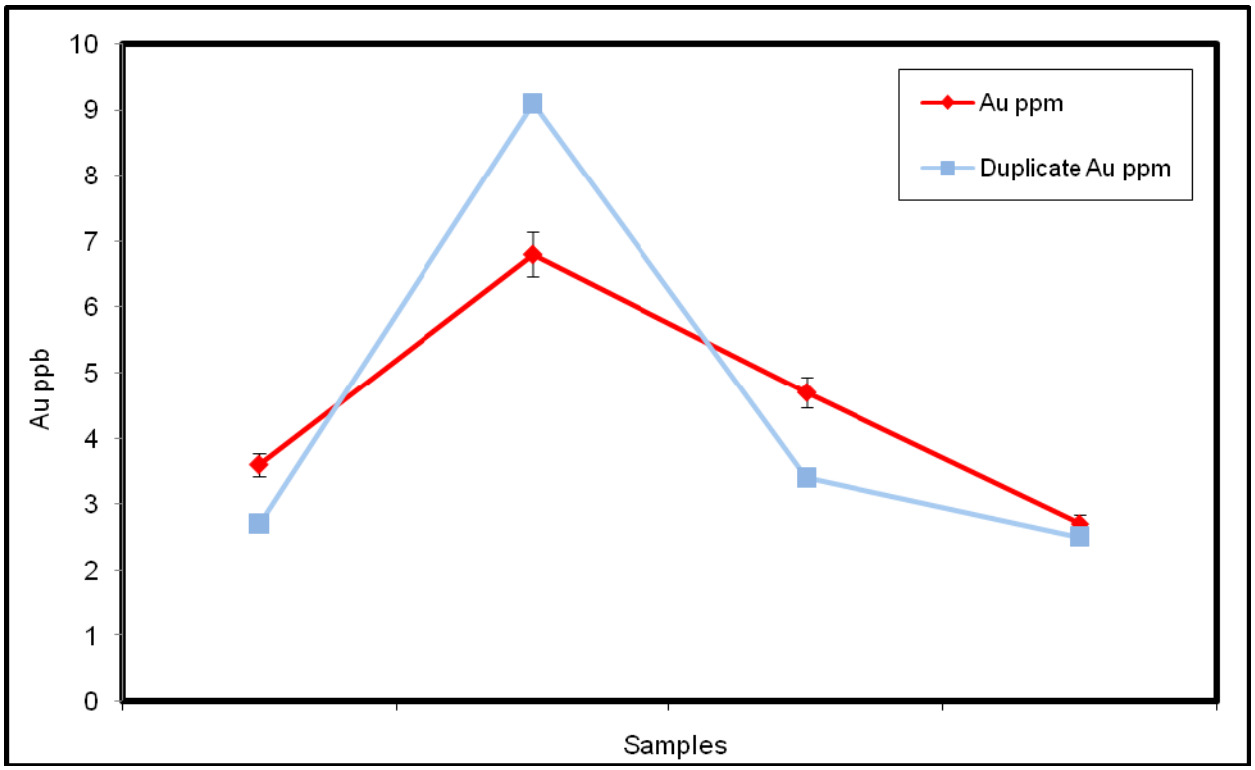
Sample Duplicate Comparisons

DDH Name	Sample	Cu ppm	Au ppb
07-HK-01	659789	16.00	3.6
	659788	13.20	2.7
07-HK-02	659711	133.20	6.8
	659710	165.30	9.1
07-HK-02	659733	161.30	4.7
	659732	169.80	3.4
07-HK-02	659755	154.20	2.7
	659754	157.40	2.5

Duplicate Comparison of Cu ppm with 5% error bars



Duplicate Comparision of Au ppb with 5% error bars



The duplicate abundance comparisons are generally within a 5% error margin for the Cu ppm values. The Au contents for the duplucate samples are generally greater than the 5% error margin. The Cu ppm results are more precise than the Au ppb results: 3 of the 4 duplicates have Au contents greater than the 5% error margin. Errors in duplicating element abundances using acid digestion and ICP-MS analysis usually result from varying degrees of total digestion between sample, sample contamination or the 'nugget' effect where ¼ of the core has a greater mineralised volume percent than the other ¼ core.

In conclusion, the quality analysis/quality control results of the Hawk core samples using the Group 1DX acid digestion and ICP-MS analysis produced varying results. Consistently low element abundances are usually associated with incomplete digestion/fusion or the degradation of the sample material due to the weathering effects of improper storage on the metal compounds. Degradation of the standard material may have occurred within the CDN-CGS-12 standard, since both the Cu and Au abundances were lower than the published values. The Blank standard results were excellent since the variation between sample analyses never varied greater than 1 standard deviation. The duplicate analyses are typically within 5%. A difference between analyses of the same core material is usually a result of a 'nugget' effect within one of the ¼ split core pieces or contamination during sample processing.

A "best before" date, as well as proper reference material storage and care would help to eliminate the possibility of reference material degradation which could result in the lower reference standard abundances. It is recommended that a new batch of CDN-CGS-12 is purchased, stored in a waterproof bin and monitored to ensure humidity is low and temperature is cool within the bin. Reference material envelopes should be checked to ensure there are no punctures and water marks prior to use. Due care in documenting the lithology present within the duplicate samples, and in choosing where to split a duplicate sample, will lessen the possibility of a 'nugget' effect from occurring and affecting the duplicate sample results.

APPENDIX G
2008 FIELD MAPPING NOTES

2008 Hawk Field Mapping Stations and Descriptions

Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKAM001	5749586	643261	Outcrop					Augite Porphyry
HKAM002	5749585	643274	Outcrop					Augite Porphyry
HKAM003	5749692	643270	Outcrop					Andesite
HKAM004	5749699	643372	Outcrop					Augite Porphyry
HKAM005	5749678	642574	Outcrop					Augite Porphyry
HKAM006	5749675	642548	Outcrop					Augite Porphyry
HKAM007	5749722	642475	Outcrop					Augite Porphyry
HKAM008	5749591	642519	Outcrop					Andesite
HKAM009	5749925	643231	Outcrop					Augite Porphyry
HKAM010	5749932	643213	Outcrop					Augite Porphyry
HKAM011	5749970	643189	Outcrop					Augite Porphyry
HKAM012	5749971	643183	Outcrop					Augite Porphyry
HKAM013	5750015	643179	Outcrop					Augite Porphyry
HKAM014	5750073	643128	Outcrop					Augite Porphyry
HKAM015	5750159	643010	Outcrop					Augite Porphyry
HKAM016	5750169	643129	Outcrop					Augite Porphyry
HKAM017	5750087	642598	Outcrop					Augite Porphyry
HKAM018	5750090	642629	Outcrop					Augite Porphyry
HKAM019	5750094	642804	Outcrop					Augite Porphyry
HKAM020	5750112	642823	Float					Augite Porphyry
HKAM021	5751305	642872	Outcrop					Granodiorite
HKAM022	5751344	642984	Outcrop					Augite Porphyry
HKAM023	5751302	643295	Float					Granodiorite
HKAM024	5750643	642685	Float					Granodiorite
HKAM025	5750594	642562	Float					Augite Porphyry
HKAM026	5750553	642513	Float					Augite Porphyry/Andesite Tuff
HKAM027	5750570	642584	Float					Augite Porphyry/Andesite Tuff
HKAM028	5750470	643643	Float					Granodiorite
HKAM029	5748713	643248	Float					Andesite
HKAM030	5748725	643210	Float					Andesite
HKAM031	5748725	643171	Float					Augite Porphyry
HKAM032	5749869	642189	Outcrop					Augite Porphyry
HKJD001	5749396	642528	Outcrop					Phenocrysts 3 to 6 mm 30% of rock mass; non magnetic; no reaction to acid; contact with Tuff unit 5 metres away
HKJD002	5748950	643646	Subcrop					Green mafic mineral make up 50% of rock mass; strong magnetic reaction; visible sulphides; magnesium staining (goethite); epidote; chlorite present; pyroxene 5 metres N from line 4600 N
HKJD003	5748868	643667	Outcrop					Disseminated sulphides; magnetic; chloritic; hornblende alteration; epidote; sericite
HKJD004	5748751	643570	Outcrop					30% pyroxene up to 5 mm; pinkish calcite stringers; K feldspar 2% veinlets; locally forms stockwork; weakly magnetic
HKJD005	5747820	641427	Outcrop					Nonmagnetic; no reaction with acid (little to no carbonates); no visible sulphides
HKJD005	5748765	643495	Outcrop					10 m from large syenite contact documented in HKMR14; phenocrysts 2-8 mm in size; calcite stringers; K feldspar; shear strike 226 dip 72 degrees

Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKMR001	5747981	643345	Float				826501	Large clearcut with a variety of boulders ranging from andesite-basalt to micro-granodiorite to diorite; this location contains a number of angular andesite breccia with rare to moderate veining +/- bornite; moderate weathering to produce a pitted surface with a weak limonite coating +/- hematite; trace (<1%) epidote
HKMR002	5747997	643258	Float					Subangular boulders of andesite-basalt and augite porphyry with minor (1-2%) specks of disseminated bornite (orange-red on fresh surface) (limonite)
HKMR003	5748009	643176	Outcrop					Previous sample 493486 taken near here; white semi transparent quartz with pink calcite; mostly till covered - very little outcrop; another similar outcrop 20 m to the east with more epidote and finer grains
HKMR004	5748014	643051	Subcrop					Subcrop (3 by 10 m east to west) in mature forest west of bog; fine grained augite porphyry with minor veinlet of calcite +/- pink calcite +/- hematite and limonite coatings; trace (<1%) epidote; no visible mineralization
HKMR005	5748082	642982	Subcrop				826502	Angular breccia with diorite(?) matrix and puzzle fit angular host rock with ~30% black bladed mineral up to 1/2 cm (tourmaline?); disseminated in matrix is a black sulphide (chalcocite?) up to 12% of total volume; host is a fine grained dark green andesite-basalt with moderate epidote and trace calcite; locally the rocks are richer in epidote and calcite and commonly display a weak sulphide mineralization; alteration may be increasing; till; no outcrop but abundant subcrop
HKMR006	5748127	642898	Float					Weak increasing to strongly foliated rock towards the west, no visible outcrop but commonly oriented north to south; also flattened clasts calcite; main unit appears phaneritic with up to 50% pyroxene and possible trace garnets; moderate epidote + calcite alteration
HKMR007	5748149	642827	Float					Generally all fine grained with decreasing epidote and calcite; generally massive; andesite-basalt(?); one small boulder of similar composition to last assay sample (826502) but only one (not local); contact with augite porphyry is east of here
HKMR008	5748206	642730	Outcrop					Coarse grained and garnet rich(?) + hornblende hornfels; garnets(?) are black, euhedral and up to 0.25 cm; hornblende are brownish black and up to 1 cm in long axis; very hackly; outcrop is a prominent knoll on edge of valley; all material has moved but shows minor jointing; 1st jointing set strike 045 dip 80 [right hand rule] 2nd jointing set strike 304 dip 80 [right hand rule]
HKMR009	5748214	642816	Float					Very fine grained boulders with up to 10% very fine grained disseminated pyrite (silvery and euhedral) but void of other visible sulphides
HKMR010	5748193	642840	Float					Moderate to intense epidote replacement of augite; host was an Augite porphyry but now appears as a epidote porphyry; several stringers of specular hematite; boulder was angular 0.5 m by ? M; and is likely float
HKMR011	5748123	641954	Outcrop					Large tan coloured rounded outcrop with moderate foliation; moderately altered with disseminated interstitial epidote and localized patches of epidote; rock is greenish grey with an epidote green overprint; abundant manganese (goethite) staining up to 1 cm into outcrop on fractures and on foliation strike 207 dip 79; very weak magnetic signature; looks igneous and may be a Granodiorite; outcrop 20 m by 10 m with several more seen up to 100 m from here
HKMR012	5748006	642492	Float					Small flat fine grained to augite porphyry with 1-2% disseminated sulphide (chalcopyrite(?) pyrite?); only one boulder; found next to yellow ribbon (previous sample?); ~20 m to the east under a blow down was a number of angular augite porphyry and andesite-basalt (tuff) boulders; rare mineralization?
HKMR013	5748029	642520	Float					Large subangular 0.5 m by 0.5 m boulder of augite porphyry to pyroxenite with weak magnetic signature; pyroxene crystals up to 0.5 cm; no visible sulphides although some trace sulphides (pyrite) are visible in other similar boulders; this one exhibits a fine 0.25 cm pink calcite veinlet with up to 5% disseminated pyrite with trace intergrown chalcopyrite(?)
HKMR014	5748011	642529	Subcrop				826503	Medium grained dark green phaneritic igneous rock - likely diorite; alteration includes interstitial epidote and epidote stringers; sulphides include up to 5% (locally) pyrite with minor to trace chalcopyrite (<1 mm euhedral)
HKMR015	5747984	642634	Float					Significant boulder field on west slope of hill with up to 90% fine grained andesite-basalt (tuff); no visible sulphides
HKMR016	5747967	642648	Subcrop				826504	Large coarse grained boulder; epidote replaced grains commonly contain disseminated pyrite+/-chalcopyrite on boundaries and pyrite+/-chalcopyrite threads (very rare) and possible arsenopyrite as a coating on one fracture surface; overall sulphide <1%

2008 Hawk Field Mapping Stations and Descriptions

Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKMR017	5747945	642701	Subcrop					Mineralization continues as does alteration from HKMR016; 1 pink calcite vein noted in boulder at top of hill; trace sulphides (pyrite); significant animal trail running north to south
HKMR018	5747946	642788	Subcrop					Sulphides and mineralization dropping off
HKMR019	5747795	643033	Float					Weak to moderately altered augite porphyry; epidote replacing grains and interstitial matrix; minor pyrite (<1%) as very fine disseminated grains; weak pervasive calcite; moderate magnetism likely due to magnetite; this is the dominant lithology for the area; most likely represents underlying bedrock; also common are subangular micro-diorite boulders; significant old growth forest with very large trees; low lying sections are very boggy; overburden is likely very deep
HKMR020	5747788	642932	Float					Significant drop in epidote and magnetite and carbonate; to the north a fine grained dark green fissile rock is likely local but uncertain; manganese staining (goethite) is increasing from previous station HKMR020; no observable mineralization; deep overburden and huge old growth trees
HKMR021	5747800	642911	Float					Increasing epidote, trace magnetism, and clasts of pink calcite (up to 5%) and interstitial calcite (weak and pervasive); hematite staining is common as is limonite on fractures; notable lack of manganese staining (goethite); trace disseminated chalcopyrite(?) up to 1 mm and anhedral
HKMR022	5747806	642870	Float				826505	Medium grained dark green with ~ 30% plagioclase, 30% mafic and 30% epidote; 2-3% sulphide with 1-2% pyrite and <<1% chalcopyrite and possible trace arsenopyrite; moderate epidote and very weak magnetism; float boulder at the base of a hill to the east
HKMR023	5747602	642837	Outcrop					Weak epidote, trace calcite, and minor magnetism; up to 2% disseminated sulphides with pyrite >>chalcopyrite; outcrop to subcrop
HKMR024	5747595	642844	Outcrop				826506	Moderately altered with minor epidote, 2-5% disseminated euhedral calcite grains (replacement?); very weak magnetism; 5-8% sulphide with pyrite>>chalcopyrite>>bornite(?); disseminated euhedral grains; taken from the east crest of slope above a narrow gully running strike 190 dip 10; also significant 1-5 mm garnets(?) black (augite) and up to 10%; outcrop to subcrop
HKMR025	5747601	642916	Outcrop					Dark greenish with up to 50% euhedral dark greenish black garnets(?) (augite); trace to 1% disseminated pyrite; augite porphyry(?); outcrop to subcrop
HKMR026	5747684	643042	Outcrop					5 m by 2 m outcrop of andesite-basalt (tuff); foliated strike 020 dip 89 and weakly fissile; possibly pillowed; fine grained with flattened clasts (amygdules) of 1 mm to 10 mm calcite ~5%; no visible sulphides
HKMR027	5747692	643063	Subcrop					Same as HKMR026 except stringers of epidote; <1% and minor 5 mm 10% black garnets(?) (augite); rare glass fragments?
HKMR028	5747696	643105	Outcrop					Similar to HKMR027 except moderate calcite as flattened clasts (amygdules) and interstitial fill; fissile and chlorite altered; no visible sulphides; several outcrop in area with variable carbonate
HKMR029	5747712	643131	Float					Fine grained green hornblende (augite) porphyry with 20% phenocryst or garnet skarn?; weak sericite and weak foliation; 1% disseminated sulphides chalcopyrite?
HKMR030	5747719	643163	Outcrop					Similar to HKMR027 except increased sericite and epidote alteration
HKMR031	5748865	641661	Outcrop				826507	Large outcrop on top of hill north of road in clearcut; variable epidote mineralization throughout as veinlets and patches ranging from weak to locally intense; generally appears to be a micro-diorite with bands of augite porphyry; contacts appear gradational and striking north to south; micro-diorite-fine to medium grained phaneritic, equant, and generally host to the strongest epidote alteration; magnetite appears near the contacts; overall moderately altered with minor shear sets, veins and patches of epidote; black submetallic sulphide (sphalerite); sample taken of silicified shear or vein; strike 355 dip 65 [right-hand rule]; dominant fracture plane strike 185 dip 85 [right-hand rule]; polished surface strike 115 dip 64; epidote veins strike 235 dip 82 [right-hand rule]; several orientations exist for fracture planes and epidote veins

Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKMR032	5748897	641620	Outcrop	202	85			Augite porphyry same as HKMR031 on western side of contact; (see map in notes); syenite-pale tan with an orange tint, friable and appears intensely altered (potassic); foliation is undulating and crackled with planes approximately 10 mm apart; trace pyrite as 1-2 mm euhedral crystals; contact is linear then appears to fold over towards the east (see map in notes); joints/fractures strike 280 dip 60 and strike 272 dip 10; significant blebs and stringers of limonite; syenite is tenacious and difficult to break then shatters when broken; further west of the syenite; Augite Porphyry-green with minor interstitial epidote; pyroxene (augite) = 5% and are generally 1-2 mm with rare 3-4 mm grains; hand sample from next to sample 826508 (see HKMR032); western contact not visible but appears to be NNW; contact strike 227 dip 65 foliation
HKMR033	5748904	641617	Outcrop	227	65	foliation	826508	Thin quartz veinlet with narrow <10 mm epidote halo; disseminated dark greyish blue sulphide (sphalerite or galena) similar to (HKMR031) 826507; stockwork = ~20% of vein or 1% of total assay sample
HKMR034	5748953	641593	Outcrop	340	90			Found on the eastern most flank of outcrop with intense localized epidote as patches and stringers; micro-diorite to the west of this outcrop with minor epidote stringers and patches; trace quartz veinlets; no visible mineralization; contact uncertain but may be north to south and may represent a weak shear zone; several hand samples taken
HKMR035	5748782	641570	Outcrop	189	71	foliation		Weak to mod foliation strike 030 dip 64 with ~ 10% 1-3 mm augite phenocrysts; weak to moderate alteration with epidote stringers/veins and minor patches; epidote vein set #1 strike 030 dip 64 [right hand rule]- 5 mm wide with minor halo; generally planar but can cut across foliation to parallel sets; localized pink K feldspar and locally undulating, set #2 strike 044 dip 70 [right hand rule] - weak epidote, set #3 strike 302 dip 76 [right hand rule] - calcite veinlets with no visible sulphides; epidote vein
HKMR036	5748759	641581	Outcrop	14	83	foliation	826509	Same as HKMR035 except a 20 mm siliceous band was visible with 5% disseminated sulphide which slightly cross cuts foliation strike 189 dip 56; silica banding
HKMR037	5748551	641269	Float					Intensely altered Augite Porphyry with intense sulphide including arsenopyrite and pyrite
HKMR038	5748585	641008	Outcrop					20 m by 20 m outcrop of biotite granodiorite near pond edge; biotite up to 30% is generally aligned along one axis giving a gneissic look (very weak textural element); remaining 70% plagioclase and quartz; no visible mineralization; hand sample taken
HKMR039	5748623	641094	Float					Possible contact between biotite granodiorite and volcanics (Augite Porphyry); contact observed in float under overturned tree root; unknown source; also found a biotite schist; hand sample of contact taken
HKMR040	5748596	641125	Outcrop	13	82	bedding		Laminations to bedding in an Augite Porphyry
HKMR041	5748585	641471	Outcrop	8	90	bedding		Banding in an Augite Porphyry as light and dark bands 10-40 mm wide with 3 bands per metre; banding/bedding
HKMR042	5748675	641584	Contact					Contact between Augite porphyry and Syenite
HKMR043	5748654	641587		15	90	bedding		Syenite dike through Augite Porphyry; flows or interbedded with Andesite Tuff; locally gradational to one another; flows have a predominantly north; trending fabric and are cut by numerous epidote +/- quartz +/- feldspar +/- sulphide (pyrite/arsenopyrite) veinlets and "near dry fractures"; tuff-granular to quasi-sedimentary appearance and pronounce fabric (primary?) strike 015 dip 90; mud non-permissive to alteration fluids and epidote forms discontinuous replacements parallel to fabric resulting in alternating pistachio green - grey green banded rock; overall Augite Porphyry-Andesite Tuff-Syenite dike; contact strike 015 dip 90; fabric in tuff
HKMR044	5748692	641464	Subcrop					Equigranular; outcrop?
HKMR045	5748607	641265	Outcrop					Dense foliated volcanic; sucrossic texture (recrystallized?); cut by narrow dike (syenite)
HKMR046	5748269	641842	Outcrop	295	42	vein		Grey green with ~ 20% phenocrysts (augite) in a fine grained groundmass; weak to moderate epidote as stringers and rare interstitial; trace epidote vein with minor K feldspar; non-magnetic; vein #1 strike 295 dip 69 - epidote + K feldspar + limonite; joint #1 strike 296 dip 69, joint #2 strike 321 dip 46, joint #3 strike 011 dip 09 (face); see drawing in notes; jointing is difficult to assess between the west and the eastern exposures due to spalling or minor faulting?; veining strike 296 dip 69; jointing

2008 Hawk Field Mapping Stations and Descriptions

Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKMR047	5748238	641821	Outcrop	186	66	shear	826510	Massive to weakly foliated igneous rock; moderately altered with moderate epidote; weak K feldspar; weak to moderate silica flooding and trace chlorite; disseminated chalcocite(?) up to 3% as black to dark grey metallic euhedral very fine grained crystals (sphalerite or galena), joint #1 strike 117 dip 90, joint #2 strike 040 dip 64, joint #3 strike 186 dip 66; localized blebs of quartz and K feldspar; foliation turns towards the south as you move south; see drawing in notes; shear strike 117 dip 90; jointing
HKMR048	5748257	641824	Outcrop	68	24	vein		Thin veinlet of k feldspar with minor chalcocite(?) in Augite Porphyry; measurement is approximate
HKMR049	5748467	641869	Outcrop	224	78	foliation		Augite Porphyry with weak disseminated magnetite; patchy epidote + veinlets; trace foliation; several narrow (<10 mm) epidote veins/veinlets; vein #1 set shows offset and imbrication and can be up to 40 mm wide; joint #1 strike 113 dip 78, joint #2 strike 165 dip 58; vein #1 strike 160 dip 85 (epidote + K feldspar + min), vein #2 strike 220 dip 89; foliation strike 160 dip 85; veining
HKMR050	5748421	641966	Outcrop					Contact between micro-granodiorite and Augite Porphyry, and Andesite Tuff?; sharp, undulating and shows evidence of xenoliths (could this be a bomb?); micro-granodiorite-fine grained pale tan in outcrop; phenocrysts - ~ 50% hornblende, 40% plagioclase and 10% accessory minerals; Augite Porphyry-green , very fine grained; vein #1 strike 221 dip 55 (epidote), vein #2 strike 279 dip 64 (epidote), vein # 3 strike 116 dip 67 (epidote, mineralized); contact strike 002 dip 80; foliation/bedding
HKMR051	5748402	641935	Outcrop					Random convoluted textures; one unit appears rolled and twisted within a pitted, sheared conglomerate(?); the first unit has small 2-3 mm clasts of talc (after garnet?) and small black filaments (chalcocite?) (psilomelane) and is polished on one face; pseudo-veins appear broken and twisted; clasts in the conglomerate are well rounded and erratically distributed
HKMR052	5748387	641951	Outcrop					Pseudo-conglomerate; matrix supported; tan to white with minor limonite staining on the weathered surface.; clasts from 10 mm to 50 mm and generally granitic(?); weathered surface often appears pitted or to have flute casts
HKMR053	5748348	641945	Outcrop					
HKMR054	5748340	641947	Outcrop					
HKMR055	5748331	641950	Outcrop					Andesite Tuff; locally moderately epidote altered with weak to moderate silica; minor epidote veinlets
HKMR056	5748304	641942	Outcrop	186	69	bedding		Andesite Tuff in contact with pseudo-conglomerate; over 5 m wide with rare Augite Porphyry; locally well bedded with clasts appearing stretched out in the eastern portion; localized lenses of conglomerate within ash tuff; rare flute casts(?); chalcocite plating (psilomelane) on parting surface or joint #1 strike 291 dip 43; epidote veining with quartz core strike 063 dip 82 and strike 180 dip 19; see drawing in notes for addition details; bedding strike 291 dip 43; jointing
HKMR057	5748282	641967	Outcrop	36	28	joint		Interbedded volcanic conglomerate and andesite tuff; large patch of epidote 1 m by 0.2 m; large curve in wall (strange); jointing strike 287 dip 72
HKMR058	5748275	641985	Outcrop	227	88	bedding		Banded tuff + auto breccia (lapilli); fragments up to 40 cm and aligned; bedding
HKMR059	5748340	642068	Outcrop				826511	Andesite Crystal Tuff; pale white weathering displaying up to 50% phenocryst of augite; difficult to see phenocryst on fresh surface; fresh surface is green to dark green, sugary textured with a weak to moderate epidote as stringers and rare elongated patches, weak sericite, weak chlorite; sample contains an aphanitic, convoluted, broken green vein consisting of chlorite +/- silica (locally hard patches); red disseminated locally euhedral crystals may be cuprite(?) (sphalerite); sometimes intergrown with chalcocite which is up to 2% and more common on parting planes as a coating
HKMR060	5748347	642045	Outcrop				826512	Andesite Crystal Tuff; pale white to tan weathering displaying up to 50% phenocryst of augite; difficult to see phenocryst on fresh surface; fresh surface is green to dark green, sugary textured with a weak to moderate epidote as stringers and rare elongated patches; red disseminated localized blebs (cuprite, K feldspar?) (sphalerite) sometimes intergrown with chalcocite which can be up to 20% locally

Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKMR061	5748327	642031	Outcrop	8	61	foliation		Andesite Crystal Tuff/Augite Porphyry; white to tan weathering, green on fresh surface; generally appears recrystallized with weak to moderate epidote, silica, minor chlorite + sericite; 2-4% chalcocite(?); localized epidote veins up to 3 veins/metre + patches; veins appear darker and sometimes have a core of quartz; possible bornite in vein and host wall rock; moderately foliated/bedded (laminated); foliation/bedding strike 008 dip 61; vein #1 strike 234 dip 76 (epidote + quartz), vein #2 strike 008 dip 61 (epidote bands + veinlets subparallel to foliation; foliation strike 234 dip 76; veining
HKMR062	5748347	641992	Outcrop	276	76	vein	826513	Augite porphyry to Andesite Crystal Tuff; narrow white quartz vein with minor black platy sulphide (or perhaps biotite?) (covellite); vein is imbricated, hackly, curved and pinches/swells; trace up the face of the outcrop and for 1 m to the west where it become very thin <10 mm; wall rock hosts substantial K feldspar + moderate sericite and intense epidote flooding then veining away from vein; assay sample contains 95% vein material; also within vein-small vugs with small euhedral quartz crystals; see notes for drawing; veining
HKMR063	5748343	641991	Outcrop					40 cm epidote band with K feldspar core with up to 10% magnetite in core; no visible sulphide; veining
HKMR064	5748379	642011	Outcrop	265	90	bedding		Pseudo-breccia in silicified epidotized andesite/basalt (tuff); dark green groundmass with flattened clasts and epidote rich matrix; 2% chalcocite?; bedding
HKMR065	5748432	642031	Outcrop					Diorite; up to 70% hornblende (augite) with minor plagioclase (oligoclase/andesine)
HKMR066	5748434	642051	Outcrop					Micro-granodiorite; 20% quartz, could be clastic? (alteration); moderate epidote and silica alteration; fine disseminated chalcocite(?) up to 5%
HKMR067	5748426	642060	Outcrop	192	90	bedding		Banded pseudo-conglomerate with flattened elongated subparallel clasts; cross cutting pale green epidote(?); veins are contorted, folded and broke; sulphide mineralization (pyrite/arsenopyrite) in some clasts?; bedding
HKMR068	5749352	641965	Outcrop	346	65	vein		Augite Porphyry with moderate patches/bands/pipes (~50% of total volume); rock appears hornfelsed; local narrow brown weathered hard veins (ankerite?) strike 346 dip 65 with trace chalcocite(?); veining
HKMR069	5749362	641964	Outcrop	6	90	foliation		Same as HKMR068 except strong magnetite + localized clots of epidote flattened along foliation; no veins; foliation strike 006 dip 90
HKMR072	5749389	641934	Outcrop					Diorite; fine grained dark and very magnetic
HKMR075	5748790	642057	Outcrop					Fine grained green andesite; moderate epidote with significant chalcocite(?) and possible disseminated and fracture plating bornite; large outcrop (30 m by 30 m); localized carbonate alteration; fracture #1 strike 052 dip 90 mineralized, fracture #2 strike 351 dip 72 mineralized, fracture #3 292/90 no visible sulphide mineralization; 1 thin (4 mm) carbonate veinlet (off white) with 10% chalcocite(?) strike 210 dip 85; outcrop elongated at 10 degrees
HKMR076	5748763	641956	Outcrop					Diorite; fine grained to medium grained with weak epidote, trace magnetite; outcrop elongated @12 degrees; primary jointing plane strike 343 dip 65
HKMR077	5748758	641941	Outcrop					Granodiorite to diorite; coarser grained then previous outcrop with localized finer grained sections related to epidote veining; increased magnetite to moderate; primary jointing plane strike 350 dip 66; outcrop is elongated along this plane
HKMR078	5748736	641925	Outcrop	348	65	joint		Augite Porphyry/Diorite contact (contact not observed); Augite Porphyry to the west, Diorite to the east; weak magnetite, and epidote; primary jointing plane strike 348 dip 65
HKMR079	5748823	641891	Outcrop					Augite Porphyry; minor epidote; trace calcite; no visible magnetite; massive; jointing
HKMR080	5748878	641873	Outcrop					Diorite; moderate epidote, and magnetite
HKMR081	5748898	641792	Outcrop	7	90	foliation		Augite porphyry; minor epidote, nonmagnetic; dominant fabric-cleavage, bedding(?) strike 007 dip 90
HKMR082	5748974	641779	Outcrop					Augite Porphyry; banded; sugary textured; moderate epidote alteration and nonmagnetic; minor hornblende(?); hornblende skarn(?); brown coating on parting surfaces (limonite); outcrops are elongated whales backs
HKMR083	5748998	641741	Outcrop					Augite Porphyry; banded; sugary textured; moderate epidote alteration and nonmagnetic; minor hornblende(?); hornblende skarn(?); brown coating on parting surfaces (limonite); outcrops are elongated whales backs
HKMR084	5749050	641681	Outcrop	18	89	foliation		Augite Porphyry; banded, sugary textured, moderate epidote alteration and weakly magnetic; minor hornblende(?); hornblende skarn?; brown coating on parting surfaces (limonite); outcrops are elongated whales backs; outcrop ratio is 50% and correlates with light patches in satellite image; foliation

Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKMR085	5749147	641702	Outcrop					Granodiorite dike ~0.75 m wide; host is massive to weakly foliated Andesite Tuff (foliated strike 020 dip 90); massive sections to foliated sections as 0.5 m bands every 10 m; contact strike 020 dip 90; foliation
HKMR086	5749318	641762	Outcrop					Granodiorite contacts unknown possibly Augite Porphyry to east and west
HKMR087	5749434	642146	Outcrop	177	80	foliation		Banded Andesite Flow; strongly foliated with abundant flattened clasts (phenocrysts); colour changes rapidly over mm to cm scales from tan to green to dark green; changes from fine grained Andesite Tuff to Augite porphyry; locally foliation bends around fragments (pressure shadow?); the western section exhibits polymictic clasts up to 20 cm by 10 cm and ~10% of whole rock; some clasts appear to have clasts within them(?); foliation often does not penetrate clasts (suggests bedding?); flattened nature of clasts suggests flow; one clasts exhibits a weak pressure shadow; see notes for drawing
HKMR088	5749423	642132	Outcrop					Andesite Crystal Tuff; tan weathered, powders with a hammer blow but still tenacious
HKMR089	5749409	642175	Outcrop	177	79	bedding		Laminated Crystal Tuff; weakly magnetic
HKMR090	5749404	642196	Outcrop	15	90	vein		Laminated Crystal Tuff grading to Laminated Tuff towards the west; weak magnetism; a single quartz vein exhibits a weak sugary texture and is planar with undulating contacts; ~10 mm wide and with no visible sulphides; inches out to the south, and lost in overburden to the north
HKMR091	5748923	642213	Outcrop	187	77	bedding		Laminated Andesite Tuff to Crystal Tuff
HKMR092	5748974	642223	Outcrop	11	82	bedding		Banded/laminated Andesite Crystal Tuff with weak magnetism; outcrop 10 m by 1 m; bedding
HKMR093	5749032	642209	Outcrop	2	83	bedding		Laminated Crystal Tuff with weak magnetite; bedding
HKMR094	5749089	642219	Outcrop	181	87	bedding		Laminated Crystal Tuff with some laminations showing crenulation cleavage along a calcite vein; see drawing in notes; laminae strike 288 dip 50; veining
HKMR095	5749112	642195	Outcrop					Laminated Crystal Tuff with two bands of ~0.5 m wide, subparallel broken and boudined epidote veinlets; often with calcite rims; nonmagnetic; larger epidote boudins contain crosscutting K feldspar in boudin only and a hard black tabular submetallic crystal (covellite/hematite); locally there are large flattened polymictic clasts (<5%); see drawing in notes
HKMR096	5749195	642242	Outcrop					Laminated Andesite Tuff with weak magnetism
HKMR097	5749206	642233	Outcrop	7	90	bedding		Laminated Crystal Tuff; subparallel to bedding is a white, planar, sugary textured quartz vein with undulating contacts, ~20 mm wide; laminae strike 014 dip 90
HKMR098	5749172	641981	Outcrop				826514	Andesite/Basalt (tuff); fine grained; massive with ~1% disseminated chalcocite; minor K feldspar clots (broken veinlets?) and trace small reddish blebs (earthy, white streak) (altered K feldspar)
HKMR099	5749108	641995	Outcrop					Granodiorite with a banded Andesite Tuff 10 m to the east; Granodiorite-moderate epidote alteration; disseminated pyrite up to 2% (euhedral); common limonite coatings on fractures; locally foliated; Andesite Tuff-banded with strong epidote bands and patches; very hackly (hornfels) with minor laminations
HKMR100	5749100	642009	Outcrop	293	71	foliation		Andesite Tuff; massive with localized weak foliation; minor tan K feldspar veins which are folded/broken; moderate epidote, and nonmagnetic; cleavage strike 293 dip 71
HKMR101	5749103	642022	Outcrop	223	85			Granodiorite-Andesite Crystal Tuff contact; sharp; strong chlorite; chill margin then silica up to 10 cm from contact into Andesite Crystal tuff; weak cleavage parallel to contact up to 1 m from contact; foliation in Andesite Crystal Tuff strike 020 dip 90
HKMR102	5749411	642113	Outcrop					
HKMR103	5749172	641934	Outcrop	4	78	foliation		Andesite Tuff to Crystal Tuff; massive to weakly foliated; green with minor epidote and moderate magnetite; no visible carbonates
HKMR104	5749245	641858	Outcrop				826515	60 cm @ 74 degrees, 1-3 cm deep; minor epidote + silica stockwork strike 170 dip ?; and narrow quartz vein strike 020 dip 90; and epidote vein strike 131 dip 20); see drawing in notes; stockwork strike 020 dip 90; channel sample
HKMR105	5749246	641858	Outcrop				826516	96cm @90 degrees, 2-4cm deep; minor epidote + silica stockwork and pervasive epidote flooding on western cut; minor malachite staining; similar to HKMR104; see drawing in notes; channel sample
HKMR106	5749226	647901	Outcrop	220	72	dyke		Hornblendite dike-Andesite Crystal Tuff contact; three location near here are noted in the following stations; this location was the southern most location observed; epidote veinlets cutting tuff do not cut dike; jointing does not cross contact; narrow cleavage planes parallel to contact up to 20 cm away; eastern contact

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Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKMR107	5749226	641905	Outcrop					Hornblendite dike-Andesite Crystal Tuff contact; this location is the central location observed and includes two subparallel Dikes; the eastern most Dike was 25 cm wide and turns from strike 220 dip 68 to strike 011 dip 90, 1.7 m to the north; the western most Dike is 10 cm wide and pinching out ~1 m to the north; the contact for this dike is strike 207 dip 85 and is bound on both contacts by a quartz vein; intense foliation and epidote on this dike; eastern vein is discontinuous and appears folded/truncated on the south face; epidote veinlets cutting tuff do not cut dike; jointing does not cross contact
HKMR108	5749237	641906	Outcrop					Northern most Dike; western contact only strike 022 dip 78; <1 m wide with 20 cm exposed; undulating contact
HKMR109	5749239	641897	Outcrop				826517	Length 0.75 m; Augite Porphyry; phenocrysts (augite) very small (mm scale); epidote throughout matrix (<5%); no apparent sulphides; magnetic; pink K feldspar on surface of outcrop but does not extend into channel sample; channel sample
HKMR110	5749240	641897	Outcrop				826518	Length 0.97 m, Augite porphyry as in HKMR110; some pink K feldspar within sample (<1% of sample); epidote through matrix (<5%); abundant manganese (goethite) on weathered fracture surfaces; channel sample
HKMR111	5749241	641897	Outcrop				826519	Length 1.08 m; Augite porphyry like previous 2 samples; more epidote alteration in this sample (approximately 5-10% veining); pink K feldspar in sample (<1%); no apparent sulphides; channel sample
HKMR114	5750522	643263	Outcrop					Eastern contact to granodiorite
HKMR115	5749000	643509	Float					Weak to moderate hornfels with 5% clusters of pyrite
HKMR116	5748951	643646	Subcrop					Weak foliation; micro-diorite with dark chunks 4-8 cm
HKMR118	5748830	643615	Float					Augite Porphyry; grey with ~20% phenocrysts of augite; nonmagnetic; weak calcite; boulders of diorite between here and HKJD002 = ~80%
HKMR119	5748741	643518	Outcrop					Syenite; very large knob; see SB's notes
HKMR120	5748819	643435	Outcrop	172	36	contact		Contact between Syenite and volcanic; sharp undulating contact; (strike ~172/shallow west ~36 degrees?)
HKMR121	5748939	643426	Float					Breccia/Syenite inferred contact
HKMR122	5747986	641537	Outcrop	3	82	foliation		Andesite Tuff/Porphyry interbedded; weak to moderate cleavage (strike 003 dip 82 [right hand rule]); nonmagnetic
HKMR123	5749435	642014	DDH					Hawk 07-02
HKMR124	5749443	642087	DDH					Hawk 07-03
HKMR125	5749707	642674	DDH					Hawk 07-01
HKSB001	5747836	643394	Float					Augite Porphyry; green; 40% phenocrysts up to 5mm; no sulphides
HKSB002	5747848	643335	Outcrop					Augite Porphyry; grey-green; 30-40% phenocrysts; trace epidote; no sulphides; massive
HKSB003	5747885	643158	Float					Granodiorite; dark; crystalline; very siliceous; mica; no sulphides
HKSB004	5747892	643133	Float					Green, massive, aphanitic, microcrystalline, calcite specks less than 5 mm
HKSB005	5747901	643121	Outcrop					Green-grey; trace augite phenocrysts (<5%); massive; some epidote; like HKSB005
HKSB006	5747927	643029	Outcrop					Green; crystalline; sugary greenish epidote on fresh surface; no visible phenocrysts or sulphides
HKSB007	5748056	642836	Outcrop					Massive; green; aphanitic; microcrystalline; siliceous; no phenocrysts or sulphides
HKSB008	5748130	642685	Float					Massive; green; aphanitic
HKSB009	5748501	642337	Outcrop					Greenish grey; crystalline; aphanitic; siliceous; some mica; no sulphides
HKSB010	5748324	642703	Float					Greenish grey; crystalline; aphanitic; siliceous; some mica; no sulphides
HKSB011	5748261	642760	Outcrop					Augite Porphyry; less than 10% augite phenocrysts; green crystalline matrix
HKSB012	5748243	642924	Outcrop					Augite Porphyry; 20-30% phenocrysts; no visible sulphides; 2 small mm scale quartz veinlets
HKSB013	5748242	643048	Float					Augite Porphyry; 30-40% phenocrysts
HKSB014	5748292	643191	Outcrop					Granodiorite intrusion; trace silvery sulphide (pyrrhotite?); hornblende; quartz; biotite
HKSB015	5748130	641554	Outcrop					Augite Porphyry with <20% phenocrysts; microcrystalline matrix; epidote; dark grey shiny minerals (arsenopyrite); outcrop on roadside
HKSB016	5747782	642287	Float					Augite Porphyry with 15-20% black augite phenocrysts; float-small car size

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Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKSB017	5747365	642751	Float					Augite Porphyry; minor calcite (pink) inclusions (<2 mm diameter); 10-20% augite phenocrysts; float-abundant angular
HKSB018	5747496	642739	Outcrop					Green-grey aphanitic; no phenocrysts; microcrystalline; massive; 2 m by 2m
HKSB019	5747584	642991	Outcrop					Green-grey aphanitic; possibly trending 348 degrees; outcrop 2 m by 2 m
HKSB020	5747582	643033	Outcrop					Augite Porphyry with 10-20% phenocrysts; occurrence of epidote with no visible sulphides; 3 m by 3 m
HKSB021	5747588	643072	Outcrop					Crystalline pyroxene faces abundant on fresh surfaces; 3 m by 1 m
HKSB022	5747650	643187	Outcrop					Augite pyroxene phenocrysts; 5 m by 1 m
HKSB023	5747814	641922	Outcrop					No visible phenocrysts; green-grey; aphanitic and very siliceous; trace epidote; laminated bedding; on side of road
HKSB024	5747865	641860	Outcrop					Abundant epidote inclusions; bedding evident in float but not in outcrop; some pink calcite in veinlet; on side of road
HKSB025	5748125	641941	Outcrop					Green crystalline; some epidote visible; possible hematite; 2 m by 2 m
HKSB026	5748016	641803	Outcrop					Epidote siliceous; with rare silver sulphides (arsenopyrite); 10 m by 5 m
HKSB027	5747942	641763	Outcrop					Same as HKSB025 and HKSB026; epidote; trace pink calcite with silvery sulphide disseminated (one or two specks visible) (arsenopyrite); 10 m by 10 m
HKSB028	5747381	643699	Float					Float abundant; angular; Augite Porphyry; fine grained green matrix with 5-10% black augite phenocrysts also some epidote
HKSB029	5747395	643649	Outcrop					Augite Porphyry 10- 15% augite phenocrysts; some epidote; one speck of disseminated pyrite adjacent to mm scale inclusions of white calcite; 20 m by 20 m-whole knob
HKSB030	5747423	643579	Outcrop				659651	Augite Porphyry like HKSB029 but slight increase in pyrite dissemination especially adjacent to thin epidote filled veinlets (mm scale). Sample # 65965; 20 m by 20 m-whole knob
HKSB031	5747417	643522	Outcrop					Continuous occurrence exposure uphill from HKSB-030; 20 m by 20 m-whole knob
HKSB032	5747312	643162	Outcrop					Similar to HKSB032 Augite Porphyry but appears to be more crystalline faces on fresh surface - pyroxene? 5 m by 5 m
HKSB033	5747429	643335	Outcrop					Occurrence of very large and fairly continuous uphill; Augite Porphyry; some epidote; no visible sulphides; 10 m by 10 m
HKSB034	5747498	643252	Outcrop					Augite Porphyry; 20 m by 5 m
HKSB035	5747586	643222	Float					Augite Porphyry with various disseminated pyrite
HKSB036	5747669	643267	Outcrop					Augite Porphyry as above; 5 m by 1 m
HKSB037	5747018	641994	Outcrop					Green crystalline very siliceous; epidote abundant; occurrence of silvery sulphide grains (arsenopyrite/pyrite); 10 m by 10 m
HKSB038	5746961	642170	Outcrop					Green siliceous; weathered surface is more green than above; epidote but no visible sulphides present; occurrence of augite phenocrysts; 10 m by 3 m
HKSB039	5747358	642155	Outcrop					Green aphanitic very fine grain; no phenocrysts of epidote; filled veinlets; occurrence of calcite veins; no sulphides present; 20 m by 20 m
HKSB040	5748657	643028	Outcrop					Possible trend of 042 degrees; appears to be Augite Porphyry but phenocrysts are just dark spots; seems to be altered and overprinted; microcrystalline matrix; abundant epidote inclusions and veinlets; occurrence of reddish brown spots (hematite?); 3 m by 1 m
HKSB041	5748689	642987	Outcrop					No obvious phenocrysts; less epidote than HKSB040 but still obvious occasional veinlets and inclusions; microcrystalline matrix; 4 m by 1 m
HKSB042	5748665	642850	Outcrop					Augite Porphyry, with abundant augite crystal faces on fresh surface 50 %; occasional white and pink calcite; epidote inclusions and veinlets; very magnetic; 5 m by 3 m
HKSB043	5748693	642873	Outcrop					Same as HKSB043; abundant crystal faces 50 % with 5% calcite inclusions epidote inclusions and veinlets; no apparent sulphides; very magnetic; 1 m by 1 m
HKSB044	5748755	642948	Outcrop					Magnetic; overprinted augite phenocrysts; epidote inclusions; 4 m by 2 m

Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKSB045	5748784	642972	Outcrop					Magnetic; no sign of phenocrysts just green aphanitic matrix; occurrence of epidote; hornblende with a pink calcite; 5 m by 1 m
HKSB046	5748898	643028	Outcrop					Nonmagnetic; darker than previous; no phenocrysts ; aphanitic; epidote veins with rare sulphides (pyrite/arsenopyrite); 5 m by 3 m
HKSB047	5749019	642871	Outcrop					Dark very fine grained aphanitic; occasional epidote inclusions; possible trend 015; occasional calcite veinlets; 5 m by 1 m
HKSB048	5749069	642860	Outcrop					Dark with an occurrence of halo of relic phenocrysts; nonmagnetic; very fine disseminated sulphides; 5 m by 1 m
HKSB049	5749057	642744	Outcrop					Magnetic; Augite Porphyry; abundant crystalline faces on fresh surface but seem to be overprinted; epidote scattered throughout and in veinlets; no visible sulphides; occasional pink calcite inclusions; 1 m by 1 m
HKSB050	5748910	642655	Subcrop					Magnetic; Augite Porphyry; abundant crystal faces on fresh surface but seem to be slightly overprinted; epidote scattered throughout and in veinlets; no visible sulphides; occasional pink calcite; subcrop/float
HKSB051	5748856	642483	Outcrop					Nonmagnetic; Andesite?; dark aphanitic; no phenocrysts; very fine grained; very siliceous; minor epidote; occasional calcite; 10 m by 2 m
HKSB052	5748856	642480	Outcrop					Abundant phenocrysts visible; no apparent sulphides; magnetic; not throughout; epidote overprint and in veinlets; 5 m by 1 m
HKSB053	5748889	642467	Outcrop					Andesite; non to very minimal magnetism; dark occasional relic phenocrysts; halo visible; no visible sulphides; calcite present; 3 m by 1 m
HKSB054	5748994	642299	Float					Augite Porphyry fine grained green matrix with dark augite phenocrysts; epidote veinlets; no sulphides; nonmagnetic
HKSB055	5748978	642276	Outcrop					Very fine grained; very siliceous; no visible phenocrysts; magnetic; 5 m by 2 m
HKSB056	5749052	642450	Outcrop					Dark; no phenocrysts; magnetic; occasional epidote inclusions or veinlets; 4 m by 1 m
HKSB057	5749089	642472	Outcrop					Dark; no phenocrysts; magnetic; occasional epidote inclusions or veinlets; 4 m by 3 m
HKSB058	5749086	642480	Outcrop					Lithology change; magnetic; abundant crystal faces on fresh surface; Augite Porphyry; epidote veinlets; no sulphides; calcite in veinlets; 3 m by 1 m
HKSB059	5749123	642507	Outcrop					Magnetic; very fine grained (andesite??); occasional black halos (goethite); epidote inclusions and veinlets; possible trend north; 4 m by 2 m
HKSB060	5749212	642515	Outcrop					Very fine grained; very siliceous ; aphanitic; epidote overprint; green-grey; magnetic; 20 m by 5 m
HKSB061	5749267	642503	Outcrop					Pink K feldspar veinlets; magnetic; minor sulphides; same as HKSB060; 10 m by 5 m
HKSB062	5749360	642527	Outcrop					Hornblende? Pyroxenite; packed full of crystal; magnetic; sulphides disseminated and in quarts veins mostly pyrite; calcite in matrix; some epidote in matrix and veins; 5 m by 2 m
HKSB063	5747915	643518	Outcrop					15-20% phenocrysts; non-magnetic; disseminated pyrite <1%; very little epidote
HKSB063B	5747945	643532	Outcrop					Extension of HKSB063
HKSB064	5747979	643559	Outcrop					Magnetic; rare epidote; very fine disseminated pyrite
HKSB065	5748044	643605	Outcrop				659652	Slightly magnetic; very fine disseminated pyrite; occasional epidote
HKSB065B	5748076	643600	Outcrop					Extension of HKSB065
HKSB065C	5748099	643623	Outcrop					Extension of HKSB065
HKSB066	5748135	643606	Float					Magnetic; no sulphides visible; hornblende phenocrysts; pink feldspar
HKSB067	5748283	643552	Outcrop				659653	Finer grained than HKSB066; magnetic; rare silvery sulphide (pyrite/arsenopyrite)
HKSB067B	5748340	643598	Outcrop					Extension of HKSB067
HKSB067C	5748335	643541	Outcrop					Contact here with mafic (Diorite?); strongly magnetic; abundant pyroxene; epidote in matrix; contact approximately 10m north; extension of HKSB067
HKSB068	5748325	643421	Outcrop					Approximately 5% phenocrysts; magnetic; <0.5% pyrite disseminated
HKSB069	5748419	643446	Outcrop					5% phenocrysts; magnetic; epidote veining up to 5cm thick
HKSB070	5748459	643421	Outcrop					Slightly magnetic; pink feldspar veins up to 5 cm wide

Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKSB071	5748534	643530	Outcrop				659654	Black (Basalt?) in contact with Syenite (pinkish granite-looking); nonmagnetic
HKSB072	5748610	643576	Outcrop					Very fine disseminated pyrite, biotite, hornblende
HKSB073	5748609	643603	Outcrop					Abundant pyroxene phenocrysts; some epidote in matrix; occasional pink feldspar inclusions
HKSB074	5748629	643682	Float					10-15% phenocrysts; rare disseminated pyrite
HKSB075	5748611	643636	Outcrop				659655	Some disseminated pyrite; sericite in mm veins; non magnetic; quartz in veinlets; no calcite
HKSB076	5748626	643506	Outcrop					More mafic than HKSB075; rare phenocrysts faint
HKSB077	5748677	643566	Outcrop					Slightly magnetic
HKSB078	5748698	643513	Outcrop					No to low magnetism
HKSB079	5748744	643522	Outcrop					Pink; trace to no quartz; feldspar; biotite; trace disseminated pyrite
HKSB080	5748765	643498	Outcrop					Size of phenocrysts larger than previous
HKSB081	5748813	643417	Outcrop					Syenite
HKSB083	5748911	643447	Outcrop					Rare phenocrysts <1%; non magnetic
HKSB084	5748888	643557	Outcrop					Rare phenocrysts; very fine disseminated pyrite <0.5%
HKSB085	5748936	643561	Outcrop					Granodiorite
HKSB086	5748994	643460	Float					Breccia; clasts of andesite breccia and Augite Porphyry
HKSB087	5749000	643435	Outcrop					Andesite
HKSB088	5749096	643278	Outcrop					Augite Porphyry
HKSB089	5749101	643212	Outcrop					Calcite and pink feldspar veinlets
HKSB090	5749152	643244	Outcrop					Few rare phenocrysts replaced by epidote
HKSB091	5749202	643172	Outcrop					Andesite Tuff; no apparent phenocrysts; no visible sulphides, nonmagnetic
HKSB092	5749184	643255	Outcrop					Phenocrysts really small; 5-10%; magnetic; rare pyrite
HKSB093	5749199	643324	Outcrop					Augite Porphyry
HKSB094	5749265	643162	Outcrop					Granodiorite; 20-40% mafics; K feldspar; plagioclase; no apparent quartz
HKSB094B	5749267	643103	Outcrop					Extension of HKSB094
HKSB095	5749239	643353	Outcrop					Epidote replacement on most phenocrysts; non magnetic; no visible sulphides
HKSB096	5749303	643399	Outcrop					Very little epidote replacement, 30-40% euhedral phenocrysts
HKSB097	5749370	643387	Float					Phenocrysts may be hornblende instead of augite, long and needle-like
HKSB098	5749372	643288	Outcrop					May be Diorite; very mafic; 65% mafic minerals; 5% feldspar; 5% quartz; magnetic
HKSB099	5749361	643278	Outcrop					30% epidote replacement of phenocrysts
HKSB100	5749349	643229	Outcrop					Magnetic
HKSB101	5749242	642951	Outcrop					Mafic; mostly pyroxene; magnetic
HKSB102	5749223	643223	Outcrop					Andesite
HKSB103	5749225	643088	Outcrop					Syenite; abundant feldspar; mafics 15-20%; slightly magnetic; trace sulphides (pyrite/arsenopyrite)
HKSB104	5749181	643173	Outcrop					<0.5% disseminated pyrite, brecciated andesite in contact on west side of outcrop
HKSB105	5749201	642126	Outcrop					Diorite; mafics 40-50%; K feldspar; plagioclase (oligoclase/andesine); no magnetic; no sulphides
HKSB106	5749183	643156	Outcrop					Brecciated andesite breccia and Augite Porphyry
HKSB106B	5749152	643148	Outcrop					Extension of HKSB106
HKSB107	5749126	643168	Outcrop					Very little epidote
HKSB108	5749054	643184	Outcrop					Granodiorite; Epidote; K feldspar; plagioclase and mafics; trace pyrite
HKSB108B	5749014	643174	Outcrop					Granodiorite; extension of HKSB108
HKSB109	5749102	642991	Outcrop					Granodiorite
HKSB109B	5749040	643046	Outcrop					Possible contact with andesite-basalt; extension of HKSB109

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Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKSB110	5748970	643058	Outcrop					Andesite
HKSB111	5748960	643151	Outcrop					Andesite; sulphides (pyrite/arsenopyrite) present 3 to 4 grains
HKSB111B	5748925	643141	Outcrop					Extension of HKSB111
HKSB111C	5748810	643259	Outcrop					Extension of HKSB111
HKSB112	5748945	643097	Outcrop					Andesite
HKSB112B	5748732	643004	Outcrop					Extension of HKSB112
HKSB112C	5748799	643177	Outcrop					Extension of HKSB112
HKSB112D	5748785	643301	Outcrop					Extension of HKSB112
HKSB113	5748827	643284	Outcrop					Breccia
HKSB115	5749349	643025	Outcrop					Approximately 50% phenocrysts
HKSB116	5749428	643027	Outcrop					Diorite; mafics 40-50%; K feldspar; plagioclase (oligoclase/andesine); no magnetic; no sulphides
HKSB117	5749350	643081	Outcrop					Up to 30% phenocrysts; few cm scale intrusive Granodiorite (with abundant hornblende phenocrysts)
HKSB117B	5749436	643092	Outcrop					Extension of HKSB117
HKSB117C	5749451	643085	Outcrop					Extension of HKSB117
HKSB118	5749448	643014	Outcrop					Andesite
HKSB118B	5749487	643036	Outcrop					Extension of HKSB118
HKSB118C	5749357	642914	Outcrop					Extension of HKSB118
HKSB118D	5749567	642955	Outcrop					Extension of HKSB118
HKSB120	5749646	643189	Outcrop					Augite Porphyry
HKSB121	5749604	642949	Outcrop					Sulphides in quartz veinlets (pyrite)
HKSB122	5749649	642989	Outcrop					Andesite
HKSB122B	5749687	642931	Outcrop					Occasional rare phenocrysts; extension of HKSB122
HKSB123	5749752	642921	Outcrop					Porphyry; phenocrysts in fine grained groundmass; augite??; quartz inclusions (amygdules)
HKSB124	5749691	642810	Outcrop					Augite Porphyry
HKSB125	5749454	642806	Outcrop					Augite Porphyry
HKSB126	5749622	643241	Outcrop					20% phenocryst with about 5% replaced with epidote; no sulphides; magnetic; no visible foliation
HKSB126B	5749607	643297	Outcrop					Rare disseminated pyrite; extension of HKSB126
HKSB126C	5749642	643343	Outcrop					Extension of HKSB126B
HKSB127	5749586	643374	Float					Andesite
HKSB128	5749720	643285	Outcrop					30-40% phenocrysts; epidote through matrix up to 30%
HKSB128B	5749789	643195	Outcrop					Decreased epidote; extension of HKSB128
HKSB129	5749693	642614	Outcrop					40% phenocrysts euhedral to subhedral; minor epidote in matrix; magnetic
HKSB130	5749701	642564	Outcrop					Happy Creek Sample here; thin 1" wide pink feldspar vein; abundant epidote; no apparent mineralization in outcrop (sample taken from float)
HKSB130B	5749648	642228	Outcrop					Contact with Granodiorite here; extension of HKSB130
HKSB131	5749604	642454	Outcrop					Andesite
HKSB132	5749899	643370	Outcrop				659656	Very few phenocrysts visible; inclusions of quartz (amygdules); disseminated silvery sulphide (pyrite?)
HKSB133	5749837	643284	Outcrop					80% epidote replacement of phenocrysts; non magnetic
HKSB134	5749832	643250	Outcrop					Abundant quartz filled amygdules up to 5 mm diameter; epidote present in matrix and veinlets
HKSB135	5749908	643186	Outcrop					Varying degrees of epidote alteration; 30-40% phenocrysts; surface of outcrop appears leached of color
HKSB135B	5749946	643151	Outcrop					Rare disseminated pyrite; extension of HKSB135
HKSB135C	5749970	643147	Outcrop					Quartz amygdules; extension of HKSB135

Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKSB136	5750008	643118	Outcrop					Amygdules to here from HKSB135C
HKSB137	5750070	643043	Outcrop					Amygdules
HKSB138	5750096	643024	Outcrop					Occasional amygdules (patches) filled with epidote
HKSB139	5750147	643155	Outcrop					Few visible phenocrysts are replaced with epidote; mafic; magnetic
HKSB140	5750570	643149	Outcrop					Feldspar; plagioclase; quartz; very fine disseminated pyrite (<0.5%)
HKSB141	5750501	642905	Outcrop	274	80	fault		Occasional epidote veinlets up to few cm width as well as pink feldspar; very fine grained; no visible phenocrysts; very mafic; possible some augite phenocrysts; magnetic; fault visible; calcite in veins; fault strike 274 dip 80 north slickensided
HKSB142	5750469	643068	Float					Granodiorite
HKSB143	5750416	642850	Outcrop					Very mafic; few epidote veinlets (mm scale)
HKSB144	5750350	642994	Outcrop				659657	Abundant quartz; approximately 1% sulphide (pyrite); clasts of andesite-basalt within outcrop
HKSB145	5750295	643136	Outcrop					Relict phenocrysts filled with epidote (5-10%)
HKSB146	5750007	643253	Outcrop					Augite Porphyry
HKSB147	5750200	642691	Outcrop					80% phenocrysts replaced by epidote
HKSB148	5749893	642423	Outcrop					Abundant epidote
HKSB149	5750161	642796	Float				659659	Quartz veins in float adjacent to andesite-basalt
HKSB150	5750116	642602	Outcrop					Up to 50% phenocrysts subhedral to anhedral about 5% replaced by epidote; pink calcite veins in surrounding float with possible chalcocite and rare malachite; occasional amygdules filled with epidote and calcite
HKSB151	5750072	642772	Float					Happy Creek sample here; <1 cm pink calcite vein with minor bornite
HKSB152	5750007	642824	Outcrop					mm scale calcite veins; epidote and quartz inclusions; 40-50% anhedral to subhedral phenocrysts
HKSB153	5750044	642880	Subcrop					Augite Porphyry; subcrop or float
HKSB154	5751161	642903	Outcrop					40-50% phenocrysts; anhedral to subhedral
HKSB155	5751337	642703	Float					Magnetic; no visible sulphides; quartz; plagioclase; 20% mafics
HKSB156	5751495	642853	Float					Possible contact with Augite Porphyry; decrease in Granodiorite boulders
HKSB157	5751419	643063	Float					Abundant float; no outcrop
HKSB158	5750656	642631	Float					Skarn?; greenish; highly altered; undifferentiated; effervesces; no visible sulphides
HKSB159	5750499	642510	Float					Skarn?; greenish; highly altered; undifferentiated; effervesces; no visible sulphides
HKSB160	5750001	642404	Outcrop					Augite Porphyry/ Andesite Tuff
HKSB161	5750513	642423	Float					Augite Porphyry
HKSB162	5750523	642551	Float					Augite Porphyry
HKSB163	5750456	642582	Float					Augite Porphyry/ Andesite Tuff
HKSB164	5750916	643333	Float					Andesite Tuff
HKSB165	5749871	642258	Outcrop	10	52	bedding		The "Knob" area (trench on East side); appears bedded (mm scale) with a schistose texture on weathered surface; mica present on some bedding planes; very siliceous overall; occasional dark hornblende/augite phenocrysts as well as plagioclase; no apparent sulphides; no calcite; minor epidote in small veinlets; looks like Augite Porphyry or andesite-basalt with abundant silica alteration
HKSB166	5749929	642236	Outcrop					On top of 165 (bedding-wise); abundant malachite visible on surface; chlorite and pink feldspar veins holding pyrite; bornite; chalcocite (also epidote) seem to follow bedding or fracture planes; unit is massive; aphanitic (AB-like); no calcite; slightly magnetic.
HKSB168	5749796	642202	Outcrop					Very fine grained mm phenocrysts (black); nonmagnetic; no effervescing; occasional veins of epidote; minor chalcocite?
HKSB168B	5749885	642175	Outcrop	0	62	foliation		Phenocrysts appear flattened giving strong foliation trend; minor chalcocite??
HKSB168C	5749875	642197	Outcrop					Blue-silver sulphide on some fracture planes (galena); not associated with calcite or K feldspar - chalcocite??; very finely disseminated; <0.5% but occasional increase on some fracture surfaces

Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKSB170	5749878	642249	Outcrop					Change in lithology here to more massive; harder; aphanitic; grey; no sulphides; increase in epidote and feldspar veins and fracture fills. Also thin Hornblende Porphyry Dike here (<1m)
HKSB171	5750081	642186	Outcrop					Dark grey; aphanitic; calcite veinlets; magnetic; minor epidote amygdules (patches)
HKSB172	5747829	643535	Outcrop	0	68	foliation		Slightly magnetic; 20-30% phenocrysts; occasional disseminated pyrite; occasional mm epidote veinlets with associated pyrite
HKSB173	5747761	643666	Outcrop					<1% disseminated pyrite
HKSB174	5747622	643780	Outcrop					Abundant pinkish calcite and quartz veins; rare mineralization in veins; some disseminated pyrite in groundmass
HKSB175	5747576	644172	Outcrop					Contact with brecciated unit here
HKSB176	5747813	641914	Outcrop					Laminated; epidote veins along bedding; very siliceous
HKSB177	5747841	641560	Outcrop					Very siliceous; only calcite veins effervesce
HKSB178	5747888	641495	Outcrop				659658	Highly altered with abundant epidote-chlorite alteration (propylitic?); chalcocite associated with this alteration found on fracture planes and some disseminated in groundmass; altered zone appears only few feet wide then back to very siliceous andesite-basalt
HKSB179	5747908	641452	Outcrop					Laminated tuff with epidote veins along bedding
HKSB179B	5747945	641482	Outcrop					Extension of HKSB179
HKSB180	5747983	641530	Outcrop					Few pink feldspar beds/veins with chlorite-epidote and malachite visible; also minor chalcocite disseminated
HKSB181	5747945	641538	Outcrop					Altered tuff with granitoid appearance (volcanic sandstone??); disseminated chalcocite; abundant chlorite-epidote veining; also pink feldspar veins mostly along bedding; overall greenish tinge due to alteration
HKSB182	5750447	642948	Outcrop				659668	Possible contact with Augite Porphyry and Granodiorite; few flecks of malachite and chalcocite; porphyry has about 30% phenocrysts up to 8mm in length; magnetic; outcrop to subcrop
HKSB183	5750444	642966	Contact					Inferred contact between Granodiorite and Augite Porphyry
HKSB184	5750419	642880	Subcrop					Epidote alteration - lighter green patches/veining; rare malachite specks; some pink K feldspar and calcite in veins
HKSB185	5750593	643124	Subcrop					Granodiorite
HKSB186	5749391	642506	Outcrop					Granodiorite
HKSB187	5749414	642524	Outcrop					Hornblende phenocrysts in eastern most/outside layer of intrusion (Hornblende Granodiorite)
HKSB188	5749420	642548	Outcrop					Pyroxenite/pyroxene diorite; medium to very coarse grained with up to 60% pyroxene; occasional veins of pink/syenite with large hornblende crystals up to 5 cm long; occasional epidote along fracture planes; locally disseminated pyrite up to 5%
HKSB189	5749414	642619	Outcrop					Very coarse grained; veins of pink syenite
HKSB190	5749386	642664	Outcrop					Augite porphyry
HKSB191	5749373	642660	Outcrop					Augite porphyry
HKSB192	5749335	642645	Outcrop					Hornblende granodiorite in contact with pyroxene diorite (which is to the west); patches of epidote up to 60 cm long and 30 cm wide
HKSB193	5749330	642650	Outcrop					Contact between volcanic tuff (very altered) and intrusive; some breccia in contact zone; abundant epidote through matrix and veining; structural contact
HKSB194	5749366	642521	Float					Float sample of Tuff/intrusive contact - not mappable
HKSB195	5748896	643397	Outcrop					Pink syenite
HKSB196	5749095	643218	Outcrop					Tuff/porphyry with epidote patches visible on weathered surface; 2-3% disseminated pyrite.
HKSB197	5749211	643133	Outcrop					Pyroxene diorite in contact with hornblende granodiorite
HKSB198	5749243	643080	Outcrop					Granodiorite
HKSB199	5749295	643172	Outcrop					Granodiorite
HKSB200	5749316	643198	Outcrop					Pyroxene diorite; very mafic; about 5% hornblende

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Station ID	Northing	Easting	Outcrop / Float	Strike	Dip	Type	Assay Sample	Description
HKSB201	5749352	643213	Float					Abundant porphyry float with propylitic alteration
HKSB202	5749398	643175	Outcrop					Fine grained; no phenocrysts; foliation
HKSB203	5749456	643270	Outcrop					Augite phenocrysts; amygdules filled with quartz indicative of lava flows
HKSB204	5749389	643302	Outcrop					Abundant small (<2mm) augite phenocrysts 30-40%
HKSB205	5749374	643312	Outcrop					Same as HKSB203
HKSB206	5749302	643303	Float					Sample has "skarn" alteration on fracture surface showing garnet; pyrite; calcite; epidote
HKSB207	5749183	643301	Float					Several large angular clasts (float?) of granodiorite with up to 5% pyrite
HKSB208	5747965	641428	Outcrop				659669	Correlates to HKSB179
	Propsecting Samples (Happy Creek Minerals Ltd)							
n/a	5749544	642769	Float				322615	
n/a	5749370	643391	Outcrop				322616	
n/a	5749176	643335	Outcrop				322617	
n/a	5748985	643335	Outcrop				322618	
n/a	5748737	643276	Outcrop				322619	
n/a	5748660	643170	Outcrop				322620	1-3 mm veins

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Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKAM001	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM002	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM003	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKAM004	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM005	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM006	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM007	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM008	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKAM009	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM010	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM011	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM012	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM013	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM014	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM015	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM016	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM017	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM018	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM019	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM020	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM021	Granodiorite	Gd					
HKAM022	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM023	Granodiorite	Gd					
HKAM024	Granodiorite	Gd					
HKAM025	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM026	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM027	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM028	Granodiorite	Gd					
HKAM029	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKAM030	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKAM031	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKAM032	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKJD001	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKJD002	Granodiorite	Gd			Propylitic	Prp	
HKJD003	Granodiorite	Gd			Propylitic	Prp	Ser
HKJD004	Granodiorite	Gd			Potassic	Pot	
HKJD005	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKJD005	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Carbonatization	Car	

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Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKMR001	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKMR002	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKMR003	Andesitic Augite Porphyry and Augite-phyric Andesite	At			Silicic	Sil	Car / Oxi
HKMR004	Andesitic Augite Porphyry and Augite-phyric Andesite	At			Carbonatization	Car	Prp / Oxi
HKMR005	Granodiorite	Gd	Chalcocite	Chal	Propylitic	Prp	Car
HKMR006	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Carb
HKMR007	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Car
HKMR008	Skarn	Sk			Silicic	Sil	
HKMR009	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKMR010	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKMR011	Granodiorite	Gd			Propylitic	Prp	
HKMR012	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Chalcopyrite	cp	Unknown	Unk	
HKMR013	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Carbonatization	Car	Oxi
HKMR014	Granodiorite	Gd	Chalcopyrite / Pyrite	cp/py	Propylitic	Prp	
HKMR015	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKMR016	Unknown	Unk	Chalcopyrite / Pyrite	cp,py	Propylitic	Prp	

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Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKMR017	Unknown	Unk	Pyrite	py	Propylitic	Prp	
HKMR018	Unknown	Unk	Pyrite	py	Propylitic	Prp	
HKMR019	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py	Propylitic	Prp	Car
HKMR020	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Car
HKMR021	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Chalcopyrite	cp	Propylitic	Prp	Car / Oxi
HKMR022	Granodiorite	Gd	Pyrite / Chalcopyrite	py,cp	Propylitic	Prp	
HKMR023	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite / Chalcopyrite	py,cp	Propylitic	Prp	
HKMR024	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite / Chalcopyrite / Bornite	py,cp,bo	Carbonatization	Car	Prp
HKMR025	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py			
HKMR026	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	
HKMR027	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKMR028	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	Prp
HKMR029	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Chalcopyrite	cp	Sericitic	Ser	
HKMR030	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Sericitic	Ser	Prp
HKMR031	Granodiorite	Gd	Sphalerite	sp	Propylitic	Prp	

2008 Hawk Field Mapping Stations and Descriptions

Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKMR032	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Sphalerite	sp	Potassic	Pot	Oxi
HKMR033	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Galena	ga	Propylitic	Prp	Sil
HKMR034	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Sil
HKMR035	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKMR036	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKMR037	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Arsenopyrite / Pyrite	ar,py			
HKMR038	Granodiorite	Gd					
HKMR039	Granodiorite	Gd					
HKMR040	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKMR041	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKMR042	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKMR043	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Arsenopyrite / Pyrite	ar,py	Propylitic	Prp	Sil
HKMR044	Granodiorite	Gd					
HKMR045	Granodiorite	Gd					
HKMR046	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Oxi

2008 Hawk Field Mapping Stations and Descriptions

Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKMR047	Granodiorite	Gd	Chalcocite / Sphalerite	cc,sp	Propylitic	Pro	Sil
HKMR048	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Chalcocite	Chal	Potassic	Pot	
HKMR049	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Pot
HKMR050	Granodiorite	Gd			Propylitic	Prp	
HKMR051	Andesitic Volcanic Conglomerate	Vc	Chalcocite	cc	Argillic	Arg	
HKMR052	Andesitic Volcanic Conglomerate	Vc			Oxidation	Oxi	
HKMR053	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKMR054	Granodiorite	Gd					
HKMR055	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKMR056	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Chalcocite	cc	Silicic	Sil	Prp
HKMR057	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKMR058	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKMR059	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Cuprite / Chalcocite	ct,cc	Propylitic	Prp	Sil
HKMR060	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Cuprite / Chalcocite	ct,cc	Propylitic	Prp	

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Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKMR061	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Chalcocite / Bornite	cc,bo	Propylitic	Prp	Sil / Ser
HKMR062	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Covellite	cv	Propylitic	Prp	Pot / Ser
HKMR063	Unknown	Unk			Potassic	Pot	
HKMR064	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Chalcocite	cc	Propylitic	Prp	
HKMR065	Granodiorite	Gd					
HKMR066	Granodiorite	Gd	Chalcocite	cc	Propylitic	Prp	Sil
HKMR067	Andesitic Volcanic Conglomerate	Vc			Propylitic	Prp	
HKMR068	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Chalcocite	cc	Carbonatization	Car	
HKMR069	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Car
HKMR072	Granodiorite	Gd					
HKMR075	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Chalcocite	cc	Propylitic	Prp	Car
HKMR076	Granodiorite	Gd			Propylitic	Prp	
HKMR077	Granodiorite	Gd			Propylitic	Prp	
HKMR078	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKMR079	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKMR080	Granodiorite	Gd			Propylitic	Prp	
HKMR081	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKMR082	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKMR083	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKMR084	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	

Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKMR085	Granodiorite	Gd					
HKMR086	Granodiorite	Gd					
HKMR087	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKMR088	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKMR089	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKMR090	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Silicic	Sil	
HKMR091	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKMR092	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKMR093	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKMR094	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKMR095	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKMR096	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKMR097	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Silicic	Sil	
HKMR098	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Chalcocite	cc	Oxidation	Oxi	Pot
HKMR099	Granodiorite	Gd			Propylitic	Prp	
HKMR100	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Pot
HKMR101	Granodiorite	Gd			Propylitic	Prp	
HKMR102	Unknown	Unk					
HKMR103	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKMR104	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Sil
HKMR105	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Malachite	ma	Propylitic	Prp	Sil
HKMR106	Hornblendite Dike	Hd			Propylitic	Prp	

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Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKMR107	Hornblendite Dike	Hd			Propylitic	Prp	Sil
HKMR108	Hornblendite Dike	Hd			Propylitic	Prp	
HKMR109	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Pot
HKMR110	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Pot
HKMR111	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Pot
HKMR114	Granodiorite	Gd					
HKMR115	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py			
HKMR116	Granodiorite	Gd					
HKMR118	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Carbonatization	Car	
HKMR119	Syenite	Sy					
HKMR120	Syenite	Sy					
HKMR121	Syenite	Sy					
HKMR122	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKMR123	Hawk 07-02						
HKMR124	Hawk 07-03						
HKMR125	Hawk 07-01						
HKSB001	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB002	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB003	Granodiorite	Gd			Silicic	Sil	
HKSB004	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Car
HKSB005	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB006	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB007	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB008	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB009	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Sil
HKSB010	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Sil
HKSB011	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB012	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicic	Sil	
HKSB013	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB014	Granodiorite	Gd	Pyrrhotite	po	Silicic	Sil	
HKSB015	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Arsenopyrite	ar	Propylitic	Prp	
HKSB016	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					

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Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKSB017	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Carbonatization	Car	
HKSB018	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB019	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB020	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB021	Granodiorite	Gd					
HKSB022	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB023	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Sil
HKSB024	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Car
HKSB025	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Ox
HKSB026	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Sil
HKSB027	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Car
HKSB028	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB029	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py	Propylitic	Prp	Car
HKSB030	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py	Propylitic	Prp	
HKSB031	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB032	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB033	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB034	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB035	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py			
HKSB036	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB037	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Arsenopyrite	ar	Propylitic	Prp	Sil
HKSB038	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB039	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	
HKSB040	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Ox
HKSB041	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB042	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Car
HKSB043	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Car
HKSB044	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	

2008 Hawk Field Mapping Stations and Descriptions

Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKSB045	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Car
HKSB046	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py	Propylitic	Prp	
HKSB047	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Car
HKSB048	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB049	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Car
HKSB050	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Car
HKSB051	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Car
HKSB052	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB053	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Car
HKSB054	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB055	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Silicic	Sil	
HKSB056	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB057	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB058	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Car
HKSB059	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB060	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Sil
HKSB061	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Potassic	Pot	
HKSB062	Granodiorite	Gd	Pyrite	py	Silicic	Sil	Car / Prp
HKSB063	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB063B	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB064	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB065	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py	Propylitic	Prp	
HKSB065B	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB065C	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB066	Granodiorite	Gd					
HKSB067	Granodiorite	Gd	Arsenopyrite / Pyrite	ar,py			
HKSB067B	Granodiorite	Gd	Arsenopyrite / Pyrite	ar,py			
HKSB067C	Granodiorite	Gd					
HKSB068	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py			
HKSB069	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB070	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Potassic	Pot	

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Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKSB071	Basalt	Ba					
HKSB072	Granodiorite	Gd	Pyrite	py			
HKSB073	Granodiorite	Gd			Propylitic	Prp	
HKSB074	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py			
HKSB075	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py	Sericitic	Ser	Sil
HKSB076	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Sericitic	Ser	Sil
HKSB077	Andesite Tuff and Andesitic Augite Crystal Tuff	Ap					
HKSB078	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB079	Syenite	Sy	Pyrite	py			
HKSB080	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py			
HKSB081	Syenite	Sy					
HKSB083	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB084	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py			
HKSB085	Granodiorite	Gd					
HKSB086	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB087	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB088	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB089	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	Pot
HKSB090	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB091	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB092	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py			
HKSB093	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB094	Granodiorite	Gd					
HKSB094B	Granodiorite	Gd					
HKSB095	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB096	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB097	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			None	Non	
HKSB098	Granodiorite	Gd					
HKSB099	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB100	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB101	Granodiorite	Gd					
HKSB102	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB103	Syenite	Sy	Arsenopyrite / Pyrite	ar,py			
HKSB104	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB105	Granodiorite	Gd					
HKSB106	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB106B	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB107	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB108	Granodiorite	Gd	Pyrite	py	Propylitic	Prp	
HKSB108B	Granodiorite	Gd	Pyrite	py	Propylitic	Prp	
HKSB109	Granodiorite	Gd					
HKSB109B	Granodiorite	Gd					

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Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKSB110	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB111	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Arsenopyrite / Pyrite	ar,py			
HKSB111B	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Arsenopyrite / Pyrite	ar,py			
HKSB111C	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Arsenopyrite / Pyrite	ar,py			
HKSB112	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB112B	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB112C	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB112D	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB113	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB115	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB116	Granodiorite	Gd					
HKSB117	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB117B	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB117C	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB118	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB118B	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB118C	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB118D	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB120	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB121	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py	Silicic	Sil	
HKSB122	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB122B	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB123	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicic	Sil	
HKSB124	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB125	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB126	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB126B	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py	Propylitic	Prp	
HKSB126C	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py	Propylitic	Prp	
HKSB127	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB128	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB128B	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB129	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB130	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Potassic	Pot	
HKSB130B	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Potassic	Pot	
HKSB131	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB132	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py	Silicic	Sil	
HKSB133	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB134	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Sil
HKSB135	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB135B	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py	Propylitic	Prp	
HKSB135C	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicic	Sil	Prp

2008 Hawk Field Mapping Stations and Descriptions

Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKSB136	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicic	Sil	
HKSB137	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicic	Sil	
HKSB138	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Silicic	Sil	Prp
HKSB139	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB140	Granodiorite	Gd	Pyrite	py	Silicic	Sil	
HKSB141	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Car
HKSB142	Granodiorite	Gd					
HKSB143	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB144	Granodiorite	Gd	Pyrite	py	Silicic	Sil	
HKSB145	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB146	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB147	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB148	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB149	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB150	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Chalcocite	Chal	Propylitic	Prp	Car
HKSB151	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Bornite	bo	Carbonatization	Car	
HKSB152	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Carbonatization	Car	Prp / Sil
HKSB153	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB154	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB155	Granodiorite	Gd			Silicic	Sil	
HKSB156	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB157	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB158	Skarn	Sk			Silicic	Sil	
HKSB159	Skarn	Sk			Silicic	Sil	
HKSB160	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB161	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB162	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB163	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB164	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB165	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicic	Sil	Prp
HKSB166	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Bornite / Chalcocite	bo.cc	Propylitic	Prp	Pot
HKSB168	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Chalcocite	cc	Propylitic	Prp	
HKSB168B	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Chalcocite	cc			
HKSB168C	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Galena / Chalcocite	ga, cc			

2008 Hawk Field Mapping Stations and Descriptions

Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKSB170	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Pot
HKSB171	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	Prp
HKSB172	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py	Propylitic	Prp	
HKSB173	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py			
HKSB174	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py	Carbonatization	Car	Sil
HKSB175	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB176	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Sil
HKSB177	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Silicic	Sil	Car
HKSB178	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Chalcocite	cc	Propylitic	Prp	
HKSB179	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB179B	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB180	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Malachite / Chalcocite	ma,cc	Propylitic	Prp	
HKSB181	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Chalcocite	cc	Propylitic	Prp	Pot
HKSB182	Granodiorite	Gd	Malachite / Chalcocite	ma,cc			
HKSB183	Granodiorite	Gd					
HKSB184	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Malachite	ma	Propylitic	Prp	Pot
HKSB185	Granodiorite	Gd					
HKSB186	Granodiorite	Gd					
HKSB187	Granodiorite	Gd					
HKSB188	Granodiorite	Gd			Propylitic	Prp	
HKSB189	Granodiorite	Gd					
HKSB190	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB191	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB192	Granodiorite	Gd			Propylitic	Prp	
HKSB193	Granodiorite	Gd			Propylitic	Prp	
HKSB194	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB195	Syenite	Sy					
HKSB196	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HKSB197	Granodiorite	Gd					
HKSB198	Granodiorite	Gd					
HKSB199	Granodiorite	Gd					
HKSB200	Granodiorite	Gd					

2008 Hawk Field Mapping Stations and Descriptions

Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HKSB201	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HKSB202	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HKSB203	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicic	Sil	
HKSB204	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HKSB205	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicic	Sil	
HKSB206	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py	Silicic	Sil	Car / Prp
HKSB207	Granodiorite	Gd	Pyrite	py			
HKSB208	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
n/a	Augite porphyry	Ap			Potassic	Pot	
n/a	Basalt	Basalt	Pyrite, Chalcopyrite	1 py, tr cp	Potassic	Pot	Prp
n/a	Hornblende Granodiorite	Hbl Gd	Pyrite, Chalcopyrite	2.5 py, tr cp	Propylitic	Prp	Sil
n/a	Quartz Diorite	QD	Pyrite, Chalcopyrite	0.5 py, tr cp	Potassic	Pot	
n/a	Quartz Monzonite	QMz	Pyrite, Chalcopyrite	0.5 py, tr cp	Potassic	Pot	Prp
n/a	Augite porphyry / Volcanic Breccia	ApVbx	Chalcopyrite	tr cp	Calc-Silicate	Calc-Sil	Sil

APPENDIX H
GEOCHEMICAL SURVEY SOIL AND ROCK RESULTS

Sample	Easting	Northing	Mo_ppm	Cu_ppm	Cu_%	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_%	As_ppm	U_ppm	Au_ppb	Au_g/t	Th_ppm	Sr_ppm	Cd_ppm
L-32N 06+50E	641489	5748241	0.7	24.30	0.00	4.2	40	0.10	19.2	10.7	202	1.94	1.2	0.4	3.80	0.004	1.7	24	0.1
L-32N 07+00E	641536	5748227	0.6	19.30	0.00	6.7	103	0.20	20.3	9.9	368	2.00	2.0	0.4	0.70	0.001	1.9	18	0.3
L-32N 07+50E	641583	5748212	0.6	19.80	0.00	5.5	95	0.10	18.8	10.0	395	1.90	1.3	0.3	5.10	0.005	1.7	18	0.2
L-32N 08+00E	641630	5748198	0.7	19.30	0.00	4.6	73	0.10	26.7	10.6	246	2.23	2.2	0.4	0.70	0.001	2.2	17	0.2
L-32N 08+50E	641677	5748183	0.5	29.30	0.00	4.6	90	0.05	24.6	11.9	269	2.38	1.8	0.4	1.90	0.002	2.0	22	0.1
L-32N 09+00E	641724	5748169	1.0	19.60	0.00	5.9	53	0.10	15.4	8.4	182	1.68	0.6	0.3	3.50	0.004	1.4	12	0.1
L-32N 09+50E	641771	5748154	0.7	26.40	0.00	5.4	180	0.10	25.1	14.2	374	2.78	2.3	0.4	1.70	0.002	2.0	47	0.2
L-32N 10+00E	641818	5748140																	
L-32N 10+50E	641865	5748125	0.5	12.80	0.00	6.8	71	0.10	19.2	9.5	167	1.77	1.2	0.2	2.50	0.003	1.2	19	0.2
L-32N 11+00E	641912	5748110	0.5	16.50	0.00	5.0	161	0.20	21.7	11.6	318	2.13	1.6	0.3	0.20	0.001	1.4	24	0.3
L-32N 11+50E	641959	5748096	0.6	28.80	0.00	5.9	85	0.20	24.6	12.2	352	2.44	1.9	0.4	0.20	0.001	1.8	56	0.3
L-32N 12+00E	642006	5748081	0.4	24.10	0.00	5.8	68	0.10	28.6	12.0	232	2.43	1.3	0.5	0.60	0.001	1.4	33	0.2
L-32N 12+50E	642053	5748067	0.5	31.80	0.00	4.4	67	0.20	25.0	9.7	267	1.83	1.1	0.4	0.20	0.001	1.8	18	0.2
L-32N 13+00E	642100	5748052	0.5	23.40	0.00	4.1	87	0.10	24.9	11.6	261	2.04	1.4	0.3	1.40	0.001	1.9	21	0.3
L-32N 13+50E	642147	5748038	0.5	17.00	0.00	4.3	104	0.05	19.6	10.9	410	1.78	1.2	0.2	0.20	0.001	1.0	15	0.2
L-32N 14+00E	642194	5748023	0.5	19.30	0.00	4.1	99	0.20	24.3	11.1	332	2.01	1.4	0.3	1.20	0.001	1.4	16	0.2
L-32N 14+50E	642241	5748009	0.4	27.80	0.00	4.5	82	0.10	26.8	12.4	294	2.13	1.0	0.2	4.80	0.005	1.1	24	0.2
L-32N 15+00E	642288	5747994	0.4	46.90	0.00	3.4	61	0.10	35.0	15.2	323	2.59	1.4	0.3	1.70	0.002	1.4	25	0.1
L-32N 15+50E	642336	5747976																	
L-32N 16+00E	642384	5747958																	
L-32N 16+50E	642441	5747937	0.5	25.40	0.00	4.6	72	0.10	24.6	12.8	323	2.01	1.2	0.3	1.00	0.001	1.5	20	0.1
L-32N 17+00E	642479	5747923	0.4	21.80	0.00	4.7	75	0.10	23.7	10.4	283	1.74	0.8	0.2	1.00	0.001	1.5	16	<0.1
L-32N 17+50E	642527	5747905	0.5	54.10	0.01	2.6	102	0.10	25.7	23.6	394	3.26	1.1	0.1	0.80	0.001	0.4	25	<0.1
L-32N 18+00E	642575	5747887	0.6	30.00	0.00	5.7	111	0.20	34.3	14.7	412	2.47	1.4	0.3	16.40	0.016	1.7	18	0.2
L-32N 18+50E	642623	5747869	0.6	17.40	0.00	5.1	78	0.05	14.5	7.0	479	1.33	0.9	0.2	0.60	0.001	0.8	15	0.1
L-32N 19+00E	642670	5747852	1.0	83.80	0.01	3.3	93	0.10	31.4	26.7	408	3.16	2.0	0.1	0.20	0.001	0.5	23	0.1
L-32N 19+50E	642718	5747834	1.6	134.30	0.01	2.6	110	0.10	38.5	30.4	754	5.05	2.0	<0.1	0.60	0.001	0.3	26	<0.1
L-32N 20+00E	642766	5747816	0.5	37.90	0.00	4.2	69	0.05	27.2	14.8	367	2.31	1.3	0.2	0.80	0.001	1.2	16	0.1
L-32N 20+50E	642813	5747802	0.3	107.40	0.01	0.8	82	0.05	36.2	32.1	526	3.91	1.1	0.1	0.20	0.001	0.2	40	<0.1
L-32N 21+00E	642860	5747787	0.5	41.60	0.00	4.1	70	0.10	41.9	16.8	258	2.58	3.5	0.3	0.90	0.001	1.6	18	0.1
L-32N 21+50E	642907	5747773	0.5	63.30	0.01	2.8	68	0.05	32.3	22.2	450	3.07	0.5	0.1	0.20	0.001	0.5	25	<0.1
L-32N 22+00E	642954	5747759	0.4	48.00	0.00	3.0	67	0.05	27.9	20.4	333	2.37	0.9	0.1	0.20	0.001	0.4	19	<0.1
L-32N 22+50E	643001	5747744	0.4	171.20	0.02	3.8	66	0.05	39.3	18.9	364	2.56	1.2	0.2	0.20	0.001	0.9	19	<0.1
L-32N 23+00E	643048	5747730	0.4	40.30	0.00	3.5	81	0.05	28.8	16.9	456	2.73	1.0	0.2	5.70	0.006	1.0	19	<0.1
L-32N 23+50E	643095	5747716	0.2	189.30	0.02	2.2	73	0.10	58.1	23.8	347	3.41	1.3	0.1	0.20	0.001	0.5	19	<0.1
L-32N 24+00E	643142	5747702	0.5	128.60	0.01	4.4	99	0.10	25.8	27.7	1096	4.65	0.9	0.2	2.20	0.002	0.7	24	0.1
L-32N 24+50E	643189	5747687	0.7	31.70	0.00	4.5	102	0.10	40.3	13.2	431	2.41	1.0	0.2	1.00	0.001	0.8	19	0.1
L-32N 25+00E	643236	5747673	0.6	37.90	0.00	3.7	79	0.05	39.0	15.3	268	2.77	1.0	0.2	0.90	0.001	1.4	15	0.1
L-34N 07+25E	641667	5748330																	
L-34N 07+50E	641667	5748355																	
L-34N 08+00E	641737	5748331	0.8	21.50	0.00	4.1	36	0.05	18.2	9.1	146	1.93	1.1	0.2	0.60	0.001	1.0	18	<0.1
L-34N 08+50E	641782	5748331	0.6	30.20	0.00	6.8	93	0.20	30.8	12.8	251	2.39	2.2	0.3	1.10	0.001	1.6	26	0.3
L-34N 09+00E	641828	5748332	0.4	31.80	0.00	3.7	100	0.10	30.4	12.0	271	2.16	1.9	0.3	0.20	0.001	1.8	23	0.2
L-34N 09+50E	641873	5748332	0.4	15.30	0.00	4.2	109	0.10	19.9	8.9	498	1.60	1.1	0.2	0.20	0.001	1.2	16	0.2
L-34N 10+00E	641918	5748333	0.7	29.00	0.00	3.4	72	0.10	26.3	12.9	532	2.18	2.2	0.3	1.90	0.002	2.1	22	0.2
L-34N 10+50E	641964	5748317	0.6	18.70	0.00	4.2	76	0.10	21.8	9.6	242	1.89	1.4	0.3	1.30	0.001	1.3	17	0.2
L-34N 11+00E	642010	5748301	0.5	22.40	0.00	3.8	91	0.20	25.1	11.2	237	1.90	1.4	0.3	1.30	0.001	1.4	19	0.2
L-34N 11+50E	642056	5748286	0.5	20.40	0.00	3.6	65	0.10	20.5	10.2	309	1.92	1.1	0.3	1.50	0.002	1.3	19	0.2
L-34N 12+00E	642102	5748270	0.6	24.00	0.00	4.9	126	0.20	33.9	13.5	263	2.31	1.8	0.4	7.20	0.007	2.3	16	0.2
L-34N 12+50E	642148	5748254	0.7	92.30	0.01	4.2	107	0.10	21.9	14.1	392	2.24	1.4	0.3	0.90	0.001	1.2	16	<0.1
L-34N 13+00E	642194	5748238	0.7	29.90	0.00	6.3	77	0.20	28.9	12.4	270	2.29	2.4	0.4	0.80	0.001	1.5	17	0.1
L-34N 13+50E	642240	5748222	0.6	29.60	0.00	5.0	102	0.20	32.5	13.5	238	2.41	2.0	0.3	0.20	0.001	1.5	20	0.2
L-34N 14+00E	642286	5748207	0.5	19.70	0.00	4.1	80	0.10	25.4	11.6	326	2.15	2.1	0.3	1.00	0.001	1.7	19	0.2
L-34N 14+50E	642332	5748191	0.7	23.70	0.00	9.0	84	0.05	26.6	11.3	388	2.38	2.1	0.4	0.20	0.001	1.9	19	<0.1
L-34N 15+00E	642378	5748175	0.6	23.30	0.00	4.8	92	0.20	30.9	12.5	350	2.30	1.8	0.3	0.60	0.001	1.7	21	0.1
L-34N 15+50E	642424	5748157	0.7	21.40	0.00	4.8	107	0.10	22.3	10.7	502	1.96	1.5	0.3	0.90	0.001	1.6	20	0.2
L-34N 16+00E	642470	5748140	0.7	19.10	0.00	5.3	135	0.20	25.2	14.0	229	2.46	1.6	0.4	2.30	0.002	1.4	22	0.2

Sample	Easting	Northing	Mo_ppm	Cu_ppm	Cu_%	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_%	As_ppm	U_ppm	Au_ppb	Au_g/t	Th_ppm	Sr_ppm	Cd_ppm
L-34N 16+50E	642517	5748122	0.5	45.20	0.00	2.8	106	0.05	30.3	20.0	439	2.65	1.8	0.1	0.20	0.001	0.6	25	0.1
L-34N 17+00E	642563	5748105	0.5	33.10	0.00	4.0	100	0.10	36.2	15.3	363	2.21	1.7	0.2	0.20	0.001	1.4	21	0.2
L-34N 17+50E	642609	5748087	0.5	53.80	0.01	4.1	126	0.20	40.7	17.8	445	2.50	1.7	0.3	1.10	0.001	1.5	21	0.2
L-34N 18+00E	642655	5748069	0.5	30.00	0.00	4.0	107	0.20	31.9	13.8	317	1.86	0.8	0.2	1.20	0.001	1.0	20	0.2
L-34N 18+50E	642701	5748052	0.7	29.90	0.00	5.4	142	0.20	39.7	15.4	303	2.39	1.3	0.3	0.50	0.001	1.6	17	0.1
L-34N 19+00E	642748	5748034	0.6	35.20	0.00	4.4	100	0.10	32.4	17.0	475	2.34	1.1	0.2	0.70	0.001	0.9	16	0.2
L-34N 19+50E	642794	5748017	0.4	13.90	0.00	4.9	114	0.05	19.7	11.5	449	1.71	0.9	0.2	0.20	0.001	0.9	17	0.1
L-34N 20+00E	642840	5747999	0.5	97.50	0.01	4.2	71	0.30	37.3	16.6	307	2.79	2.3	0.3	1.40	0.001	1.8	27	0.2
L-34N 20+50E	642887	5747983	0.9	315.80	0.03	8.4	103	0.70	75.3	17.4	941	3.64	3.1	0.4	4.70	0.005	2.1	41	0.4
L-34N 21+00E	642934	5747968	0.5	42.50	0.00	4.5	85	0.10	23.8	11.6	251	1.93	1.3	0.2	0.20	0.001	1.0	12	<0.1
L-34N 21+50E	642981	5747952	0.5	62.20	0.01	3.6	95	0.10	50.9	22.6	478	2.96	1.8	0.3	1.80	0.002	1.0	23	0.1
L-34N 22+00E	643028	5747937	0.6	20.40	0.00	3.9	65	0.10	24.1	10.8	219	1.95	1.4	0.3	12.50	0.013	1.8	14	<0.1
L-34N 22+50E	643076	5747921	0.6	20.20	0.00	4.1	104	0.20	26.1	12.8	260	2.23	1.6	0.4	3.90	0.004	2.1	17	0.1
L-34N 23+00E	643123	5747905	0.6	16.70	0.00	5.3	65	0.20	13.7	7.6	470	1.57	1.3	0.2	0.80	0.001	0.8	16	0.2
L-34N 23+50E	643170	5747890	0.5	31.80	0.00	5.1	66	0.20	30.0	10.5	253	1.99	1.1	0.3	0.60	0.001	1.3	17	0.1
L-34N 24+00E	643217	5747874	0.8	24.10	0.00	5.7	91	0.05	28.8	13.8	252	2.19	1.1	0.2	0.20	0.001	1.0	16	0.2
L-34N 24+50E	643264	5747859	0.4	30.20	0.00	5.6	111	0.10	52.4	17.2	592	2.77	0.8	0.2	0.80	0.001	0.9	22	0.5
L-34N 25+00E	643311	5747843	0.7	26.40	0.00	4.6	98	0.05	36.3	14.2	388	2.33	1.5	0.3	1.30	0.001	1.3	15	0.1
L-36N 04+00E	641393	5748665	0.6	10.30	0.00	5.0	114	0.05	10.9	6.1	477	1.29	0.9	0.3	0.20	0.001	1.0	27	0.3
L-36N 04+50E	641440	5748650	0.3	23.60	0.00	4.2	91	0.10	12.4	8.4	298	1.30	0.7	0.2	0.20	0.001	0.9	14	<0.1
L-36N 05+00E	641488	5748636	0.3	13.50	0.00	3.0	58	0.05	19.1	8.8	255	1.50	0.9	0.2	0.20	0.001	1.2	14	<0.1
L-36N 05+50E	641535	5748621	0.3	35.40	0.00	4.1	110	0.10	26.9	10.5	260	1.77	1.3	0.3	0.20	0.001	1.4	15	0.2
L-36N 06+00E	641582	5748607	0.4	38.50	0.00	4.3	84	0.10	25.3	11.1	228	1.84	1.4	0.3	1.00	0.001	1.6	14	0.2
L-36N 06+50E	641630	5748592	0.3	68.70	0.01	3.6	118	0.10	17.2	13.3	375	1.61	1.2	0.2	0.20	0.001	1.0	15	0.1
L-36N 07+00E	641677	5748578	0.4	23.80	0.00	3.7	66	0.05	18.5	10.1	309	1.67	1.2	0.2	1.60	0.002	1.4	12	0.1
L-36N 07+50E	641724	5748563	0.5	31.90	0.00	5.0	94	0.10	17.0	10.1	283	1.77	1.3	0.3	0.20	0.001	1.3	16	0.2
L-36N 08+00E	641772	5748548	0.7	86.10	0.01	8.5	69	0.50	46.8	14.8	952	3.16	2.5	0.4	1.60	0.002	2.5	31	0.3
L-36N 08+50E	641819	5748534	0.5	20.90	0.00	5.1	116	0.10	31.0	11.5	237	2.01	2.2	0.2	0.20	0.001	1.6	10	0.2
L-36N 09+00E	641866	5748519	0.6	59.60	0.01	5.1	52	0.30	32.0	14.2	873	2.94	3.7	0.5	1.30	0.001	1.9	29	0.1
L-36N 09+50E	641914	5748505	0.4	15.60	0.00	3.8	87	0.05	22.0	10.1	501	1.71	1.2	0.3	0.20	0.001	1.5	14	0.2
L-36N 10+00E	641961	5748490	0.5	17.60	0.00	3.4	71	0.10	21.1	11.4	230	1.89	1.6	0.3	0.20	0.001	1.5	12	0.2
L-36N 10+50E	642008	5748474	0.6	17.20	0.00	4.3	95	0.30	25.7	11.4	320	1.83	1.8	0.4	0.20	0.001	1.4	14	0.2
L-36N 11+00E	642055	5748458	0.6	17.70	0.00	5.2	71	0.20	17.8	9.5	356	1.66	1.7	0.3	2.00	0.002	1.3	14	0.2
L-36N 11+50E	642103	5748443	0.4	46.00	0.00	5.0	60	0.10	29.1	12.5	243	2.24	1.5	0.4	0.20	0.001	1.4	19	0.2
L-36N 12+00E	642150	5748427	0.5	105.90	0.01	6.3	89	0.40	45.2	17.5	1067	2.92	2.2	0.4	0.70	0.001	1.7	37	0.5
L-36N 12+50E	642197	5748411	0.6	79.20	0.01	4.7	66	0.40	40.2	19.7	526	3.31	2.4	0.6	3.00	0.003	1.6	26	0.3
L-36N 13+00E	642244	5748395	0.7	52.50	0.01	4.6	47	0.20	33.2	20.4	538	3.14	2.9	0.4	1.20	0.001	2.0	29	0.2
L-36N 13+50E	642291	5748379	0.7	26.60	0.00	5.6	137	0.30	30.7	13.7	363	2.33	2.1	0.3	0.20	0.001	1.3	12	0.2
L-36N 14+00E	642339	5748364	0.6	49.40	0.00	5.0	148	0.20	37.8	20.0	409	3.08	4.3	0.3	0.20	0.001	1.2	21	0.3
L-36N 14+50E	642386	5748348	0.5	27.70	0.00	5.3	119	0.10	27.9	16.8	335	2.58	2.4	0.3	0.20	0.001	1.4	19	0.3
L-36N 15+00E	642433	5748332	0.6	39.00	0.00	4.5	82	0.30	31.0	15.4	262	2.57	2.6	0.3	1.10	0.001	1.6	16	0.2
L-36N 15+50E	642480	5748317	0.6	39.60	0.00	3.3	48	0.05	37.6	19.3	329	2.96	3.1	0.3	7.80	0.008	1.4	22	0.1
L-36N 16+00E	642527	5748303	0.8	34.00	0.00	5.3	108	0.20	36.5	18.6	308	2.81	2.5	0.3	1.10	0.001	1.5	21	0.3
L-36N 16+50E	642574	5748288	0.6	41.70	0.00	4.4	90	0.20	36.1	17.6	274	2.51	2.2	0.3	0.20	0.001	1.5	15	0.2
L-36N 17+00E	642621	5748273	0.2	50.90	0.01	2.9	60	0.10	29.0	17.0	291	2.39	0.9	0.1	0.20	0.001	0.7	14	0.1
L-36N 17+50E	642668	5748258	0.5	46.90	0.00	3.2	71	0.05	43.1	17.1	288	2.07	1.1	0.2	0.20	0.001	0.8	11	0.2
L-36N 18+00E	642714	5748244	0.8	33.00	0.00	5.5	58	0.10	25.9	13.8	292	1.72	1.2	0.1	0.20	0.001	0.6	10	<0.1
L-36N 18+50E	642761	5748229	0.5	37.60	0.00	4.3	91	0.20	28.6	17.1	487	2.25	1.0	0.1	0.20	0.001	0.7	13	0.1
L-36N 19+00E	642808	5748214	0.7	86.50	0.01	4.2	90	0.20	38.0	18.0	333	3.01	2.1	0.2	0.20	0.001	1.3	16	0.2
L-36N 19+50E	642855	5748200	0.3	89.30	0.01	2.9	104	0.10	47.9	27.3	694	4.00	0.8	<0.1	1.90	0.002	0.4	12	0.1
L-36N BL 20+00E	642902	5748185	0.4	40.40	0.00	4.2	65	0.05	29.0	17.6	316	2.79	1.5	0.2	0.20	0.001	0.9	10	0.1
L-36N 20+50E	642949	5748170	0.6	63.60	0.01	4.8	67	0.10	32.8	15.7	390	2.75	1.4	0.2	0.20	0.001	0.9	12	<0.1
L-36N 21+00E	642997	5748155	0.7	136.10	0.01	2.3	64	0.05	29.5	23.5	380	4.18	2.1	0.1	2.50	0.003	0.8	15	<0.1
L-36N 21+50E	643044	5748139	0.6	14.10	0.00	4.6	92	0.10	25.0	11.1	311	1.95	1.7	0.3	2.50	0.003	1.8	12	0.3
L-36N 22+00E	643092	5748124	0.7	52.60	0.01	4.3	32	0.05	39.7	17.2	232	2.15	1.6	0.4	0.90	0.001	1.9	16	<0.1
L-36N 22+50E	643139	5748109	0.5	23.50	0.00	4.1	41	0.10	31.8	13.7	296	2.14	1.3	0.4	1.30	0.001	2.3	20	<0.1
L-36N 23+00E	643186	5748094																	

Sample	Easting	Northing	Mo_ppm	Cu_ppm	Cu_%	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_%	As_ppm	U_ppm	Au_ppb	Au_g/t	Th_ppm	Sr_ppm	Cd_ppm
L-36N 23+50E	643234	5748079	0.3	90.00	0.01	4.7	46	0.05	70.9	21.8	336	3.49	2.6	0.5	11.90	0.012	2.9	31	0.1
L-36N 24+00E	643281	5748063	1.4	135.20	0.01	4.6	89	0.40	67.4	23.3	390	3.71	2.6	0.4	2.70	0.003	1.7	32	0.3
L-36N 24+50E	643329	5748048	0.5	24.40	0.00	3.5	90	0.05	46.2	15.1	313	2.45	0.9	0.3	3.60	0.004	1.7	13	0.2
L-36N 25+00E	643376	5748033	0.3	11.80	0.00	2.8	48	0.10	32.9	9.3	134	1.73	1.0	0.4	0.70	0.001	2.4	10	<0.1
L-38N 04+00E	641465	5748874	0.5	56.80	0.01	4.5	79	0.40	33.3	14.2	380	2.44	1.8	0.3	2.70	0.003	2.0	49	0.3
L-38N 04+50E	641515	5748857	0.4	21.60	0.00	4.3	85	0.20	20.9	9.2	218	1.63	1.1	0.3	182.30	0.182	1.0	14	0.1
L-38N 05+00E	641565	5748840	0.4	18.60	0.00	3.7	61	0.05	16.3	7.9	280	1.53	1.0	0.2	0.20	0.001	1.1	14	0.1
L-38N 05+50E	641612	5748824	0.5	66.50	0.01	3.4	55	0.20	27.9	14.8	319	2.49	1.6	0.4	2.20	0.002	1.8	22	0.1
L-38N 06+00E	641659	5748809	0.7	47.80	0.00	5.2	83	0.05	27.3	11.6	268	2.87	4.9	0.7	1.60	0.002	2.1	20	0.1
L-38N 06+50E	641706	5748794	0.4	32.20	0.00	4.3	117	0.10	29.8	13.8	300	2.19	2.1	0.3	1.20	0.001	1.6	16	0.1
L-38N 07+00E	641753	5748778	0.3	24.40	0.00	3.4	83	0.05	22.2	9.9	239	1.65	0.9	0.2	5.40	0.005	1.0	14	0.1
L-38N 07+50E	641800	5748762	0.3	18.50	0.00	4.7	98	0.10	17.5	7.8	341	1.47	0.8	0.2	1.40	0.001	1.0	14	0.1
L-38N 08+00E	641847	5748747	0.4	17.60	0.00	3.4	56	0.05	19.9	8.8	268	1.58	1.0	0.2	0.80	0.001	1.4	14	<0.1
L-38N 08+50E	641894	5748732	0.5	28.60	0.00	3.7	77	0.05	22.2	11.0	463	2.06	0.9	0.2	0.80	0.001	1.3	22	<0.1
L-38N 09+00E	641941	5748716	0.3	11.10	0.00	4.1	73	0.05	14.8	7.2	370	1.48	0.7	0.2	0.70	0.001	1.0	15	0.1
L-38N 09+50E	641988	5748700	0.6	97.40	0.01	4.6	89	0.30	40.9	16.3	775	3.30	2.3	0.5	2.30	0.002	1.6	27	0.3
L-38N 10+00E	642035	5748685	0.4	20.80	0.00	3.3	47	0.05	19.6	9.0	222	1.58	1.2	0.2	0.90	0.001	0.8	13	0.1
L-38N 10+50E	642082	5748670	0.4	20.80	0.00	3.4	90	0.05	24.4	10.9	380	1.83	1.2	0.2	0.20	0.001	0.9	16	0.1
L-38N 11+00E	642129	5748655	0.6	31.20	0.00	4.9	83	0.20	25.4	10.4	429	1.98	1.7	0.4	1.10	0.001	1.7	23	0.3
L-38N 11+50E	642175	5748640	0.5	16.90	0.00	2.8	67	0.05	19.2	8.2	298	1.70	1.4	0.3	2.30	0.002	1.6	14	0.2
L-38N 12+00E	642222	5748625	0.4	15.60	0.00	4.5	82	0.20	13.7	9.3	336	1.60	0.8	0.2	1.50	0.002	1.0	15	<0.1
L-38N 12+50E	642269	5748610	0.5	24.70	0.00	3.5	97	0.05	18.0	9.3	370	1.65	1.0	0.2	2.40	0.002	1.0	12	0.1
L-38N 13+00E	642316	5748594	0.8	33.40	0.00	4.4	91	0.10	22.3	10.5	314	2.09	1.3	0.3	2.90	0.003	1.3	13	0.1
L-38N 13+50E	642363	5748579	0.5	10.80	0.00	4.5	52	0.05	19.9	8.4	248	1.69	1.6	0.3	0.60	0.001	1.9	12	<0.1
L-38N 14+00E	642409	5748564	0.4	21.90	0.00	3.8	88	0.10	32.9	15.4	334	2.38	1.5	0.2	1.50	0.002	0.8	17	0.1
L-38N 14+50E	642456	5748549	0.7	19.10	0.00	4.3	91	0.20	26.5	10.6	201	1.95	1.6	0.3	1.00	0.001	1.6	12	0.3
L-38N 15+00E	642503	5748534	0.5	61.90	0.01	4.4	84	0.10	27.4	13.6	512	1.98	1.3	0.2	7.60	0.008	0.7	15	0.2
L-38N 15+50E	642549	5748518	0.9	35.90	0.00	3.7	111	0.05	22.2	22.0	651	4.05	2.1	0.2	3.00	0.003	0.7	21	0.1
L-38N 16+00E	642594	5748502	0.6	44.40	0.00	3.1	55	0.05	28.3	16.6	390	2.51	1.5	0.2	3.20	0.003	1.3	21	0.2
L-38N 16+50E	642640	5748486	0.9	53.70	0.01	4.6	47	0.20	31.1	11.1	199	1.97	1.5	0.2	1.00	0.001	1.2	19	0.2
L-38N 17+00E	642686	5748470	0.3	38.50	0.00	3.7	150	0.05	39.7	18.6	562	2.29	0.6	0.1	0.20	0.001	0.6	19	0.2
L-38N 17+50E	642732	5748454	0.7	34.90	0.00	4.1	97	0.10	31.3	13.6	381	2.00	1.3	0.2	2.40	0.002	1.1	13	0.2
L-38N 18+00E	642777	5748439	0.6	62.30	0.01	4.7	81	0.05	47.3	20.6	276	2.74	1.4	0.2	0.20	0.001	0.9	14	0.1
L-38N 18+50E	642823	5748423	0.4	46.50	0.00	3.9	75	0.20	52.9	17.6	257	2.56	1.6	0.4	1.80	0.002	1.7	18	0.2
L-38N 19+00E	642869	5748407	0.5	112.50	0.01	5.1	126	0.20	48.4	18.8	354	2.83	1.9	0.3	1.20	0.001	1.3	12	0.2
L-38N 19+50E	642914	5748391	0.5	137.60	0.01	2.0	63	0.10	100.8	31.7	409	4.21	1.8	0.2	1.10	0.001	0.7	19	0.1
L-38N 20+00E	642960	5748375	1.0	112.20	0.01	4.1	125	0.20	48.8	25.9	579	5.49	2.6	0.3	1.00	0.001	1.1	20	0.2
L-38N 20+50E	643007	5748358	1.2	30.30	0.00	4.0	57	0.05	25.0	13.7	216	2.26	1.5	0.2	0.80	0.001	1.2	14	<0.1
L-38N 21+00E	643055	5748341	0.7	49.20	0.00	3.4	77	0.20	29.7	15.9	313	2.67	1.6	0.2	1.30	0.001	1.1	19	<0.1
L-38N 21+50E	643102	5748324	0.7	39.80	0.00	3.8	115	0.10	28.3	16.7	288	2.66	1.2	0.2	0.20	0.001	0.9	13	<0.1
L-38N 22+00E	643149	5748307	0.5	42.10	0.00	3.4	103	0.20	49.1	18.3	370	2.69	1.5	0.3	0.90	0.001	1.3	18	0.2
L-38N 22+50E	643196	5748290	1.8	89.00	0.01	3.8	89	0.30	12.0	15.1	444	5.06	2.2	0.2	0.80	0.001	0.6	11	<0.1
L-38N 23+00E	643244	5748274	0.8	28.20	0.00	3.3	74	0.10	29.2	15.9	227	2.53	1.3	0.3	0.70	0.001	1.5	14	0.1
L-38N 23+50E	643291	5748257	0.5	43.60	0.00	4.5	69	0.20	28.8	15.5	313	2.40	1.1	0.2	0.60	0.001	0.8	20	0.1
L-38N 24+00E	643338	5748240	1.0	37.10	0.00	5.4	102	0.20	37.3	14.8	575	2.77	1.6	0.3	1.10	0.001	1.2	13	0.3
L-38N 24+50E	643386	5748223	0.4	22.10	0.00	6.2	85	0.10	33.7	11.3	765	1.95	1.4	0.2	0.80	0.001	0.8	10	0.1
L-38N 25+00E	643433	5748206	1.2	23.70	0.00	4.1	80	0.05	74.1	18.9	370	3.03	1.2	0.2	0.80	0.001	0.9	14	0.2
L-40N 04+00E	641559	5749080	0.5	21.00	0.00	4.0	80	0.10	21.9	10.0	207	1.79	1.5	0.3	0.90	0.001	1.7	18	0.2
L-40N 04+50E	641602	5749062	0.3	71.30	0.01	5.2	113	0.10	24.9	14.1	346	2.05	1.6	0.2	0.90	0.001	1.1	16	0.2
L-40N 05+00E	641646	5749043	0.3	34.30	0.00	2.7	66	0.05	23.8	10.3	203	1.86	0.9	0.3	1.30	0.001	1.5	21	0.1
L-40N 05+50E	641692	5749027	0.5	60.40	0.01	4.9	90	0.05	26.9	13.4	325	2.76	2.5	0.3	2.30	0.002	1.4	21	0.1
L-40N 06+00E	641738	5749010	0.5	31.40	0.00	5.7	75	0.10	15.6	9.0	376	1.77	1.8	0.3	2.80	0.003	1.1	16	<0.1
L-40N 06+50E	641784	5748994	0.4	55.90	0.01	4.4	89	0.10	35.2	16.0	302	2.18	1.5	0.3	1.00	0.001	1.3	17	<0.1
L-40N 07+00E	641830	5748978	0.5	51.50	0.01	4.4	121	0.20	25.4	13.0	688	2.12	1.4	0.2	1.00	0.001	1.1	15	0.2
L-40N 07+50E	641876	5748962	0.6	78.60	0.01	5.0	124	0.10	24.8	13.6	461	2.41	2.0	0.3	2.50	0.003	1.2	18	0.1
L-40N 08+00E	641922	5748945	0.4	29.40	0.00	4.0	106	0.05	22.3	10.1	418	1.89	1.2	0.2	0.20	0.001	1.1	14	0.1
L-40N 08+50E	641968	5748929	0.4	63.20	0.01	4.2	74	0.05	16.2	9.2	263	1.66	0.8	0.2	13.20	0.013	0.7	17	<0.1

Sample	Easting	Northing	Mo_ppm	Cu_ppm	Cu_%	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_%	As_ppm	U_ppm	Au_ppb	Au_g/t	Th_ppm	Sr_ppm	Cd_ppm
L-40N 09+00E	642014	5748913	0.5	20.50	0.00	4.3	86	0.05	14.1	11.0	495	1.91	1.2	0.2	1.90	0.002	0.9	17	<0.1
L-40N 09+50E	642060	5748896	0.6	29.30	0.00	3.8	73	0.10	21.7	10.8	348	1.91	1.7	0.3	0.70	0.001	1.1	18	0.2
L-40N 10+00E	642106	5748880	0.5	29.30	0.00	4.1	89	0.20	28.0	13.8	267	2.48	2.0	0.2	1.00	0.001	1.2	17	0.2
L-40N 10+50E	642152	5748864	0.5	29.90	0.00	4.1	109	0.20	28.0	12.4	252	2.26	2.5	0.2	0.20	0.001	1.4	17	0.2
L-40N 11+00E	642198	5748848	0.3	15.20	0.00	3.9	64	0.05	19.8	9.3	271	1.49	1.0	0.2	0.80	0.001	1.0	13	<0.1
L-40N 11+50E	642245	5748833	0.5	32.80	0.00	3.8	81	0.05	13.9	8.1	321	1.71	0.7	0.2	1.20	0.001	0.7	10	<0.1
L-40N 12+00E	642291	5748817	0.6	30.10	0.00	4.4	80	0.10	18.2	8.8	376	1.39	0.9	0.1	0.60	0.001	0.7	8	0.2
L-40N 12+50E	642337	5748801	0.8	33.40	0.00	4.1	89	0.05	26.8	15.4	286	2.52	1.2	0.2	1.00	0.001	1.0	15	0.1
L-40N 13+00E	642383	5748785	0.8	183.10	0.02	4.3	62	0.30	48.8	20.7	1650	3.40	5.3	0.2	2.70	0.003	1.2	47	0.6
L-40N 13+50E	642429	5748769	0.5	39.50	0.00	4.3	104	0.30	29.8	13.8	289	2.00	1.4	0.2	0.20	0.001	0.9	16	0.2
L-40N 14+00E	642476	5748754	0.4	36.90	0.00	2.6	59	0.05	36.1	16.3	245	2.59	1.4	0.2	0.20	0.001	1.0	19	<0.1
L-40N 14+50E	642522	5748738	0.4	33.90	0.00	3.2	85	0.10	35.1	14.0	316	2.28	1.9	0.3	0.20	0.001	1.5	17	0.2
L-40N 15+00E	642568	5748722	0.5	17.50	0.00	4.3	80	0.05	20.7	10.1	284	1.60	1.1	0.2	0.20	0.001	1.1	11	0.1
L-40N 15+50E	642614	5748706	0.6	36.90	0.00	3.0	62	0.05	32.6	15.3	281	2.34	2.1	0.2	1.40	0.001	1.4	19	0.2
L-40N 16+00E	642660	5748690	1.2	55.10	0.01	1.7	40	0.05	64.8	21.8	252	2.57	2.7	0.1	1.60	0.002	0.4	24	0.2
L-40N 16+50E	642706	5748674	0.4	35.90	0.00	3.6	68	0.05	21.8	15.7	389	2.07	1.4	0.2	0.90	0.001	0.6	17	0.1
L-40N 17+00E	642752	5748658	0.7	67.40	0.01	3.2	97	0.05	41.0	20.5	364	2.64	1.3	0.2	5.80	0.006	0.8	16	<0.1
L-40N 17+50E	642798	5748642	0.2	115.60	0.01	1.6	79	0.10	64.9	25.2	419	3.23	1.0	<0.1	2.70	0.003	0.4	23	0.1
L-40N 18+00E	642843	5748627	0.3	112.40	0.01	3.0	91	0.10	24.7	20.8	518	3.15	1.2	<0.1	0.20	0.001	0.4	17	0.1
L-40N 18+50E	642889	5748611	0.5	76.70	0.01	2.9	81	0.10	45.2	17.6	335	2.20	1.9	0.2	0.70	0.001	0.6	13	0.2
L-40N 19+00E	642935	5748595	0.6	30.70	0.00	3.5	102	0.10	30.0	12.1	239	1.65	1.4	0.2	2.40	0.002	0.7	11	0.2
L-40N 19+50E	642981	5748579	0.6	37.40	0.00	2.9	106	0.20	43.1	15.8	242	2.42	1.4	0.2	0.80	0.001	1.1	14	0.2
L-40N 20+00E	643027	5748563	0.6	37.30	0.00	3.4	71	0.10	31.9	13.0	432	2.00	1.6	0.2	0.70	0.001	1.2	13	0.1
L-40N 20+50E	643074	5748547	0.7	26.80	0.00	3.4	105	0.20	44.0	17.8	296	2.15	1.2	0.2	0.20	0.001	0.8	15	0.2
L-40N 21+00E	643122	5748531	0.5	39.20	0.00	3.9	99	0.10	27.7	15.0	363	2.00	1.4	0.2	1.50	0.002	0.8	14	0.1
L-40N 21+50E	643169	5748515	0.4	143.80	0.01	3.1	101	0.10	45.0	18.6	595	2.58	0.9	0.1	0.20	0.001	0.6	16	0.1
L-40N 22+00E	643217	5748499	0.5	32.70	0.00	4.4	135	0.30	43.1	16.7	368	2.30	1.7	0.2	0.90	0.001	1.1	15	0.4
L-40N 22+50E	643264	5748482	0.5	18.70	0.00	3.7	148	0.20	130.4	21.1	270	2.44	1.4	0.2	0.80	0.001	0.8	10	0.2
L-40N 23+00E	643311	5748466	0.5	24.10	0.00	3.9	108	0.10	46.1	15.5	262	2.39	2.2	0.2	0.70	0.001	0.9	13	0.2
L-40N 23+50E	643359	5748450	0.2	77.10	0.01	2.3	117	0.05	33.1	27.4	566	3.87	0.9	0.1	1.60	0.002	0.4	18	<0.1
L-40N 24+00E	643406	5748434	0.5	70.10	0.01	3.5	73	0.05	35.0	14.7	324	2.82	1.5	0.2	0.80	0.001	1.0	14	0.1
L-40N 24+50E	643454	5748418	0.4	52.00	0.01	3.1	71	0.05	65.4	14.9	374	2.22	1.1	0.2	0.20	0.001	0.7	11	0.1
L-40N 25+00E	643501	5748402	0.4	19.70	0.00	4.1	98	0.05	66.1	17.4	196	2.59	2.6	0.2	0.20	0.001	1.3	16	0.2
L-42N 04+00E	641606	5749204	0.7	56.00	0.01	5.1	83	0.05	24.9	11.8	284	2.52	2.2	0.3	4.70	0.005	1.6	16	0.1
L-42N 04+50E	641646	5749193	0.5	105.70	0.01	5.5	55	0.20	13.8	7.3	180	1.84	1.1	0.3	5.30	0.005	1.1	13	<0.1
L-42N 05+00E	641687	5749182	0.5	20.50	0.00	5.0	85	0.05	9.7	8.4	304	1.67	1.3	0.3	34.80	0.035	1.1	12	<0.1
L-42N 05+50E	641728	5749170	0.5	39.20	0.00	3.8	67	0.05	17.9	10.6	423	1.73	1.4	0.2	1.30	0.001	0.8	16	<0.1
L-42N 06+00E	641768	5749159																	
L-42N 20+00E	643094	5748752																	
L-42N 20+50E	643144	5748752	0.7	35.70	0.00	5.5	116	0.20	39.3	15.7	255	2.86	2.5	0.3	1.20	0.001	1.8	15	0.2
L-42N 21+00E	643190	5748732	0.5	68.50	0.01	3.3	70	0.05	40.2	13.3	269	2.12	1.8	0.2	0.20	0.001	1.4	14	0.1
L-42N 21+50E	643236	5748713	1.0	67.40	0.01	6.9	97	0.05	36.8	10.1	219	2.78	3.0	0.4	1.80	0.002	2.4	15	<0.1
L-42N 22+00E	643282	5748693	0.4	68.90	0.01	3.9	85	0.20	35.6	14.6	304	2.27	1.5	0.3	0.20	0.001	1.3	17	<0.1
L-42N 22+50E	643328	5748674	0.5	103.20	0.01	3.5	102	0.10	47.3	24.3	332	3.83	2.0	0.2	1.10	0.001	0.9	15	0.1
L-42N 23+00E	643374	5748654	0.2	49.40	0.00	3.2	117	0.20	39.3	16.9	285	2.53	1.0	0.2	0.50	0.001	0.8	15	0.1
L-42N 23+50E	643421	5748634	0.4	95.40	0.01	3.6	111	0.10	47.6	25.8	346	4.38	1.0	0.1	0.20	0.001	0.6	16	0.1
L-42N 24+00E	643468	5748613	0.8	54.50	0.01	5.5	96	0.20	38.1	12.9	266	2.78	2.2	0.3	1.10	0.001	1.7	15	0.1
L-42N 24+50E	643514	5748592	0.6	20.70	0.00	4.6	123	0.20	36.0	13.9	464	2.67	1.8	0.2	0.20	0.001	1.4	12	0.1
L-42N 25+00E	643561	5748572	0.8	73.80	0.01	4.1	92	0.10	51.8	18.0	403	3.53	2.0	0.2	1.40	0.001	1.0	13	<0.1
L-44N 04+00E	641653	5749408	0.5	11.00	0.00	4.5	49	0.10	7.6	5.3	569	1.03	0.7	0.2	2.70	0.003	0.7	7	<0.1
L-44N 04+50E	641701	5749392	0.5	31.70	0.00	3.8	102	0.05	23.4	10.5	334	1.86	1.4	0.2	5.30	0.005	1.4	16	<0.1
L-44N 05+00E	641748	5749377	0.5	271.80	0.03	5.1	98	0.20	19.8	11.2	800	2.20	0.7	0.3	4.40	0.004	1.1	15	<0.1
L-44N 05+50E	641796	5749361	1.4	288.30	0.03	7.4	75	0.05	27.5	10.1	297	3.32	3.4	0.7	4.50	0.005	2.2	15	<0.1
L-44N 20+00E	643139	5748922																	
L-44N 20+50E	643189	5748922	0.7	74.70	0.01	3.9	93	0.10	37.5	19.1	346	3.30	1.5	0.3	0.60	0.001	1.3	18	0.1
L-44N 21+00E	643236	5748902	0.9	36.50	0.00	4.6	95	0.20	34.7	14.8	217	2.71	2.4	0.4	2.50	0.003	1.7	14	0.2
L-44N 21+50E	643282	5748883	0.7	203.00	0.02	3.9	126	0.20	66.8	30.5	332	3.85	2.5	0.2	1.00	0.001	0.8	21	0.1

Sample	Easting	Northing	Mo_ppm	Cu_ppm	Cu_%	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_%	As_ppm	U_ppm	Au_ppb	Au_g/t	Th_ppm	Sr_ppm	Cd_ppm
L-44N 22+00E	643329	5748863	0.6	26.40	0.00	4.6	73	0.10	29.4	11.7	193	2.17	1.7	0.4	2.90	0.003	1.5	18	0.2
L-44N 22+50E	643375	5748844	0.6	46.10	0.00	6.4	113	0.20	43.2	17.0	283	2.74	2.8	0.4	1.80	0.002	1.5	29	0.2
L-44N 23+00E	643422	5748824	0.5	47.70	0.00	4.5	91	0.05	56.2	21.3	372	2.55	0.9	0.2	1.50	0.002	0.6	15	<0.1
L-44N 23+50E	643467	5748806	0.6	194.40	0.02	2.3	130	0.05	41.8	37.7	543	6.40	0.9	0.1	0.70	0.001	0.3	17	<0.1
L-44N 24+00E	643513	5748788	0.6	34.40	0.00	7.0	98	0.05	39.4	11.7	285	2.32	1.9	0.3	2.50	0.003	1.4	17	0.1
L-44N 24+50E	643558	5748769	0.7	82.10	0.01	3.6	86	0.20	39.6	12.0	224	2.42	1.5	0.3	1.80	0.002	1.3	13	<0.1
L-44N 25+00E	643603	5748751	0.4	46.40	0.00	4.3	75	0.05	31.4	11.2	293	2.08	0.9	0.3	3.60	0.004	1.0	15	<0.1
L-46N 04+00E	641816	5749540	0.6	94.20	0.01	4.7	88	0.05	21.0	12.2	323	2.67	1.1	0.3	85.70	0.086	1.6	27	0.1
L-46N 04+50E	641768	5749555	0.5	21.10	0.00	5.0	106	0.20	26.3	12.2	265	2.17	1.8	0.4	12.70	0.013	1.6	20	0.2
L-46N 05+00E	641721	5749571	0.5	25.70	0.00	5.6	137	0.10	26.2	18.3	448	2.17	1.4	0.3	1.50	0.002	1.0	18	0.2
L-46N 05+50E	641673	5749586	0.6	32.00	0.00	5.1	47	0.10	18.3	9.7	196	2.02	1.1	0.3	1.40	0.001	1.1	18	0.3
L-46N 20+00E	643194	5749089																	
L-46N 20+50E	643244	5749089	1.0	132.00	0.01	4.5	123	0.30	32.1	21.4	323	3.73	1.6	0.2	2.00	0.002	0.6	44	0.2
L-46N 21+00E	643291	5749071	0.4	11.00	0.00	5.0	65	0.10	15.1	7.2	218	1.24	0.9	0.2	1.10	0.001	0.7	12	0.1
L-46N 21+50E	643337	5749052	1.2	57.80	0.01	8.2	246	0.40	41.7	21.9	288	3.40	3.1	0.4	2.60	0.003	1.2	18	0.4
L-46N 22+00E	643384	5749034	0.8	140.70	0.01	1.8	97	0.10	63.0	28.4	375	4.06	1.0	0.1	1.70	0.002	0.2	24	0.1
L-46N 22+50E	643430	5749015	0.8	43.10	0.00	4.5	82	0.10	43.3	14.3	243	2.37	2.6	0.3	2.90	0.003	1.4	16	0.1
L-46N 23+00E	643477	5748997	0.5	67.20	0.01	4.6	83	0.10	39.6	15.2	267	2.62	2.6	0.3	1.50	0.002	1.5	19	0.2
L-46N 23+50E	643524	5748979	0.7	107.70	0.01	3.7	93	0.10	45.8	26.5	326	3.16	2.5	0.3	1.40	0.001	1.1	19	0.2
L-46N 24+00E	643570	5748960	1.0	30.70	0.00	5.6	89	0.05	28.5	11.5	345	2.35	2.5	0.4	1.90	0.002	1.5	16	0.2
L-46N 24+50E	643617	5748942	0.8	130.60	0.01	4.4	53	0.20	33.8	8.6	268	1.82	1.3	0.4	5.20	0.005	2.1	12	0.1
L-46N 25+00E	643663	5748924	0.6	27.50	0.00	5.6	71	0.10	20.3	10.3	254	2.22	1.4	0.2	2.50	0.003	0.7	15	<0.1
L-48N 20+00E	643267	5749261																	
L-48N 23+00E	643554	5749196																	

Sample	Sb_ppm	Bi_ppm	V_ppm	Ca_%	P_%	La_ppm	Cr_ppm	Mg_%	Ba_ppm	Ti_%	B_ppm	Al_%	Na_%	K_%	W_ppm	Hg_ppm	Sc_ppm	Tl_ppm	S_%	Ga_ppm	Se_ppm
L-32N 06+50E	0.20	<0.1	60	0.27	0.026	6	34	0.65	44	0.125	<20	1.31	0.023	0.09	<0.1	0.01	2.1	<0.1	<0.05	5	0.5
L-32N 07+00E	0.10	0.1	44	0.17	0.183	5	30	0.46	123	0.099	<20	1.72	0.015	0.08	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5
L-32N 07+50E	0.20	<0.1	43	0.20	0.147	6	33	0.48	129	0.091	<20	1.39	0.014	0.07	0.2	<0.01	1.9	<0.1	<0.05	5	<0.5
L-32N 08+00E	0.20	<0.1	49	0.19	0.107	7	42	0.59	109	0.096	<20	1.59	0.013	0.08	0.1	0.02	2.1	<0.1	<0.05	5	<0.5
L-32N 08+50E	0.20	0.1	52	0.27	0.130	6	39	0.61	98	0.100	<20	1.80	0.011	0.16	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5
L-32N 09+00E	0.05	<0.1	42	0.14	0.082	4	27	0.36	59	0.081	<20	1.44	0.016	0.06	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5
L-32N 09+50E	0.20	0.1	54	0.43	0.268	5	44	0.68	166	0.079	<20	2.09	0.009	0.15	0.2	0.02	2.6	<0.1	<0.05	6	0.5
L-32N 10+00E																					
L-32N 10+50E	0.05	<0.1	41	0.19	0.115	4	39	0.59	83	0.092	<20	1.40	0.009	0.06	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5
L-32N 11+00E	0.20	0.1	46	0.23	0.197	4	40	0.61	150	0.083	<20	1.58	0.009	0.09	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5
L-32N 11+50E	0.20	0.1	48	0.33	0.237	6	48	0.55	180	0.092	<20	1.76	0.019	0.10	<0.1	0.02	2.8	<0.1	<0.05	5	0.7
L-32N 12+00E	0.10	0.1	53	0.32	0.064	5	42	0.60	115	0.108	<20	1.83	0.016	0.09	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5
L-32N 12+50E	0.20	<0.1	45	0.22	0.033	7	40	0.54	62	0.105	<20	1.18	0.015	0.10	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5
L-32N 13+00E	0.20	<0.1	46	0.27	0.067	6	47	0.54	91	0.105	<20	1.30	0.015	0.14	<0.1	0.01	2.3	<0.1	<0.05	4	0.5
L-32N 13+50E	0.05	<0.1	39	0.17	0.138	3	34	0.53	121	0.086	<20	1.19	0.012	0.08	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5
L-32N 14+00E	0.10	<0.1	43	0.22	0.114	4	45	0.57	135	0.092	<20	1.42	0.011	0.11	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5
L-32N 14+50E	0.10	<0.1	44	0.30	0.127	3	59	0.69	159	0.088	<20	1.39	0.011	0.12	0.1	0.02	1.8	<0.1	<0.05	5	<0.5
L-32N 15+00E	0.20	<0.1	61	0.33	0.043	5	76	0.95	81	0.113	<20	1.44	0.016	0.17	0.1	0.01	2.6	<0.1	<0.05	5	<0.5
L-32N 15+50E																					
L-32N 16+00E																					
L-32N 16+50E	0.10	<0.1	48	0.22	0.098	5	55	0.65	95	0.104	<20	1.31	0.017	0.09	<0.1	0.01	2.1	<0.1	<0.05	4	<0.5
L-32N 17+00E	0.05	<0.1	39	0.21	0.094	4	42	0.51	120	0.100	<20	1.32	0.014	0.09	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5
L-32N 17+50E	0.05	<0.1	91	0.32	0.056	2	41	1.39	63	0.173	<20	1.94	0.014	0.12	<0.1	<0.01	1.8	<0.1	<0.05	6	<0.5
L-32N 18+00E	0.10	0.1	49	0.25	0.136	5	61	0.73	161	0.119	<20	1.94	0.013	0.14	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5
L-32N 18+50E	0.05	<0.1	35	0.18	0.133	2	26	0.35	145	0.085	<20	0.94	0.015	0.08	0.2	0.01	1.2	<0.1	<0.05	3	<0.5
L-32N 19+00E	0.05	0.1	81	0.32	0.045	2	40	1.17	116	0.174	<20	1.88	0.010	0.51	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5
L-32N 19+50E	0.05	<0.1	123	0.28	0.103	1	65	1.81	165	0.190	<20	2.33	0.008	0.98	<0.1	0.01	4.0	0.2	<0.05	8	<0.5
L-32N 20+00E	0.10	<0.1	56	0.22	0.080	3	50	0.84	109	0.116	<20	1.52	0.011	0.26	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5
L-32N 20+50E	0.05	<0.1	112	0.49	0.085	1	47	2.08	155	0.221	<20	2.33	0.007	0.96	<0.1	<0.01	1.7	0.1	<0.05	6	<0.5
L-32N 21+00E	0.20	<0.1	58	0.29	0.100	5	100	0.97	102	0.120	<20	1.87	0.011	0.15	<0.1	0.01	2.0	<0.1	<0.05	5	0.7
L-32N 21+50E	0.05	<0.1	86	0.31	0.035	1	52	1.34	150	0.190	<20	1.95	0.011	0.52	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5
L-32N 22+00E	0.05	<0.1	63	0.32	0.061	1	61	1.24	110	0.164	<20	1.85	0.010	0.09	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5
L-32N 22+50E	0.05	<0.1	75	0.35	0.049	3	93	1.22	66	0.149	<20	1.94	0.013	0.27	<0.1	<0.01	2.9	0.1	<0.05	6	<0.5
L-32N 23+00E	0.05	<0.1	67	0.33	0.080	3	52	0.99	136	0.140	<20	1.65	0.012	0.17	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5
L-32N 23+50E	0.05	<0.1	84	0.39	0.098	2	259	1.67	96	0.140	<20	2.24	0.006	0.11	<0.1	<0.01	1.8	<0.1	<0.05	6	0.5
L-32N 24+00E	0.05	<0.1	119	0.41	0.069	2	47	1.42	338	0.185	<20	2.35	0.008	0.55	0.1	0.02	2.5	0.1	<0.05	8	<0.5
L-32N 24+50E	0.05	<0.1	53	0.21	0.113	2	45	0.64	124	0.100	<20	1.67	0.012	0.07	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5
L-32N 25+00E	0.10	<0.1	66	0.21	0.088	4	70	0.90	181	0.122	<20	1.83	0.008	0.13	<0.1	<0.01	1.7	<0.1	<0.05	6	<0.5
L-34N 07+25E																					
L-34N 07+50E																					
L-34N 08+00E	0.10	<0.1	58	0.20	0.011	5	34	0.47	52	0.117	<20	1.17	0.013	0.08	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5
L-34N 08+50E	0.10	0.1	50	0.32	0.202	4	48	0.57	150	0.114	<20	2.11	0.014	0.13	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5
L-34N 09+00E	0.10	<0.1	51	0.23	0.126	6	46	0.57	102	0.113	<20	1.61	0.014	0.10	0.1	0.01	2.2	<0.1	<0.05	5	<0.5
L-34N 09+50E	0.05	<0.1	40	0.18	0.104	4	33	0.41	99	0.095	<20	1.09	0.015	0.07	0.3	0.01	1.4	<0.1	<0.05	4	<0.5
L-34N 10+00E	0.20	<0.1	59	0.27	0.064	7	56	0.63	94	0.127	<20	1.20	0.014	0.16	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5
L-34N 10+50E	0.20	<0.1	50	0.20	0.072	5	36	0.47	88	0.109	<20	1.42	0.017	0.11	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5
L-34N 11+00E	0.10	<0.1	46	0.23	0.093	5	42	0.48	113	0.102	<20	1.39	0.015	0.10	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5
L-34N 11+50E	0.10	<0.1	53	0.24	0.068	5	39	0.53	104	0.113	<20	1.27	0.014	0.10	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5
L-34N 12+00E	0.05	<0.1	46	0.20	0.205	8	48	0.56	154	0.110	<20	1.88	0.014	0.09	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5
L-34N 12+50E	0.10	<0.1	63	0.19	0.102	4	33	0.69	103	0.104	<20	1.85	0.009	0.07	0.1	0.02	2.0	<0.1	<0.05	5	<0.5
L-34N 13+00E	0.10	0.1	55	0.19	0.136	6	50	0.59	90	0.116	<20	1.86	0.015	0.09	<0.1	0.02	2.5	<0.1	<0.05	6	0.5
L-34N 13+50E	0.05	0.1	58	0.24	0.130	5	53	0.63	105	0.123	<20	1.91	0.014	0.09	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5
L-34N 14+00E	0.20	<0.1	52	0.24	0.100	6	52	0.61	132	0.114	<20	1.57	0.014	0.09	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5
L-34N 14+50E	0.10	<0.1	54	0.24	0.136	5	53	0.68	246	0.107	<20	1.82	0.014	0.09	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5
L-34N 15+00E	0.05	<0.1	51	0.25	0.168	5	54	0.59	117	0.119	<20	1.92	0.015	0.10	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5
L-34N 15+50E	0.05	0.1	45	0.24	0.142	6	42	0.50	156	0.110	<20	1.50	0.017	0.10	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5
L-34N 16+00E	0.10	0.1	55	0.25	0.067	5	55	0.57	106	0.126	<20	1.83	0.013	0.08	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5

Sample	Sb_ppm	Bi_ppm	V_ppm	Ca_%	P_%	La_ppm	Cr_ppm	Mg_%	Ba_ppm	Ti_%	B_ppm	Al_%	Na_%	K_%	W_ppm	Hg_ppm	Sc_ppm	Tl_ppm	S_%	Ga_ppm	Se_ppm
L-34N 16+50E	0.05	<0.1	68	0.35	0.139	2	88	1.04	127	0.134	<20	1.56	0.013	0.18	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5
L-34N 17+00E	0.10	<0.1	54	0.27	0.118	5	68	0.78	141	0.124	<20	1.67	0.015	0.12	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5
L-34N 17+50E	0.05	<0.1	54	0.32	0.223	4	84	0.88	166	0.131	<20	2.09	0.014	0.15	0.1	0.02	2.4	<0.1	<0.05	6	<0.5
L-34N 18+00E	0.05	<0.1	46	0.25	0.079	4	58	0.69	101	0.129	<20	1.53	0.016	0.11	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5
L-34N 18+50E	0.10	0.1	53	0.24	0.124	5	70	0.74	149	0.134	<20	2.14	0.015	0.13	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5
L-34N 19+00E	0.05	<0.1	57	0.23	0.104	3	81	0.83	124	0.132	<20	1.70	0.012	0.12	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5
L-34N 19+50E	0.05	<0.1	38	0.16	0.223	3	55	0.45	220	0.096	<20	1.24	0.016	0.07	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5
L-34N 20+00E	0.20	<0.1	70	0.48	0.024	7	70	0.84	92	0.151	<20	1.68	0.015	0.19	<0.1	0.01	3.0	<0.1	<0.05	5	<0.5
L-34N 20+50E	0.20	0.2	83	0.73	0.045	11	77	0.81	215	0.148	<20	2.76	0.026	0.24	<0.1	0.08	5.8	0.2	<0.05	6	0.8
L-34N 21+00E	0.10	0.1	47	0.18	0.103	3	56	0.53	79	0.098	<20	1.30	0.012	0.09	0.1	0.01	1.8	<0.1	<0.05	4	<0.5
L-34N 21+50E	0.10	<0.1	80	0.48	0.054	4	131	1.31	91	0.160	<20	1.92	0.014	0.33	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5
L-34N 22+00E	0.10	<0.1	54	0.22	0.073	6	41	0.48	78	0.107	<20	1.40	0.014	0.10	0.1	0.01	1.8	<0.1	<0.05	4	<0.5
L-34N 22+50E	0.20	<0.1	54	0.30	0.119	7	50	0.61	121	0.113	<20	1.63	0.017	0.14	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5
L-34N 23+00E	0.05	0.1	40	0.25	0.160	3	36	0.34	175	0.097	<20	1.11	0.014	0.09	<0.1	0.03	1.2	<0.1	<0.05	5	<0.5
L-34N 23+50E	0.05	<0.1	49	0.27	0.092	5	56	0.54	126	0.110	<20	1.55	0.018	0.10	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5
L-34N 24+00E	0.05	<0.1	58	0.19	0.093	4	43	0.54	91	0.122	<20	1.57	0.016	0.09	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5
L-34N 24+50E	0.05	<0.1	75	0.51	0.036	4	53	1.04	154	0.197	<20	2.08	0.018	0.15	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5
L-34N 25+00E	0.10	<0.1	56	0.21	0.126	5	62	0.61	152	0.121	<20	1.77	0.012	0.09	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5
L-36N 04+00E	0.05	<0.1	33	0.25	0.154	4	18	0.27	154	0.080	<20	0.95	0.016	0.07	<0.1	0.02	1.4	<0.1	<0.05	3	0.5
L-36N 04+50E	0.05	<0.1	36	0.19	0.104	3	15	0.40	113	0.063	<20	1.08	0.015	0.05	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5
L-36N 05+00E	0.05	<0.1	39	0.22	0.067	4	35	0.42	90	0.077	<20	1.07	0.013	0.07	<0.1	<0.01	1.3	<0.1	<0.05	3	<0.5
L-36N 05+50E	0.05	<0.1	44	0.25	0.103	4	36	0.59	118	0.075	<20	1.57	0.013	0.12	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5
L-36N 06+00E	0.10	<0.1	46	0.20	0.074	6	39	0.55	99	0.082	<20	1.44	0.015	0.08	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5
L-36N 06+50E	0.05	<0.1	56	0.20	0.116	3	24	0.87	104	0.077	<20	1.68	0.010	0.06	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5
L-36N 07+00E	0.05	<0.1	42	0.19	0.098	5	35	0.44	85	0.069	<20	1.09	0.010	0.08	<0.1	0.01	1.6	<0.1	<0.05	4	<0.5
L-36N 07+50E	0.05	<0.1	45	0.26	0.109	4	31	0.44	93	0.070	<20	1.24	0.012	0.09	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5
L-36N 08+00E	0.20	0.1	61	0.54	0.027	7	61	0.67	169	0.102	<20	2.44	0.018	0.20	0.1	0.03	5.0	0.2	<0.05	6	<0.5
L-36N 08+50E	0.05	<0.1	42	0.17	0.149	4	44	0.51	136	0.070	<20	1.59	0.009	0.09	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5
L-36N 09+00E	0.10	<0.1	70	0.61	0.039	6	58	0.86	131	0.101	<20	2.07	0.021	0.17	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5
L-36N 09+50E	0.10	<0.1	43	0.21	0.101	5	38	0.48	96	0.076	<20	1.14	0.011	0.07	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5
L-36N 10+00E	0.10	<0.1	48	0.22	0.115	5	42	0.54	82	0.077	<20	1.22	0.017	0.06	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5
L-36N 10+50E	0.10	<0.1	46	0.23	0.090	5	41	0.57	114	0.083	<20	1.38	0.013	0.10	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5
L-36N 11+00E	0.05	<0.1	39	0.19	0.157	4	34	0.42	133	0.066	<20	1.17	0.011	0.09	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5
L-36N 11+50E	0.10	<0.1	59	0.25	0.037	5	50	0.55	82	0.084	<20	1.49	0.019	0.10	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5
L-36N 12+00E	0.20	<0.1	61	0.57	0.023	6	58	0.86	163	0.100	<20	1.99	0.021	0.19	0.9	0.03	3.7	0.1	<0.05	5	<0.5
L-36N 12+50E	0.20	<0.1	83	0.53	0.035	5	73	1.09	108	0.114	<20	2.03	0.018	0.19	<0.1	0.03	3.6	0.1	<0.05	6	<0.5
L-36N 13+00E	0.20	<0.1	80	0.55	0.019	6	79	1.12	93	0.112	<20	1.83	0.018	0.22	<0.1	<0.01	3.8	<0.1	<0.05	5	<0.5
L-36N 13+50E	0.05	<0.1	52	0.20	0.200	5	58	0.63	127	0.085	<20	1.95	0.011	0.09	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5
L-36N 14+00E	0.05	<0.1	66	0.40	0.570	3	76	1.12	294	0.116	<20	2.74	0.011	0.15	0.1	0.03	2.5	<0.1	<0.05	7	<0.5
L-36N 14+50E	0.05	<0.1	59	0.28	0.252	4	61	0.75	133	0.096	<20	1.85	0.012	0.07	<0.1	<0.01	1.9	<0.1	<0.05	6	<0.5
L-36N 15+00E	0.10	<0.1	68	0.29	0.085	5	63	0.73	92	0.100	<20	1.73	0.013	0.11	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5
L-36N 15+50E	0.10	<0.1	84	0.40	0.070	5	87	1.16	64	0.114	<20	1.62	0.016	0.14	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5
L-36N 16+00E	0.05	<0.1	67	0.31	0.163	4	63	0.74	107	0.098	<20	2.19	0.011	0.11	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5
L-36N 16+50E	0.10	<0.1	55	0.24	0.132	4	83	0.79	124	0.084	<20	1.66	0.011	0.13	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5
L-36N 17+00E	0.05	<0.1	59	0.27	0.071	2	56	0.97	75	0.094	<20	1.46	0.007	0.13	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5
L-36N 17+50E	0.05	<0.1	46	0.23	0.066	2	101	0.97	99	0.092	<20	1.58	0.010	0.13	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5
L-36N 18+00E	0.05	<0.1	45	0.19	0.055	2	52	0.65	92	0.093	<20	1.14	0.010	0.11	<0.1	<0.01	1.1	<0.1	<0.05	4	<0.5
L-36N 18+50E	0.05	<0.1	60	0.26	0.067	2	58	0.76	121	0.116	<20	1.53	0.010	0.15	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5
L-36N 19+00E	0.05	<0.1	71	0.33	0.128	3	84	0.90	159	0.105	<20	2.01	0.011	0.17	0.1	<0.01	1.9	<0.1	<0.05	6	<0.5
L-36N 19+50E	0.05	<0.1	119	0.32	0.055	<1	176	1.75	128	0.160	<20	2.31	0.009	0.63	<0.1	<0.01	2.8	0.1	<0.05	8	<0.5
L-36N BL 20+00E	0.05	<0.1	70	0.25	0.061	2	59	0.87	74	0.110	<20	1.65	0.009	0.12	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5
L-36N 20+50E	0.05	<0.1	80	0.26	0.046	3	68	1.04	134	0.127	<20	1.91	0.012	0.27	<0.1	<0.01	2.2	<0.1	<0.05	6	<0.5
L-36N 21+00E	0.05	<0.1	120	0.32	0.063	2	66	1.36	74	0.151	<20	1.90	0.007	0.39	<0.1	<0.01	2.5	<0.1	<0.05	6	<0.5
L-36N 21+50E	0.10	<0.1	43	0.23	0.099	6	42	0.50	132	0.080	<20	1.40	0.010	0.17	<0.1	<0.01	1.7	<0.1	<0.05	5	<0.5
L-36N 22+00E	0.10	<0.1	67	0.42	0.008	6	81	0.96	64	0.130	<20	1.41	0.013	0.19	<0.1	<0.01	2.9	<0.1	<0.05	5	<0.5
L-36N 22+50E	0.20	<0.1	71	0.32	0.016	9	56	0.76	84	0.126	<20	1.47	0.015	0.10	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5
L-36N 23+00E																					

Sample	Sb_ppm	Bi_ppm	V_ppm	Ca_%	P_%	La_ppm	Cr_ppm	Mg_%	Ba_ppm	Ti_%	B_ppm	Al_%	Na_%	K_%	W_ppm	Hg_ppm	Sc_ppm	Tl_ppm	S_%	Ga_ppm	Se_ppm
L-36N 23+50E	0.20	0.1	88	0.60	0.022	11	124	1.23	149	0.155	<20	2.11	0.026	0.31	<0.1	0.02	4.9	0.1	<0.05	6	<0.5
L-36N 24+00E	0.20	0.1	101	0.62	0.027	7	92	1.03	212	0.168	<20	2.80	0.023	0.20	<0.1	0.04	4.3	0.1	<0.05	7	<0.5
L-36N 24+50E	0.05	<0.1	54	0.20	0.099	5	58	0.66	151	0.111	<20	1.75	0.011	0.08	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5
L-36N 25+00E	0.05	0.1	37	0.18	0.092	8	36	0.42	58	0.073	<20	1.16	0.014	0.07	0.1	<0.01	1.4	<0.1	<0.05	4	<0.5
L-38N 04+00E	0.20	<0.1	59	0.88	0.039	7	52	0.76	101	0.109	<20	1.77	0.024	0.13	0.1	0.03	3.4	<0.1	<0.05	5	0.6
L-38N 04+50E	0.05	<0.1	41	0.20	0.082	4	29	0.42	78	0.077	<20	1.27	0.013	0.06	0.1	0.02	1.4	<0.1	<0.05	4	<0.5
L-38N 05+00E	0.05	<0.1	39	0.17	0.085	4	30	0.40	97	0.073	<20	1.14	0.010	0.06	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5
L-38N 05+50E	0.20	<0.1	66	0.36	0.026	7	54	0.71	67	0.115	<20	1.38	0.011	0.16	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5
L-38N 06+00E	0.20	0.1	68	0.26	0.274	6	52	0.78	118	0.115	<20	2.49	0.013	0.09	0.1	0.03	2.8	<0.1	<0.05	8	<0.5
L-38N 06+50E	0.05	<0.1	50	0.22	0.182	4	46	0.67	153	0.094	<20	1.94	0.011	0.09	<0.1	0.01	2.3	<0.1	<0.05	6	<0.5
L-38N 07+00E	0.05	<0.1	43	0.18	0.053	3	32	0.42	97	0.084	<20	1.20	0.014	0.07	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5
L-38N 07+50E	0.05	<0.1	36	0.17	0.087	3	28	0.36	128	0.080	<20	1.21	0.014	0.08	0.1	<0.01	1.4	<0.1	<0.05	4	<0.5
L-38N 08+00E	0.05	<0.1	40	0.18	0.074	5	39	0.43	95	0.081	<20	1.09	0.012	0.09	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5
L-38N 08+50E	0.10	<0.1	54	0.24	0.042	4	39	0.54	107	0.098	<20	1.35	0.009	0.09	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5
L-38N 09+00E	0.05	<0.1	35	0.19	0.063	3	26	0.35	120	0.077	<20	1.15	0.012	0.11	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5
L-38N 09+50E	0.20	<0.1	77	0.49	0.026	6	73	0.83	110	0.114	<20	2.15	0.015	0.16	<0.1	0.02	5.5	0.1	<0.05	6	<0.5
L-38N 10+00E	0.05	<0.1	38	0.15	0.068	3	36	0.42	66	0.074	<20	1.03	0.009	0.07	<0.1	<0.01	1.1	<0.1	<0.05	4	<0.5
L-38N 10+50E	0.10	<0.1	42	0.16	0.097	3	41	0.54	113	0.078	<20	1.37	0.009	0.08	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5
L-38N 11+00E	0.20	<0.1	48	0.31	0.065	6	39	0.51	106	0.093	<20	1.44	0.015	0.10	0.1	0.02	2.3	<0.1	<0.05	4	<0.5
L-38N 11+50E	0.10	<0.1	40	0.18	0.106	5	36	0.37	101	0.071	<20	1.06	0.011	0.06	<0.1	<0.01	1.6	<0.1	<0.05	3	<0.5
L-38N 12+00E	0.05	<0.1	41	0.16	0.148	3	19	0.39	137	0.081	<20	1.23	0.010	0.06	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5
L-38N 12+50E	0.05	<0.1	40	0.15	0.059	3	37	0.48	118	0.080	<20	1.28	0.011	0.06	<0.1	<0.01	1.3	<0.1	<0.05	4	<0.5
L-38N 13+00E	0.20	0.1	50	0.20	0.054	4	47	0.57	139	0.094	<20	1.36	0.008	0.08	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5
L-38N 13+50E	0.10	<0.1	38	0.17	0.106	5	25	0.37	91	0.084	<20	1.36	0.010	0.10	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5
L-38N 14+00E	0.10	<0.1	57	0.23	0.083	3	91	0.92	76	0.100	<20	1.61	0.008	0.09	0.1	<0.01	1.5	<0.1	<0.05	6	<0.5
L-38N 14+50E	0.10	<0.1	44	0.18	0.092	5	40	0.51	104	0.092	<20	1.64	0.009	0.11	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5
L-38N 15+00E	0.05	<0.1	49	0.17	0.095	3	65	0.71	99	0.099	<20	1.42	0.013	0.11	0.1	<0.01	1.4	<0.1	<0.05	5	<0.5
L-38N 15+50E	0.05	<0.1	121	0.45	0.251	3	44	1.42	220	0.163	<20	2.46	0.011	0.39	0.2	<0.01	2.8	<0.1	<0.05	8	<0.5
L-38N 16+00E	0.10	<0.1	66	0.30	0.047	5	60	0.89	69	0.112	<20	1.41	0.012	0.13	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5
L-38N 16+50E	0.10	<0.1	55	0.28	0.018	6	42	0.43	53	0.096	<20	1.31	0.015	0.08	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5
L-38N 17+00E	0.05	<0.1	55	0.26	0.096	2	84	1.07	125	0.131	<20	1.62	0.009	0.15	<0.1	<0.01	1.2	<0.1	<0.05	6	<0.5
L-38N 17+50E	0.10	<0.1	47	0.21	0.135	4	66	0.82	149	0.098	<20	1.53	0.011	0.11	<0.1	<0.01	1.5	<0.1	<0.05	5	<0.5
L-38N 18+00E	0.05	<0.1	58	0.22	0.076	3	113	0.93	71	0.110	<20	1.92	0.010	0.06	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5
L-38N 18+50E	0.10	<0.1	55	0.28	0.123	5	86	1.03	101	0.114	<20	2.19	0.010	0.13	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5
L-38N 19+00E	0.10	0.1	56	0.19	0.238	2	71	0.79	114	0.120	<20	2.31	0.008	0.10	0.1	0.02	1.6	<0.1	<0.05	7	<0.5
L-38N 19+50E	0.05	<0.1	130	0.63	0.125	2	289	2.53	152	0.188	<20	2.64	0.009	0.26	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5
L-38N 20+00E	0.30	<0.1	150	0.49	0.175	4	115	1.68	121	0.187	<20	2.32	0.007	0.49	<0.1	0.01	4.6	<0.1	<0.05	8	0.7
L-38N 20+50E	0.20	<0.1	61	0.22	0.029	5	50	0.85	48	0.136	<20	1.51	0.008	0.11	<0.1	<0.01	1.5	<0.1	<0.05	5	<0.5
L-38N 21+00E	0.10	<0.1	72	0.33	0.068	4	65	0.97	87	0.149	<20	1.79	0.008	0.20	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5
L-38N 21+50E	0.30	<0.1	65	0.17	0.041	3	45	0.81	101	0.120	<20	1.86	0.009	0.12	<0.1	0.01	2.2	<0.1	<0.05	6	<0.5
L-38N 22+00E	0.10	<0.1	72	0.25	0.066	5	110	1.09	117	0.131	<20	1.96	0.011	0.10	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5
L-38N 22+50E	0.10	0.1	81	0.14	0.098	3	16	0.47	68	0.040	<20	1.38	0.008	0.04	<0.1	0.03	2.8	<0.1	<0.05	6	1.0
L-38N 23+00E	0.20	<0.1	72	0.23	0.025	6	47	0.75	78	0.133	<20	1.63	0.011	0.13	<0.1	<0.01	1.8	<0.1	<0.05	5	<0.5
L-38N 23+50E	0.05	<0.1	72	0.30	0.059	3	74	0.79	95	0.142	<20	1.69	0.015	0.11	<0.1	0.01	1.6	<0.1	<0.05	6	<0.5
L-38N 24+00E	0.10	0.1	86	0.18	0.081	4	65	0.62	116	0.123	<20	2.38	0.013	0.07	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5
L-38N 24+50E	0.05	0.1	49	0.12	0.098	3	39	0.38	154	0.093	<20	1.59	0.006	0.06	<0.1	0.02	1.0	<0.1	<0.05	6	<0.5
L-38N 25+00E	0.10	<0.1	83	0.23	0.051	3	90	0.79	110	0.120	<20	1.95	0.009	0.06	<0.1	0.01	1.6	<0.1	<0.05	6	<0.5
L-40N 04+00E	0.10	<0.1	42	0.21	0.120	6	32	0.49	94	0.083	<20	1.34	0.010	0.08	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5
L-40N 04+50E	0.05	<0.1	50	0.19	0.194	3	41	0.66	200	0.106	<20	1.86	0.010	0.08	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5
L-40N 05+00E	0.05	<0.1	47	0.25	0.069	5	44	0.57	72	0.095	<20	1.32	0.011	0.11	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5
L-40N 05+50E	0.20	0.1	70	0.22	0.124	4	48	0.73	136	0.106	<20	2.40	0.010	0.09	0.1	0.02	2.2	<0.1	<0.05	7	<0.5
L-40N 06+00E	0.10	<0.1	44	0.17	0.194	4	24	0.49	110	0.084	<20	1.81	0.010	0.05	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5
L-40N 06+50E	0.05	<0.1	54	0.21	0.135	4	39	0.65	128	0.096	<20	2.40	0.011	0.06	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5
L-40N 07+00E	0.10	0.1	48	0.17	0.117	4	39	0.53	179	0.076	<20	1.90	0.007	0.09	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5
L-40N 07+50E	0.10	0.1	56	0.22	0.201	4	48	0.58	143	0.091	<20	2.09	0.009	0.08	0.1	0.03	2.0	<0.1	<0.05	6	<0.5
L-40N 08+00E	0.10	<0.1	45	0.18	0.101	4	34	0.52	111	0.083	<20	1.50	0.011	0.08	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5
L-40N 08+50E	0.05	0.1	43	0.17	0.054	3	26	0.45	113	0.084	<20	1.49	0.012	0.07	0.2	0.01	1.1	<0.1	<0.05	4	<0.5

Sample	Sb_ppm	Bi_ppm	V_ppm	Ca_%	P_%	La_ppm	Cr_ppm	Mg_%	Ba_ppm	Ti_%	B_ppm	Al_%	Na_%	K_%	W_ppm	Hg_ppm	Sc_ppm	Tl_ppm	S_%	Ga_ppm	Se_ppm
L-40N 09+00E	0.05	<0.1	56	0.22	0.134	2	20	0.53	94	0.089	<20	1.65	0.009	0.07	0.1	0.02	1.2	<0.1	<0.05	5	<0.5
L-40N 09+50E	0.10	<0.1	45	0.23	0.123	5	41	0.48	102	0.080	<20	1.32	0.011	0.09	0.2	0.02	1.7	<0.1	<0.05	4	<0.5
L-40N 10+00E	0.10	<0.1	55	0.21	0.212	3	56	0.61	134	0.087	<20	1.73	0.011	0.08	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5
L-40N 10+50E	0.10	<0.1	52	0.20	0.243	5	45	0.62	135	0.089	<20	1.70	0.010	0.10	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5
L-40N 11+00E	0.05	<0.1	39	0.19	0.077	4	32	0.43	72	0.081	<20	1.14	0.012	0.07	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5
L-40N 11+50E	0.05	<0.1	45	0.14	0.055	3	24	0.43	155	0.069	<20	1.41	0.008	0.05	<0.1	0.01	1.2	<0.1	<0.05	5	<0.5
L-40N 12+00E	0.05	<0.1	36	0.12	0.064	2	38	0.40	84	0.072	<20	1.12	0.008	0.05	<0.1	0.02	0.9	<0.1	<0.05	4	<0.5
L-40N 12+50E	0.20	0.8	71	0.22	0.063	5	56	0.92	136	0.062	<20	1.56	0.008	0.10	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5
L-40N 13+00E	0.30	0.1	87	0.86	0.031	7	75	1.10	243	0.110	<20	1.85	0.018	0.14	0.1	0.05	4.0	0.1	<0.05	5	<0.5
L-40N 13+50E	0.05	<0.1	51	0.23	0.112	3	61	0.73	84	0.100	<20	1.51	0.011	0.09	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5
L-40N 14+00E	0.10	<0.1	67	0.28	0.049	4	93	1.01	72	0.126	<20	1.72	0.010	0.08	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5
L-40N 14+50E	0.10	<0.1	53	0.22	0.096	5	69	0.79	100	0.108	<20	1.55	0.011	0.11	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5
L-40N 15+00E	0.05	<0.1	38	0.14	0.136	3	43	0.44	92	0.088	<20	1.24	0.010	0.08	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5
L-40N 15+50E	0.20	<0.1	65	0.27	0.078	5	66	0.82	67	0.116	<20	1.51	0.011	0.13	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5
L-40N 16+00E	0.10	<0.1	73	0.49	0.017	2	255	1.79	96	0.136	<20	1.92	0.008	0.38	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5
L-40N 16+50E	0.10	<0.1	53	0.39	0.139	2	33	0.74	106	0.095	<20	1.34	0.015	0.11	<0.1	0.01	1.3	0.1	<0.05	4	<0.5
L-40N 17+00E	0.10	<0.1	61	0.24	0.072	2	87	1.08	142	0.134	<20	1.87	0.009	0.19	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5
L-40N 17+50E	0.05	<0.1	83	0.31	0.072	1	198	1.76	104	0.152	<20	2.09	0.008	0.55	<0.1	0.01	1.0	<0.1	<0.05	6	<0.5
L-40N 18+00E	0.05	<0.1	88	0.26	0.096	1	50	1.22	101	0.145	<20	1.76	0.008	0.12	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5
L-40N 18+50E	0.10	<0.1	55	0.20	0.048	2	98	1.09	100	0.105	<20	1.73	0.009	0.12	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5
L-40N 19+00E	0.05	<0.1	42	0.18	0.061	2	69	0.69	70	0.089	<20	1.44	0.011	0.08	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5
L-40N 19+50E	0.10	<0.1	60	0.23	0.074	4	77	0.97	77	0.106	<20	1.86	0.009	0.13	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5
L-40N 20+00E	0.20	<0.1	50	0.20	0.058	4	71	0.77	88	0.096	<20	1.48	0.008	0.10	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5
L-40N 20+50E	0.10	<0.1	52	0.26	0.043	3	181	1.01	103	0.135	<20	1.94	0.009	0.08	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5
L-40N 21+00E	0.05	<0.1	52	0.22	0.041	3	87	1.04	76	0.124	<20	1.79	0.010	0.07	0.1	0.01	1.4	<0.1	<0.05	5	<0.5
L-40N 21+50E	0.05	<0.1	63	0.33	0.056	2	123	1.26	95	0.140	<20	1.99	0.015	0.09	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5
L-40N 22+00E	0.05	<0.1	56	0.26	0.127	3	92	0.89	162	0.117	<20	1.85	0.012	0.13	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5
L-40N 22+50E	0.05	<0.1	58	0.21	0.110	2	204	1.58	119	0.160	<20	2.51	0.008	0.07	<0.1	0.01	1.0	<0.1	<0.05	7	<0.5
L-40N 23+00E	0.05	<0.1	49	0.27	0.143	2	163	0.86	139	0.108	<20	2.26	0.012	0.08	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5
L-40N 23+50E	0.05	<0.1	120	0.37	0.084	2	85	1.76	194	0.212	<20	2.53	0.010	0.24	<0.1	<0.01	3.3	<0.1	<0.05	8	<0.5
L-40N 24+00E	0.10	<0.1	94	0.23	0.072	3	55	0.89	170	0.180	<20	2.06	0.009	0.14	<0.1	<0.01	1.9	<0.1	<0.05	6	<0.5
L-40N 24+50E	0.05	<0.1	72	0.21	0.077	2	74	0.78	198	0.132	<20	1.75	0.012	0.06	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5
L-40N 25+00E	0.05	<0.1	75	0.26	0.171	4	64	0.67	125	0.137	<20	1.69	0.011	0.06	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5
L-42N 04+00E	0.20	0.1	65	0.19	0.126	5	41	0.58	110	0.086	<20	2.28	0.009	0.08	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5
L-42N 04+50E	0.05	<0.1	48	0.13	0.091	3	24	0.44	69	0.090	<20	1.62	0.010	0.04	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5
L-42N 05+00E	0.05	0.1	44	0.13	0.161	3	15	0.46	84	0.083	<20	1.66	0.008	0.04	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5
L-42N 05+50E	0.10	<0.1	49	0.19	0.044	5	34	0.54	80	0.083	<20	1.36	0.009	0.06	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5
L-42N 06+00E																					
L-42N 20+00E																					
L-42N 20+50E	0.20	0.1	60	0.20	0.131	5	70	0.77	135	0.109	<20	2.62	0.009	0.11	0.1	0.02	2.2	<0.1	<0.05	7	<0.5
L-42N 21+00E	0.10	<0.1	54	0.22	0.058	4	78	0.88	93	0.105	<20	1.78	0.010	0.10	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5
L-42N 21+50E	0.05	0.2	75	0.24	0.042	8	76	0.90	72	0.127	<20	1.89	0.010	0.13	<0.1	<0.01	2.6	0.1	<0.05	6	<0.5
L-42N 22+00E	0.10	<0.1	58	0.26	0.052	5	82	0.90	98	0.116	<20	2.09	0.015	0.13	<0.1	<0.01	2.3	<0.1	<0.05	6	<0.5
L-42N 22+50E	0.05	<0.1	102	0.31	0.130	3	112	1.46	142	0.184	<20	2.84	0.015	0.26	<0.1	0.01	2.5	<0.1	<0.05	8	<0.5
L-42N 23+00E	0.05	<0.1	64	0.29	0.065	2	124	1.10	127	0.149	<20	2.18	0.013	0.14	<0.1	<0.01	2.0	<0.1	<0.05	6	<0.5
L-42N 23+50E	0.05	<0.1	150	0.35	0.092	2	114	1.59	238	0.300	<20	2.94	0.011	0.37	<0.1	0.01	2.6	<0.1	<0.05	9	<0.5
L-42N 24+00E	0.20	0.1	70	0.18	0.117	4	52	0.64	119	0.106	<20	2.48	0.009	0.09	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5
L-42N 24+50E	0.05	0.1	88	0.19	0.148	3	66	0.66	169	0.159	<20	1.83	0.011	0.11	<0.1	0.02	1.5	<0.1	<0.05	7	<0.5
L-42N 25+00E	0.10	<0.1	151	0.26	0.132	3	111	0.92	148	0.210	<20	2.07	0.010	0.11	0.1	0.02	1.8	<0.1	<0.05	7	<0.5
L-44N 04+00E	0.05	<0.1	27	0.09	0.077	2	11	0.17	72	0.054	<20	0.74	0.009	0.03	<0.1	0.02	0.7	<0.1	<0.05	3	<0.5
L-44N 04+50E	0.10	<0.1	42	0.19	0.173	4	32	0.55	186	0.070	<20	1.44	0.008	0.08	0.3	0.01	1.8	<0.1	<0.05	5	<0.5
L-44N 05+00E	0.10	0.1	55	0.17	0.081	4	34	0.45	150	0.078	<20	1.94	0.012	0.08	<0.1	0.03	2.0	<0.1	<0.05	6	<0.5
L-44N 05+50E	0.30	0.2	87	0.14	0.176	6	50	0.73	104	0.129	<20	3.16	0.011	0.07	0.2	0.05	3.4	<0.1	<0.05	8	<0.5
L-44N 20+00E																					
L-44N 20+50E	0.20	<0.1	86	0.27	0.074	4	81	1.05	88	0.150	<20	1.99	0.011	0.12	0.1	0.01	3.2	<0.1	<0.05	6	<0.5
L-44N 21+00E	0.20	0.1	60	0.20	0.097	6	64	0.74	93	0.124	<20	1.97	0.010	0.10	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5
L-44N 21+50E	0.10	<0.1	88	0.30	0.109	3	136	1.29	94	0.167	<20	2.12	0.009	0.12	<0.1	<0.01	1.9	<0.1	<0.05	7	<0.5

Sample	Sb_ppm	Bi_ppm	V_ppm	Ca_%	P_%	La_ppm	Cr_ppm	Mg_%	Ba_ppm	Ti_%	B_ppm	Al_%	Na_%	K_%	W_ppm	Hg_ppm	Sc_ppm	Tl_ppm	S_%	Ga_ppm	Se_ppm
L-44N 22+00E	0.20	0.1	47	0.26	0.119	5	41	0.50	90	0.089	<20	1.73	0.010	0.09	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5
L-44N 22+50E	0.10	0.1	53	0.39	0.235	4	78	0.80	138	0.117	<20	2.37	0.011	0.12	0.2	0.02	2.3	<0.1	<0.05	7	<0.5
L-44N 23+00E	0.05	<0.1	60	0.26	0.087	2	139	1.41	94	0.149	<20	2.33	0.011	0.09	<0.1	0.01	1.9	<0.1	<0.05	7	<0.5
L-44N 23+50E	0.05	<0.1	213	0.33	0.088	2	115	2.39	217	0.365	<20	3.12	0.010	1.31	<0.1	<0.01	4.2	0.2	<0.05	10	0.5
L-44N 24+00E	0.20	0.1	51	0.23	0.132	4	43	0.60	166	0.112	<20	2.16	0.008	0.07	0.1	0.02	1.8	<0.1	<0.05	7	<0.5
L-44N 24+50E	0.10	<0.1	65	0.18	0.083	5	49	0.70	107	0.110	<20	1.79	0.009	0.06	<0.1	0.02	2.1	<0.1	<0.05	6	0.5
L-44N 25+00E	0.05	<0.1	56	0.23	0.115	4	42	0.65	108	0.120	<20	1.56	0.012	0.05	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5
L-46N 04+00E	0.20	0.1	68	0.32	0.105	5	31	0.66	193	0.083	<20	1.78	0.011	0.07	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5
L-46N 04+50E	0.10	0.1	49	0.23	0.162	5	39	0.62	120	0.099	<20	1.70	0.017	0.08	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5
L-46N 05+00E	0.05	<0.1	52	0.23	0.137	4	49	0.95	98	0.112	<20	1.82	0.011	0.06	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5
L-46N 05+50E	0.10	0.1	56	0.26	0.031	5	34	0.50	54	0.107	<20	1.25	0.011	0.07	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5
L-46N 20+00E																					
L-46N 20+50E	0.10	<0.1	85	0.37	0.099	2	77	0.94	77	0.130	<20	2.15	0.009	0.13	<0.1	0.02	3.6	<0.1	<0.05	7	<0.5
L-46N 21+00E	0.05	<0.1	28	0.17	0.114	3	30	0.30	74	0.076	<20	1.00	0.013	0.06	<0.1	0.01	1.0	<0.1	<0.05	3	<0.5
L-46N 21+50E	0.10	0.2	73	0.29	0.247	4	52	0.54	107	0.134	<20	2.62	0.009	0.10	0.1	0.03	2.3	<0.1	<0.05	8	<0.5
L-46N 22+00E	0.05	<0.1	113	0.46	0.050	2	159	1.80	100	0.231	<20	2.45	0.017	0.51	<0.1	<0.01	3.5	0.2	<0.05	7	0.6
L-46N 22+50E	0.20	<0.1	53	0.22	0.136	5	53	0.62	112	0.106	<20	1.95	0.012	0.09	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5
L-46N 23+00E	0.20	<0.1	65	0.26	0.068	5	57	0.71	91	0.119	<20	1.96	0.013	0.09	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5
L-46N 23+50E	0.20	<0.1	64	0.28	0.138	5	75	0.83	106	0.129	<20	1.73	0.014	0.11	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5
L-46N 24+00E	0.20	0.1	50	0.29	0.174	6	35	0.51	124	0.092	<20	2.00	0.010	0.14	0.1	0.02	2.2	<0.1	<0.05	6	<0.5
L-46N 24+50E	0.20	<0.1	45	0.20	0.020	8	32	0.43	68	0.092	<20	1.40	0.017	0.10	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5
L-46N 25+00E	0.10	0.1	56	0.19	0.064	3	25	0.39	115	0.080	<20	1.63	0.010	0.06	<0.1	0.02	1.5	<0.1	<0.05	6	0.5
L-48N 20+00E																					
L-48N 23+00E																					

Rock Geochemical Sample Locations and Analytical Results

Sample Number	Northing	Easting	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm
659651	5747423	643579	1.2	64.0	0.8	45	<0.1	33.7	19.6	434	3.06	1.1	<0.1	1.6	<0.1	48	<0.1	<0.1
659652	5748044	643605	0.8	122.9	0.6	42	<0.1	47.8	16.4	467	3.39	0.7	0.1	4.7	0.2	39	<0.1	<0.1
659653	5748283	643552	0.7	74.8	0.6	35	<0.1	17.5	13.8	197	3.51	0.9	0.2	3.2	0.6	80	<0.1	<0.1
659654	5748534	643530	0.4	92.8	0.8	20	<0.1	76.5	10.0	213	1.21	<0.5	0.2	4.0	0.2	58	<0.1	<0.1
659655	5748611	643636	1.2	73.5	1.0	29	<0.1	57.1	14.8	231	1.96	0.9	0.1	0.8	0.2	32	<0.1	<0.1
659656	5749899	643370	0.3	132.0	2.3	26	0.1	100.5	40.2	392	3.91	1.7	<0.1	0.6	0.3	21	0.2	<0.1
659657	5750350	642994	1.1	164.0	1.6	23	0.2	2.2	3.6	502	1.90	<0.5	0.2	28.5	0.6	24	0.5	<0.1
659658	5747888	641495	0.6	104.2	0.7	71	<0.1	14.3	21.8	584	1.65	1.8	<0.1	2.7	0.2	66	<0.1	<0.1
659659	5750161	642796	30.5	2425.7	818.7	1094	37.4	6.1	3.8	747	1.50	134.8	<0.1	1803.6	<0.1	566	36.3	888.7
659668	5750447	642948	0.2	375.0	0.5	29	0.1	14.2	16.6	450	3.18	2.4	0.1	6.1	0.2	49	<0.1	<0.1
659669	5747965	641428	0.7	15.1	1.5	22	<0.1	1.6	4.2	843	1.54	2.8	0.3	0.7	0.2	89	0.2	0.2
826501	5747981	643345	0.3	4.4	0.5	49	<0.1	231.4	53.9	855	4.92	0.7	<0.1	<0.5	<0.1	2	<0.1	0.4
826502	5748082	642982	0.8	268.2	1.4	55	0.1	18.4	20.4	566	3.40	1.6	<0.1	1.7	<0.1	67	0.1	0.4
826503	5748011	642529	0.6	275.6	5.9	32	0.3	15.5	14.6	389	2.65	1.5	<0.1	5.7	0.1	59	0.2	1.6
826504	5747967	642648	0.8	166.3	0.6	33	<0.1	20.3	18.1	396	2.42	1.1	<0.1	2.2	<0.1	69	<0.1	0.1
826505	5747806	642870	0.4	133.6	1.1	53	<0.1	21.9	21.4	456	3.30	0.6	<0.1	1.1	<0.1	88	<0.1	<0.1
826506	5747595	642844	1.0	91.3	1.1	47	<0.1	24.2	25.9	446	2.97	1.3	<0.1	2.0	<0.1	41	<0.1	0.2
826507	5748865	641661	0.5	5.6	0.4	18	<0.1	2.3	5.0	169	1.18	1.0	0.3	1.0	0.3	50	<0.1	<0.1
826508	5748904	641617	0.6	19.1	0.4	27	<0.1	3.5	6.0	220	1.42	0.6	0.3	1.6	0.3	42	<0.1	<0.1
826509	5748759	641581	0.9	170.3	0.9	13	<0.1	2.3	2.0	230	0.95	<0.5	0.4	1.9	0.5	32	<0.1	0.2
826510	5748238	641821	0.7	38.1	0.6	51	<0.1	2.5	9.7	430	1.47	0.9	0.3	2.6	0.3	41	<0.1	<0.1
826511	5748340	642068	0.9	12.5	0.5	36	<0.1	4.5	8.0	347	1.38	1.0	0.2	2.1	0.2	39	<0.1	<0.1
826512	5748347	642045	1.1	9.8	0.9	40	<0.1	3.4	8.0	346	1.62	2.5	0.3	2.0	0.4	44	<0.1	0.1
826513	5748347	641992	0.6	189.4	1.1	46	0.2	5.3	12.6	1004	2.98	1.7	0.2	3.0	0.2	104	0.2	0.3
826514	5749172	641981	1.0	10.5	0.8	22	<0.1	4.7	5.8	261	1.52	1.6	0.3	<0.5	0.3	68	<0.1	0.1
826515	5749245	641858	1.0	459.1	0.7	29	0.5	5.3	9.7	369	2.92	<0.5	0.3	31.1	0.3	44	<0.1	<0.1
826516	5749246	641858	0.7	698.1	1.0	22	0.9	5.5	8.6	333	2.75	<0.5	0.3	33.8	0.3	46	<0.1	<0.1
826517	5749239	641897	0.9	103.9	0.4	33	<0.1	6.7	10.9	447	3.85	0.7	0.3	13.6	0.3	48	<0.1	<0.1
826518	5749240	641897	0.6	83.5	0.7	55	<0.1	10.0	16.5	670	4.24	0.8	0.2	7.7	0.3	45	<0.1	<0.1
826519	5749241	641897	0.5	404.2	0.5	30	0.3	5.8	10.7	477	3.50	0.6	0.2	115.0	0.2	45	<0.1	<0.1
322615	5749544	642769	0.4	18.5	1.6	10	<0.1	4.7	4.4	541	0.82	0.8	<0.1	4.2	<0.1	36	0.1	<0.1
322616	5749370	643391	0.3	143.6	3.1	40	0.2	6.3	13.6	395	3	0.8	0.1	6.8	0.3	64	0.2	0.1
322617	5749176	643335	4.1	52.3	2.5	12	0.1	12.5	14.4	132	3.63	8.7	0.1	1	0.3	35	0.1	0.1
322618	5748985	643335	0.2	48.2	4.8	18	<0.1	1.4	2.4	258	1.2	<0.5	0.7	17	2.3	22	<0.1	<0.1
322619	5748737	643276	0.5	20.3	3.7	15	<0.1	1.9	3	234	1.24	<0.5	0.3	10	1.6	26	<0.1	<0.1
322620	5748660	643170	0.6	623	1.4	46	0.3	31.3	17.4	420	1.76	1	0.1	0.9	0.1	57	0.3	0.1

Rock Geochemical Sample Locations and Analytical Results

Sample Number	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm
659651	<0.1	86	1.03	0.076	<1	65	1.44	345	0.216	<20	1.77	0.116	0.85	<0.1	<0.01	2.7
659652	<0.1	109	1.06	0.097	1	82	1.35	361	0.212	<20	1.73	0.177	0.85	0.1	<0.01	3.3
659653	<0.1	193	0.92	0.139	5	41	0.76	325	0.238	<20	1.79	0.246	0.73	<0.1	<0.01	2.4
659654	<0.1	39	1.22	0.083	2	104	1.08	198	0.090	<20	1.36	0.175	0.31	<0.1	<0.01	3.1
659655	<0.1	65	1.40	0.093	2	105	0.81	105	0.099	<20	1.44	0.081	0.27	<0.1	<0.01	2.5
659656	0.1	60	0.95	0.088	2	95	1.55	26	0.070	<20	1.27	0.047	0.10	0.1	<0.01	3.4
659657	<0.1	8	2.00	0.063	4	5	0.24	116	0.001	<20	0.31	0.025	0.23	<0.1	0.03	2.1
659658	<0.1	74	1.14	0.263	3	28	1.60	44	0.108	<20	1.19	0.045	0.81	0.1	<0.01	1.1
659659	17.9	32	1.15	0.017	<1	13	0.53	227	<0.001	<20	0.07	0.004	0.05	0.3	11.61	1.4
659668	<0.1	123	1.33	0.121	1	31	1.19	44	0.162	<20	1.29	0.143	0.41	<0.1	<0.01	4.8
659669	<0.1	79	2.01	0.198	2	9	0.22	31	0.100	<20	0.72	0.045	0.12	0.2	<0.01	1.8
826501	<0.1	10	0.11	0.005	<1	53	6.64	18	0.007	<20	0.09	0.003	<0.01	<0.1	0.01	2.2
826502	<0.1	82	1.62	0.109	1	20	1.35	50	0.099	<20	1.32	0.053	0.10	<0.1	0.02	3.8
826503	<0.1	71	1.34	0.124	<1	29	1.10	49	0.133	<20	1.21	0.122	0.22	<0.1	0.05	4.9
826504	<0.1	75	1.19	0.116	<1	33	1.25	141	0.197	<20	1.37	0.060	0.56	0.1	0.01	3.4
826505	<0.1	91	1.57	0.113	1	28	1.68	93	0.141	<20	1.75	0.060	0.48	<0.1	<0.01	3.1
826506	<0.1	74	1.08	0.107	<1	33	1.61	359	0.209	<20	1.72	0.045	1.32	0.1	0.01	1.9
826507	<0.1	55	0.98	0.259	<1	6	0.32	24	0.090	<20	0.53	0.072	0.12	0.1	<0.01	2.0
826508	<0.1	74	0.90	0.243	<1	7	0.45	18	0.104	<20	0.52	0.079	0.14	0.1	<0.01	2.4
826509	<0.1	50	0.77	0.209	1	5	0.18	40	0.080	<20	0.40	0.064	0.10	<0.1	<0.01	1.4
826510	<0.1	51	1.11	0.219	2	4	0.72	32	0.085	<20	0.90	0.059	0.14	0.1	<0.01	1.3
826511	<0.1	48	0.96	0.224	1	4	0.51	34	0.093	<20	0.65	0.048	0.14	0.2	<0.01	0.9
826512	<0.1	55	0.75	0.210	2	4	0.51	21	0.102	<20	0.68	0.080	0.21	<0.1	<0.01	1.0
826513	<0.1	106	1.55	0.247	2	11	0.94	31	0.072	<20	0.90	0.048	0.02	1.7	<0.01	4.8
826514	<0.1	65	1.06	0.248	2	12	0.35	28	0.118	<20	0.59	0.052	0.14	0.1	<0.01	2.1
826515	<0.1	104	0.99	0.199	1	14	0.54	31	0.121	<20	0.67	0.062	0.17	0.3	0.23	2.9
826516	<0.1	98	0.91	0.177	1	10	0.29	35	0.097	<20	0.50	0.071	0.07	0.2	2.31	2.0
826517	<0.1	123	1.16	0.201	1	17	0.68	25	0.104	<20	0.73	0.075	0.12	0.2	<0.01	4.1
826518	<0.1	123	1.08	0.222	<1	22	1.10	27	0.098	<20	1.00	0.060	0.10	0.6	0.03	3.8
826519	<0.1	115	1.13	0.205	<1	16	0.64	29	0.100	<20	0.68	0.075	0.12	0.4	0.05	3.9
322615	<0.1	9	0.06	0.037	<1	7	0.02	226	0.002	<20	0.15	0.007	0.17	<0.1	<0.01	1.9
322616	<0.1	86	1.21	0.132	2	14	0.66	74	0.124	<20	1.09	0.102	0.26	0.1	<0.01	3.4
322617	<0.1	54	0.98	0.126	3	12	0.5	42	0.086	<20	1.19	0.042	0.13	<0.1	<0.01	3.1
322618	<0.1	21	0.26	0.038	8	3	0.25	86	0.002	<20	0.49	0.039	0.13	<0.1	<0.01	0.7
322619	<0.1	15	0.48	0.029	7	6	0.22	92	0.002	<20	0.38	0.029	0.11	<0.1	<0.01	0.4
322620	<0.1	52	1.91	0.07	1	56	0.77	41	0.11	<20	0.99	0.026	0.06	0.3	<0.01	1.6

Rock Geochemical Sample Locations and Analytical Results

Sample Number	Tl ppm	S %	Ga ppm	Se ppm
659651	<0.1	0.13	4	0.6
659652	<0.1	<0.05	6	<0.5
659653	<0.1	<0.05	6	<0.5
659654	<0.1	<0.05	3	<0.5
659655	<0.1	0.13	4	<0.5
659656	<0.1	1.11	4	<0.5
659657	<0.1	0.58	<1	<0.5
659658	<0.1	<0.05	4	<0.5
659659	<0.1	0.55	3	2.6
659668	<0.1	<0.05	4	<0.5
659669	<0.1	<0.05	3	<0.5
826501	<0.1	<0.05	<1	<0.5
826502	<0.1	0.28	5	0.9
826503	<0.1	<0.05	3	<0.5
826504	<0.1	<0.05	4	0.7
826505	<0.1	<0.05	5	<0.5
826506	<0.1	0.45	5	<0.5
826507	<0.1	<0.05	2	<0.5
826508	<0.1	<0.05	2	<0.5
826509	<0.1	<0.05	1	<0.5
826510	<0.1	<0.05	3	<0.5
826511	<0.1	<0.05	2	<0.5
826512	<0.1	<0.05	3	<0.5
826513	<0.1	<0.05	4	0.5
826514	<0.1	<0.05	2	<0.5
826515	<0.1	<0.05	3	<0.5
826516	<0.1	<0.05	2	<0.5
826517	<0.1	<0.05	3	<0.5
826518	<0.1	<0.05	4	<0.5
826519	<0.1	<0.05	3	<0.5
322615	<0.1	<0.05	<1	<0.5
322616	<0.1	0.36	4	<0.5
322617	<0.1	1.25	4	<0.5
322618	<0.1	0.11	3	<0.5
322619	<0.1	0.3	2	<0.5
322620	<0.1	0.06	3	<0.5

APPENDIX I

GEOCHEMICAL SURVEY SOIL AND ROCK ACME LAB CERTIFICATES

ACME ANALYTICAL LABORATORIES LTD.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Submitted By:	David Blann
Receiving Lab:	Canada-Vancouver
Received:	July 16, 2008
Report Date:	July 28, 2008
Page:	1 of 10

CERTIFICATE OF ANALYSIS VAN08007370.1

CLIENT JOB INFORMATION

Project:	Hawk
Shipment ID:	244
P.O. Number	
Number of Samples:	246

SAMPLE DISPOSAL

DISP-PLP	Dispose of Pulp After 90 days
STOR-RJT-SOIL	Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
SS80	240	Dry at 60C sieve 100g to -80 mesh		
Dry at 60C	240	Dry at 60C		
RJSV	240	Save all or part of soil reject fraction		
1DX	240	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed
DIS-RJT	240	Warehouse handling / Disposition of reject		

ADDITIONAL COMMENTS

Invoice To: Happy Creek Minerals Ltd.
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2
Canada

CC: D. Ridley
Bob Lane

BRITISH COLUMBIA CERTIFIED ASSAYER
RAYMOND CHAN

ACME ANALYTICAL LABORATORIES LTD.
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Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

CERTIFICATE OF ANALYSIS VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-32N 06+00E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L-32N 06+50E	Soil	0.7	24.3	4.2	40	0.1	19.2	10.7	202	1.94	1.2	0.4	3.8	1.7	24	0.1	0.2	<0.1	60	0.27	0.026
L-32N 07+00E	Soil	0.6	19.3	6.7	103	0.2	20.3	9.9	368	2.00	2.0	0.4	0.7	1.9	18	0.3	0.1	0.1	44	0.17	0.183
L-32N 07+50E	Soil	0.6	19.8	5.5	95	0.1	18.8	10.0	395	1.90	1.3	0.3	5.1	1.7	18	0.2	0.2	<0.1	43	0.20	0.147
L-32N 08+00E	Soil	0.7	19.3	4.6	73	0.1	26.7	10.6	246	2.23	2.2	0.4	0.7	2.2	17	0.2	0.2	<0.1	49	0.19	0.107
L-32N 08+50E	Soil	0.5	29.3	4.6	90	<0.1	24.6	11.9	269	2.38	1.8	0.4	1.9	2.0	22	0.1	0.2	0.1	52	0.27	0.130
L-32N 09+00E	Soil	1.0	19.6	5.9	53	0.1	15.4	8.4	182	1.68	0.6	0.3	3.5	1.4	12	0.1	<0.1	<0.1	42	0.14	0.082
L-32N 09+50E	Soil	0.7	26.4	5.4	180	0.1	25.1	14.2	374	2.78	2.3	0.4	1.7	2.0	47	0.2	0.2	0.1	54	0.43	0.268
L-32N 10+00E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L-32N 10+50E	Soil	0.5	12.8	6.8	71	0.1	19.2	9.5	167	1.77	1.2	0.2	2.5	1.2	19	0.2	<0.1	<0.1	41	0.19	0.115
L-32N 11+00E	Soil	0.5	16.5	5.0	161	0.2	21.7	11.6	318	2.13	1.6	0.3	<0.5	1.4	24	0.3	0.2	0.1	46	0.23	0.197
L-32N 11+50E	Soil	0.6	28.8	5.9	85	0.2	24.6	12.2	352	2.44	1.9	0.4	<0.5	1.8	56	0.3	0.2	0.1	48	0.33	0.237
L-32N 12+00E	Soil	0.4	24.1	5.8	68	0.1	28.6	12.0	232	2.43	1.3	0.5	0.6	1.4	33	0.2	0.1	0.1	53	0.32	0.064
L-32N 12+50E	Soil	0.5	31.8	4.4	67	0.2	25.0	9.7	267	1.83	1.1	0.4	<0.5	1.8	18	0.2	0.2	<0.1	45	0.22	0.033
L-32N 13+00E	Soil	0.5	23.4	4.1	87	0.1	24.9	11.6	261	2.04	1.4	0.3	1.4	1.9	21	0.3	0.2	<0.1	46	0.27	0.067
L-32N 13+50E	Soil	0.5	17.0	4.3	104	<0.1	19.6	10.9	410	1.78	1.2	0.2	<0.5	1.0	15	0.2	<0.1	<0.1	39	0.17	0.138
L-32N 14+00E	Soil	0.5	19.3	4.1	99	0.2	24.3	11.1	332	2.01	1.4	0.3	1.2	1.4	16	0.2	0.1	<0.1	43	0.22	0.114
L-32N 14+50E	Soil	0.4	27.8	4.5	82	0.1	26.8	12.4	294	2.13	1.0	0.2	4.8	1.1	24	0.2	0.1	<0.1	44	0.30	0.127
L-32N 15+00E	Soil	0.4	46.9	3.4	61	0.1	35.0	15.2	323	2.59	1.4	0.3	1.7	1.4	25	0.1	0.2	<0.1	61	0.33	0.043
L-32N 15+50E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L-32N 16+00E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L-32N 16+50E	Soil	0.5	25.4	4.6	72	0.1	24.6	12.8	323	2.01	1.2	0.3	1.0	1.5	20	0.1	0.1	<0.1	48	0.22	0.098
L-32N 17+00E	Soil	0.4	21.8	4.7	75	0.1	23.7	10.4	283	1.74	0.8	0.2	1.0	1.5	16	<0.1	<0.1	<0.1	39	0.21	0.094
L-32N 17+50E	Soil	0.5	54.1	2.6	102	0.1	25.7	23.6	394	3.26	1.1	0.1	0.8	0.4	25	<0.1	<0.1	<0.1	91	0.32	0.056
L-32N 18+00E	Soil	0.6	30.0	5.7	111	0.2	34.3	14.7	412	2.47	1.4	0.3	16.4	1.7	18	0.2	0.1	0.1	49	0.25	0.136
L-32N 18+50E	Soil	0.6	17.4	5.1	78	<0.1	14.5	7.0	479	1.33	0.9	0.2	0.6	0.8	15	0.1	<0.1	<0.1	35	0.18	0.133
L-32N 19+00E	Soil	1.0	83.8	3.3	93	0.1	31.4	26.7	408	3.16	2.0	0.1	<0.5	0.5	23	0.1	<0.1	0.1	81	0.32	0.045
L-32N 19+50E	Soil	1.6	134.3	2.6	110	0.1	38.5	30.4	754	5.05	2.0	<0.1	0.6	0.3	26	<0.1	<0.1	<0.1	123	0.28	0.103
L-32N 20+00E	Soil	0.5	37.9	4.2	69	<0.1	27.2	14.8	367	2.31	1.3	0.2	0.8	1.2	16	0.1	0.1	<0.1	56	0.22	0.080
L-32N 20+50E	Soil	0.3	107.4	0.8	82	<0.1	36.2	32.1	526	3.91	1.1	0.1	<0.5	0.2	40	<0.1	<0.1	<0.1	112	0.49	0.085

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www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

CERTIFICATE OF ANALYSIS VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
L-32N 06+00E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L-32N 06+50E	Soil	6	34	0.65	44	0.125	<20	1.31	0.023	0.09	<0.1	0.01	2.1	<0.1	<0.05	5	0.5
L-32N 07+00E	Soil	5	30	0.46	123	0.099	<20	1.72	0.015	0.08	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5
L-32N 07+50E	Soil	6	33	0.48	129	0.091	<20	1.39	0.014	0.07	0.2	<0.01	1.9	<0.1	<0.05	5	<0.5
L-32N 08+00E	Soil	7	42	0.59	109	0.096	<20	1.59	0.013	0.08	0.1	0.02	2.1	<0.1	<0.05	5	<0.5
L-32N 08+50E	Soil	6	39	0.61	98	0.100	<20	1.80	0.011	0.16	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5
L-32N 09+00E	Soil	4	27	0.36	59	0.081	<20	1.44	0.016	0.06	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5
L-32N 09+50E	Soil	5	44	0.68	166	0.079	<20	2.09	0.009	0.15	0.2	0.02	2.6	<0.1	<0.05	6	0.5
L-32N 10+00E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L-32N 10+50E	Soil	4	39	0.59	83	0.092	<20	1.40	0.009	0.06	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5
L-32N 11+00E	Soil	4	40	0.61	150	0.083	<20	1.58	0.009	0.09	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5
L-32N 11+50E	Soil	6	48	0.55	180	0.092	<20	1.76	0.019	0.10	<0.1	0.02	2.8	<0.1	<0.05	5	0.7
L-32N 12+00E	Soil	5	42	0.60	115	0.108	<20	1.83	0.016	0.09	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5
L-32N 12+50E	Soil	7	40	0.54	62	0.105	<20	1.18	0.015	0.10	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5
L-32N 13+00E	Soil	6	47	0.54	91	0.105	<20	1.30	0.015	0.14	<0.1	0.01	2.3	<0.1	<0.05	4	0.5
L-32N 13+50E	Soil	3	34	0.53	121	0.086	<20	1.19	0.012	0.08	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5
L-32N 14+00E	Soil	4	45	0.57	135	0.092	<20	1.42	0.011	0.11	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5
L-32N 14+50E	Soil	3	59	0.69	159	0.088	<20	1.39	0.011	0.12	0.1	0.02	1.8	<0.1	<0.05	5	<0.5
L-32N 15+00E	Soil	5	76	0.95	81	0.113	<20	1.44	0.016	0.17	0.1	0.01	2.6	<0.1	<0.05	5	<0.5
L-32N 15+50E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L-32N 16+00E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L-32N 16+50E	Soil	5	55	0.65	95	0.104	<20	1.31	0.017	0.09	<0.1	0.01	2.1	<0.1	<0.05	4	<0.5
L-32N 17+00E	Soil	4	42	0.51	120	0.100	<20	1.32	0.014	0.09	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5
L-32N 17+50E	Soil	2	41	1.39	63	0.173	<20	1.94	0.014	0.12	<0.1	<0.01	1.8	<0.1	<0.05	6	<0.5
L-32N 18+00E	Soil	5	61	0.73	161	0.119	<20	1.94	0.013	0.14	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5
L-32N 18+50E	Soil	2	26	0.35	145	0.085	<20	0.94	0.015	0.08	0.2	0.01	1.2	<0.1	<0.05	3	<0.5
L-32N 19+00E	Soil	2	40	1.17	116	0.174	<20	1.88	0.010	0.51	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5
L-32N 19+50E	Soil	1	65	1.81	165	0.190	<20	2.33	0.008	0.98	<0.1	0.01	4.0	0.2	<0.05	8	<0.5
L-32N 20+00E	Soil	3	50	0.84	109	0.116	<20	1.52	0.011	0.26	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5
L-32N 20+50E	Soil	1	47	2.08	155	0.221	<20	2.33	0.007	0.96	<0.1	<0.01	1.7	0.1	<0.05	6	<0.5

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Project: Hawk
Report Date: July 28, 2008

CERTIFICATE OF ANALYSIS VAN08007370.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-32N 21+00E	Soil		0.5	41.6	4.1	70	0.1	41.9	16.8	258	2.58	3.5	0.3	0.9	1.6	18	0.1	0.2	<0.1	58	0.29	0.100
L-32N 21+50E	Soil		0.5	63.3	2.8	68	<0.1	32.3	22.2	450	3.07	0.5	0.1	<0.5	0.5	25	<0.1	<0.1	<0.1	86	0.31	0.035
L-32N 22+00E	Soil		0.4	48.0	3.0	67	<0.1	27.9	20.4	333	2.37	0.9	0.1	<0.5	0.4	19	<0.1	<0.1	<0.1	63	0.32	0.061
L-32N 22+50E	Soil		0.4	171.2	3.8	66	<0.1	39.3	18.9	364	2.56	1.2	0.2	<0.5	0.9	19	<0.1	<0.1	<0.1	75	0.35	0.049
L-32N 23+00E	Soil		0.4	40.3	3.5	81	<0.1	28.8	16.9	456	2.73	1.0	0.2	5.7	1.0	19	<0.1	<0.1	<0.1	67	0.33	0.080
L-32N 23+50E	Soil		0.2	189.3	2.2	73	0.1	58.1	23.8	347	3.41	1.3	0.1	<0.5	0.5	19	<0.1	<0.1	<0.1	84	0.39	0.098
L-32N 24+00E	Soil		0.5	128.6	4.4	99	0.1	25.8	27.7	1096	4.65	0.9	0.2	2.2	0.7	24	0.1	<0.1	<0.1	119	0.41	0.069
L-32N 24+50E	Soil		0.7	31.7	4.5	102	0.1	40.3	13.2	431	2.41	1.0	0.2	1.0	0.8	19	0.1	<0.1	<0.1	53	0.21	0.113
L-32N 25+00E	Soil		0.6	37.9	3.7	79	<0.1	39.0	15.3	268	2.77	1.0	0.2	0.9	1.4	15	0.1	0.1	<0.1	66	0.21	0.088
L-34N 07+50E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L-34N 08+00E	Soil		0.8	21.5	4.1	36	<0.1	18.2	9.1	146	1.93	1.1	0.2	0.6	1.0	18	<0.1	0.1	<0.1	58	0.20	0.011
L-34N 08+50E	Soil		0.6	30.2	6.8	93	0.2	30.8	12.8	251	2.39	2.2	0.3	1.1	1.6	26	0.3	0.1	0.1	50	0.32	0.202
L-34N 09+00E	Soil		0.4	31.8	3.7	100	0.1	30.4	12.0	271	2.16	1.9	0.3	<0.5	1.8	23	0.2	0.1	<0.1	51	0.23	0.126
L-34N 09+50E	Soil		0.4	15.3	4.2	109	0.1	19.9	8.9	498	1.60	1.1	0.2	<0.5	1.2	16	0.2	<0.1	<0.1	40	0.18	0.104
L-34N 10+00E	Soil		0.7	29.0	3.4	72	0.1	26.3	12.9	532	2.18	2.2	0.3	1.9	2.1	22	0.2	0.2	<0.1	59	0.27	0.064
L-34N 10+50E	Soil		0.6	18.7	4.2	76	0.1	21.8	9.6	242	1.89	1.4	0.3	1.3	1.3	17	0.2	0.2	<0.1	50	0.20	0.072
L-34N 11+00E	Soil		0.5	22.4	3.8	91	0.2	25.1	11.2	237	1.90	1.4	0.3	1.3	1.4	19	0.2	0.1	<0.1	46	0.23	0.093
L-34N 11+50E	Soil		0.5	20.4	3.6	65	0.1	20.5	10.2	309	1.92	1.1	0.3	1.5	1.3	19	0.2	0.1	<0.1	53	0.24	0.068
L-34N 12+00E	Soil		0.6	24.0	4.9	126	0.2	33.9	13.5	263	2.31	1.8	0.4	7.2	2.3	16	0.2	<0.1	<0.1	46	0.20	0.205
L-34N 12+50E	Soil		0.7	92.3	4.2	107	0.1	21.9	14.1	392	2.24	1.4	0.3	0.9	1.2	16	<0.1	0.1	<0.1	63	0.19	0.102
L-34N 13+00E	Soil		0.7	29.9	6.3	77	0.2	28.9	12.4	270	2.29	2.4	0.4	0.8	1.5	17	0.1	0.1	0.1	55	0.19	0.136
L-34N 13+50E	Soil		0.6	29.6	5.0	102	0.2	32.5	13.5	238	2.41	2.0	0.3	<0.5	1.5	20	0.2	<0.1	0.1	58	0.24	0.130
L-34N 14+00E	Soil		0.5	19.7	4.1	80	0.1	25.4	11.6	326	2.15	2.1	0.3	1.0	1.7	19	0.2	0.2	<0.1	52	0.24	0.100
L-34N 14+50E	Soil		0.7	23.7	9.0	84	<0.1	26.6	11.3	388	2.38	2.1	0.4	<0.5	1.9	19	<0.1	0.1	<0.1	54	0.24	0.136
L-34N 15+00E	Soil		0.6	23.3	4.8	92	0.2	30.9	12.5	350	2.30	1.8	0.3	0.6	1.7	21	0.1	<0.1	<0.1	51	0.25	0.168
L-34N 15+50E	Soil		0.7	21.4	4.8	107	0.1	22.3	10.7	502	1.96	1.5	0.3	0.9	1.6	20	0.2	<0.1	0.1	45	0.24	0.142
L-34N 16+00E	Soil		0.7	19.1	5.3	135	0.2	25.2	14.0	229	2.46	1.6	0.4	2.3	1.4	22	0.2	0.1	0.1	55	0.25	0.067
L-34N 16+50E	Soil		0.5	45.2	2.8	106	<0.1	30.3	20.0	439	2.65	1.8	0.1	<0.5	0.6	25	0.1	<0.1	<0.1	68	0.35	0.139
L-34N 17+00E	Soil		0.5	33.1	4.0	100	0.1	36.2	15.3	363	2.21	1.7	0.2	<0.5	1.4	21	0.2	0.1	<0.1	54	0.27	0.118
L-34N 17+50E	Soil		0.5	53.8	4.1	126	0.2	40.7	17.8	445	2.50	1.7	0.3	1.1	1.5	21	0.2	<0.1	<0.1	54	0.32	0.223

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www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

CERTIFICATE OF ANALYSIS VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
L-32N 21+00E	Soil	5	100	0.97	102	0.120	<20	1.87	0.011	0.15	<0.1	0.01	2.0	<0.1	<0.05	5	0.7
L-32N 21+50E	Soil	1	52	1.34	150	0.190	<20	1.95	0.011	0.52	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5
L-32N 22+00E	Soil	1	61	1.24	110	0.164	<20	1.85	0.010	0.09	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5
L-32N 22+50E	Soil	3	93	1.22	66	0.149	<20	1.94	0.013	0.27	<0.1	<0.01	2.9	0.1	<0.05	6	<0.5
L-32N 23+00E	Soil	3	52	0.99	136	0.140	<20	1.65	0.012	0.17	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5
L-32N 23+50E	Soil	2	259	1.67	96	0.140	<20	2.24	0.006	0.11	<0.1	<0.01	1.8	<0.1	<0.05	6	0.5
L-32N 24+00E	Soil	2	47	1.42	338	0.185	<20	2.35	0.008	0.55	0.1	0.02	2.5	0.1	<0.05	8	<0.5
L-32N 24+50E	Soil	2	45	0.64	124	0.100	<20	1.67	0.012	0.07	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5
L-32N 25+00E	Soil	4	70	0.90	181	0.122	<20	1.83	0.008	0.13	<0.1	<0.01	1.7	<0.1	<0.05	6	<0.5
L-34N 07+50E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L-34N 08+00E	Soil	5	34	0.47	52	0.117	<20	1.17	0.013	0.08	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5
L-34N 08+50E	Soil	4	48	0.57	150	0.114	<20	2.11	0.014	0.13	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5
L-34N 09+00E	Soil	6	46	0.57	102	0.113	<20	1.61	0.014	0.10	0.1	0.01	2.2	<0.1	<0.05	5	<0.5
L-34N 09+50E	Soil	4	33	0.41	99	0.095	<20	1.09	0.015	0.07	0.3	0.01	1.4	<0.1	<0.05	4	<0.5
L-34N 10+00E	Soil	7	56	0.63	94	0.127	<20	1.20	0.014	0.16	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5
L-34N 10+50E	Soil	5	36	0.47	88	0.109	<20	1.42	0.017	0.11	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5
L-34N 11+00E	Soil	5	42	0.48	113	0.102	<20	1.39	0.015	0.10	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5
L-34N 11+50E	Soil	5	39	0.53	104	0.113	<20	1.27	0.014	0.10	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5
L-34N 12+00E	Soil	8	48	0.56	154	0.110	<20	1.88	0.014	0.09	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5
L-34N 12+50E	Soil	4	33	0.69	103	0.104	<20	1.85	0.009	0.07	0.1	0.02	2.0	<0.1	<0.05	5	<0.5
L-34N 13+00E	Soil	6	50	0.59	90	0.116	<20	1.86	0.015	0.09	<0.1	0.02	2.5	<0.1	<0.05	6	0.5
L-34N 13+50E	Soil	5	53	0.63	105	0.123	<20	1.91	0.014	0.09	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5
L-34N 14+00E	Soil	6	52	0.61	132	0.114	<20	1.57	0.014	0.09	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5
L-34N 14+50E	Soil	5	53	0.68	246	0.107	<20	1.82	0.014	0.09	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5
L-34N 15+00E	Soil	5	54	0.59	117	0.119	<20	1.92	0.015	0.10	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5
L-34N 15+50E	Soil	6	42	0.50	156	0.110	<20	1.50	0.017	0.10	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5
L-34N 16+00E	Soil	5	55	0.57	106	0.126	<20	1.83	0.013	0.08	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5
L-34N 16+50E	Soil	2	88	1.04	127	0.134	<20	1.56	0.013	0.18	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5
L-34N 17+00E	Soil	5	68	0.78	141	0.124	<20	1.67	0.015	0.12	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5
L-34N 17+50E	Soil	4	84	0.88	166	0.131	<20	2.09	0.014	0.15	0.1	0.02	2.4	<0.1	<0.05	6	<0.5

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Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

CERTIFICATE OF ANALYSIS VAN08007370.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-34N 18+00E	Soil		0.5	30.0	4.0	107	0.2	31.9	13.8	317	1.86	0.8	0.2	1.2	1.0	20	0.2	<0.1	<0.1	46	0.25	0.079
L-34N 18+50E	Soil		0.7	29.9	5.4	142	0.2	39.7	15.4	303	2.39	1.3	0.3	0.5	1.6	17	0.1	0.1	0.1	53	0.24	0.124
L-34N 19+00E	Soil		0.6	35.2	4.4	100	0.1	32.4	17.0	475	2.34	1.1	0.2	0.7	0.9	16	0.2	<0.1	<0.1	57	0.23	0.104
L-34N 19+50E	Soil		0.4	13.9	4.9	114	<0.1	19.7	11.5	449	1.71	0.9	0.2	<0.5	0.9	17	0.1	<0.1	<0.1	38	0.16	0.223
L-34N 20+00E	Soil		0.5	97.5	4.2	71	0.3	37.3	16.6	307	2.79	2.3	0.3	1.4	1.8	27	0.2	0.2	<0.1	70	0.48	0.024
L-34N 20+50E	Soil		0.9	315.8	8.4	103	0.7	75.3	17.4	941	3.64	3.1	0.4	4.7	2.1	41	0.4	0.2	0.2	83	0.73	0.045
L-34N 21+00E	Soil		0.5	42.5	4.5	85	0.1	23.8	11.6	251	1.93	1.3	0.2	<0.5	1.0	12	<0.1	0.1	0.1	47	0.18	0.103
L-34N 21+50E	Soil		0.5	62.2	3.6	95	0.1	50.9	22.6	478	2.96	1.8	0.3	1.8	1.0	23	0.1	0.1	<0.1	80	0.48	0.054
L-34N 22+00E	Soil		0.6	20.4	3.9	65	0.1	24.1	10.8	219	1.95	1.4	0.3	12.5	1.8	14	<0.1	0.1	<0.1	54	0.22	0.073
L-34N 22+50E	Soil		0.6	20.2	4.1	104	0.2	26.1	12.8	260	2.23	1.6	0.4	3.9	2.1	17	0.1	0.2	<0.1	54	0.30	0.119
L-34N 23+00E	Soil		0.6	16.7	5.3	65	0.2	13.7	7.6	470	1.57	1.3	0.2	0.8	0.8	16	0.2	<0.1	0.1	40	0.25	0.160
L-34N 23+50E	Soil		0.5	31.8	5.1	66	0.2	30.0	10.5	253	1.99	1.1	0.3	0.6	1.3	17	0.1	<0.1	<0.1	49	0.27	0.092
L-34N 24+00E	Soil		0.8	24.1	5.7	91	<0.1	28.8	13.8	252	2.19	1.1	0.2	<0.5	1.0	16	0.2	<0.1	<0.1	58	0.19	0.093
L-34N 24+50E	Soil		0.4	30.2	5.6	111	0.1	52.4	17.2	592	2.77	0.8	0.2	0.8	0.9	22	0.5	<0.1	<0.1	75	0.51	0.036
L-34N 25+00E	Soil		0.7	26.4	4.6	98	<0.1	36.3	14.2	388	2.33	1.5	0.3	1.3	1.3	15	0.1	0.1	<0.1	56	0.21	0.126
L-36N 04+00E	Soil		0.6	10.3	5.0	114	<0.1	10.9	6.1	477	1.29	0.9	0.3	<0.5	1.0	27	0.3	<0.1	<0.1	33	0.25	0.154
L-36N 04+50E	Soil		0.3	23.6	4.2	91	0.1	12.4	8.4	298	1.30	0.7	0.2	<0.5	0.9	14	<0.1	<0.1	<0.1	36	0.19	0.104
L-36N 05+00E	Soil		0.3	13.5	3.0	58	<0.1	19.1	8.8	255	1.50	0.9	0.2	<0.5	1.2	14	<0.1	<0.1	<0.1	39	0.22	0.067
L-36N 05+50E	Soil		0.3	35.4	4.1	110	0.1	26.9	10.5	260	1.77	1.3	0.3	<0.5	1.4	15	0.2	<0.1	<0.1	44	0.25	0.103
L-36N 06+00E	Soil		0.4	38.5	4.3	84	0.1	25.3	11.1	228	1.84	1.4	0.3	1.0	1.6	14	0.2	0.1	<0.1	46	0.20	0.074
L-36N 06+50E	Soil		0.3	68.7	3.6	118	0.1	17.2	13.3	375	1.61	1.2	0.2	<0.5	1.0	15	0.1	<0.1	<0.1	56	0.20	0.116
L-36N 07+00E	Soil		0.4	23.8	3.7	66	<0.1	18.5	10.1	309	1.67	1.2	0.2	1.6	1.4	12	0.1	<0.1	<0.1	42	0.19	0.098
L-36N 07+50E	Soil		0.5	31.9	5.0	94	0.1	17.0	10.1	283	1.77	1.3	0.3	<0.5	1.3	16	0.2	<0.1	<0.1	45	0.26	0.109
L-36N 08+00E	Soil		0.7	86.1	8.5	69	0.5	46.8	14.8	952	3.16	2.5	0.4	1.6	2.5	31	0.3	0.2	0.1	61	0.54	0.027
L-36N 08+50E	Soil		0.5	20.9	5.1	116	0.1	31.0	11.5	237	2.01	2.2	0.2	<0.5	1.6	10	0.2	<0.1	<0.1	42	0.17	0.149
L-36N 09+00E	Soil		0.6	59.6	5.1	52	0.3	32.0	14.2	873	2.94	3.7	0.5	1.3	1.9	29	0.1	0.1	<0.1	70	0.61	0.039
L-36N 09+50E	Soil		0.4	15.6	3.8	87	<0.1	22.0	10.1	501	1.71	1.2	0.3	<0.5	1.5	14	0.2	0.1	<0.1	43	0.21	0.101
L-36N 10+00E	Soil		0.5	17.6	3.4	71	0.1	21.1	11.4	230	1.89	1.6	0.3	<0.5	1.5	12	0.2	0.1	<0.1	48	0.22	0.115
L-36N 10+50E	Soil		0.6	17.2	4.3	95	0.3	25.7	11.4	320	1.83	1.8	0.4	<0.5	1.4	14	0.2	0.1	<0.1	46	0.23	0.090
L-36N 11+00E	Soil		0.6	17.7	5.2	71	0.2	17.8	9.5	356	1.66	1.7	0.3	2.0	1.3	14	0.2	<0.1	<0.1	39	0.19	0.157

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Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

CERTIFICATE OF ANALYSIS VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
L-34N 18+00E	Soil	4	58	0.69	101	0.129	<20	1.53	0.016	0.11	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5
L-34N 18+50E	Soil	5	70	0.74	149	0.134	<20	2.14	0.015	0.13	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5
L-34N 19+00E	Soil	3	81	0.83	124	0.132	<20	1.70	0.012	0.12	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5
L-34N 19+50E	Soil	3	55	0.45	220	0.096	<20	1.24	0.016	0.07	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5
L-34N 20+00E	Soil	7	70	0.84	92	0.151	<20	1.68	0.015	0.19	<0.1	0.01	3.0	<0.1	<0.05	5	<0.5
L-34N 20+50E	Soil	11	77	0.81	215	0.148	<20	2.76	0.026	0.24	<0.1	0.08	5.8	0.2	<0.05	6	0.8
L-34N 21+00E	Soil	3	56	0.53	79	0.098	<20	1.30	0.012	0.09	0.1	0.01	1.8	<0.1	<0.05	4	<0.5
L-34N 21+50E	Soil	4	131	1.31	91	0.160	<20	1.92	0.014	0.33	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5
L-34N 22+00E	Soil	6	41	0.48	78	0.107	<20	1.40	0.014	0.10	0.1	0.01	1.8	<0.1	<0.05	4	<0.5
L-34N 22+50E	Soil	7	50	0.61	121	0.113	<20	1.63	0.017	0.14	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5
L-34N 23+00E	Soil	3	36	0.34	175	0.097	<20	1.11	0.014	0.09	<0.1	0.03	1.2	<0.1	<0.05	5	<0.5
L-34N 23+50E	Soil	5	56	0.54	126	0.110	<20	1.55	0.018	0.10	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5
L-34N 24+00E	Soil	4	43	0.54	91	0.122	<20	1.57	0.016	0.09	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5
L-34N 24+50E	Soil	4	53	1.04	154	0.197	<20	2.08	0.018	0.15	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5
L-34N 25+00E	Soil	5	62	0.61	152	0.121	<20	1.77	0.012	0.09	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5
L-36N 04+00E	Soil	4	18	0.27	154	0.080	<20	0.95	0.016	0.07	<0.1	0.02	1.4	<0.1	<0.05	3	0.5
L-36N 04+50E	Soil	3	15	0.40	113	0.063	<20	1.08	0.015	0.05	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5
L-36N 05+00E	Soil	4	35	0.42	90	0.077	<20	1.07	0.013	0.07	<0.1	<0.01	1.3	<0.1	<0.05	3	<0.5
L-36N 05+50E	Soil	4	36	0.59	118	0.075	<20	1.57	0.013	0.12	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5
L-36N 06+00E	Soil	6	39	0.55	99	0.082	<20	1.44	0.015	0.08	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5
L-36N 06+50E	Soil	3	24	0.87	104	0.077	<20	1.68	0.010	0.06	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5
L-36N 07+00E	Soil	5	35	0.44	85	0.069	<20	1.09	0.010	0.08	<0.1	0.01	1.6	<0.1	<0.05	4	<0.5
L-36N 07+50E	Soil	4	31	0.44	93	0.070	<20	1.24	0.012	0.09	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5
L-36N 08+00E	Soil	7	61	0.67	169	0.102	<20	2.44	0.018	0.20	0.1	0.03	5.0	0.2	<0.05	6	<0.5
L-36N 08+50E	Soil	4	44	0.51	136	0.070	<20	1.59	0.009	0.09	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5
L-36N 09+00E	Soil	6	58	0.86	131	0.101	<20	2.07	0.021	0.17	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5
L-36N 09+50E	Soil	5	38	0.48	96	0.076	<20	1.14	0.011	0.07	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5
L-36N 10+00E	Soil	5	42	0.54	82	0.077	<20	1.22	0.017	0.06	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5
L-36N 10+50E	Soil	5	41	0.57	114	0.083	<20	1.38	0.013	0.10	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5
L-36N 11+00E	Soil	4	34	0.42	133	0.066	<20	1.17	0.011	0.09	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5

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Vancouver BC V6E 3X2 Canada

Project: Hawk
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CERTIFICATE OF ANALYSIS VAN08007370.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-36N 11+50E	Soil		0.4	46.0	5.0	60	0.1	29.1	12.5	243	2.24	1.5	0.4	<0.5	1.4	19	0.2	0.1	<0.1	59	0.25	0.037
L-36N 12+00E	Soil		0.5	105.9	6.3	89	0.4	45.2	17.5	1067	2.92	2.2	0.4	0.7	1.7	37	0.5	0.2	<0.1	61	0.57	0.023
L-36N 12+50E	Soil		0.6	79.2	4.7	66	0.4	40.2	19.7	526	3.31	2.4	0.6	3.0	1.6	26	0.3	0.2	<0.1	83	0.53	0.035
L-36N 13+00E	Soil		0.7	52.5	4.6	47	0.2	33.2	20.4	538	3.14	2.9	0.4	1.2	2.0	29	0.2	0.2	<0.1	80	0.55	0.019
L-36N 13+50E	Soil		0.7	26.6	5.6	137	0.3	30.7	13.7	363	2.33	2.1	0.3	<0.5	1.3	12	0.2	<0.1	<0.1	52	0.20	0.200
L-36N 14+00E	Soil		0.6	49.4	5.0	148	0.2	37.8	20.0	409	3.08	4.3	0.3	<0.5	1.2	21	0.3	<0.1	<0.1	66	0.40	0.570
L-36N 14+50E	Soil		0.5	27.7	5.3	119	0.1	27.9	16.8	335	2.58	2.4	0.3	<0.5	1.4	19	0.3	<0.1	<0.1	59	0.28	0.252
L-36N 15+00E	Soil		0.6	39.0	4.5	82	0.3	31.0	15.4	262	2.57	2.6	0.3	1.1	1.6	16	0.2	0.1	<0.1	68	0.29	0.085
L-36N 15+50E	Soil		0.6	39.6	3.3	48	<0.1	37.6	19.3	329	2.96	3.1	0.3	7.8	1.4	22	0.1	0.1	<0.1	84	0.40	0.070
L-36N 16+00E	Soil		0.8	34.0	5.3	108	0.2	36.5	18.6	308	2.81	2.5	0.3	1.1	1.5	21	0.3	<0.1	<0.1	67	0.31	0.163
L-36N 16+50E	Soil		0.6	41.7	4.4	90	0.2	36.1	17.6	274	2.51	2.2	0.3	<0.5	1.5	15	0.2	0.1	<0.1	55	0.24	0.132
L-36N 17+00E	Soil		0.2	50.9	2.9	60	0.1	29.0	17.0	291	2.39	0.9	0.1	<0.5	0.7	14	0.1	<0.1	<0.1	59	0.27	0.071
L-36N 17+50E	Soil		0.5	46.9	3.2	71	<0.1	43.1	17.1	288	2.07	1.1	0.2	<0.5	0.8	11	0.2	<0.1	<0.1	46	0.23	0.066
L-36N 18+00E	Soil		0.8	33.0	5.5	58	0.1	25.9	13.8	292	1.72	1.2	0.1	<0.5	0.6	10	<0.1	<0.1	<0.1	45	0.19	0.055
L-36N 18+50E	Soil		0.5	37.6	4.3	91	0.2	28.6	17.1	487	2.25	1.0	0.1	<0.5	0.7	13	0.1	<0.1	<0.1	60	0.26	0.067
L-36N 19+00E	Soil		0.7	86.5	4.2	90	0.2	38.0	18.0	333	3.01	2.1	0.2	<0.5	1.3	16	0.2	<0.1	<0.1	71	0.33	0.128
L-36N 19+50E	Soil		0.3	89.3	2.9	104	0.1	47.9	27.3	694	4.00	0.8	<0.1	1.9	0.4	12	0.1	<0.1	<0.1	119	0.32	0.055
L-36N BL 20+00E	Soil		0.4	40.4	4.2	65	<0.1	29.0	17.6	316	2.79	1.5	0.2	<0.5	0.9	10	0.1	<0.1	<0.1	70	0.25	0.061
L-36N 20+50E	Soil		0.6	63.6	4.8	67	0.1	32.8	15.7	390	2.75	1.4	0.2	<0.5	0.9	12	<0.1	<0.1	<0.1	80	0.26	0.046
L-36N 21+00E	Soil		0.7	136.1	2.3	64	<0.1	29.5	23.5	380	4.18	2.1	0.1	2.5	0.8	15	<0.1	<0.1	<0.1	120	0.32	0.063
L-36N 21+50E	Soil		0.6	14.1	4.6	92	0.1	25.0	11.1	311	1.95	1.7	0.3	2.5	1.8	12	0.3	0.1	<0.1	43	0.23	0.099
L-36N 22+00E	Soil		0.7	52.6	4.3	32	<0.1	39.7	17.2	232	2.15	1.6	0.4	0.9	1.9	16	<0.1	0.1	<0.1	67	0.42	0.008
L-36N 22+50E	Soil		0.5	23.5	4.1	41	0.1	31.8	13.7	296	2.14	1.3	0.4	1.3	2.3	20	<0.1	0.2	<0.1	71	0.32	0.016
L-36N 23+00E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L-36N 23+50E	Soil		0.3	90.0	4.7	46	<0.1	70.9	21.8	336	3.49	2.6	0.5	11.9	2.9	31	0.1	0.2	0.1	88	0.60	0.022
L-36N 24+00E	Soil		1.4	135.2	4.6	89	0.4	67.4	23.3	390	3.71	2.6	0.4	2.7	1.7	32	0.3	0.2	0.1	101	0.62	0.027
L-36N 24+50E	Soil		0.5	24.4	3.5	90	<0.1	46.2	15.1	313	2.45	0.9	0.3	3.6	1.7	13	0.2	<0.1	<0.1	54	0.20	0.099
L-36N 25+00E	Soil		0.3	11.8	2.8	48	0.1	32.9	9.3	134	1.73	1.0	0.4	0.7	2.4	10	<0.1	<0.1	0.1	37	0.18	0.092
L-38N 04+00E	Soil		0.5	56.8	4.5	79	0.4	33.3	14.2	380	2.44	1.8	0.3	2.7	2.0	49	0.3	0.2	<0.1	59	0.88	0.039
L-38N 04+50E	Soil		0.4	21.6	4.3	85	0.2	20.9	9.2	218	1.63	1.1	0.3	182.3	1.0	14	0.1	<0.1	<0.1	41	0.20	0.082

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	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
L-36N 11+50E	Soil	5	50	0.55	82	0.084	<20	1.49	0.019	0.10	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5
L-36N 12+00E	Soil	6	58	0.86	163	0.100	<20	1.99	0.021	0.19	0.9	0.03	3.7	0.1	<0.05	5	<0.5
L-36N 12+50E	Soil	5	73	1.09	108	0.114	<20	2.03	0.018	0.19	<0.1	0.03	3.6	0.1	<0.05	6	<0.5
L-36N 13+00E	Soil	6	79	1.12	93	0.112	<20	1.83	0.018	0.22	<0.1	<0.01	3.8	<0.1	<0.05	5	<0.5
L-36N 13+50E	Soil	5	58	0.63	127	0.085	<20	1.95	0.011	0.09	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5
L-36N 14+00E	Soil	3	76	1.12	294	0.116	<20	2.74	0.011	0.15	0.1	0.03	2.5	<0.1	<0.05	7	<0.5
L-36N 14+50E	Soil	4	61	0.75	133	0.096	<20	1.85	0.012	0.07	<0.1	<0.01	1.9	<0.1	<0.05	6	<0.5
L-36N 15+00E	Soil	5	63	0.73	92	0.100	<20	1.73	0.013	0.11	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5
L-36N 15+50E	Soil	5	87	1.16	64	0.114	<20	1.62	0.016	0.14	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5
L-36N 16+00E	Soil	4	63	0.74	107	0.098	<20	2.19	0.011	0.11	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5
L-36N 16+50E	Soil	4	83	0.79	124	0.084	<20	1.66	0.011	0.13	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5
L-36N 17+00E	Soil	2	56	0.97	75	0.094	<20	1.46	0.007	0.13	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5
L-36N 17+50E	Soil	2	101	0.97	99	0.092	<20	1.58	0.010	0.13	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5
L-36N 18+00E	Soil	2	52	0.65	92	0.093	<20	1.14	0.010	0.11	<0.1	<0.01	1.1	<0.1	<0.05	4	<0.5
L-36N 18+50E	Soil	2	58	0.76	121	0.116	<20	1.53	0.010	0.15	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5
L-36N 19+00E	Soil	3	84	0.90	159	0.105	<20	2.01	0.011	0.17	0.1	<0.01	1.9	<0.1	<0.05	6	<0.5
L-36N 19+50E	Soil	<1	176	1.75	128	0.160	<20	2.31	0.009	0.63	<0.1	<0.01	2.8	0.1	<0.05	8	<0.5
L-36N BL 20+00E	Soil	2	59	0.87	74	0.110	<20	1.65	0.009	0.12	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5
L-36N 20+50E	Soil	3	68	1.04	134	0.127	<20	1.91	0.012	0.27	<0.1	<0.01	2.2	<0.1	<0.05	6	<0.5
L-36N 21+00E	Soil	2	66	1.36	74	0.151	<20	1.90	0.007	0.39	<0.1	<0.01	2.5	<0.1	<0.05	6	<0.5
L-36N 21+50E	Soil	6	42	0.50	132	0.080	<20	1.40	0.010	0.17	<0.1	<0.01	1.7	<0.1	<0.05	5	<0.5
L-36N 22+00E	Soil	6	81	0.96	64	0.130	<20	1.41	0.013	0.19	<0.1	<0.01	2.9	<0.1	<0.05	5	<0.5
L-36N 22+50E	Soil	9	56	0.76	84	0.126	<20	1.47	0.015	0.10	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5
L-36N 23+00E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L-36N 23+50E	Soil	11	124	1.23	149	0.155	<20	2.11	0.026	0.31	<0.1	0.02	4.9	0.1	<0.05	6	<0.5
L-36N 24+00E	Soil	7	92	1.03	212	0.168	<20	2.80	0.023	0.20	<0.1	0.04	4.3	0.1	<0.05	7	<0.5
L-36N 24+50E	Soil	5	58	0.66	151	0.111	<20	1.75	0.011	0.08	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5
L-36N 25+00E	Soil	8	36	0.42	58	0.073	<20	1.16	0.014	0.07	0.1	<0.01	1.4	<0.1	<0.05	4	<0.5
L-38N 04+00E	Soil	7	52	0.76	101	0.109	<20	1.77	0.024	0.13	0.1	0.03	3.4	<0.1	<0.05	5	0.6
L-38N 04+50E	Soil	4	29	0.42	78	0.077	<20	1.27	0.013	0.06	0.1	0.02	1.4	<0.1	<0.05	4	<0.5

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Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

CERTIFICATE OF ANALYSIS VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-38N 05+00E	Soil	0.4	18.6	3.7	61	<0.1	16.3	7.9	280	1.53	1.0	0.2	<0.5	1.1	14	0.1	<0.1	<0.1	39	0.17	0.085
L-38N 05+50E	Soil	0.5	66.5	3.4	55	0.2	27.9	14.8	319	2.49	1.6	0.4	2.2	1.8	22	0.1	0.2	<0.1	66	0.36	0.026
L-38N 06+00E	Soil	0.7	47.8	5.2	83	<0.1	27.3	11.6	268	2.87	4.9	0.7	1.6	2.1	20	0.1	0.2	0.1	68	0.26	0.274
L-38N 06+50E	Soil	0.4	32.2	4.3	117	0.1	29.8	13.8	300	2.19	2.1	0.3	1.2	1.6	16	0.1	<0.1	<0.1	50	0.22	0.182
L-38N 07+00E	Soil	0.3	24.4	3.4	83	<0.1	22.2	9.9	239	1.65	0.9	0.2	5.4	1.0	14	0.1	<0.1	<0.1	43	0.18	0.053
L-38N 07+50E	Soil	0.3	18.5	4.7	98	0.1	17.5	7.8	341	1.47	0.8	0.2	1.4	1.0	14	0.1	<0.1	<0.1	36	0.17	0.087
L-38N 08+00E	Soil	0.4	17.6	3.4	56	<0.1	19.9	8.8	268	1.58	1.0	0.2	0.8	1.4	14	<0.1	<0.1	<0.1	40	0.18	0.074
L-38N 08+50E	Soil	0.5	28.6	3.7	77	<0.1	22.2	11.0	463	2.06	0.9	0.2	0.8	1.3	22	<0.1	0.1	<0.1	54	0.24	0.042
L-38N 09+00E	Soil	0.3	11.1	4.1	73	<0.1	14.8	7.2	370	1.48	0.7	0.2	0.7	1.0	15	0.1	<0.1	<0.1	35	0.19	0.063
L-38N 09+50E	Soil	0.6	97.4	4.6	89	0.3	40.9	16.3	775	3.30	2.3	0.5	2.3	1.6	27	0.3	0.2	<0.1	77	0.49	0.026
L-38N 10+00E	Soil	0.4	20.8	3.3	47	<0.1	19.6	9.0	222	1.58	1.2	0.2	0.9	0.8	13	0.1	<0.1	<0.1	38	0.15	0.068
L-38N 10+50E	Soil	0.4	20.8	3.4	90	<0.1	24.4	10.9	380	1.83	1.2	0.2	<0.5	0.9	16	0.1	0.1	<0.1	42	0.16	0.097
L-38N 11+00E	Soil	0.6	31.2	4.9	83	0.2	25.4	10.4	429	1.98	1.7	0.4	1.1	1.7	23	0.3	0.2	<0.1	48	0.31	0.065
L-38N 11+50E	Soil	0.5	16.9	2.8	67	<0.1	19.2	8.2	298	1.70	1.4	0.3	2.3	1.6	14	0.2	0.1	<0.1	40	0.18	0.106
L-38N 12+00E	Soil	0.4	15.6	4.5	82	0.2	13.7	9.3	336	1.60	0.8	0.2	1.5	1.0	15	<0.1	<0.1	<0.1	41	0.16	0.148
L-38N 12+50E	Soil	0.5	24.7	3.5	97	<0.1	18.0	9.3	370	1.65	1.0	0.2	2.4	1.0	12	0.1	<0.1	<0.1	40	0.15	0.059
L-38N 13+00E	Soil	0.8	33.4	4.4	91	0.1	22.3	10.5	314	2.09	1.3	0.3	2.9	1.3	13	0.1	0.2	0.1	50	0.20	0.054
L-38N 13+50E	Soil	0.5	10.8	4.5	52	<0.1	19.9	8.4	248	1.69	1.6	0.3	0.6	1.9	12	<0.1	0.1	<0.1	38	0.17	0.106
L-38N 14+00E	Soil	0.4	21.9	3.8	88	0.1	32.9	15.4	334	2.38	1.5	0.2	1.5	0.8	17	0.1	0.1	<0.1	57	0.23	0.083
L-38N 14+50E	Soil	0.7	19.1	4.3	91	0.2	26.5	10.6	201	1.95	1.6	0.3	1.0	1.6	12	0.3	0.1	<0.1	44	0.18	0.092
L-38N 15+00E	Soil	0.5	61.9	4.4	84	0.1	27.4	13.6	512	1.98	1.3	0.2	7.6	0.7	15	0.2	<0.1	<0.1	49	0.17	0.095
L-38N 15+50E	Soil	0.9	35.9	3.7	111	<0.1	22.2	22.0	651	4.05	2.1	0.2	3.0	0.7	21	0.1	<0.1	<0.1	121	0.45	0.251
L-38N 16+00E	Soil	0.6	44.4	3.1	55	<0.1	28.3	16.6	390	2.51	1.5	0.2	3.2	1.3	21	0.2	0.1	<0.1	66	0.30	0.047
L-38N 16+50E	Soil	0.9	53.7	4.6	47	0.2	31.1	11.1	199	1.97	1.5	0.2	1.0	1.2	19	0.2	0.1	<0.1	55	0.28	0.018
L-38N 17+00E	Soil	0.3	38.5	3.7	150	<0.1	39.7	18.6	562	2.29	0.6	0.1	<0.5	0.6	19	0.2	<0.1	<0.1	55	0.26	0.096
L-38N 17+50E	Soil	0.7	34.9	4.1	97	0.1	31.3	13.6	381	2.00	1.3	0.2	2.4	1.1	13	0.2	0.1	<0.1	47	0.21	0.135
L-38N 18+00E	Soil	0.6	62.3	4.7	81	<0.1	47.3	20.6	276	2.74	1.4	0.2	<0.5	0.9	14	0.1	<0.1	<0.1	58	0.22	0.076
L-38N 18+50E	Soil	0.4	46.5	3.9	75	0.2	52.9	17.6	257	2.56	1.6	0.4	1.8	1.7	18	0.2	0.1	<0.1	55	0.28	0.123
L-38N 19+00E	Soil	0.5	112.5	5.1	126	0.2	48.4	18.8	354	2.83	1.9	0.3	1.2	1.3	12	0.2	0.1	0.1	56	0.19	0.238
L-38N 19+50E	Soil	0.5	137.6	2.0	63	0.1	100.8	31.7	409	4.21	1.8	0.2	1.1	0.7	19	0.1	<0.1	<0.1	130	0.63	0.125

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Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
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CERTIFICATE OF ANALYSIS VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
L-38N 05+00E	Soil	4	30	0.40	97	0.073	<20	1.14	0.010	0.06	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5
L-38N 05+50E	Soil	7	54	0.71	67	0.115	<20	1.38	0.011	0.16	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5
L-38N 06+00E	Soil	6	52	0.78	118	0.115	<20	2.49	0.013	0.09	0.1	0.03	2.8	<0.1	<0.05	8	<0.5
L-38N 06+50E	Soil	4	46	0.67	153	0.094	<20	1.94	0.011	0.09	<0.1	0.01	2.3	<0.1	<0.05	6	<0.5
L-38N 07+00E	Soil	3	32	0.42	97	0.084	<20	1.20	0.014	0.07	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5
L-38N 07+50E	Soil	3	28	0.36	128	0.080	<20	1.21	0.014	0.08	0.1	<0.01	1.4	<0.1	<0.05	4	<0.5
L-38N 08+00E	Soil	5	39	0.43	95	0.081	<20	1.09	0.012	0.09	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5
L-38N 08+50E	Soil	4	39	0.54	107	0.098	<20	1.35	0.009	0.09	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5
L-38N 09+00E	Soil	3	26	0.35	120	0.077	<20	1.15	0.012	0.11	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5
L-38N 09+50E	Soil	6	73	0.83	110	0.114	<20	2.15	0.015	0.16	<0.1	0.02	5.5	0.1	<0.05	6	<0.5
L-38N 10+00E	Soil	3	36	0.42	66	0.074	<20	1.03	0.009	0.07	<0.1	<0.01	1.1	<0.1	<0.05	4	<0.5
L-38N 10+50E	Soil	3	41	0.54	113	0.078	<20	1.37	0.009	0.08	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5
L-38N 11+00E	Soil	6	39	0.51	106	0.093	<20	1.44	0.015	0.10	0.1	0.02	2.3	<0.1	<0.05	4	<0.5
L-38N 11+50E	Soil	5	36	0.37	101	0.071	<20	1.06	0.011	0.06	<0.1	<0.01	1.6	<0.1	<0.05	3	<0.5
L-38N 12+00E	Soil	3	19	0.39	137	0.081	<20	1.23	0.010	0.06	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5
L-38N 12+50E	Soil	3	37	0.48	118	0.080	<20	1.28	0.011	0.06	<0.1	<0.01	1.3	<0.1	<0.05	4	<0.5
L-38N 13+00E	Soil	4	47	0.57	139	0.094	<20	1.36	0.008	0.08	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5
L-38N 13+50E	Soil	5	25	0.37	91	0.084	<20	1.36	0.010	0.10	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5
L-38N 14+00E	Soil	3	91	0.92	76	0.100	<20	1.61	0.008	0.09	0.1	<0.01	1.5	<0.1	<0.05	6	<0.5
L-38N 14+50E	Soil	5	40	0.51	104	0.092	<20	1.64	0.009	0.11	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5
L-38N 15+00E	Soil	3	65	0.71	99	0.099	<20	1.42	0.013	0.11	0.1	<0.01	1.4	<0.1	<0.05	5	<0.5
L-38N 15+50E	Soil	3	44	1.42	220	0.163	<20	2.46	0.011	0.39	0.2	<0.01	2.8	<0.1	<0.05	8	<0.5
L-38N 16+00E	Soil	5	60	0.89	69	0.112	<20	1.41	0.012	0.13	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5
L-38N 16+50E	Soil	6	42	0.43	53	0.096	<20	1.31	0.015	0.08	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5
L-38N 17+00E	Soil	2	84	1.07	125	0.131	<20	1.62	0.009	0.15	<0.1	<0.01	1.2	<0.1	<0.05	6	<0.5
L-38N 17+50E	Soil	4	66	0.82	149	0.098	<20	1.53	0.011	0.11	<0.1	<0.01	1.5	<0.1	<0.05	5	<0.5
L-38N 18+00E	Soil	3	113	0.93	71	0.110	<20	1.92	0.010	0.06	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5
L-38N 18+50E	Soil	5	86	1.03	101	0.114	<20	2.19	0.010	0.13	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5
L-38N 19+00E	Soil	2	71	0.79	114	0.120	<20	2.31	0.008	0.10	0.1	0.02	1.6	<0.1	<0.05	7	<0.5
L-38N 19+50E	Soil	2	289	2.53	152	0.188	<20	2.64	0.009	0.26	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5

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		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-38N 20+00E	Soil		1.0	112.2	4.1	125	0.2	48.8	25.9	579	5.49	2.6	0.3	1.0	1.1	20	0.2	0.3	<0.1	150	0.49	0.175
L-38N 20+50E	Soil		1.2	30.3	4.0	57	<0.1	25.0	13.7	216	2.26	1.5	0.2	0.8	1.2	14	<0.1	0.2	<0.1	61	0.22	0.029
L-38N 21+00E	Soil		0.7	49.2	3.4	77	0.2	29.7	15.9	313	2.67	1.6	0.2	1.3	1.1	19	<0.1	0.1	<0.1	72	0.33	0.068
L-38N 21+50E	Soil		0.7	39.8	3.8	115	0.1	28.3	16.7	288	2.66	1.2	0.2	<0.5	0.9	13	<0.1	0.3	<0.1	65	0.17	0.041
L-38N 22+00E	Soil		0.5	42.1	3.4	103	0.2	49.1	18.3	370	2.69	1.5	0.3	0.9	1.3	18	0.2	0.1	<0.1	72	0.25	0.066
L-38N 22+50E	Soil		1.8	89.0	3.8	89	0.3	12.0	15.1	444	5.06	2.2	0.2	0.8	0.6	11	<0.1	0.1	0.1	81	0.14	0.098
L-38N 23+00E	Soil		0.8	28.2	3.3	74	0.1	29.2	15.9	227	2.53	1.3	0.3	0.7	1.5	14	0.1	0.2	<0.1	72	0.23	0.025
L-38N 23+50E	Soil		0.5	43.6	4.5	69	0.2	28.8	15.5	313	2.40	1.1	0.2	0.6	0.8	20	0.1	<0.1	<0.1	72	0.30	0.059
L-38N 24+00E	Soil		1.0	37.1	5.4	102	0.2	37.3	14.8	575	2.77	1.6	0.3	1.1	1.2	13	0.3	0.1	0.1	86	0.18	0.081
L-38N 24+50E	Soil		0.4	22.1	6.2	85	0.1	33.7	11.3	765	1.95	1.4	0.2	0.8	0.8	10	0.1	<0.1	0.1	49	0.12	0.098
L-38N 25+00E	Soil		1.2	23.7	4.1	80	<0.1	74.1	18.9	370	3.03	1.2	0.2	0.8	0.9	14	0.2	0.1	<0.1	83	0.23	0.051
L-40N 04+00E	Soil		0.5	21.0	4.0	80	0.1	21.9	10.0	207	1.79	1.5	0.3	0.9	1.7	18	0.2	0.1	<0.1	42	0.21	0.120
L-40N 04+50E	Soil		0.3	71.3	5.2	113	0.1	24.9	14.1	346	2.05	1.6	0.2	0.9	1.1	16	0.2	<0.1	<0.1	50	0.19	0.194
L-40N 05+00E	Soil		0.3	34.3	2.7	66	<0.1	23.8	10.3	203	1.86	0.9	0.3	1.3	1.5	21	0.1	<0.1	<0.1	47	0.25	0.069
L-40N 05+50E	Soil		0.5	60.4	4.9	90	<0.1	26.9	13.4	325	2.76	2.5	0.3	2.3	1.4	21	0.1	0.2	0.1	70	0.22	0.124
L-40N 06+00E	Soil		0.5	31.4	5.7	75	0.1	15.6	9.0	376	1.77	1.8	0.3	2.8	1.1	16	<0.1	0.1	<0.1	44	0.17	0.194
L-40N 06+50E	Soil		0.4	55.9	4.4	89	0.1	35.2	16.0	302	2.18	1.5	0.3	1.0	1.3	17	<0.1	<0.1	<0.1	54	0.21	0.135
L-40N 07+00E	Soil		0.5	51.5	4.4	121	0.2	25.4	13.0	688	2.12	1.4	0.2	1.0	1.1	15	0.2	0.1	0.1	48	0.17	0.117
L-40N 07+50E	Soil		0.6	78.6	5.0	124	0.1	24.8	13.6	461	2.41	2.0	0.3	2.5	1.2	18	0.1	0.1	0.1	56	0.22	0.201
L-40N 08+00E	Soil		0.4	29.4	4.0	106	<0.1	22.3	10.1	418	1.89	1.2	0.2	<0.5	1.1	14	0.1	0.1	<0.1	45	0.18	0.101
L-40N 08+50E	Soil		0.4	63.2	4.2	74	<0.1	16.2	9.2	263	1.66	0.8	0.2	13.2	0.7	17	<0.1	<0.1	0.1	43	0.17	0.054
L-40N 09+00E	Soil		0.5	20.5	4.3	86	<0.1	14.1	11.0	495	1.91	1.2	0.2	1.9	0.9	17	<0.1	<0.1	<0.1	56	0.22	0.134
L-40N 09+50E	Soil		0.6	29.3	3.8	73	0.1	21.7	10.8	348	1.91	1.7	0.3	0.7	1.1	18	0.2	0.1	<0.1	45	0.23	0.123
L-40N 10+00E	Soil		0.5	29.3	4.1	89	0.2	28.0	13.8	267	2.48	2.0	0.2	1.0	1.2	17	0.2	0.1	<0.1	55	0.21	0.212
L-40N 10+50E	Soil		0.5	29.9	4.1	109	0.2	28.0	12.4	252	2.26	2.5	0.2	<0.5	1.4	17	0.2	0.1	<0.1	52	0.20	0.243
L-40N 11+00E	Soil		0.3	15.2	3.9	64	<0.1	19.8	9.3	271	1.49	1.0	0.2	0.8	1.0	13	<0.1	<0.1	<0.1	39	0.19	0.077
L-40N 11+50E	Soil		0.5	32.8	3.8	81	<0.1	13.9	8.1	321	1.71	0.7	0.2	1.2	0.7	10	<0.1	<0.1	<0.1	45	0.14	0.055
L-40N 12+00E	Soil		0.6	30.1	4.4	80	0.1	18.2	8.8	376	1.39	0.9	0.1	0.6	0.7	8	0.2	<0.1	<0.1	36	0.12	0.064
L-40N 12+50E	Soil		0.8	33.4	4.1	89	<0.1	26.8	15.4	286	2.52	1.2	0.2	1.0	1.0	15	0.1	0.2	0.8	71	0.22	0.063
L-40N 13+00E	Soil		0.8	183.1	4.3	62	0.3	48.8	20.7	1650	3.40	5.3	0.2	2.7	1.2	47	0.6	0.3	0.1	87	0.86	0.031

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Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

CERTIFICATE OF ANALYSIS VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
L-38N 20+00E	Soil	4	115	1.68	121	0.187	<20	2.32	0.007	0.49	<0.1	0.01	4.6	<0.1	<0.05	8	0.7
L-38N 20+50E	Soil	5	50	0.85	48	0.136	<20	1.51	0.008	0.11	<0.1	<0.01	1.5	<0.1	<0.05	5	<0.5
L-38N 21+00E	Soil	4	65	0.97	87	0.149	<20	1.79	0.008	0.20	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5
L-38N 21+50E	Soil	3	45	0.81	101	0.120	<20	1.86	0.009	0.12	<0.1	0.01	2.2	<0.1	<0.05	6	<0.5
L-38N 22+00E	Soil	5	110	1.09	117	0.131	<20	1.96	0.011	0.10	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5
L-38N 22+50E	Soil	3	16	0.47	68	0.040	<20	1.38	0.008	0.04	<0.1	0.03	2.8	<0.1	<0.05	6	1.0
L-38N 23+00E	Soil	6	47	0.75	78	0.133	<20	1.63	0.011	0.13	<0.1	<0.01	1.8	<0.1	<0.05	5	<0.5
L-38N 23+50E	Soil	3	74	0.79	95	0.142	<20	1.69	0.015	0.11	<0.1	0.01	1.6	<0.1	<0.05	6	<0.5
L-38N 24+00E	Soil	4	65	0.62	116	0.123	<20	2.38	0.013	0.07	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5
L-38N 24+50E	Soil	3	39	0.38	154	0.093	<20	1.59	0.006	0.06	<0.1	0.02	1.0	<0.1	<0.05	6	<0.5
L-38N 25+00E	Soil	3	90	0.79	110	0.120	<20	1.95	0.009	0.06	<0.1	0.01	1.6	<0.1	<0.05	6	<0.5
L-40N 04+00E	Soil	6	32	0.49	94	0.083	<20	1.34	0.010	0.08	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5
L-40N 04+50E	Soil	3	41	0.66	200	0.106	<20	1.86	0.010	0.08	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5
L-40N 05+00E	Soil	5	44	0.57	72	0.095	<20	1.32	0.011	0.11	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5
L-40N 05+50E	Soil	4	48	0.73	136	0.106	<20	2.40	0.010	0.09	0.1	0.02	2.2	<0.1	<0.05	7	<0.5
L-40N 06+00E	Soil	4	24	0.49	110	0.084	<20	1.81	0.010	0.05	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5
L-40N 06+50E	Soil	4	39	0.65	128	0.096	<20	2.40	0.011	0.06	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5
L-40N 07+00E	Soil	4	39	0.53	179	0.076	<20	1.90	0.007	0.09	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5
L-40N 07+50E	Soil	4	48	0.58	143	0.091	<20	2.09	0.009	0.08	0.1	0.03	2.0	<0.1	<0.05	6	<0.5
L-40N 08+00E	Soil	4	34	0.52	111	0.083	<20	1.50	0.011	0.08	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5
L-40N 08+50E	Soil	3	26	0.45	113	0.084	<20	1.49	0.012	0.07	0.2	0.01	1.1	<0.1	<0.05	4	<0.5
L-40N 09+00E	Soil	2	20	0.53	94	0.089	<20	1.65	0.009	0.07	0.1	0.02	1.2	<0.1	<0.05	5	<0.5
L-40N 09+50E	Soil	5	41	0.48	102	0.080	<20	1.32	0.011	0.09	0.2	0.02	1.7	<0.1	<0.05	4	<0.5
L-40N 10+00E	Soil	3	56	0.61	134	0.087	<20	1.73	0.011	0.08	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5
L-40N 10+50E	Soil	5	45	0.62	135	0.089	<20	1.70	0.010	0.10	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5
L-40N 11+00E	Soil	4	32	0.43	72	0.081	<20	1.14	0.012	0.07	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5
L-40N 11+50E	Soil	3	24	0.43	155	0.069	<20	1.41	0.008	0.05	<0.1	0.01	1.2	<0.1	<0.05	5	<0.5
L-40N 12+00E	Soil	2	38	0.40	84	0.072	<20	1.12	0.008	0.05	<0.1	0.02	0.9	<0.1	<0.05	4	<0.5
L-40N 12+50E	Soil	5	56	0.92	136	0.062	<20	1.56	0.008	0.10	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5
L-40N 13+00E	Soil	7	75	1.10	243	0.110	<20	1.85	0.018	0.14	0.1	0.05	4.0	0.1	<0.05	5	<0.5

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Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

CERTIFICATE OF ANALYSIS VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-40N 13+50E	Soil	0.5	39.5	4.3	104	0.3	29.8	13.8	289	2.00	1.4	0.2	<0.5	0.9	16	0.2	<0.1	<0.1	51	0.23	0.112
L-40N 14+00E	Soil	0.4	36.9	2.6	59	<0.1	36.1	16.3	245	2.59	1.4	0.2	<0.5	1.0	19	<0.1	0.1	<0.1	67	0.28	0.049
L-40N 14+50E	Soil	0.4	33.9	3.2	85	0.1	35.1	14.0	316	2.28	1.9	0.3	<0.5	1.5	17	0.2	0.1	<0.1	53	0.22	0.096
L-40N 15+00E	Soil	0.5	17.5	4.3	80	<0.1	20.7	10.1	284	1.60	1.1	0.2	<0.5	1.1	11	0.1	<0.1	<0.1	38	0.14	0.136
L-40N 15+50E	Soil	0.6	36.9	3.0	62	<0.1	32.6	15.3	281	2.34	2.1	0.2	1.4	1.4	19	0.2	0.2	<0.1	65	0.27	0.078
L-40N 16+00E	Soil	1.2	55.1	1.7	40	<0.1	64.8	21.8	252	2.57	2.7	0.1	1.6	0.4	24	0.2	0.1	<0.1	73	0.49	0.017
L-40N 16+50E	Soil	0.4	35.9	3.6	68	<0.1	21.8	15.7	389	2.07	1.4	0.2	0.9	0.6	17	0.1	0.1	<0.1	53	0.39	0.139
L-40N 17+00E	Soil	0.7	67.4	3.2	97	<0.1	41.0	20.5	364	2.64	1.3	0.2	5.8	0.8	16	<0.1	0.1	<0.1	61	0.24	0.072
L-40N 17+50E	Soil	0.2	115.6	1.6	79	0.1	64.9	25.2	419	3.23	1.0	<0.1	2.7	0.4	23	0.1	<0.1	<0.1	83	0.31	0.072
L-40N 18+00E	Soil	0.3	112.4	3.0	91	0.1	24.7	20.8	518	3.15	1.2	<0.1	<0.5	0.4	17	0.1	<0.1	<0.1	88	0.26	0.096
L-40N 18+50E	Soil	0.5	76.7	2.9	81	0.1	45.2	17.6	335	2.20	1.9	0.2	0.7	0.6	13	0.2	0.1	<0.1	55	0.20	0.048
L-40N 19+00E	Soil	0.6	30.7	3.5	102	0.1	30.0	12.1	239	1.65	1.4	0.2	2.4	0.7	11	0.2	<0.1	<0.1	42	0.18	0.061
L-40N 19+50E	Soil	0.6	37.4	2.9	106	0.2	43.1	15.8	242	2.42	1.4	0.2	0.8	1.1	14	0.2	0.1	<0.1	60	0.23	0.074
L-40N 20+00E	Soil	0.6	37.3	3.4	71	0.1	31.9	13.0	432	2.00	1.6	0.2	0.7	1.2	13	0.1	0.2	<0.1	50	0.20	0.058
L-40N 20+50E	Soil	0.7	26.8	3.4	105	0.2	44.0	17.8	296	2.15	1.2	0.2	<0.5	0.8	15	0.2	0.1	<0.1	52	0.26	0.043
L-40N 21+00E	Soil	0.5	39.2	3.9	99	0.1	27.7	15.0	363	2.00	1.4	0.2	1.5	0.8	14	0.1	<0.1	<0.1	52	0.22	0.041
L-40N 21+50E	Soil	0.4	143.8	3.1	101	0.1	45.0	18.6	595	2.58	0.9	0.1	<0.5	0.6	16	0.1	<0.1	<0.1	63	0.33	0.056
L-40N 22+00E	Soil	0.5	32.7	4.4	135	0.3	43.1	16.7	368	2.30	1.7	0.2	0.9	1.1	15	0.4	<0.1	<0.1	56	0.26	0.127
L-40N 22+50E	Soil	0.5	18.7	3.7	148	0.2	130.4	21.1	270	2.44	1.4	0.2	0.8	0.8	10	0.2	<0.1	<0.1	58	0.21	0.110
L-40N 23+00E	Soil	0.5	24.1	3.9	108	0.1	46.1	15.5	262	2.39	2.2	0.2	0.7	0.9	13	0.2	<0.1	<0.1	49	0.27	0.143
L-40N 23+50E	Soil	0.2	77.1	2.3	117	<0.1	33.1	27.4	566	3.87	0.9	0.1	1.6	0.4	18	<0.1	<0.1	<0.1	120	0.37	0.084
L-40N 24+00E	Soil	0.5	70.1	3.5	73	<0.1	35.0	14.7	324	2.82	1.5	0.2	0.8	1.0	14	0.1	0.1	<0.1	94	0.23	0.072
L-40N 24+50E	Soil	0.4	52.0	3.1	71	<0.1	65.4	14.9	374	2.22	1.1	0.2	<0.5	0.7	11	0.1	<0.1	<0.1	72	0.21	0.077
L-40N 25+00E	Soil	0.4	19.7	4.1	98	<0.1	66.1	17.4	196	2.59	2.6	0.2	<0.5	1.3	16	0.2	<0.1	<0.1	75	0.26	0.171
L-42N 04+00E	Soil	0.7	56.0	5.1	83	<0.1	24.9	11.8	284	2.52	2.2	0.3	4.7	1.6	16	0.1	0.2	0.1	65	0.19	0.126
L-42N 04+50E	Soil	0.5	105.7	5.5	55	0.2	13.8	7.3	180	1.84	1.1	0.3	5.3	1.1	13	<0.1	<0.1	<0.1	48	0.13	0.091
L-42N 05+00E	Soil	0.5	20.5	5.0	85	<0.1	9.7	8.4	304	1.67	1.3	0.3	34.8	1.1	12	<0.1	<0.1	0.1	44	0.13	0.161
L-42N 05+50E	Soil	0.5	39.2	3.8	67	<0.1	17.9	10.6	423	1.73	1.4	0.2	1.3	0.8	16	<0.1	0.1	<0.1	49	0.19	0.044
L-42N 20+50E	Soil	0.7	35.7	5.5	116	0.2	39.3	15.7	255	2.86	2.5	0.3	1.2	1.8	15	0.2	0.2	0.1	60	0.20	0.131
L-42N 21+00E	Soil	0.5	68.5	3.3	70	<0.1	40.2	13.3	269	2.12	1.8	0.2	<0.5	1.4	14	0.1	0.1	<0.1	54	0.22	0.058

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	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
L-40N 13+50E	Soil	3	61	0.73	84	0.100	<20	1.51	0.011	0.09	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5
L-40N 14+00E	Soil	4	93	1.01	72	0.126	<20	1.72	0.010	0.08	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5
L-40N 14+50E	Soil	5	69	0.79	100	0.108	<20	1.55	0.011	0.11	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5
L-40N 15+00E	Soil	3	43	0.44	92	0.088	<20	1.24	0.010	0.08	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5
L-40N 15+50E	Soil	5	66	0.82	67	0.116	<20	1.51	0.011	0.13	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5
L-40N 16+00E	Soil	2	255	1.79	96	0.136	<20	1.92	0.008	0.38	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5
L-40N 16+50E	Soil	2	33	0.74	106	0.095	<20	1.34	0.015	0.11	<0.1	0.01	1.3	0.1	<0.05	4	<0.5
L-40N 17+00E	Soil	2	87	1.08	142	0.134	<20	1.87	0.009	0.19	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5
L-40N 17+50E	Soil	1	198	1.76	104	0.152	<20	2.09	0.008	0.55	<0.1	0.01	1.0	<0.1	<0.05	6	<0.5
L-40N 18+00E	Soil	1	50	1.22	101	0.145	<20	1.76	0.008	0.12	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5
L-40N 18+50E	Soil	2	98	1.09	100	0.105	<20	1.73	0.009	0.12	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5
L-40N 19+00E	Soil	2	69	0.69	70	0.089	<20	1.44	0.011	0.08	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5
L-40N 19+50E	Soil	4	77	0.97	77	0.106	<20	1.86	0.009	0.13	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5
L-40N 20+00E	Soil	4	71	0.77	88	0.096	<20	1.48	0.008	0.10	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5
L-40N 20+50E	Soil	3	181	1.01	103	0.135	<20	1.94	0.009	0.08	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5
L-40N 21+00E	Soil	3	87	1.04	76	0.124	<20	1.79	0.010	0.07	0.1	0.01	1.4	<0.1	<0.05	5	<0.5
L-40N 21+50E	Soil	2	123	1.26	95	0.140	<20	1.99	0.015	0.09	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5
L-40N 22+00E	Soil	3	92	0.89	162	0.117	<20	1.85	0.012	0.13	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5
L-40N 22+50E	Soil	2	204	1.58	119	0.160	<20	2.51	0.008	0.07	<0.1	0.01	1.0	<0.1	<0.05	7	<0.5
L-40N 23+00E	Soil	2	163	0.86	139	0.108	<20	2.26	0.012	0.08	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5
L-40N 23+50E	Soil	2	85	1.76	194	0.212	<20	2.53	0.010	0.24	<0.1	<0.01	3.3	<0.1	<0.05	8	<0.5
L-40N 24+00E	Soil	3	55	0.89	170	0.180	<20	2.06	0.009	0.14	<0.1	<0.01	1.9	<0.1	<0.05	6	<0.5
L-40N 24+50E	Soil	2	74	0.78	198	0.132	<20	1.75	0.012	0.06	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5
L-40N 25+00E	Soil	4	64	0.67	125	0.137	<20	1.69	0.011	0.06	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5
L-42N 04+00E	Soil	5	41	0.58	110	0.086	<20	2.28	0.009	0.08	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5
L-42N 04+50E	Soil	3	24	0.44	69	0.090	<20	1.62	0.010	0.04	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5
L-42N 05+00E	Soil	3	15	0.46	84	0.083	<20	1.66	0.008	0.04	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5
L-42N 05+50E	Soil	5	34	0.54	80	0.083	<20	1.36	0.009	0.06	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5
L-42N 20+50E	Soil	5	70	0.77	135	0.109	<20	2.62	0.009	0.11	0.1	0.02	2.2	<0.1	<0.05	7	<0.5
L-42N 21+00E	Soil	4	78	0.88	93	0.105	<20	1.78	0.010	0.10	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5

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Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

CERTIFICATE OF ANALYSIS VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-42N 21+50E	Soil	1.0	67.4	6.9	97	<0.1	36.8	10.1	219	2.78	3.0	0.4	1.8	2.4	15	<0.1	<0.1	0.2	75	0.24	0.042
L-42N 22+00E	Soil	0.4	68.9	3.9	85	0.2	35.6	14.6	304	2.27	1.5	0.3	<0.5	1.3	17	<0.1	0.1	<0.1	58	0.26	0.052
L-42N 22+50E	Soil	0.5	103.2	3.5	102	0.1	47.3	24.3	332	3.83	2.0	0.2	1.1	0.9	15	0.1	<0.1	<0.1	102	0.31	0.130
L-42N 23+00E	Soil	0.2	49.4	3.2	117	0.2	39.3	16.9	285	2.53	1.0	0.2	0.5	0.8	15	0.1	<0.1	<0.1	64	0.29	0.065
L-42N 23+50E	Soil	0.4	95.4	3.6	111	0.1	47.6	25.8	346	4.38	1.0	0.1	<0.5	0.6	16	0.1	<0.1	<0.1	150	0.35	0.092
L-42N 24+00E	Soil	0.8	54.5	5.5	96	0.2	38.1	12.9	266	2.78	2.2	0.3	1.1	1.7	15	0.1	0.2	0.1	70	0.18	0.117
L-42N 24+50E	Soil	0.6	20.7	4.6	123	0.2	36.0	13.9	464	2.67	1.8	0.2	<0.5	1.4	12	0.1	<0.1	0.1	88	0.19	0.148
L-42N 25+00E	Soil	0.8	73.8	4.1	92	0.1	51.8	18.0	403	3.53	2.0	0.2	1.4	1.0	13	<0.1	0.1	<0.1	151	0.26	0.132
L-44N 04+00E	Soil	0.5	11.0	4.5	49	0.1	7.6	5.3	569	1.03	0.7	0.2	2.7	0.7	7	<0.1	<0.1	<0.1	27	0.09	0.077
L-44N 04+50E	Soil	0.5	31.7	3.8	102	<0.1	23.4	10.5	334	1.86	1.4	0.2	5.3	1.4	16	<0.1	0.1	<0.1	42	0.19	0.173
L-44N 05+00E	Soil	0.5	271.8	5.1	98	0.2	19.8	11.2	800	2.20	0.7	0.3	4.4	1.1	15	<0.1	0.1	0.1	55	0.17	0.081
L-44N 05+50E	Soil	1.4	288.3	7.4	75	<0.1	27.5	10.1	297	3.32	3.4	0.7	4.5	2.2	15	<0.1	0.3	0.2	87	0.14	0.176
L-44N 20+50E	Soil	0.7	74.7	3.9	93	0.1	37.5	19.1	346	3.30	1.5	0.3	0.6	1.3	18	0.1	0.2	<0.1	86	0.27	0.074
L-44N 21+00E	Soil	0.9	36.5	4.6	95	0.2	34.7	14.8	217	2.71	2.4	0.4	2.5	1.7	14	0.2	0.2	0.1	60	0.20	0.097
L-44N 21+50E	Soil	0.7	203.0	3.9	126	0.2	66.8	30.5	332	3.85	2.5	0.2	1.0	0.8	21	0.1	0.1	<0.1	88	0.30	0.109
L-44N 22+00E	Soil	0.6	26.4	4.6	73	0.1	29.4	11.7	193	2.17	1.7	0.4	2.9	1.5	18	0.2	0.2	0.1	47	0.26	0.119
L-44N 22+50E	Soil	0.6	46.1	6.4	113	0.2	43.2	17.0	283	2.74	2.8	0.4	1.8	1.5	29	0.2	0.1	0.1	53	0.39	0.235
L-44N 23+00E	Soil	0.5	47.7	4.5	91	<0.1	56.2	21.3	372	2.55	0.9	0.2	1.5	0.6	15	<0.1	<0.1	<0.1	60	0.26	0.087
L-44N 23+50E	Soil	0.6	194.4	2.3	130	<0.1	41.8	37.7	543	6.40	0.9	0.1	0.7	0.3	17	<0.1	<0.1	<0.1	213	0.33	0.088
L-44N 24+00E	Soil	0.6	34.4	7.0	98	<0.1	39.4	11.7	285	2.32	1.9	0.3	2.5	1.4	17	0.1	0.2	0.1	51	0.23	0.132
L-44N 24+50E	Soil	0.7	82.1	3.6	86	0.2	39.6	12.0	224	2.42	1.5	0.3	1.8	1.3	13	<0.1	0.1	<0.1	65	0.18	0.083
L-44N 25+00E	Soil	0.4	46.4	4.3	75	<0.1	31.4	11.2	293	2.08	0.9	0.3	3.6	1.0	15	<0.1	<0.1	<0.1	56	0.23	0.115
L-46N 04+00E	Soil	0.6	94.2	4.7	88	<0.1	21.0	12.2	323	2.67	1.1	0.3	85.7	1.6	27	0.1	0.2	0.1	68	0.32	0.105
L-46N 04+50E	Soil	0.5	21.1	5.0	106	0.2	26.3	12.2	265	2.17	1.8	0.4	12.7	1.6	20	0.2	0.1	0.1	49	0.23	0.162
L-46N 05+00E	Soil	0.5	25.7	5.6	137	0.1	26.2	18.3	448	2.17	1.4	0.3	1.5	1.0	18	0.2	<0.1	<0.1	52	0.23	0.137
L-46N 05+50E	Soil	0.6	32.0	5.1	47	0.1	18.3	9.7	196	2.02	1.1	0.3	1.4	1.1	18	0.3	0.1	0.1	56	0.26	0.031
L-46N 20+50E	Soil	1.0	132.0	4.5	123	0.3	32.1	21.4	323	3.73	1.6	0.2	2.0	0.6	44	0.2	0.1	<0.1	85	0.37	0.099
L-46N 21+00E	Soil	0.4	11.0	5.0	65	0.1	15.1	7.2	218	1.24	0.9	0.2	1.1	0.7	12	0.1	<0.1	<0.1	28	0.17	0.114
L-46N 21+50E	Soil	1.2	57.8	8.2	246	0.4	41.7	21.9	288	3.40	3.1	0.4	2.6	1.2	18	0.4	0.1	0.2	73	0.29	0.247
L-46N 22+00E	Soil	0.8	140.7	1.8	97	0.1	63.0	28.4	375	4.06	1.0	0.1	1.7	0.2	24	0.1	<0.1	<0.1	113	0.46	0.050

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

CERTIFICATE OF ANALYSIS VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
L-42N 21+50E	Soil	8	76	0.90	72	0.127	<20	1.89	0.010	0.13	<0.1	<0.01	2.6	0.1	<0.05	6	<0.5
L-42N 22+00E	Soil	5	82	0.90	98	0.116	<20	2.09	0.015	0.13	<0.1	<0.01	2.3	<0.1	<0.05	6	<0.5
L-42N 22+50E	Soil	3	112	1.46	142	0.184	<20	2.84	0.015	0.26	<0.1	0.01	2.5	<0.1	<0.05	8	<0.5
L-42N 23+00E	Soil	2	124	1.10	127	0.149	<20	2.18	0.013	0.14	<0.1	<0.01	2.0	<0.1	<0.05	6	<0.5
L-42N 23+50E	Soil	2	114	1.59	238	0.300	<20	2.94	0.011	0.37	<0.1	0.01	2.6	<0.1	<0.05	9	<0.5
L-42N 24+00E	Soil	4	52	0.64	119	0.106	<20	2.48	0.009	0.09	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5
L-42N 24+50E	Soil	3	66	0.66	169	0.159	<20	1.83	0.011	0.11	<0.1	0.02	1.5	<0.1	<0.05	7	<0.5
L-42N 25+00E	Soil	3	111	0.92	148	0.210	<20	2.07	0.010	0.11	0.1	0.02	1.8	<0.1	<0.05	7	<0.5
L-44N 04+00E	Soil	2	11	0.17	72	0.054	<20	0.74	0.009	0.03	<0.1	0.02	0.7	<0.1	<0.05	3	<0.5
L-44N 04+50E	Soil	4	32	0.55	186	0.070	<20	1.44	0.008	0.08	0.3	0.01	1.8	<0.1	<0.05	5	<0.5
L-44N 05+00E	Soil	4	34	0.45	150	0.078	<20	1.94	0.012	0.08	<0.1	0.03	2.0	<0.1	<0.05	6	<0.5
L-44N 05+50E	Soil	6	50	0.73	104	0.129	<20	3.16	0.011	0.07	0.2	0.05	3.4	<0.1	<0.05	8	<0.5
L-44N 20+50E	Soil	4	81	1.05	88	0.150	<20	1.99	0.011	0.12	0.1	0.01	3.2	<0.1	<0.05	6	<0.5
L-44N 21+00E	Soil	6	64	0.74	93	0.124	<20	1.97	0.010	0.10	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5
L-44N 21+50E	Soil	3	136	1.29	94	0.167	<20	2.12	0.009	0.12	<0.1	<0.01	1.9	<0.1	<0.05	7	<0.5
L-44N 22+00E	Soil	5	41	0.50	90	0.089	<20	1.73	0.010	0.09	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5
L-44N 22+50E	Soil	4	78	0.80	138	0.117	<20	2.37	0.011	0.12	0.2	0.02	2.3	<0.1	<0.05	7	<0.5
L-44N 23+00E	Soil	2	139	1.41	94	0.149	<20	2.33	0.011	0.09	<0.1	0.01	1.9	<0.1	<0.05	7	<0.5
L-44N 23+50E	Soil	2	115	2.39	217	0.365	<20	3.12	0.010	1.31	<0.1	<0.01	4.2	0.2	<0.05	10	0.5
L-44N 24+00E	Soil	4	43	0.60	166	0.112	<20	2.16	0.008	0.07	0.1	0.02	1.8	<0.1	<0.05	7	<0.5
L-44N 24+50E	Soil	5	49	0.70	107	0.110	<20	1.79	0.009	0.06	<0.1	0.02	2.1	<0.1	<0.05	6	0.5
L-44N 25+00E	Soil	4	42	0.65	108	0.120	<20	1.56	0.012	0.05	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5
L-46N 04+00E	Soil	5	31	0.66	193	0.083	<20	1.78	0.011	0.07	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5
L-46N 04+50E	Soil	5	39	0.62	120	0.099	<20	1.70	0.017	0.08	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5
L-46N 05+00E	Soil	4	49	0.95	98	0.112	<20	1.82	0.011	0.06	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5
L-46N 05+50E	Soil	5	34	0.50	54	0.107	<20	1.25	0.011	0.07	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5
L-46N 20+50E	Soil	2	77	0.94	77	0.130	<20	2.15	0.009	0.13	<0.1	0.02	3.6	<0.1	<0.05	7	<0.5
L-46N 21+00E	Soil	3	30	0.30	74	0.076	<20	1.00	0.013	0.06	<0.1	0.01	1.0	<0.1	<0.05	3	<0.5
L-46N 21+50E	Soil	4	52	0.54	107	0.134	<20	2.62	0.009	0.10	0.1	0.03	2.3	<0.1	<0.05	8	<0.5
L-46N 22+00E	Soil	2	159	1.80	100	0.231	<20	2.45	0.017	0.51	<0.1	<0.01	3.5	0.2	<0.05	7	0.6

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Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

CERTIFICATE OF ANALYSIS VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-46N 22+50E	Soil	0.8	43.1	4.5	82	0.1	43.3	14.3	243	2.37	2.6	0.3	2.9	1.4	16	0.1	0.2	<0.1	53	0.22	0.136
L-46N 23+00E	Soil	0.5	67.2	4.6	83	0.1	39.6	15.2	267	2.62	2.6	0.3	1.5	1.5	19	0.2	0.2	<0.1	65	0.26	0.068
L-46N 23+50E	Soil	0.7	107.7	3.7	93	0.1	45.8	26.5	326	3.16	2.5	0.3	1.4	1.1	19	0.2	0.2	<0.1	64	0.28	0.138
L-46N 24+00E	Soil	1.0	30.7	5.6	89	<0.1	28.5	11.5	345	2.35	2.5	0.4	1.9	1.5	16	0.2	0.2	0.1	50	0.29	0.174
L-46N 24+50E	Soil	0.8	130.6	4.4	53	0.2	33.8	8.6	268	1.82	1.3	0.4	5.2	2.1	12	0.1	0.2	<0.1	45	0.20	0.020
L-46N 25+00E	Soil	0.6	27.5	5.6	71	0.1	20.3	10.3	254	2.22	1.4	0.2	2.5	0.7	15	<0.1	0.1	0.1	56	0.19	0.064

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Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

CERTIFICATE OF ANALYSIS VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
L-46N 22+50E	Soil	5	53	0.62	112	0.106	<20	1.95	0.012	0.09	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5
L-46N 23+00E	Soil	5	57	0.71	91	0.119	<20	1.96	0.013	0.09	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5
L-46N 23+50E	Soil	5	75	0.83	106	0.129	<20	1.73	0.014	0.11	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5
L-46N 24+00E	Soil	6	35	0.51	124	0.092	<20	2.00	0.010	0.14	0.1	0.02	2.2	<0.1	<0.05	6	<0.5
L-46N 24+50E	Soil	8	32	0.43	68	0.092	<20	1.40	0.017	0.10	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5
L-46N 25+00E	Soil	3	25	0.39	115	0.080	<20	1.63	0.010	0.06	<0.1	0.02	1.5	<0.1	<0.05	6	0.5

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Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

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Report Date: July 28, 2008

QUALITY CONTROL REPORT VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
L-32N 12+00E	Soil	0.4	24.1	5.8	68	0.1	28.6	12.0	232	2.43	1.3	0.5	0.6	1.4	33	0.2	0.1	0.1	53	0.32	0.064
REP L-32N 12+00E	QC	0.4	23.9	5.6	68	0.1	27.8	12.6	237	2.46	1.0	0.5	<0.5	1.4	34	0.2	0.1	0.1	56	0.32	0.061
L-34N 09+00E	Soil	0.4	31.8	3.7	100	0.1	30.4	12.0	271	2.16	1.9	0.3	<0.5	1.8	23	0.2	0.1	<0.1	51	0.23	0.126
REP L-34N 09+00E	QC	0.4	30.8	3.8	95	0.1	28.5	12.4	268	2.11	1.8	0.3	<0.5	1.6	22	0.2	<0.1	<0.1	50	0.23	0.119
L-36N 19+00E	Soil	0.7	86.5	4.2	90	0.2	38.0	18.0	333	3.01	2.1	0.2	<0.5	1.3	16	0.2	<0.1	<0.1	71	0.33	0.128
REP L-36N 19+00E	QC	0.6	84.8	4.4	88	0.1	36.8	17.2	337	2.95	2.1	0.3	0.8	1.4	15	0.2	0.1	<0.1	71	0.32	0.121
L-38N 15+00E	Soil	0.5	61.9	4.4	84	0.1	27.4	13.6	512	1.98	1.3	0.2	7.6	0.7	15	0.2	<0.1	<0.1	49	0.17	0.095
REP L-38N 15+00E	QC	0.5	70.0	4.5	88	0.1	30.2	14.7	547	2.14	1.1	0.2	4.0	0.8	16	0.2	<0.1	<0.1	52	0.18	0.101
L-40N 12+00E	Soil	0.6	30.1	4.4	80	0.1	18.2	8.8	376	1.39	0.9	0.1	0.6	0.7	8	0.2	<0.1	<0.1	36	0.12	0.064
REP L-40N 12+00E	QC	0.7	31.1	4.7	85	0.1	19.2	9.6	396	1.47	1.0	0.2	1.6	0.8	9	0.2	<0.1	<0.1	37	0.12	0.067
L-40N 24+50E	Soil	0.4	52.0	3.1	71	<0.1	65.4	14.9	374	2.22	1.1	0.2	<0.5	0.7	11	0.1	<0.1	<0.1	72	0.21	0.077
REP L-40N 24+50E	QC	0.3	55.6	3.3	73	<0.1	72.4	15.7	352	2.36	1.3	0.2	0.9	0.7	13	<0.1	<0.1	<0.1	77	0.23	0.081
L-46N 21+50E	Soil	1.2	57.8	8.2	246	0.4	41.7	21.9	288	3.40	3.1	0.4	2.6	1.2	18	0.4	0.1	0.2	73	0.29	0.247
REP L-46N 21+50E	QC	1.2	61.3	7.3	243	0.4	44.2	23.6	283	3.44	2.9	0.4	1.8	1.4	20	0.5	0.1	0.2	71	0.30	0.237
Reference Materials																					
STD DS7	Standard	21.9	114.1	75.1	423	1.0	55.3	9.8	660	2.43	55.6	5.3	63.4	4.3	77	6.9	6.3	4.8	85	0.96	0.078
STD DS7	Standard	23.3	107.3	73.3	423	0.8	56.7	9.2	622	2.38	54.0	4.9	54.8	4.2	71	6.2	5.9	4.9	88	0.94	0.086
STD DS7	Standard	19.4	104.8	67.6	388	0.8	53.5	8.8	591	2.32	53.7	4.9	71.9	4.0	72	6.1	5.5	4.7	83	0.93	0.073
STD DS7	Standard	20.2	106.2	69.7	408	0.8	55.2	9.5	596	2.32	55.2	4.8	46.4	4.5	77	6.4	5.4	4.6	81	0.91	0.078
STD DS7	Standard	20.0	104.8	69.1	387	0.8	56.8	9.2	593	2.25	53.0	4.5	61.6	3.7	61	6.2	5.3	4.3	88	0.83	0.075
STD DS7	Standard	20.3	116.8	66.9	390	0.8	55.2	9.6	620	2.26	50.0	4.5	56.7	3.7	60	6.1	5.1	4.2	84	0.85	0.075
STD DS7	Standard	19.1	108.8	71.5	369	0.9	57.5	9.2	581	2.19	49.1	4.9	55.0	4.3	52	5.9	4.0	3.1	81	0.84	0.072
STD DS7	Standard	20.7	106.5	71.8	370	0.8	58.0	9.6	613	2.34	49.0	4.8	49.6	4.2	58	5.6	4.3	3.2	89	0.83	0.076
STD DS7	Standard	21.5	133.4	69.3	409	0.8	56.8	9.6	636	2.42	51.1	4.7	58.8	4.2	76	6.4	5.8	4.5	89	0.96	0.078
STD DS7	Standard	20.1	107.9	65.0	402	0.9	56.0	9.8	607	2.32	50.9	4.6	56.5	4.0	71	6.3	5.5	4.5	86	0.90	0.074
STD DS7	Standard	19.3	106.5	68.2	408	0.8	57.3	9.3	605	2.28	50.2	4.4	50.9	4.0	68	6.4	4.9	4.5	86	0.89	0.076
STD DS7	Standard	19.9	102.4	64.2	398	0.8	55.5	9.1	600	2.29	49.6	4.5	57.9	3.7	68	6.3	5.0	4.3	84	0.84	0.074
STD DS7	Standard	19.4	100.9	66.3	377	0.8	52.1	8.4	575	2.12	47.4	3.9	97.3	3.5	62	6.1	5.0	4.2	80	0.81	0.068

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

QUALITY CONTROL REPORT VAN08007370.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
L-32N 12+00E	Soil	5	42	0.60	115	0.108	<20	1.83	0.016	0.09	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5
REP L-32N 12+00E	QC	5	45	0.59	113	0.114	<20	1.80	0.015	0.09	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5
L-34N 09+00E	Soil	6	46	0.57	102	0.113	<20	1.61	0.014	0.10	0.1	0.01	2.2	<0.1	<0.05	5	<0.5
REP L-34N 09+00E	QC	5	44	0.55	98	0.113	<20	1.57	0.014	0.09	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5
L-36N 19+00E	Soil	3	84	0.90	159	0.105	<20	2.01	0.011	0.17	0.1	<0.01	1.9	<0.1	<0.05	6	<0.5
REP L-36N 19+00E	QC	4	82	0.88	157	0.106	<20	1.96	0.013	0.17	<0.1	<0.01	1.9	<0.1	<0.05	6	<0.5
L-38N 15+00E	Soil	3	65	0.71	99	0.099	<20	1.42	0.013	0.11	0.1	<0.01	1.4	<0.1	<0.05	5	<0.5
REP L-38N 15+00E	QC	3	70	0.77	107	0.103	<20	1.58	0.013	0.11	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5
L-40N 12+00E	Soil	2	38	0.40	84	0.072	<20	1.12	0.008	0.05	<0.1	0.02	0.9	<0.1	<0.05	4	<0.5
REP L-40N 12+00E	QC	3	38	0.40	87	0.077	<20	1.14	0.008	0.05	<0.1	0.02	1.1	<0.1	<0.05	4	<0.5
L-40N 24+50E	Soil	2	74	0.78	198	0.132	<20	1.75	0.012	0.06	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5
REP L-40N 24+50E	QC	2	77	0.85	194	0.148	<20	1.82	0.012	0.07	0.2	0.01	1.1	<0.1	<0.05	5	<0.5
L-46N 21+50E	Soil	4	52	0.54	107	0.134	<20	2.62	0.009	0.10	0.1	0.03	2.3	<0.1	<0.05	8	<0.5
REP L-46N 21+50E	QC	4	52	0.58	109	0.135	<20	2.67	0.014	0.11	0.1	0.04	2.6	<0.1	<0.05	7	0.6
Reference Materials																	
STD DS7	Standard	12	192	1.00	419	0.126	37	1.00	0.100	0.51	3.5	0.19	2.5	4.4	0.20	5	4.0
STD DS7	Standard	11	179	1.07	394	0.118	44	1.01	0.102	0.48	3.3	0.20	2.3	4.4	0.23	5	4.1
STD DS7	Standard	11	173	0.93	385	0.116	36	0.89	0.091	0.47	3.3	0.19	2.5	3.9	0.18	4	3.7
STD DS7	Standard	12	173	1.04	386	0.116	43	0.98	0.095	0.49	3.4	0.21	2.4	4.2	0.20	5	3.3
STD DS7	Standard	10	181	1.00	383	0.103	34	0.92	0.077	0.42	3.2	0.20	1.9	4.3	0.22	4	3.3
STD DS7	Standard	10	181	1.01	369	0.104	35	0.93	0.077	0.42	3.3	0.19	1.9	4.2	0.23	5	3.7
STD DS7	Standard	10	177	0.99	369	0.094	42	0.90	0.084	0.43	3.3	0.19	1.8	4.0	0.18	4	3.4
STD DS7	Standard	11	191	1.00	375	0.100	42	0.98	0.091	0.40	3.6	0.18	2.0	4.0	0.15	5	3.4
STD DS7	Standard	12	196	1.07	400	0.134	37	1.04	0.089	0.46	3.4	0.20	2.5	4.3	0.20	5	3.8
STD DS7	Standard	12	189	1.00	383	0.129	37	0.96	0.086	0.44	3.5	0.19	2.3	4.0	0.19	5	3.6
STD DS7	Standard	12	186	1.04	384	0.116	33	1.01	0.087	0.43	3.3	0.20	2.0	4.3	0.20	5	2.9
STD DS7	Standard	11	183	1.02	364	0.117	39	1.00	0.084	0.42	3.4	0.19	2.0	4.2	0.19	5	3.6
STD DS7	Standard	10	176	0.96	357	0.102	35	0.88	0.076	0.41	3.4	0.19	1.9	4.1	0.23	4	3.4

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Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

QUALITY CONTROL REPORT VAN08007370.1

		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS7	Standard	18.3	105.6	65.8	385	1.0	55.2	8.8	590	2.29	46.5	4.0	48.8	3.6	65	6.1	4.9	4.4	84	0.83	0.071
STD DS7 Expected		20.9	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	5.9	4.5	86	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: July 28, 2008

QUALITY CONTROL REPORT VAN08007370.1

		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
STD DS7	Standard	11	186	1.02	370	0.107	32	0.95	0.081	0.42	3.3	0.19	1.8	4.0	0.22	4	3.4
STD DS7 Expected		13	163	1.05	370	0.124	39	0.959	0.073	0.44	3.8	0.2	2.5	4.2	0.21	5	3.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5

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852 E. Hastings St. Vancouver BC V6A 1R6 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Submitted By: David Blann
Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.
Received: June 10, 2008
Report Date: June 16, 2008
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN08006407.1

CLIENT JOB INFORMATION

Project: Hawk
Shipment ID:
P.O. Number
Number of Samples: 30

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	30	Crush, split and pulverize rock to 150 mesh		
1DX	30	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed

ADDITIONAL COMMENTS

Invoice To: Happy Creek Minerals Ltd.
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2
Canada

CC: D. Ridley
Bob Lane

BRITISH COLUMBIA CERTIFIED ASSAYER
Raymond Chan

ACME ANALYTICAL LABORATORIES LTD.
852 E. Hastings St. Vancouver BC V6A 1R6 Canada
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Project: Hawk
Report Date: June 16, 2008

CERTIFICATE OF ANALYSIS VAN08006407.1

	Method	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
659651	Rock	2.21	1.2	64.0	0.8	45	<0.1	33.7	19.6	434	3.06	1.1	<0.1	1.6	<0.1	48	<0.1	<0.1	<0.1	86	1.03
659652	Rock	0.93	0.8	122.9	0.6	42	<0.1	47.8	16.4	467	3.39	0.7	0.1	4.7	0.2	39	<0.1	<0.1	<0.1	109	1.06
659653	Rock	0.70	0.7	74.8	0.6	35	<0.1	17.5	13.8	197	3.51	0.9	0.2	3.2	0.6	80	<0.1	<0.1	<0.1	193	0.92
659654	Rock	0.91	0.4	92.8	0.8	20	<0.1	76.5	10.0	213	1.21	<0.5	0.2	4.0	0.2	58	<0.1	<0.1	<0.1	39	1.22
659655	Rock	2.49	1.2	73.5	1.0	29	<0.1	57.1	14.8	231	1.96	0.9	0.1	0.8	0.2	32	<0.1	<0.1	<0.1	65	1.40
659656	Rock	1.43	0.3	132.0	2.3	26	0.1	100.5	40.2	392	3.91	1.7	<0.1	0.6	0.3	21	0.2	<0.1	0.1	60	0.95
659657	Rock	1.58	1.1	164.0	1.6	23	0.2	2.2	3.6	502	1.90	<0.5	0.2	28.5	0.6	24	0.5	<0.1	<0.1	8	2.00
659658	Rock	1.34	0.6	104.2	0.7	71	<0.1	14.3	21.8	584	1.65	1.8	<0.1	2.7	0.2	66	<0.1	<0.1	<0.1	74	1.14
659659	Rock	0.98	30.5	2426	818.7	1094	37.4	6.1	3.8	747	1.50	134.8	<0.1	1804	<0.1	566	36.3	888.7	17.9	32	1.15
826501	Rock	1.43	0.3	4.4	0.5	49	<0.1	231.4	53.9	855	4.92	0.7	<0.1	<0.5	<0.1	2	<0.1	0.4	<0.1	10	0.11
826502	Rock	1.98	0.8	268.2	1.4	55	0.1	18.4	20.4	566	3.40	1.6	<0.1	1.7	<0.1	67	0.1	0.4	<0.1	82	1.62
826503	Rock	1.74	0.6	275.6	5.9	32	0.3	15.5	14.6	389	2.65	1.5	<0.1	5.7	0.1	59	0.2	1.6	<0.1	71	1.34
826504	Rock	1.53	0.8	166.3	0.6	33	<0.1	20.3	18.1	396	2.42	1.1	<0.1	2.2	<0.1	69	<0.1	0.1	<0.1	75	1.19
826505	Rock	1.47	0.4	133.6	1.1	53	<0.1	21.9	21.4	456	3.30	0.6	<0.1	1.1	<0.1	88	<0.1	<0.1	<0.1	91	1.57
826506	Rock	1.16	1.0	91.3	1.1	47	<0.1	24.2	25.9	446	2.97	1.3	<0.1	2.0	<0.1	41	<0.1	0.2	<0.1	74	1.08
826507	Rock	1.99	0.5	5.6	0.4	18	<0.1	2.3	5.0	169	1.18	1.0	0.3	1.0	0.3	50	<0.1	<0.1	<0.1	55	0.98
826508	Rock	0.59	0.6	19.1	0.4	27	<0.1	3.5	6.0	220	1.42	0.6	0.3	1.6	0.3	42	<0.1	<0.1	<0.1	74	0.90
826509	Rock	0.46	0.9	170.3	0.9	13	<0.1	2.3	2.0	230	0.95	<0.5	0.4	1.9	0.5	32	<0.1	0.2	<0.1	50	0.77
826510	Rock	1.82	0.7	38.1	0.6	51	<0.1	2.5	9.7	430	1.47	0.9	0.3	2.6	0.3	41	<0.1	<0.1	<0.1	51	1.11
826511	Rock	1.26	0.9	12.5	0.5	36	<0.1	4.5	8.0	347	1.38	1.0	0.2	2.1	0.2	39	<0.1	<0.1	<0.1	48	0.96
826512	Rock	1.40	1.1	9.8	0.9	40	<0.1	3.4	8.0	346	1.62	2.5	0.3	2.0	0.4	44	<0.1	0.1	<0.1	55	0.75
826513	Rock	1.46	0.6	189.4	1.1	46	0.2	5.3	12.6	1004	2.98	1.7	0.2	3.0	0.2	104	0.2	0.3	<0.1	106	1.55
826514	Rock	0.98	1.0	10.5	0.8	22	<0.1	4.7	5.8	261	1.52	1.6	0.3	<0.5	0.3	68	<0.1	0.1	<0.1	65	1.06
826515	Rock	0.90	1.0	459.1	0.7	29	0.5	5.3	9.7	369	2.92	<0.5	0.3	31.1	0.3	44	<0.1	<0.1	<0.1	104	0.99
826516	Rock	2.31	0.7	698.1	1.0	22	0.9	5.5	8.6	333	2.75	<0.5	0.3	33.8	0.3	46	<0.1	<0.1	<0.1	98	0.91
826517	Rock	3.61	0.9	103.9	0.4	33	<0.1	6.7	10.9	447	3.85	0.7	0.3	13.6	0.3	48	<0.1	<0.1	<0.1	123	1.16
826518	Rock	2.97	0.6	83.5	0.7	55	<0.1	10.0	16.5	670	4.24	0.8	0.2	7.7	0.3	45	<0.1	<0.1	<0.1	123	1.08
826519	Rock	4.03	0.5	404.2	0.5	30	0.3	5.8	10.7	477	3.50	0.6	0.2	115.0	0.2	45	<0.1	<0.1	<0.1	115	1.13
826520	Rock	0.84	0.8	719.7	0.6	27	0.8	7.1	13.4	420	3.14	<0.5	0.2	357.2	0.3	54	0.1	<0.1	0.2	133	1.35
826521	Rock	2.61	1.1	402.3	0.6	23	0.3	5.5	7.4	426	2.51	<0.5	0.3	51.9	0.4	39	<0.1	<0.1	0.2	110	1.31

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

ACME ANALYTICAL LABORATORIES LTD.
852 E. Hastings St. Vancouver BC V6A 1R6 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: June 16, 2008

CERTIFICATE OF ANALYSIS VAN08006407.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
659651	Rock		0.076	<1	65	1.44	345	0.216	<20	1.77	0.116	0.85	<0.1	<0.01	2.7	<0.1	0.13	4	0.6
659652	Rock		0.097	1	82	1.35	361	0.212	<20	1.73	0.177	0.85	0.1	<0.01	3.3	<0.1	<0.05	6	<0.5
659653	Rock		0.139	5	41	0.76	325	0.238	<20	1.79	0.246	0.73	<0.1	<0.01	2.4	<0.1	<0.05	6	<0.5
659654	Rock		0.083	2	104	1.08	198	0.090	<20	1.36	0.175	0.31	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5
659655	Rock		0.093	2	105	0.81	105	0.099	<20	1.44	0.081	0.27	<0.1	<0.01	2.5	<0.1	0.13	4	<0.5
659656	Rock		0.088	2	95	1.55	26	0.070	<20	1.27	0.047	0.10	0.1	<0.01	3.4	<0.1	1.11	4	<0.5
659657	Rock		0.063	4	5	0.24	116	0.001	<20	0.31	0.025	0.23	<0.1	0.03	2.1	<0.1	0.58	<1	<0.5
659658	Rock		0.263	3	28	1.60	44	0.108	<20	1.19	0.045	0.81	0.1	<0.01	1.1	<0.1	<0.05	4	<0.5
659659	Rock		0.017	<1	13	0.53	227	<0.001	<20	0.07	0.004	0.05	0.3	11.61	1.4	<0.1	0.55	3	2.6
826501	Rock		0.005	<1	53	6.64	18	0.007	<20	0.09	0.003	<0.01	<0.1	0.01	2.2	<0.1	<0.05	<1	<0.5
826502	Rock		0.109	1	20	1.35	50	0.099	<20	1.32	0.053	0.10	<0.1	0.02	3.8	<0.1	0.28	5	0.9
826503	Rock		0.124	<1	29	1.10	49	0.133	<20	1.21	0.122	0.22	<0.1	0.05	4.9	<0.1	<0.05	3	<0.5
826504	Rock		0.116	<1	33	1.25	141	0.197	<20	1.37	0.060	0.56	0.1	0.01	3.4	<0.1	<0.05	4	0.7
826505	Rock		0.113	1	28	1.68	93	0.141	<20	1.75	0.060	0.48	<0.1	<0.01	3.1	<0.1	<0.05	5	<0.5
826506	Rock		0.107	<1	33	1.61	359	0.209	<20	1.72	0.045	1.32	0.1	0.01	1.9	<0.1	0.45	5	<0.5
826507	Rock		0.259	<1	6	0.32	24	0.090	<20	0.53	0.072	0.12	0.1	<0.01	2.0	<0.1	<0.05	2	<0.5
826508	Rock		0.243	<1	7	0.45	18	0.104	<20	0.52	0.079	0.14	0.1	<0.01	2.4	<0.1	<0.05	2	<0.5
826509	Rock		0.209	1	5	0.18	40	0.080	<20	0.40	0.064	0.10	<0.1	<0.01	1.4	<0.1	<0.05	1	<0.5
826510	Rock		0.219	2	4	0.72	32	0.085	<20	0.90	0.059	0.14	0.1	<0.01	1.3	<0.1	<0.05	3	<0.5
826511	Rock		0.224	1	4	0.51	34	0.093	<20	0.65	0.048	0.14	0.2	<0.01	0.9	<0.1	<0.05	2	<0.5
826512	Rock		0.210	2	4	0.51	21	0.102	<20	0.68	0.080	0.21	<0.1	<0.01	1.0	<0.1	<0.05	3	<0.5
826513	Rock		0.247	2	11	0.94	31	0.072	<20	0.90	0.048	0.02	1.7	<0.01	4.8	<0.1	<0.05	4	0.5
826514	Rock		0.248	2	12	0.35	28	0.118	<20	0.59	0.052	0.14	0.1	<0.01	2.1	<0.1	<0.05	2	<0.5
826515	Rock		0.199	1	14	0.54	31	0.121	<20	0.67	0.062	0.17	0.3	0.23	2.9	<0.1	<0.05	3	<0.5
826516	Rock		0.177	1	10	0.29	35	0.097	<20	0.50	0.071	0.07	0.2	2.31	2.0	<0.1	<0.05	2	<0.5
826517	Rock		0.201	1	17	0.68	25	0.104	<20	0.73	0.075	0.12	0.2	<0.01	4.1	<0.1	<0.05	3	<0.5
826518	Rock		0.222	<1	22	1.10	27	0.098	<20	1.00	0.060	0.10	0.6	0.03	3.8	<0.1	<0.05	4	<0.5
826519	Rock		0.205	<1	16	0.64	29	0.100	<20	0.68	0.075	0.12	0.4	0.05	3.9	<0.1	<0.05	3	<0.5
826520	Rock		0.176	2	15	0.57	37	0.120	<20	0.81	0.093	0.13	0.8	0.03	4.6	<0.1	<0.05	3	<0.5
826521	Rock		0.200	2	16	0.57	35	0.114	<20	0.74	0.087	0.12	0.3	0.02	4.8	<0.1	<0.05	3	<0.5

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www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: June 16, 2008

QUALITY CONTROL REPORT VAN08006407.1

	Method	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
826519	Rock	4.03	0.5	404.2	0.5	30	0.3	5.8	10.7	477	3.50	0.6	0.2	115.0	0.2	45	<0.1	<0.1	<0.1	115	1.13
REP 826519	QC		0.5	400.7	0.6	33	0.3	5.5	10.9	483	3.45	<0.5	0.2	129.2	0.2	44	<0.1	<0.1	<0.1	110	1.13
Reference Materials																					
STD DS7	Standard		18.9	100.4	66.1	406	0.9	54.1	8.8	613	2.30	50.3	3.6	67.4	3.1	59	6.3	4.5	3.9	76	0.89
STD DS7	Standard		20.1	103.5	70.0	398	0.8	56.8	8.5	610	2.30	54.7	4.1	75.1	3.6	63	6.0	4.6	4.0	78	0.91
STD DS7	Standard		19.1	94.8	70.3	407	0.9	51.6	9.0	589	2.36	53.5	3.7	54.0	3.7	60	6.3	4.7	3.9	81	0.91
STD DS7	Standard		17.5	92.6	65.2	384	0.7	50.6	8.1	591	2.18	46.5	3.6	51.1	3.0	54	5.9	4.9	3.7	73	0.85
STD DS7 Expected			20.92	109	70.6	411	0.89	56	9.7	627	2.39	48.2	4.9	70	4.4	68.7	6.38	5.86	4.51	86	0.93
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	2.6	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	0.5	3.0	2.2	43	<0.1	4.1	4.1	550	1.88	<0.5	2.1	0.6	2.8	56	<0.1	<0.1	<0.1	33	0.54
G1	Prep Blank	<0.01	0.5	5.1	2.0	47	<0.1	5.0	4.0	524	1.85	<0.5	1.5	0.7	2.8	48	<0.1	<0.1	<0.1	33	0.47

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Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: June 16, 2008

QUALITY CONTROL REPORT VAN08006407.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																			
826519	Rock		0.205	<1	16	0.64	29	0.100	<20	0.68	0.075	0.12	0.4	0.05	3.9	<0.1	<0.05	3	<0.5
REP 826519	QC		0.200	<1	16	0.63	29	0.099	<20	0.67	0.070	0.11	0.4	0.05	3.7	<0.1	<0.05	3	<0.5
Reference Materials																			
STD DS7	Standard		0.077	10	159	1.01	395	0.095	37	0.91	0.077	0.44	3.4	0.19	1.9	4.2	0.20	4	3.5
STD DS7	Standard		0.084	11	156	1.02	416	0.102	44	0.95	0.084	0.43	3.9	0.20	2.1	4.3	0.20	5	4.5
STD DS7	Standard		0.074	12	165	1.04	371	0.104	26	0.97	0.082	0.45	3.3	0.18	2.4	4.2	0.20	4	3.6
STD DS7	Standard		0.072	9	157	0.99	377	0.094	21	0.91	0.067	0.43	3.2	0.16	2.3	4.1	0.18	4	4.0
STD DS7 Expected			0.08	12.7	163	1.05	370.3	0.124	38.6	0.959	0.073	0.44	3.8	0.2	2.5	4.19	0.21	4.6	3.5
BLK	Blank		<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank		<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
Prep Wash																			
G1	Prep Blank		0.079	6	10	0.60	267	0.120	<20	1.10	0.089	0.57	<0.1	<0.01	1.9	0.4	<0.05	5	<0.5
G1	Prep Blank		0.086	6	8	0.59	246	0.116	<20	0.97	0.082	0.55	<0.1	<0.01	1.9	0.4	<0.05	5	<0.5

ACME ANALYTICAL LABORATORIES LTD.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Submitted By:	David Blann
Receiving Lab:	Canada-Vancouver
Received:	October 24, 2008
Report Date:	November 12, 2008
Page:	1 of 2

CERTIFICATE OF ANALYSIS VAN08010480.1

CLIENT JOB INFORMATION

Project:	Hawk
Shipment ID:	
P.O. Number	
Number of Samples:	7

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
DISP-RJT	Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	7	Crush, split and pulverize rock to 200 mesh		
1DX	7	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed

ADDITIONAL COMMENTS

Invoice To: Happy Creek Minerals Ltd.
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2
Canada

CC: Bob Lane
D. Ridley
Mark Ralph

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

ACME ANALYTICAL LABORATORIES LTD.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: November 12, 2008

CERTIFICATE OF ANALYSIS VAN08010480.1

Method		WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
151574	Rock	1.10	0.8	1324	3.2	27	0.8	27.8	12.1	298	1.51	0.5	<0.1	46.6	0.1	18	0.3	<0.1	0.3	43	0.84
322615	Rock	0.79	0.4	18.5	1.6	10	<0.1	4.7	4.4	541	0.82	0.8	<0.1	4.2	<0.1	36	0.1	<0.1	<0.1	9	0.06
322616	Rock	0.81	0.3	143.6	3.1	40	0.2	6.3	13.6	395	3.00	0.8	0.1	6.8	0.3	64	0.2	0.1	<0.1	86	1.21
322617	Rock	1.09	4.1	52.3	2.5	12	0.1	12.5	14.4	132	3.63	8.7	0.1	1.0	0.3	35	0.1	0.1	<0.1	54	0.98
322618	Rock	0.83	0.2	48.2	4.8	18	<0.1	1.4	2.4	258	1.20	<0.5	0.7	17.0	2.3	22	<0.1	<0.1	<0.1	21	0.26
322619	Rock	0.95	0.5	20.3	3.7	15	<0.1	1.9	3.0	234	1.24	<0.5	0.3	10.0	1.6	26	<0.1	<0.1	<0.1	15	0.48
322620	Rock	1.17	0.6	623.0	1.4	46	0.3	31.3	17.4	420	1.76	1.0	0.1	0.9	0.1	57	0.3	0.1	<0.1	52	1.91

ACME ANALYTICAL LABORATORIES LTD.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: November 12, 2008

CERTIFICATE OF ANALYSIS VAN08010480.1

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
151574	Rock	0.062	1	112	0.82	114	0.082	<20	0.67	0.025	0.34	0.1	0.02	2.3	<0.1	0.12	2	0.7
322615	Rock	0.037	<1	7	0.02	226	0.002	<20	0.15	0.007	0.17	<0.1	<0.01	1.9	<0.1	<0.05	<1	<0.5
322616	Rock	0.132	2	14	0.66	74	0.124	<20	1.09	0.102	0.26	0.1	<0.01	3.4	<0.1	0.36	4	<0.5
322617	Rock	0.126	3	12	0.50	42	0.086	<20	1.19	0.042	0.13	<0.1	<0.01	3.1	<0.1	1.25	4	<0.5
322618	Rock	0.038	8	3	0.25	86	0.002	<20	0.49	0.039	0.13	<0.1	<0.01	0.7	<0.1	0.11	3	<0.5
322619	Rock	0.029	7	6	0.22	92	0.002	<20	0.38	0.029	0.11	<0.1	<0.01	0.4	<0.1	0.30	2	<0.5
322620	Rock	0.070	1	56	0.77	41	0.110	<20	0.99	0.026	0.06	0.3	<0.01	1.6	<0.1	0.06	3	<0.5

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Client: **Happy Creek Minerals Ltd.**
Suite 2300 - 1066 W. Hastings St.
Vancouver BC V6E 3X2 Canada

Project: Hawk
Report Date: November 12, 2008

QUALITY CONTROL REPORT VAN08010480.1

	Method	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Reference Materials																					
STD DS7	Standard		19.5	105.6	67.8	383	0.8	54.1	9.1	598	2.32	49.8	5.1	83.3	4.2	73	6.4	4.9	4.5	77	0.92
STD DS7	Standard		19.7	106.3	66.3	393	0.8	57.5	9.4	619	2.34	52.0	5.3	48.5	4.3	74	6.5	4.6	4.4	77	0.94
STD DS7 Expected			20.9	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	5.9	4.5	86	0.93
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	0.8	4.0	20.0	59	0.1	6.5	4.6	559	2.06	1.6	1.4	4.3	3.4	61	0.4	<0.1	<0.1	36	0.56

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Project: Hawk
Report Date: November 12, 2008

QUALITY CONTROL REPORT VAN08010480.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Reference Materials																		
STD DS7	Standard	0.072	13	189	0.99	399	0.117	34	1.01	0.090	0.45	3.3	0.18	2.3	4.0	0.18	5	3.5
STD DS7	Standard	0.073	13	194	1.01	397	0.117	37	1.01	0.089	0.45	3.3	0.18	2.2	4.0	0.18	5	3.2
STD DS7 Expected		0.08	13	163	1.05	370	0.124	39	0.959	0.073	0.44	3.8	0.2	2.5	4.2	0.21	5	3.5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
Prep Wash																		
G1	Prep Blank	0.076	8	10	0.59	234	0.130	<20	1.06	0.100	0.54	<0.1	<0.01	1.9	0.3	<0.05	5	<0.5

APPENDIX J
GEOPHYSICAL SURVEY REPORT

LOGISTICS REPORT

FOR

HAPPY CREEK MINERALS LTD.

3D INDUCED POLARIZATION AND MAGNETIC SURVEYS

ON THE

HAWK PROPERTY

100 Mile House, British Columbia, Canada

51° 53' N 120° 55.5' W (WGS84)

Mining Division: Clinton

NTS map sheet: 092P15

BCGS map sheet: 92P086

SURVEY CONDUCTED BY
SJ GEOPHYSICS LTD.
JUNE 2008

REPORT WRITTEN BY
ALEXANDRE JEGO, JOHN LINDNER
S.J.V. CONSULTANTS LTD.
SEPTEMBER 2008

Table of Contents

List of Figures

1. Introduction

Three-dimensional induced polarization (3D IP) and magnetic surveys were undertaken for Happy Creek Minerals Ltd. on its Hawk property by SJ Geophysics Ltd. from June 11 to 21, 2008. The property is located approximately 35.8km northeast of 100 Mile House and 24km south of the Boss Mountain Molybdenum mine, in the south Cariboo region of British Columbia, Canada. During this period of time, 8 cross lines, totaling 16.5km, were surveyed with the IP method while 17 cross lines and 3 tie lines, totaling 29.8km, were surveyed with the Magnetic method.

Various studies such as geochemical sampling and geological mapping were conducted on different sections of the property through out the 1980's and 1990's. In addition, a 3D IP survey was conducted on the grid last year by SJ Geophysics Ltd. The underlying purpose of the present geophysical survey was to confirm the old exploration results and also to assist in defining viable targets for future drilling. Initial quality control was performed on site by the field geophysicist, while the final data processing and inversions were carried out in the offices of SJ Geophysics Ltd.

This logistical report summarizes the operational aspects of the survey and the survey methodologies used. This report does not discuss any interpretation of the results of the geophysical survey.

2. Location and line information

The Hawk property is located approximately 35.8km northeast of 100 Mile House, in the south central Cariboo region (Figure 1). The geophysical grid was accessible from 100 Mile House via Canim-Hendrix road, Ragle Creek road and Schoolhouse logging road.

The survey area is situated in the Quesnel highlands physiographic region with elevations ranging from 788m to 1075m. There is logging activity in the area. The ground is covered by dense stands of lodgepole pine, Douglas fir, paper birch and aspen.

The IP survey grid consisted of 8 cross lines labeled from 3200N to 4600N with a total length of 16,500m (Figure 2). The cross lines are oriented at an azimuth of 108 degree. Lines range from 1800m to 2300m in length. The cross lines are spaced 200m apart and stations are numbered in local coordinates from 400E to 2400E . Stations were marked and flagged at every

50m along each line. Four lines was set up as receiver lines for this survey: 3400N, 3800N, 4200N and 4400N. There are 2 remote stations for the IP survey. They are labeled in local coordinates at 3630N/3425E and 4210N/3600E.

The magnetic survey grid includes the IP survey grid and an additional 9 cross lines from the 2007 3D IP survey and labeled from 4800N to 7000N. The additional cross lines are shorter and range from 750m to 1200m in length.

All stations were put in using chain, compass and GPS by the SJ Geophysics Ltd. crew. GPS readings were taken at every 100m. All locations were defined in the UTM projection, Zone 10 using the WGS84 datum. Appendix B summarizes the surveyed lines.

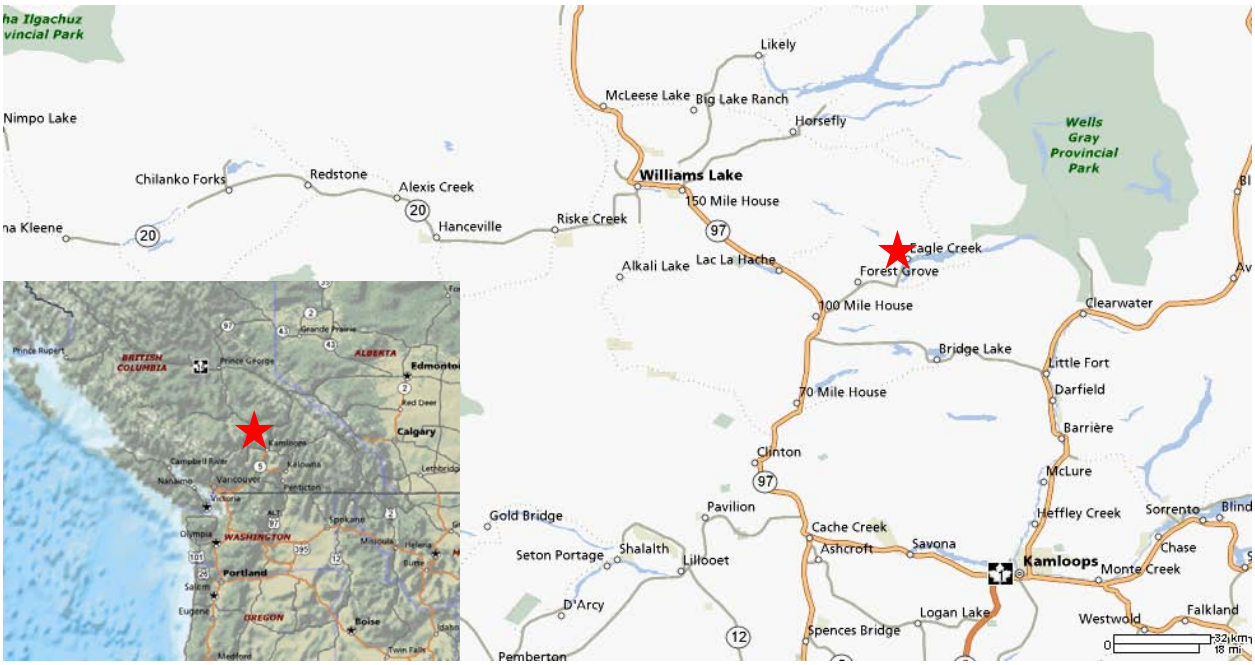


Figure 1: Regional map showing location of Hawk property in central British Columbia.
The red star denotes the location of the Hawk property. (Base map from www.mapquest.com)

3. Field work and instrumentation

3.1. Field logistics

The IP crew consisted of six SJ Geophysics Ltd. employees: Jay Watt (crew supervisor), Alexandre Jego (student geophysicist), Ian Lockman, Jeff Stott, Dustin Walcer and William James. Meals and accommodations were provided by the client at the Reynolds Resort on the Canim-Hendrix Lake Road.

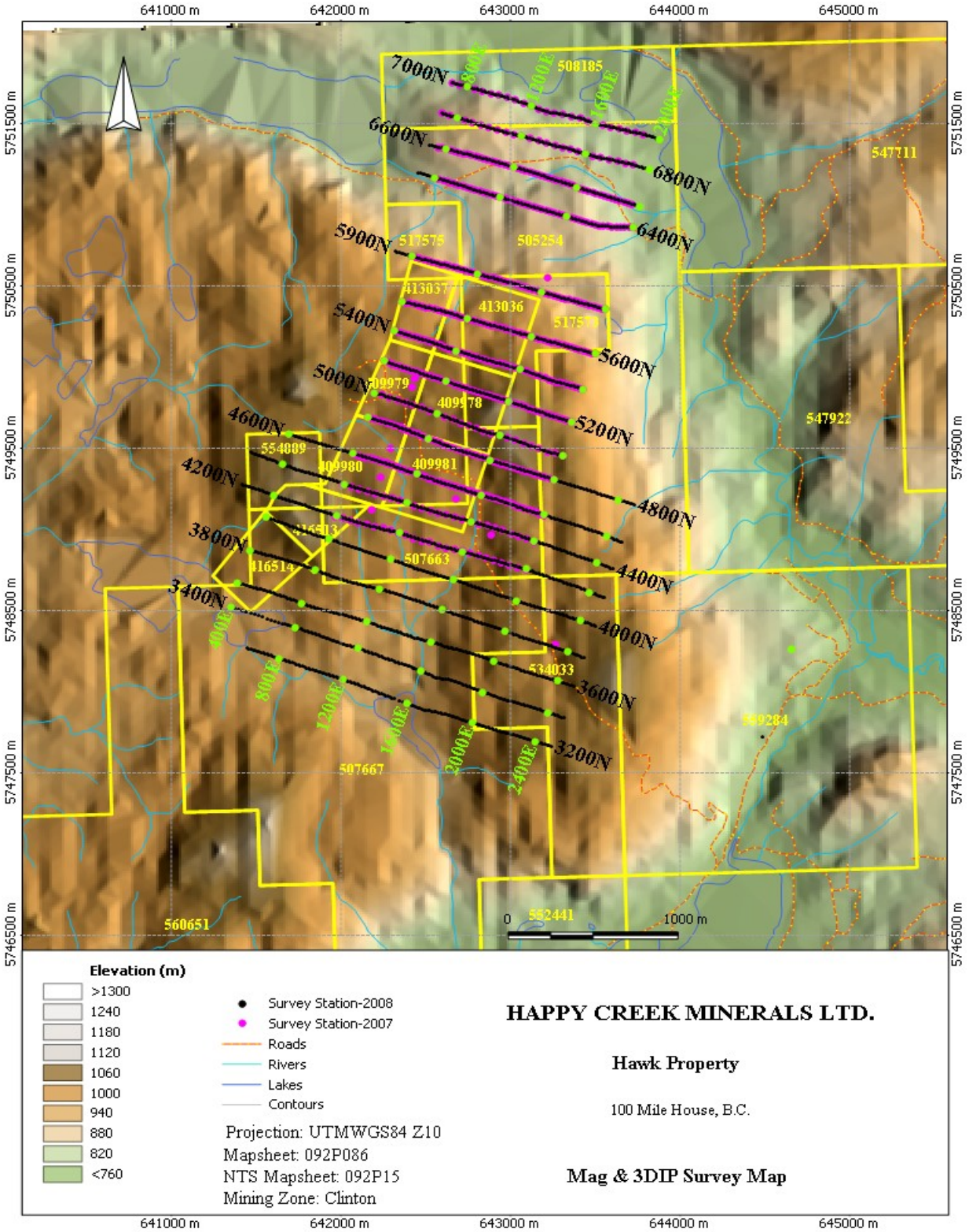


Figure 2: Location map of the Hawk survey grid near 100 Mile House, BC.

The black lines denote the 2008 extensions while the red lines denote the 2007 survey grid.

The crew mobilized with survey equipment from Kamloops to Reynolds Resort on June 10, 2008 and set up the IP survey the next day. Alexandre Jego joined the crew on June 11. IP data acquisition and magnetic surveying started on June 11 and finished on June 21. The survey started from line 3200N and proceeded north. The survey included 11 production days and 1 mobilization day.

Appendix C summarizes the survey production rates.

3.2. Survey parameters and instrumentation

For the IP component of the survey, a modified pole-dipole 3D-IP configuration array was used with between 15 and 16 dipoles. The dipole array was implemented using standard 8-pin conductor cables configured with potential electrodes spaced 100m apart. Some measurements were also taken with 200m dipoles. For the potential line, the electrodes consisted of 3/8" stainless steel electrodes 50cm long. The IP data was collected using the SJ Geophysics Ltd. SJ-24 full waveform digital IP receiver.

The current was injected into the ground on a 2 seconds on, 2 seconds off duty cycle using a GDD 3.6kW transmitter. At each current station, the electrodes consisted of 5/8" stainless steel rods approximately 1m long. Current injections were spaced every 100m with an offset of 50m when surveying the adjacent receiver line. Two remotes east of the grid were used for the entire survey.

The IP readings from each day's surveying were downloaded to a computer and entered into a database archive every evening. The database program allows the operator to display the IP decay curves in an efficient manner, and this provides a visual review of the data quality on site.

For the Mag survey, data were collected on three GEM-19 magnetometers with two mobile units and one base station. The base station was located outside the north part of the grid and was sampling every 4 seconds using a datum of 56000nT. Mobile measurements were taken at 12.5m (paced) intervals.

4. Geophysical techniques

4.1. IP method

The time domain IP technique energizes the ground with an alternating square wave pulse via

a pair of current electrodes. During current injection, the apparent (bulk) resistivity of the ground is calculated from the measured primary voltage and the input current. Following current injection, a time decaying voltage is also measured at the receiver electrodes. This IP effect measures the amount of polarizable (or "chargeable") materials in the subsurface rock.

Under ideal circumstances, high chargeability corresponds to disseminated metallic sulfides. Unfortunately, IP responses are rarely uniquely interpretable as other rock materials are also chargeable, including some graphitic rocks, clays and some metamorphic rocks (e.g., serpentinite). Therefore, it is prudent from a geological perspective to incorporate other data sets to assist in interpretation.

IP and resistivity measurements are generally considered repeatable to within about five percent. However, changing field conditions, such as variable water content or electrode contact, reduce the overall repeatability. These measurements are influenced to a large degree by the rock materials near the surface (or, more precisely, near the measuring electrodes). In the past, interpretation of a traditional IP pseudosection was often uncertain because strong responses located near the surface could mask a weaker one at depth.

4.2. 3D IP method

Three dimensional IP surveys were designed to take advantage of the interpretative functionality offered by 3D inversion techniques. Unlike conventional IP, the electrode arrays are no longer restricted to an in-line geometry. In the standard 3DIP configuration, a receiver array is established along a survey line while current electrodes are located on two adjacent lines. Current electrodes are advanced along the adjacent lines at fixed increments. A typical receiver array consists of 12 to 16 dipoles separated by the same interval as the current lines or by some multiple of that interval. These spacings are sometimes modified to compensate for local conditions, such as inaccessible sites and streams, or the overall conductivity of ground. Receiver arrays are typically established on every second line. By injecting multiple current locations to a single receiver electrode array, data acquisition rates are significantly improved over conventional surveys. each station. After each day of surveying, data are downloaded to a computer for archiving and further processing.

4.3. Magnetic survey method

Magnetic intensity measurements are taken along survey traverses (normally on a regular grid) and are used to identify metallic mineralization related to magnetic materials in the ground (e.g., magnetite and/or pyrrhotite). Magnetic data are also used as a mapping tool to distinguish rock types and to identify faults, bedding, structure and alteration zones. Line and station intervals are usually determined by the size and depth of the exploration targets.

The magnetic field has both an amplitude and a direction and our instrumentation measures both components. The most common technique used in mineral exploration (which was used on this project) is to measure just the amplitude component using a proton precision magnetometer. The instrument digitally records the survey line, station, total magnetic field and time of day at each station. After each day of surveying, data are downloaded to a computer for archiving and further processing.

The earth's magnetic field is continually changing (diurnal variations) so field measurements are calibrated to these variations. The most accurate technique is to establish a stationary base station magnetometer to continually monitor and record the magnetic field over the course of a day. The base station and field magnetometers are time-synchronized and computer software is used to correct the field data for the diurnal variations.

Respectfully submitted,
As per S.J.V. Consultants Ltd.

John Lindner
Computing geophysicist, S.J.V. Consultants Ltd.

Appendix A: Statement of qualifications (Alexandre Jego)

I, Alexandre Jego, of the city of Delta, British Columbia, hereby certify that:

1. I graduated with a B.Sc. in geophysics from the Ecole et Observatoire des Sciences de la Terre de Strasbourg I (School and Observatory of Earth Sciences) in Strasbourg, France, in September 2008.
2. I have been working in the mineral and oil exploration since May 2008.
3. I have no interest in Happy Creek Minerals Ltd. or in any property within the scope of this report, nor do I expect to receive any.

Signed by: _____ on _____

Alexandre Jego, B.Sc.
Geophysicist, SJ Geophysics Ltd.

Appendix B: Statement of qualifications (John Lindner)

I, John Lindner, of the city of Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of Lethbridge in 2006 with a Masters of Science in physics and from the University of Victoria in 2003 with a Bachelors of Science in physics and astronomy.
2. I have been working in the mineral exploration industry since 2007.
3. I have no interest in Happy Creek Minerals Ltd. or in any property within the scope of this report, nor do I expect to received any.

Signed by: _____ on _____

John Lindner, P.Phys., M.Sc., B.Sc.
Computing geophysicist, S.J.V. Consultants Ltd.

Appendix C: Survey summary tables

3D IP

Line	Start station	End station	Survey length (m)	Rx survey date(s)
3200N	600E	2500E	1900	
3400N	800E	2400E	1800	June 13, 2008
3600N	400E	2500E	2100	
3800N	450E	2450E	2000	June 15
4000N	400E	2500E	2100	
4200N	200E	2500E	2300	June 17
4400N	200E	2500E	2300	June 19 – 20
4600N	500E	2500E	2000	

Total linear meters = 16500

Magnetic

Line	Start station	End station	Survey length (m)	Survey date(s)
3200N	600E	2500E	1900	June 11 - 12, 2008
3400N	750E	2500E	1750	June 11 - 12
3600N	400E	2500E	2100	June 12
3800N	400E	2500E	2100	June 12
4000N	400E	2500E	2100	June 12
4200N	200E	2500E	2300	June 12
4400N	200E	2500E	2300	June 14
4600N	400E	2500E	2100	June 14
4800N	800E	2500E	1700	June 16
5000N	800E	2000E	1200	June 16
5200N	800E	2000E	1200	June 16
5400N	800E	2000E	1200	June 18
5600N	800E	2000E	1200	June 18
6400N	1250E	2000E	750	June 21

6600N	800E	2000E	1200	June 21
6800N	700E	1900E	1200	June 21
7000N	700E	1900E	1200	June 21
2000E	3200N	4200N	1000	June 21
1000E	4400N	5600N	1200	June 18, 21

Total linear meters = 29700

Appendix D: Instrument specifications

SJ-24 full waveform digital IP receiver

Technical:

Input impedance:	10 MΩ
Input overvoltage protection:	Up to 1000 V
External memory:	Unlimited readings
Number of dipoles:	4 to 16+, expandable
Synchronization:	Software signal post-processing user selectable
Common mode rejection:	More than 100 dB (for Rs =0)
Self potential (Sp):	Range:-5 to +5 V Resolution: 0.1 mV Proprietary intelligent stacking process rejects strong non-linear SP drifts
Primary voltage:	Range: 1 μV – 10 V (24 bit) Resolution: 1 μV Accuracy: typically <1.0%
Chargeability:	Resolution: 1 μV/V Accuracy: typically <1.0%

Four-dipole digitizer:

Dimensions (HWD):	18 x 16 x 9 cm
Weight:	1.1 kg
Battery:	12V external
Operating range:	-20 to 40°C

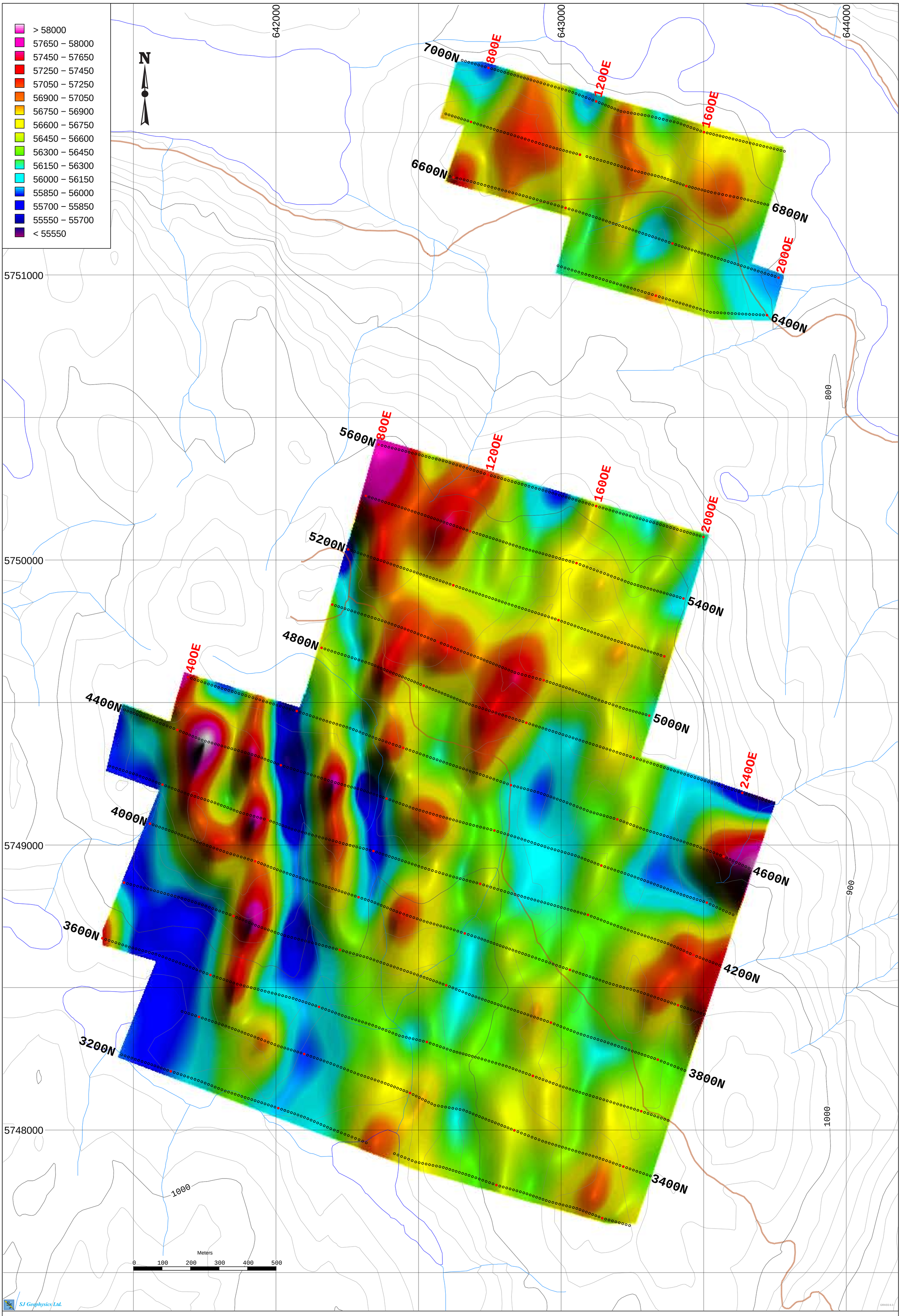
GDD Tx II IP Transmitter

Input voltage:	120V / 60 Hz or 240V / 50Hz (optional)
Output power:	3.6 kW maximum.
Output voltage:	150 to 2200 V
Output current:	5 mA to 10 A
Time domain:	1, 2, 4, 8 second on/off cycle.
Operating temp. range:	-40° to +65° C
Display:	Digital LCD read to 0.001 A
Dimensions (h w d):	34 x 21 x 39 cm
Weight:	20 kg.

GEMS Systems GSM-19 Magnetometer / Gradiometer

Resolution:	0.01 nT (magnetic field and gradient)
Accuracy:	0.2 nT over operating range
Gradient tolerance:	Up to 5000 nT/m

Operating interval:	4 seconds minimum, faster optional
Reading:	Initiated by keyboard depression, external trigger or carriage return via RS-232C.
Input/Output:	6-pin weatherproof connector, RS-232C and optional analog output
Power requirements:	12V 300 mA peak(during polarization), 35 mA standby, 600 mA peak in gradiometer
Power source:	Internal 12V, 1.9Ah sealed lead-acid battery standard, other optional External 12V power source can be used.
Battery charger:	Input: 110/220 VAC, 50/60 Hz and/or 12VDC Output: 12V dual level charging
Operating range:	-40 to +60°C
Battery voltage:	10V min to 15V max
Dimensions:	223 x 69 x 240 mm (console) 4 x 450 mm sections (sensor staff) 170 x 71 mm diameter (sensor)
Weight:	2.1 kg (console) 0.9 kg (staff) 1.1 kg (sensor)



Survey Information:

Instrumentation:
GEM−19 Magnetometer
Interval−12.5m
Datum−56000 nt

Survey by: SJ Geophysics Ltd.
Survey Date: June, 2008
Mapping Date: July, 2008

BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15

Legend

- Survey Stations
- Contour Lines
- Rivers
- Roads
- Lakes

Projection: UTM WGS84 Z10

GROUND MAGNETIC SURVEY

Magnetic Total Field Intensity (nT)

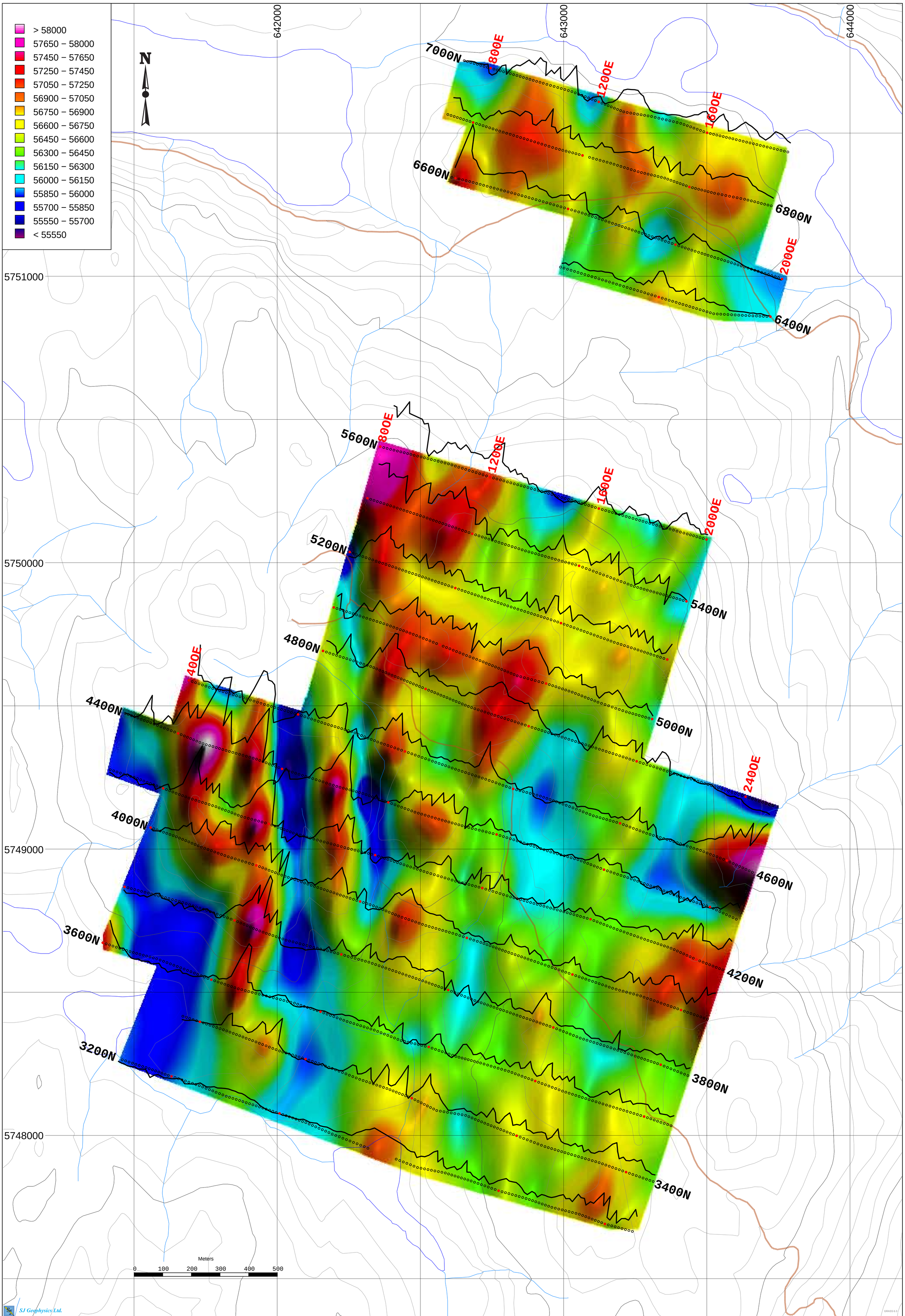
False Color Contour Map

HAPPY CREEK MINERALS LTD.

Hawk Property

British Columbia

Plate M−1



Survey Information:

Instrumentation:
GEM−19 Magnetometer
Interval−12.5m
Datum−56000 nt

Survey by: SJ Geophysics Ltd.
Survey Date: June, 2008
Mapping Date: July, 2008

BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15

Legend

- Stacked Profiles
- Survey Stations
- Contour Lines
- Rivers
- Roads
- Lakes

Projection: UTM WGS84 Z10

GROUND MAGNETIC SURVEY & STACKED PROFILES

Magnetic Total Field Intensity (nT)

False Color Contour Map

HAPPY CREEK MINERALS LTD.

Hawk Property

British Columbia

Plate M−2

642000 643000 644000

5752000 5751000 5750000 5749000 5748000

> 12
10 – 12
9 – 10
8 – 9
7 – 8
6 – 7
5 – 6
4 – 5
3 – 4
2 – 3
1 – 2
< 1

7000N 6800N 6600N 6400N 6200N 6000N 5900N 5600N 5400N 5200N 5000N 4800N 4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N

800E 1200E 1600E 2000E 2400E

508185 517575 517573 413037 413036 409979 409978 554089 409980 416513 409981 416514 507667 552441 507663 505254 559284 522433

SJ Geophysics Ltd.

GRASS 6.3

Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500

Meters

3D Inversion Model

Interpreted Chargeability (ms)

False Color Contour Map

Depth 25m Below Topography

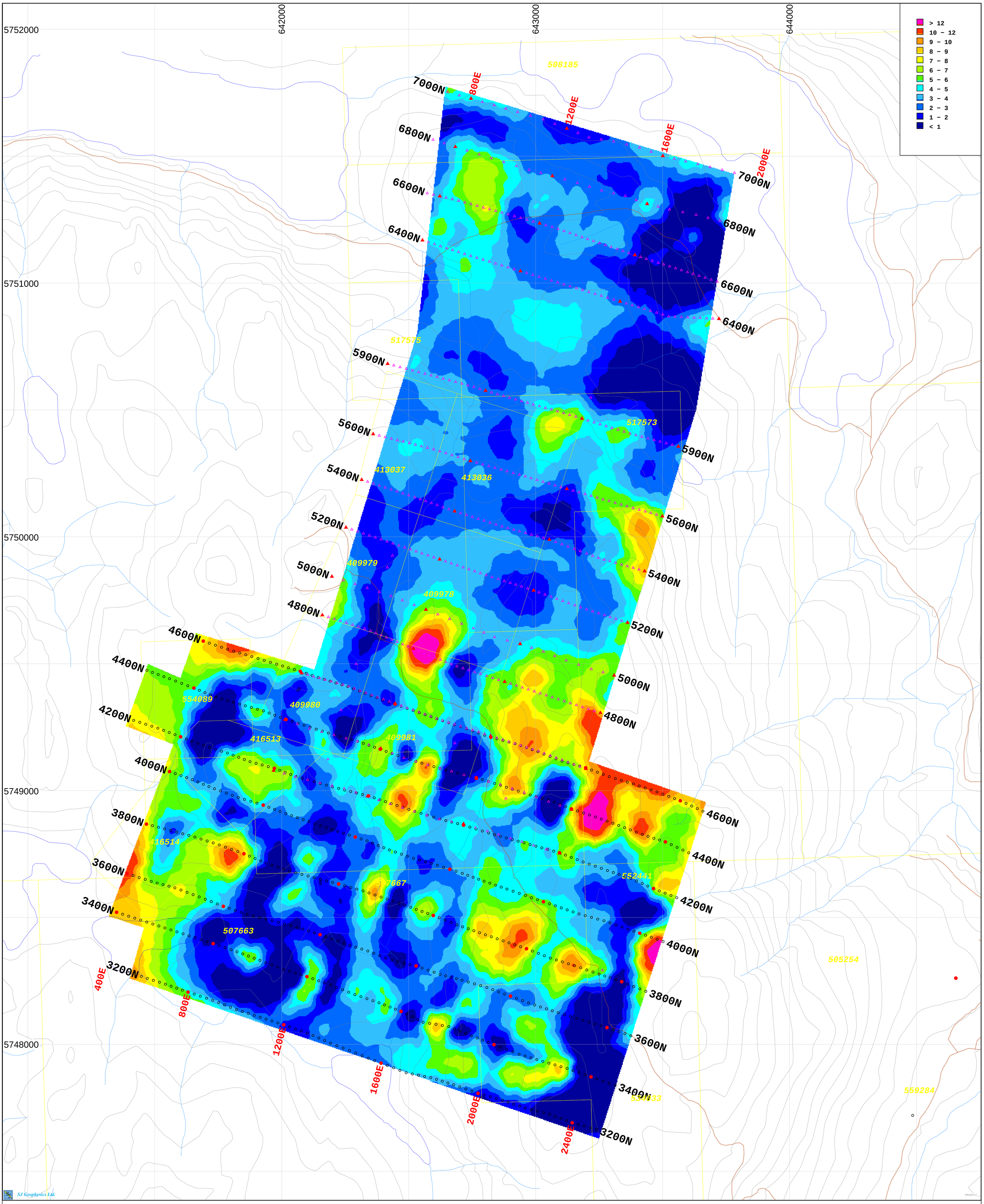
HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate C−1



SJ Geophysics Ltd.

Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500

Meters

3D Inversion Model

Interpreted Chargeability (ms)

False Color Contour Map

Depth 50m Below Topography

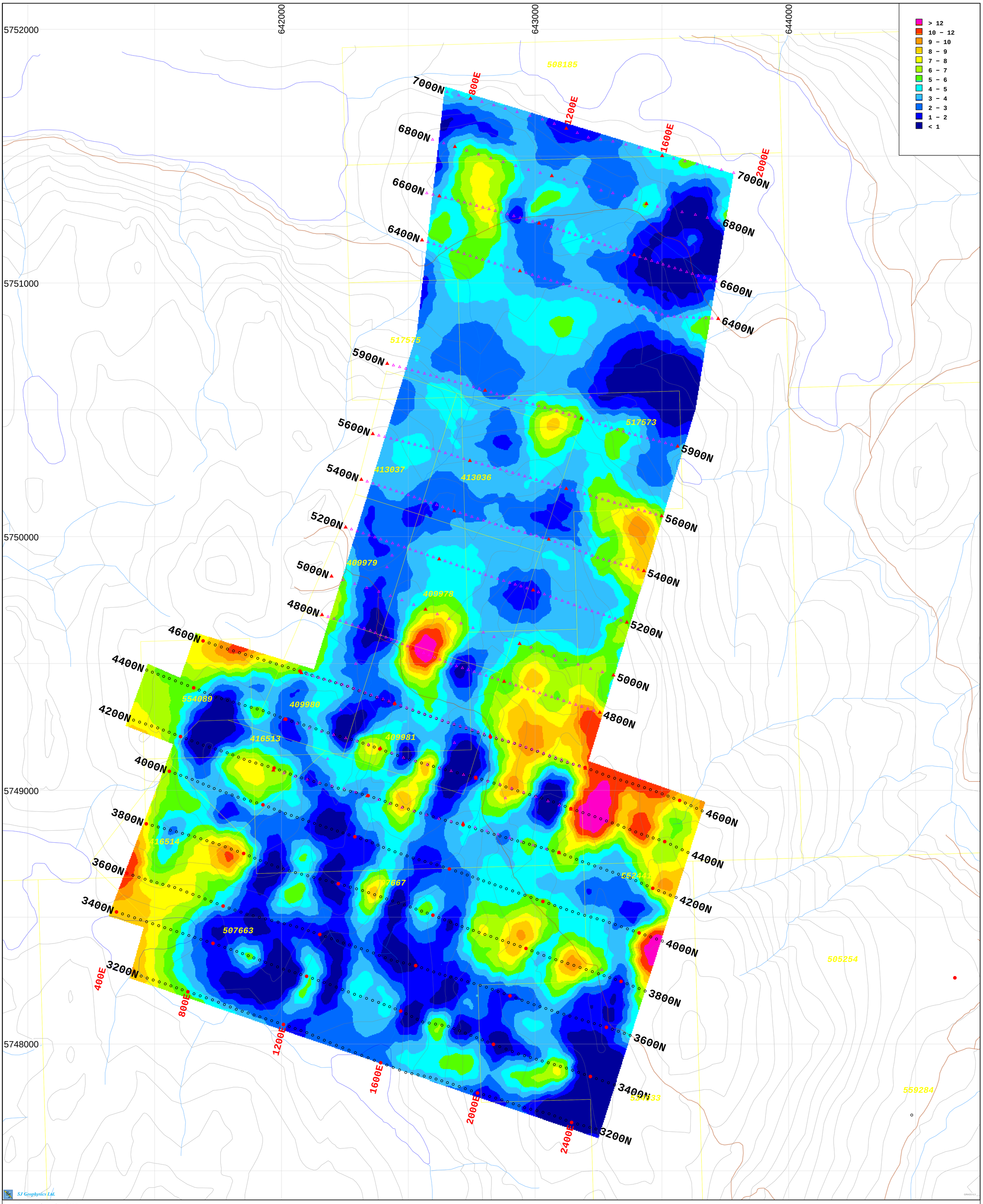
HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate C−2



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500

Meters

3D Inversion Model

Interpreted Chargeability (ms)

False Color Contour Map

Depth 75m Below Topography

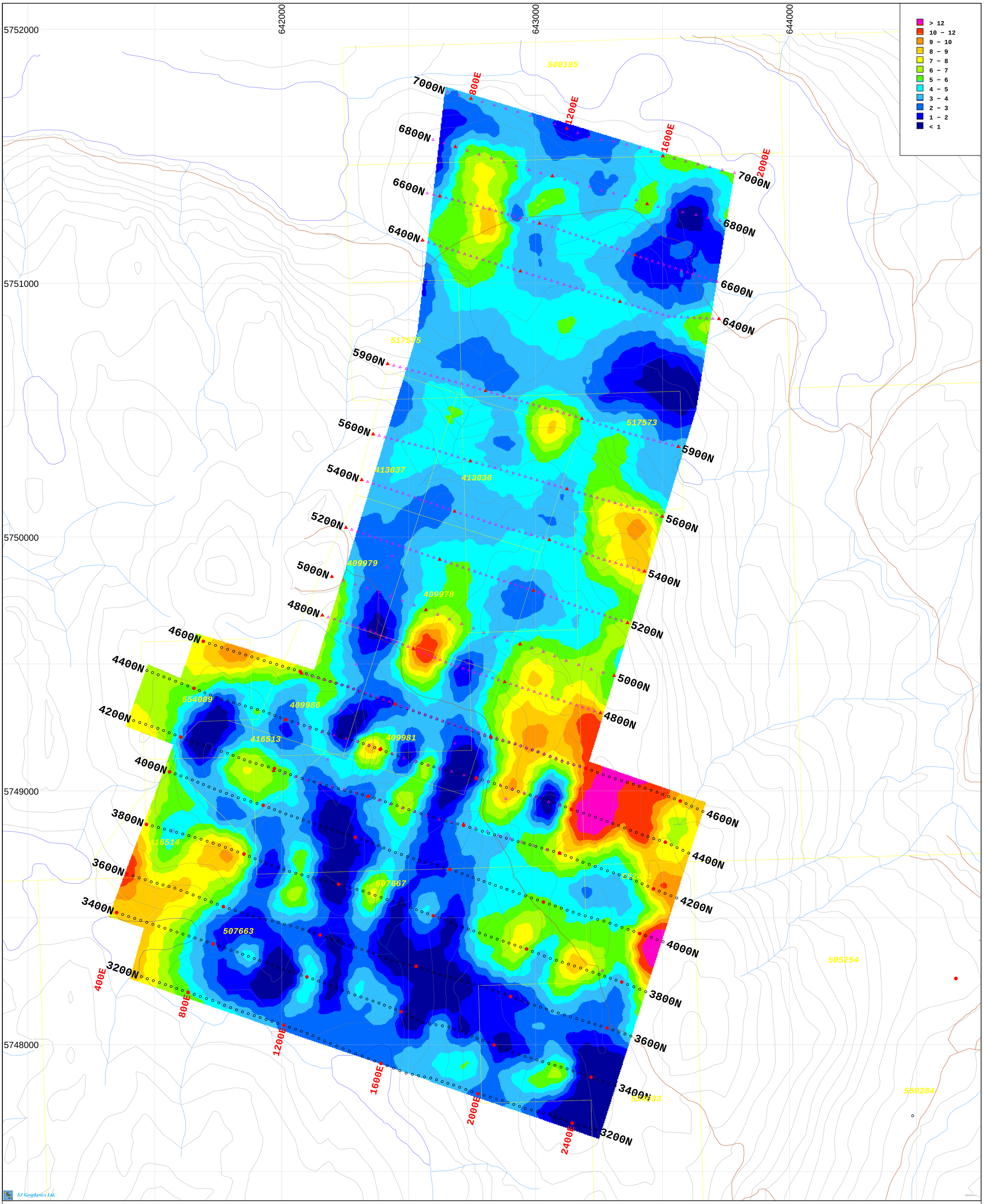
HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate C−3



SJ Geophysics Ltd.

Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500
Meters

3D Inversion Model

Interpreted Chargeability (ms)

False Color Contour Map

Depth 100m Below Topography

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate C−4

642000
643000
644000
5752000
5751000
5750000
5749000
5748000
7000N
6800N
6600N
6400N
5900N
5600N
5400N
5200N
5000N
4800N
4600N
4400N
4200N
4000N
3800N
3600N
3400N
3200N
400E
800E
1200E
1600E
2000E
2400E
508185
517575
517573
413037
413036
409979
409978
554089
409980
416513
409981
416514
507667
507663
441
505254
559284
559133

> 12
10 – 12
9 – 10
8 – 9
7 – 8
6 – 7
5 – 6
4 – 5
3 – 4
2 – 3
1 – 2
< 1

SJ Geophysics Ltd.

Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500
Meters

3D Inversion Model

Interpreted Chargeability (ms)

False Color Contour Map

Depth 150m Below Topography

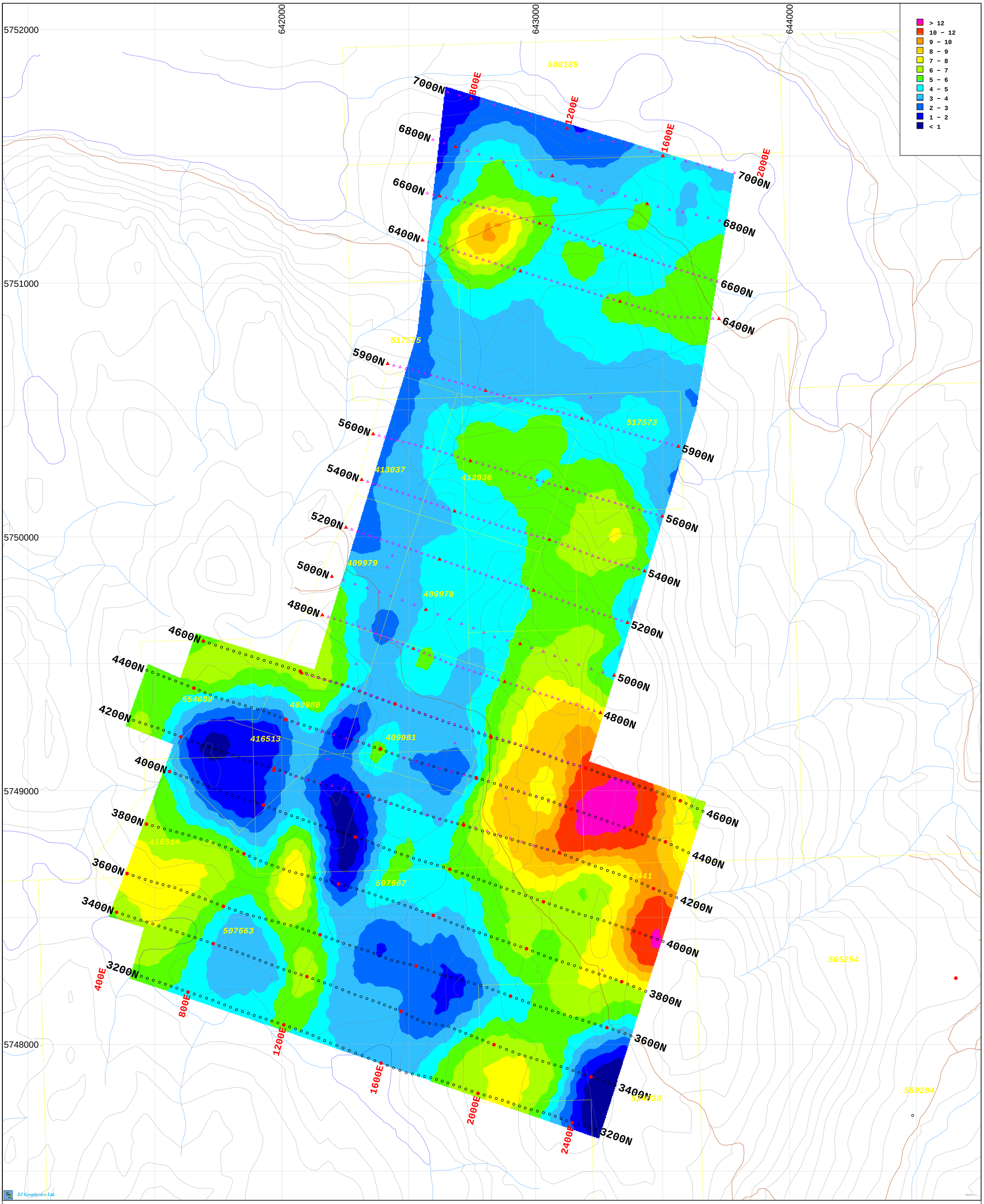
HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate C−5



SJ Geophysics Ltd.

Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500

Meters

3D Inversion Model

Interpreted Chargeability (ms)

False Color Contour Map

Depth 200m Below Topography

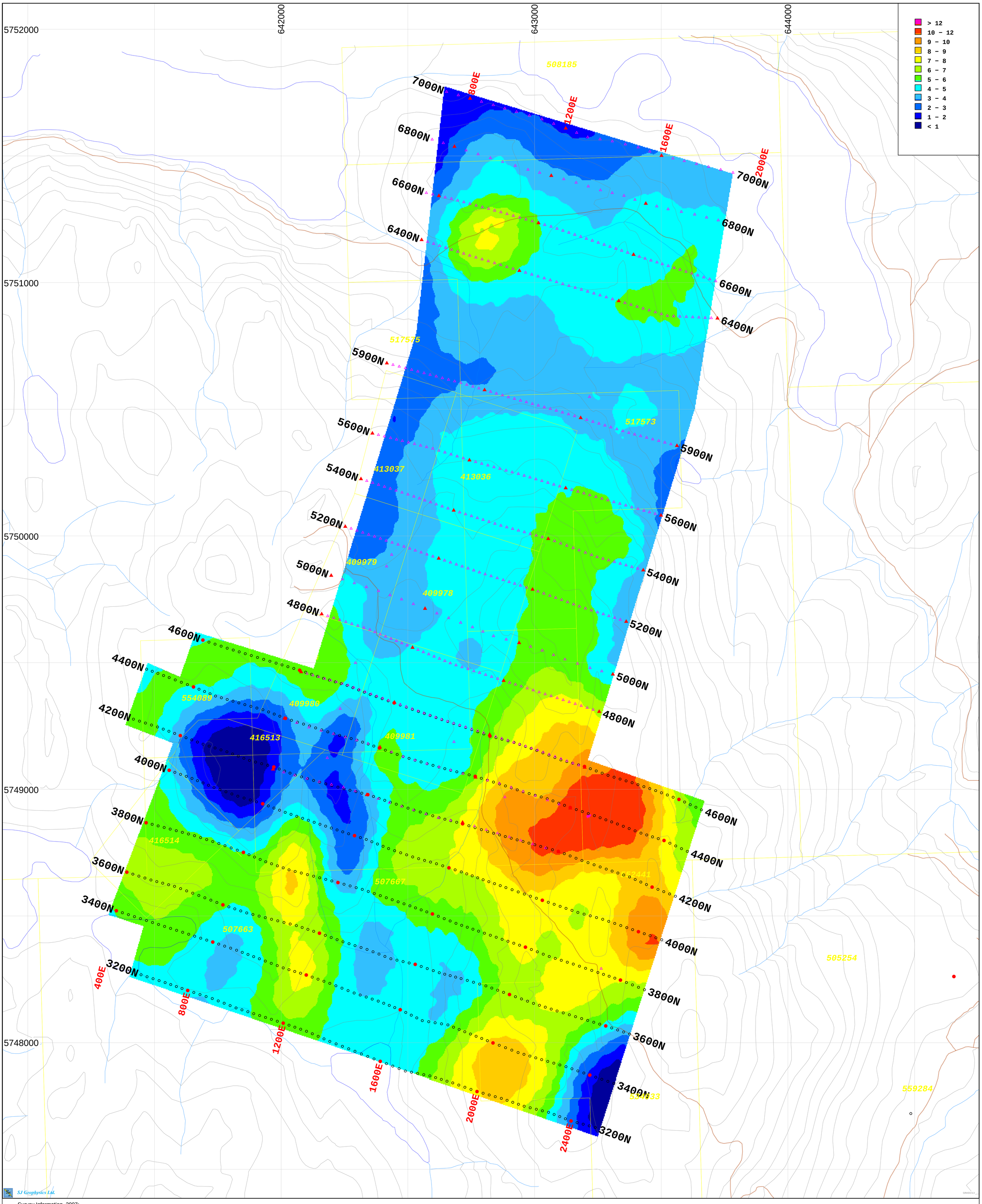
HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate C−6



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500

Meters

3D Inversion Model

Interpreted Chargeability (ms)

False Color Contour Map

Depth 250m Below Topography

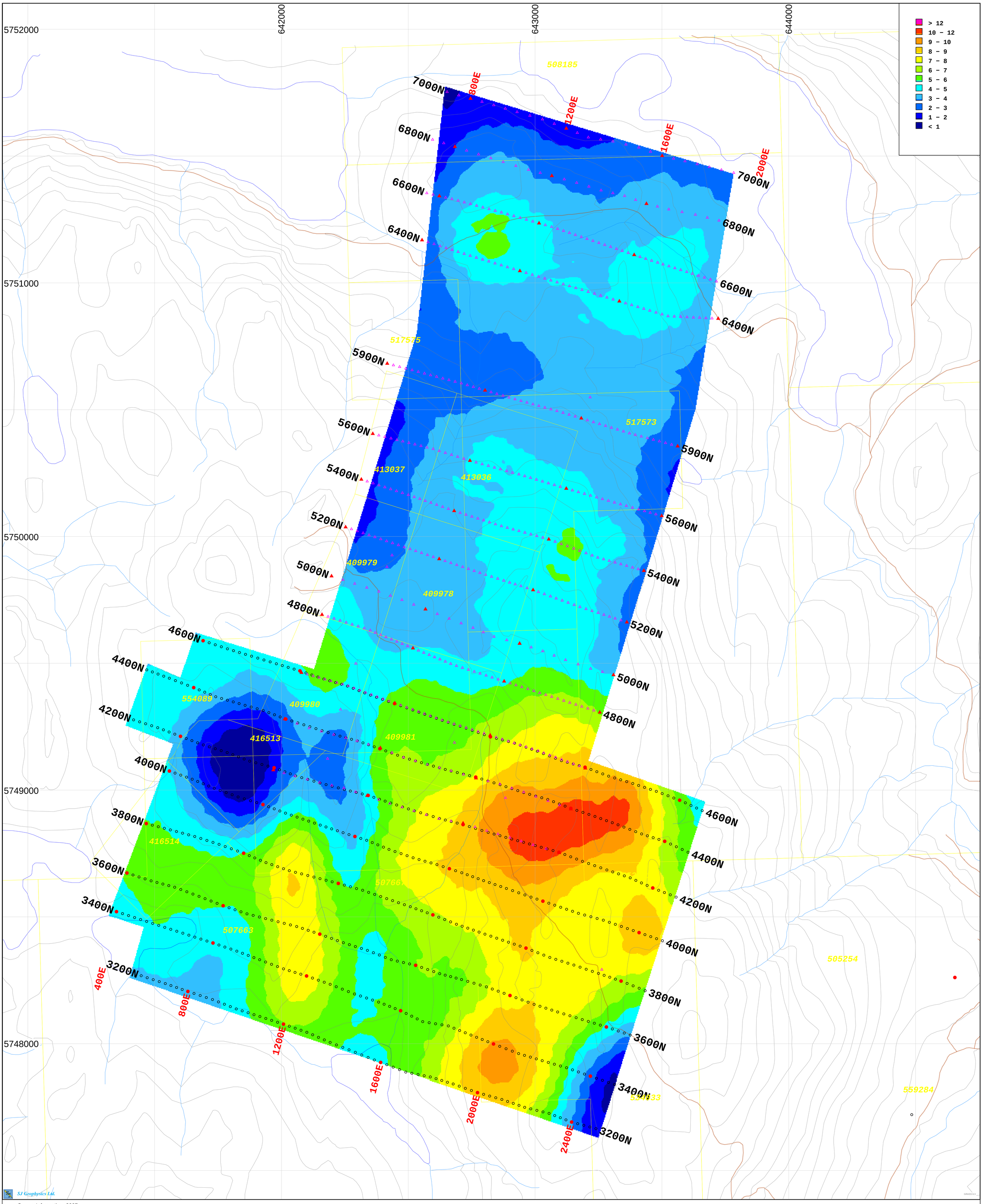
HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate C−7



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500

Meters

3D Inversion Model

Interpreted Chargeability (ms)

False Color Contour Map

Depth 300m Below Topography

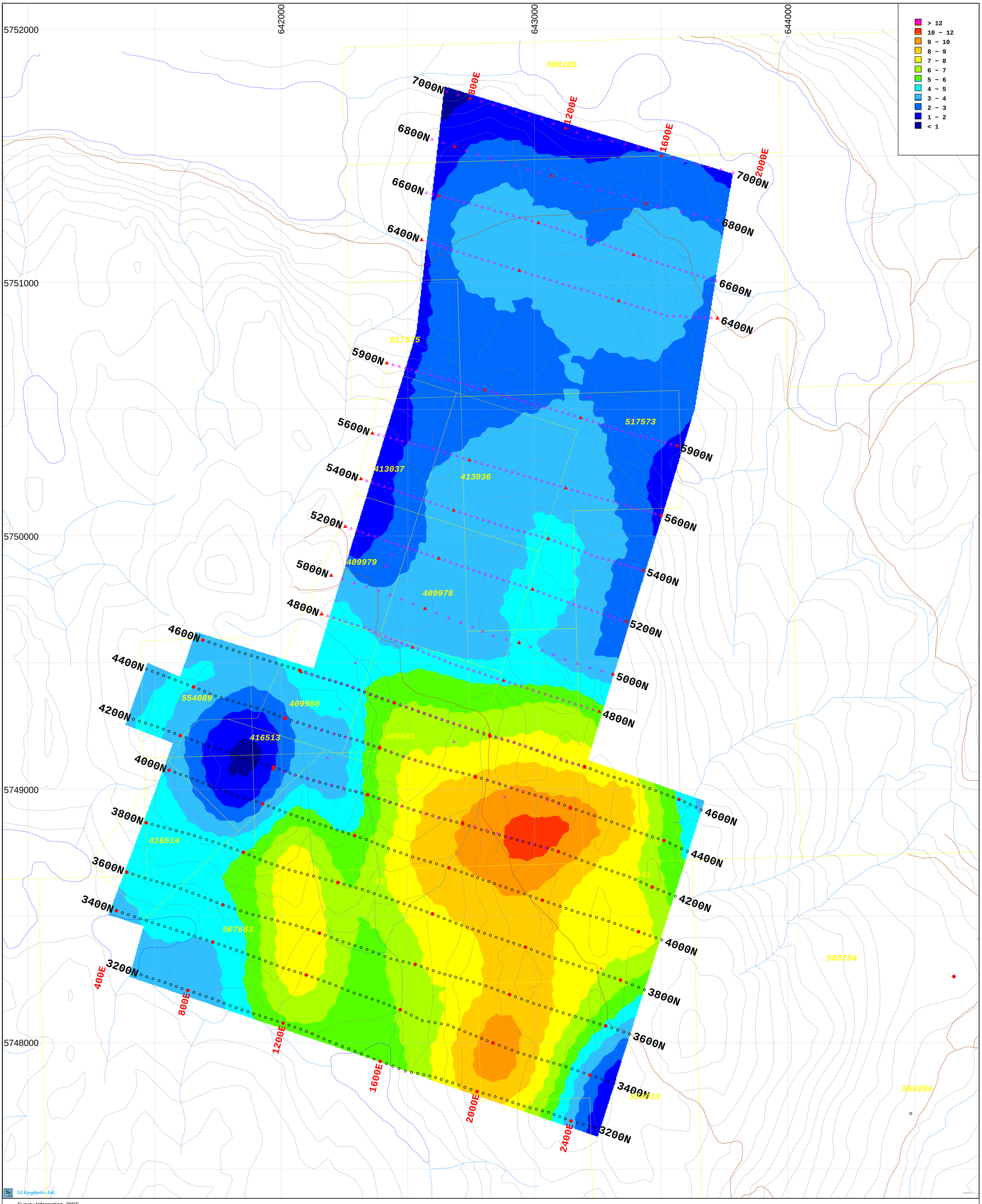
HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate C−8



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500

Meters

3D Inversion Model

Interpreted Chargeability (ms)

False Color Contour Map

Depth 350m Below Topography

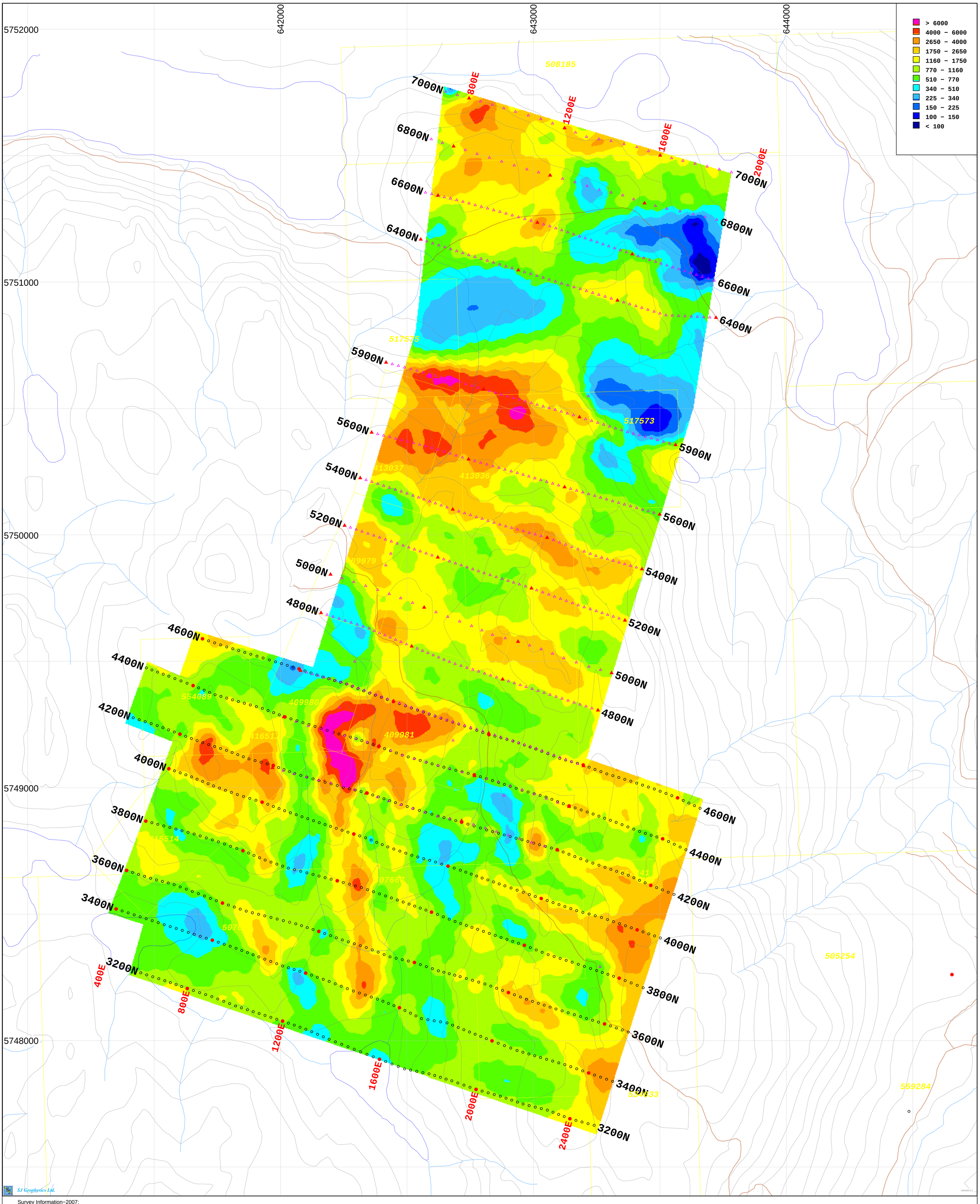
HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate C−9



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500

Meters

3D Inversion Model

Interpreted Resistivity (Ohm−m)

False Color Contour Map

Depth 25m Below Topography

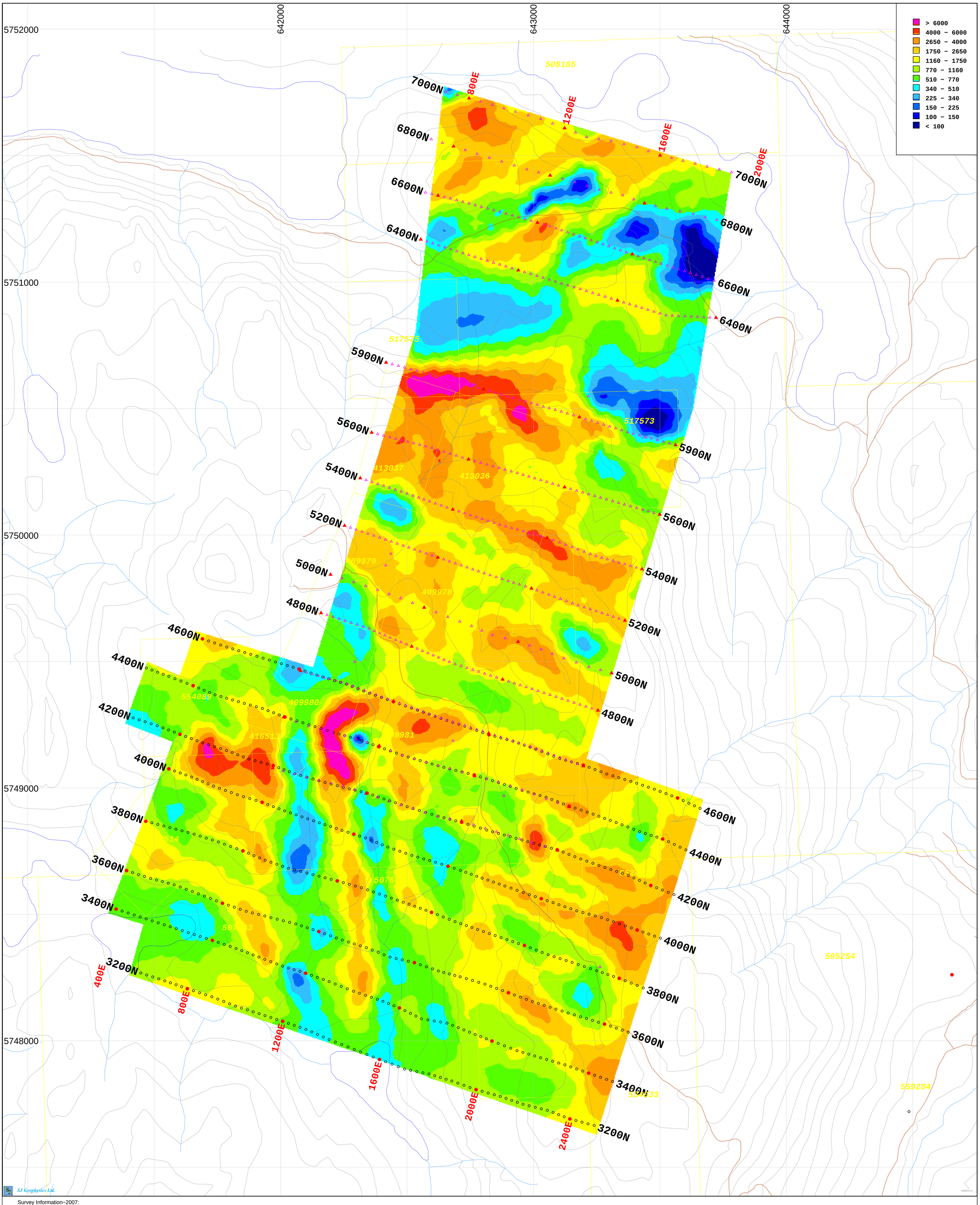
HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate R−1



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500

Meters

3D Inversion Model

Interpreted Resistivity (Ohm−m)

False Color Contour Map

Depth 50m Below Topography

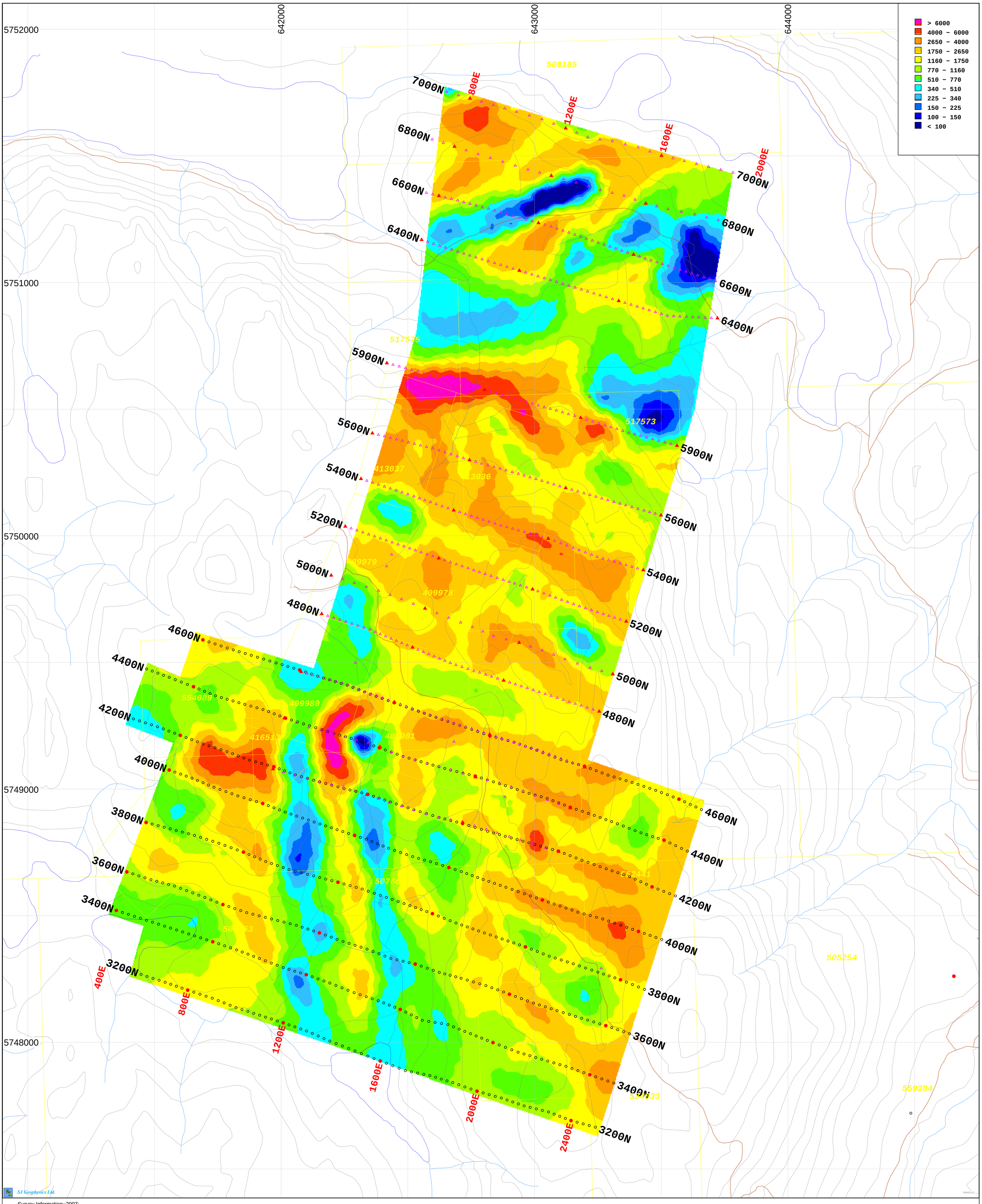
HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate R−2



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
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Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500

Meters

3D Inversion Model

Interpreted Resistivity (Ohm−m)

False Color Contour Map

Depth 75m Below Topography

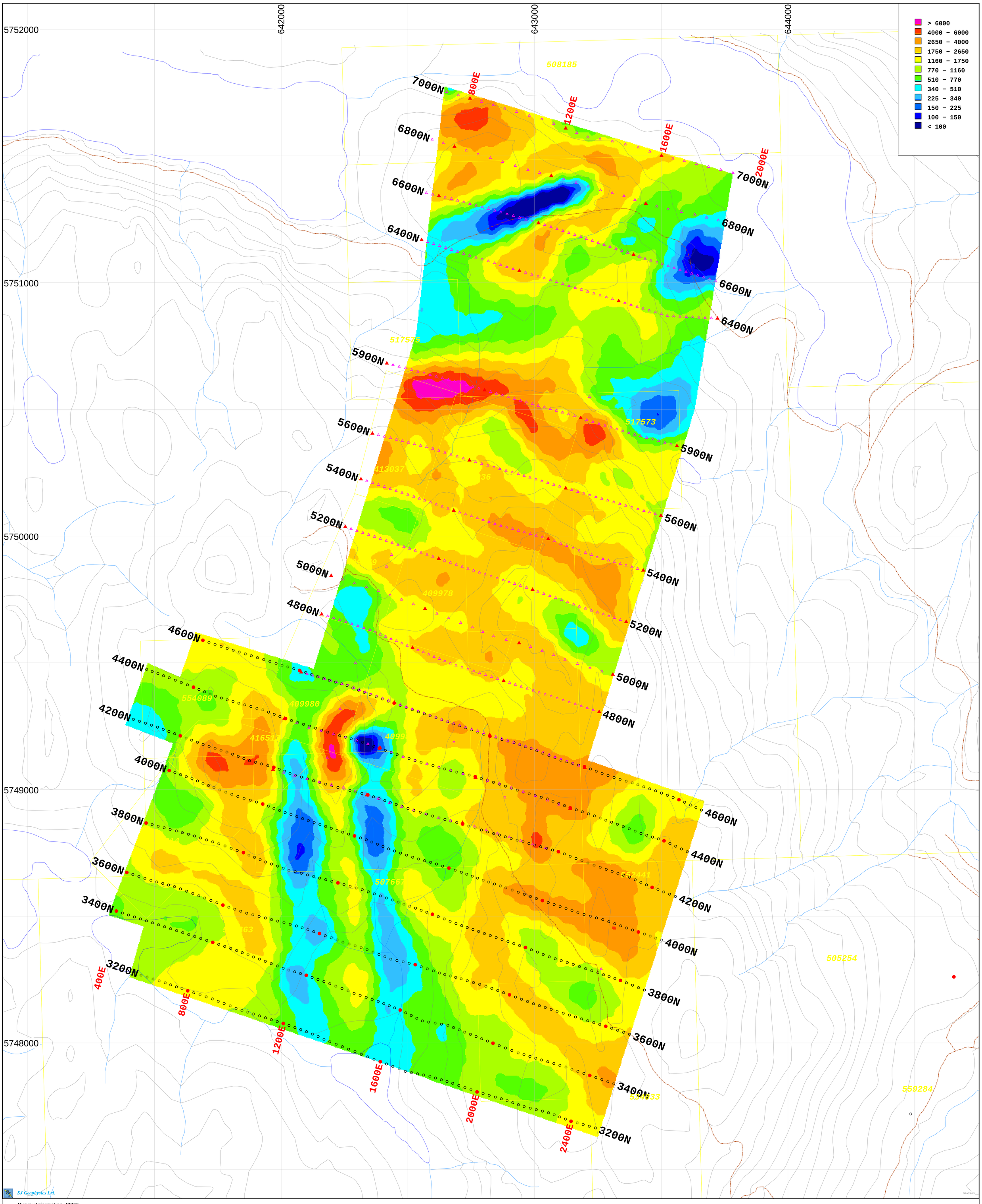
HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate R−3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500

Meters

3D Inversion Model

Interpreted Resistivity (Ohm−m)

False Color Contour Map

Depth 100m Below Topography

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate R−4

642000 643000 644000

5752000 5751000 5750000 5749000 5748000

> 6000
4000 – 6000
2650 – 4000
1750 – 2650
1160 – 1750
770 – 1160
510 – 770
340 – 510
225 – 340
150 – 225
100 – 150
< 100

7000N 800E 1200E 1600E 2000E 7000N
6800N 6800N
6600N 6600N
6400N 6400N
5900N 5900N
5600N 5600N
5400N 5400N
5200N 5200N
5000N 5000N
4800N 4800N
4600N 4600N
4400N 4400N
4200N 4200N
4000N 4000N
3800N 3800N
3600N 3600N
3400N 3400N
3200N 3200N
400E 800E 1200E 1600E 2000E 2400E

508185 517575 517573 41303 554089 409980 409981 507667 552441 505254 559284 553433

SJ Geophysics Ltd.

GRASS 6.3

Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500
Meters

3D Inversion Model

Interpreted Resistivity (Ohm−m)

False Color Contour Map

Depth 150m Below Topography

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate R−5

642000 643000 644000

5752000 5751000 5750000 5749000 5748000

> 6000
4000 – 6000
2650 – 4000
1750 – 2650
1160 – 1750
770 – 1160
510 – 770
340 – 510
225 – 340
150 – 225
100 – 150
< 100

7000N 6800N 6600N 6400N 5900N 5600N 5400N 5200N 5000N 4800N 4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N

800E 1200E 1600E 2000E 400E 2400E

508185 517575 517573 413037 413036 409979 409978 554089 409980 409981 507667 552441 505254 559284

SJ Geophysics Ltd.

Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500
Meters

3D Inversion Model

Interpreted Resistivity (Ohm−m)

False Color Contour Map

Depth 200m Below Topography

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate R−6

642000 643000 644000

5752000 5751000 5750000 5749000 5748000

> 6000
4000 – 6000
2650 – 4000
1750 – 2650
1160 – 1750
770 – 1160
510 – 770
340 – 510
225 – 340
150 – 225
100 – 150
< 100

508185 517575 517573 413037 413036 409979 409978 554089 409980 409981 416513 416514 507667 552441 505254 559284 553133

7000N 800E 1200E 1600E 2000E 7000N
6800N 6800N
6600N 6600N
6400N 6400N
5900N 5900N
5600N 5600N
5400N 5400N
5200N 5200N
5000N 5000N
4800N 4800N
4600N 4600N
4400N 4400N
4200N 4200N
4000N 4000N
3800N 3800N
3600N 3600N
3400N 3400N
3200N 3200N
400E 800E 1200E 1600E 2000E 2400E

SJ Geophysics Ltd.

GRASS 6.3

Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500
Meters

3D Inversion Model

Interpreted Resistivity (Ohm−m)

False Color Contour Map

Depth 250m Below Topography

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate R−7

642000 643000 644000

5752000 5751000 5750000 5749000 5748000

> 6000
4000 – 6000
2650 – 4000
1750 – 2650
1160 – 1750
770 – 1160
510 – 770
340 – 510
225 – 340
150 – 225
100 – 150
< 100

508185 517575 517573 413037 413036 409979 409978 554089 409980 409981 416513 416514 507667 507663 505254 559284 559133

7000N 6800N 6600N 6400N 6200N 6000N 5900N 5800N 5600N 5400N 5200N 5000N 4800N 4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N

800E 1200E 1600E 2000E 2400E

SJ Geophysics Ltd.

GRASS 6.3

Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500

Meters

3D Inversion Model

Interpreted Resistivity (Ohm−m)

False Color Contour Map

Depth 300m Below Topography

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

Plate R−8

642000 643000 644000

5752000 5751000 5750000 5749000 5748000

> 6000
4000 – 6000
2650 – 4000
1750 – 2650
1160 – 1750
770 – 1160
510 – 770
340 – 510
225 – 340
150 – 225
100 – 150
< 100

508185 517575 517573 413037 413036 409979 409978 554089 409980 409981 416513 416514 507667 507663 505254 559284 559133

7000N 6800N 6600N 6400N 6200N 6000N 5900N 5800N 5600N 5400N 5200N 5000N 4800N 4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N

800E 1200E 1600E 2000E 2400E

SJ Geophysics Ltd.

GRASS 6.3

Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Base Map:
BCGS TRIM Mapsheet: 092P086
NTS Sheet Number: 092P15
Mining Zone: Clinton Mining Division

Projection: UTM WGS84 Zone 10

Legend

- Survey Stations 2007
- Survey Stations 2008
- Contours
- Rivers
- Roads
- Lakes
- Claim Areas

N

0 100 200 300 400 500

Meters

3D Inversion Model

Interpreted Resistivity (Ohm−m)

False Color Contour Map

Depth 350m Below Topography

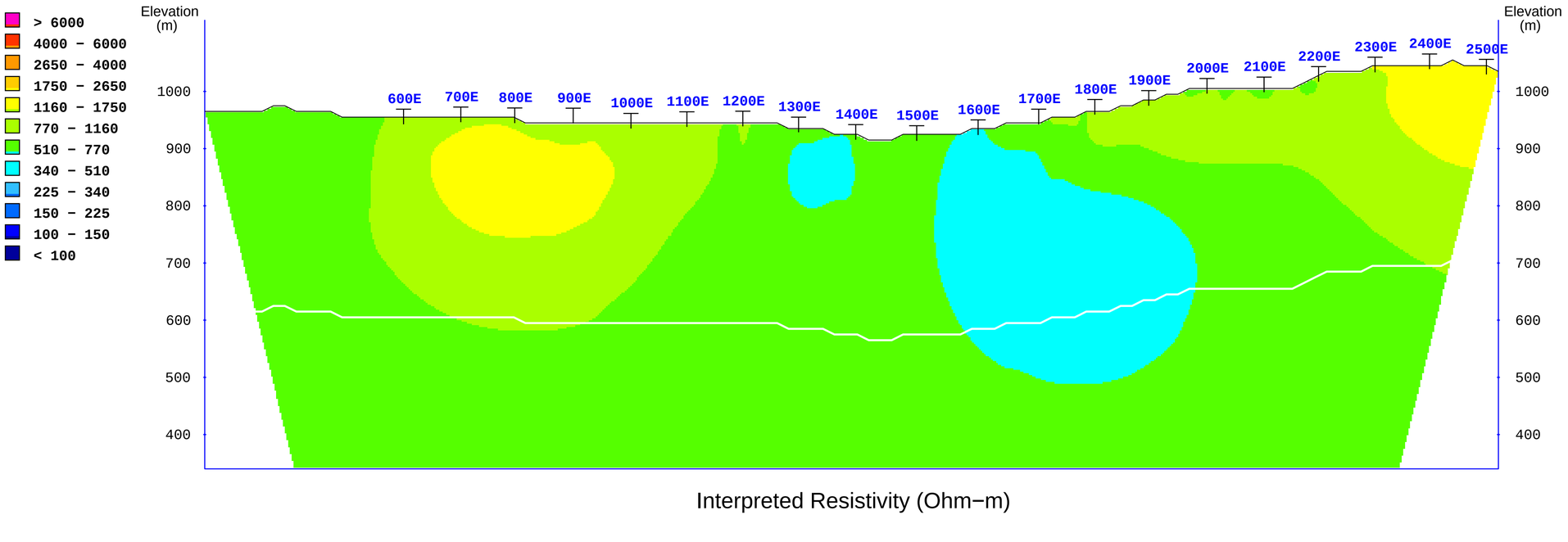
HAPPY CREEK MINERALS LTD.

Hawk Property

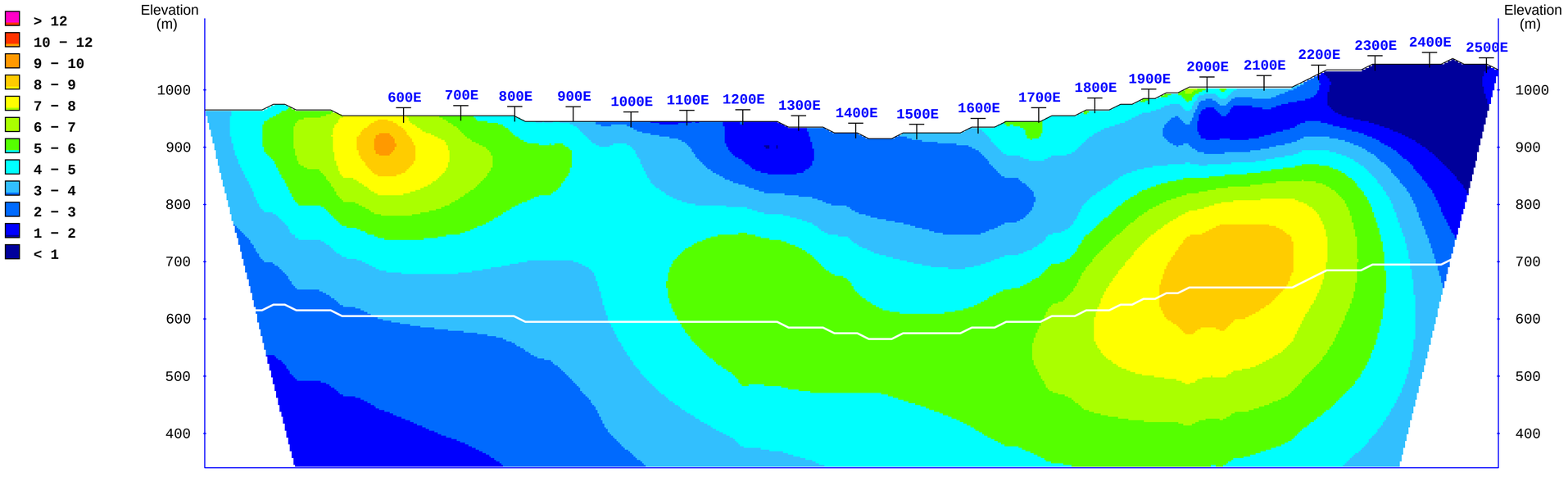
South Central Cariboo (100 Mile House)

British Columbia

Plate R−9

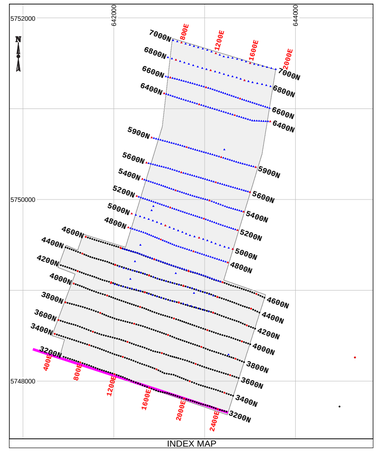


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

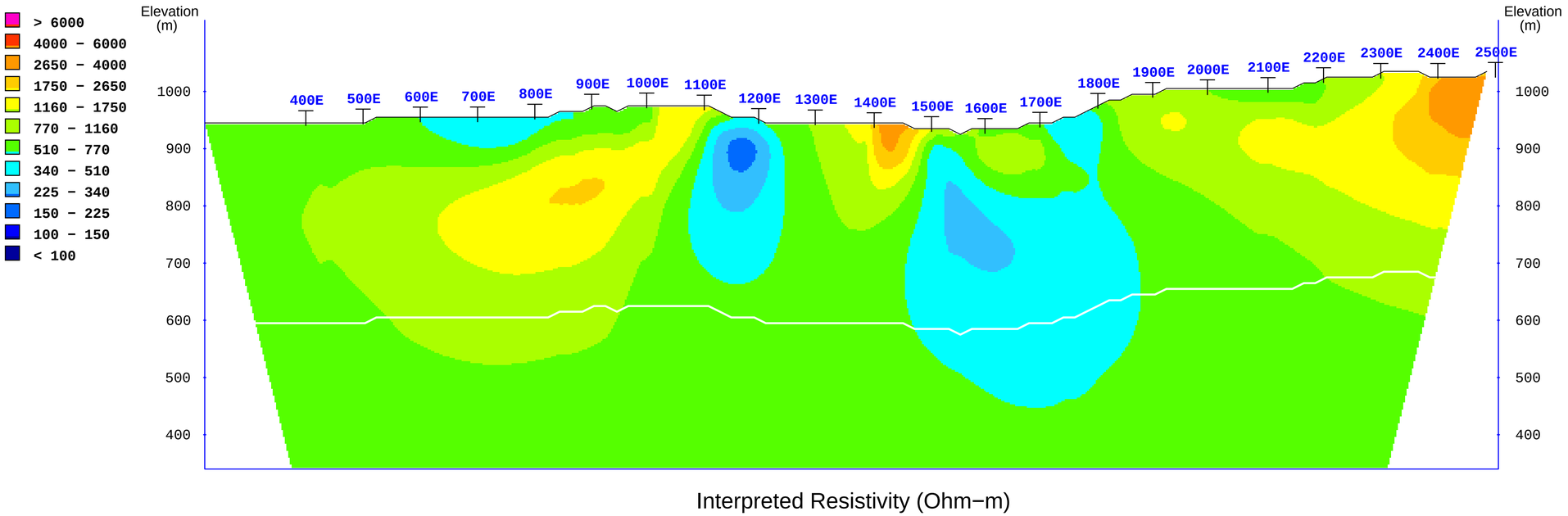
3D IP SURVEY

3D Cross Sections

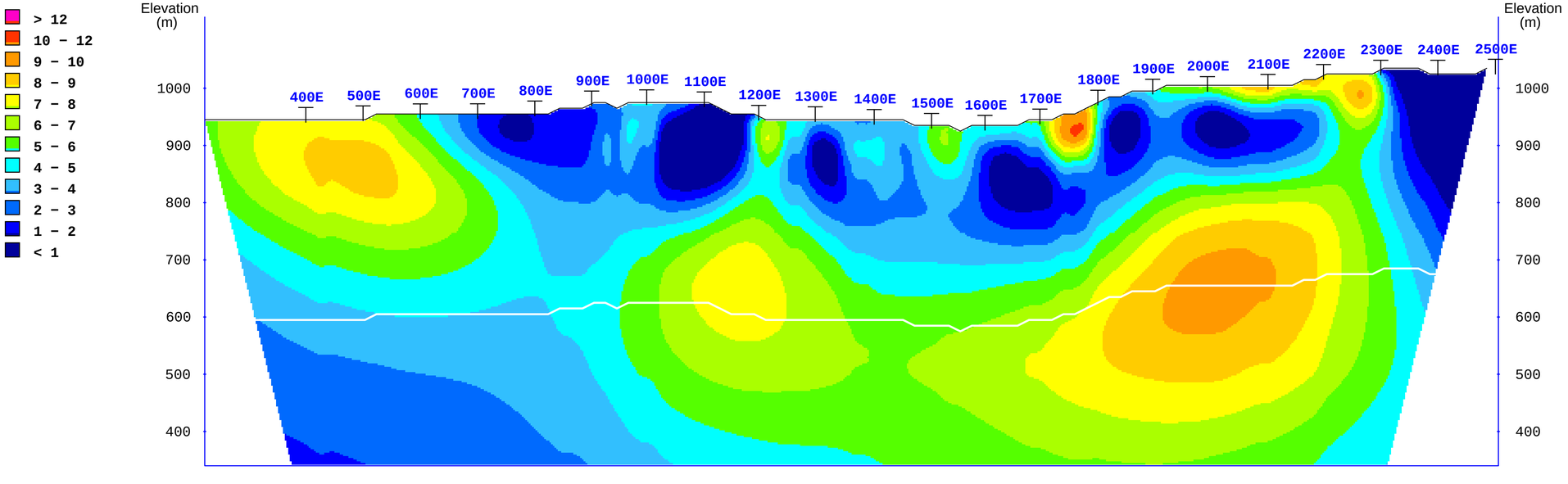
False Color Contour Map

Section 3200N

SJ Geophysics Ltd.

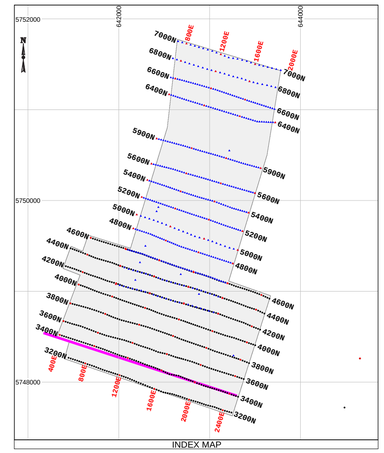


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

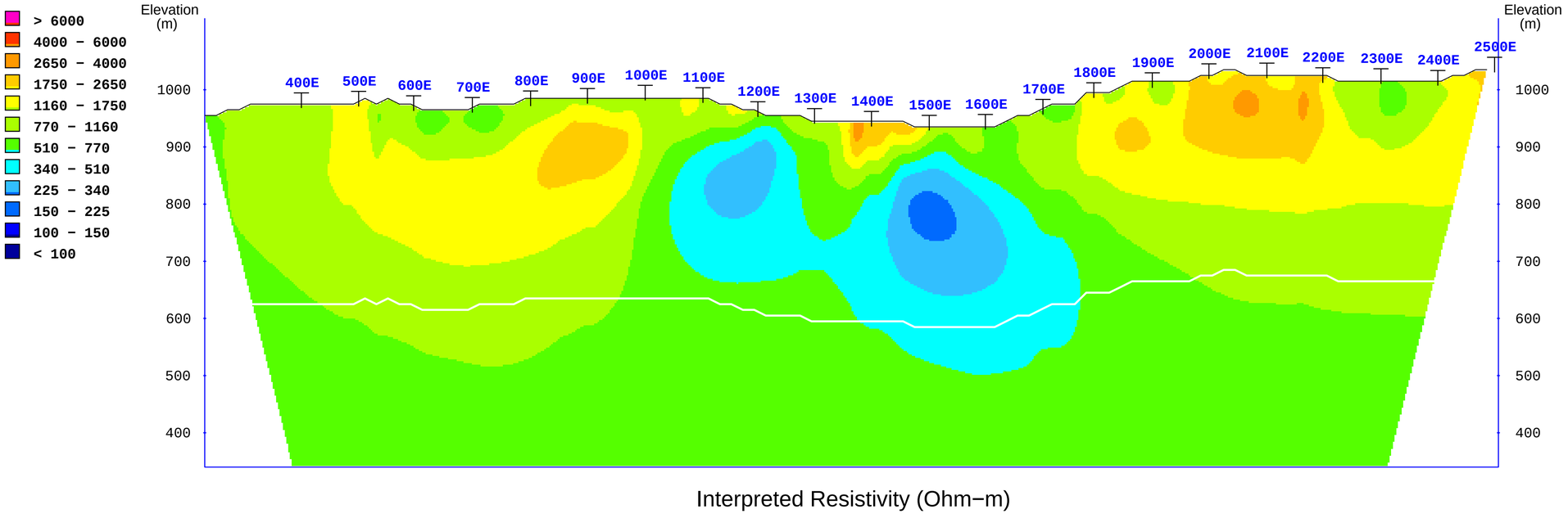
3D IP SURVEY

3D Cross Sections

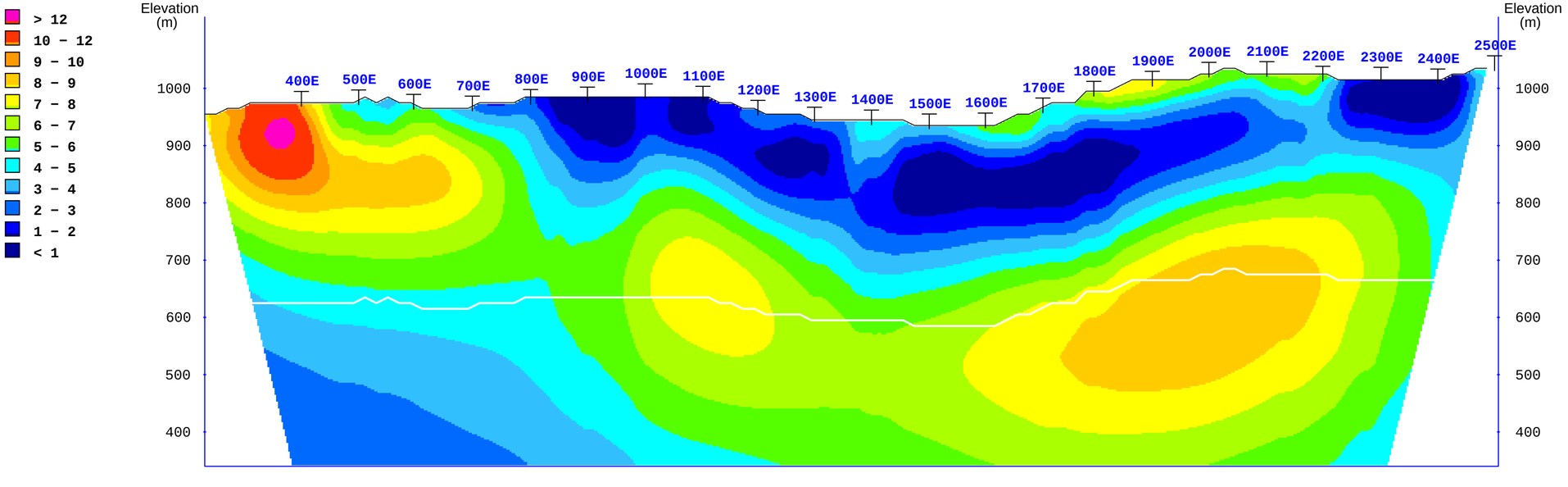
False Color Contour Map

Section 3400N

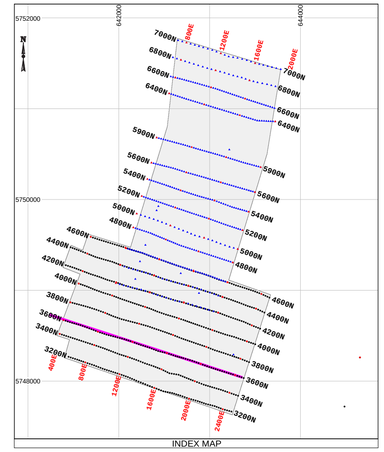
SJ Geophysics Ltd.



Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
5900 Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

3D IP SURVEY

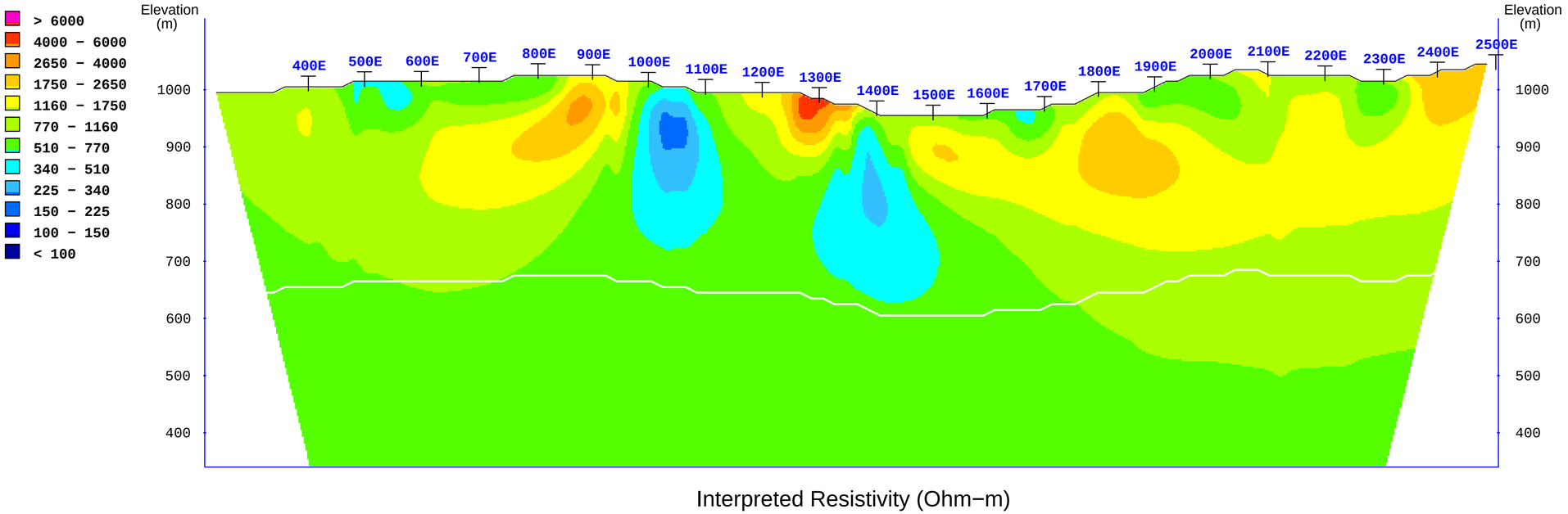
3D Cross Sections

False Color Contour Map

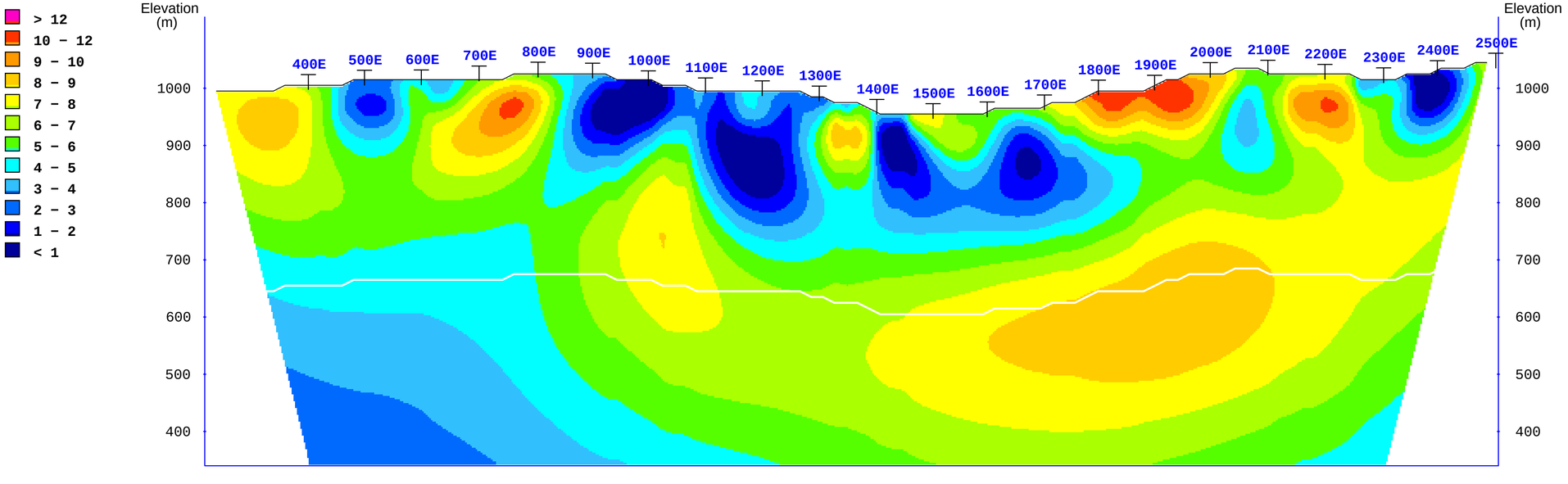
Section 3600N

SJ Geophysics Ltd.

GRASS 6.3

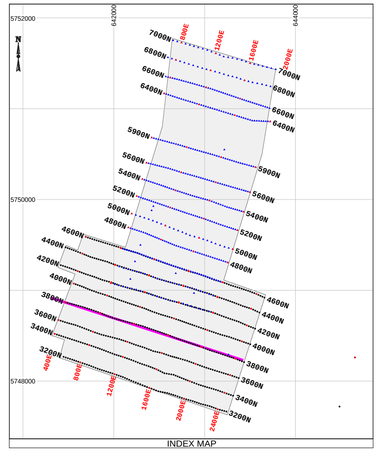


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

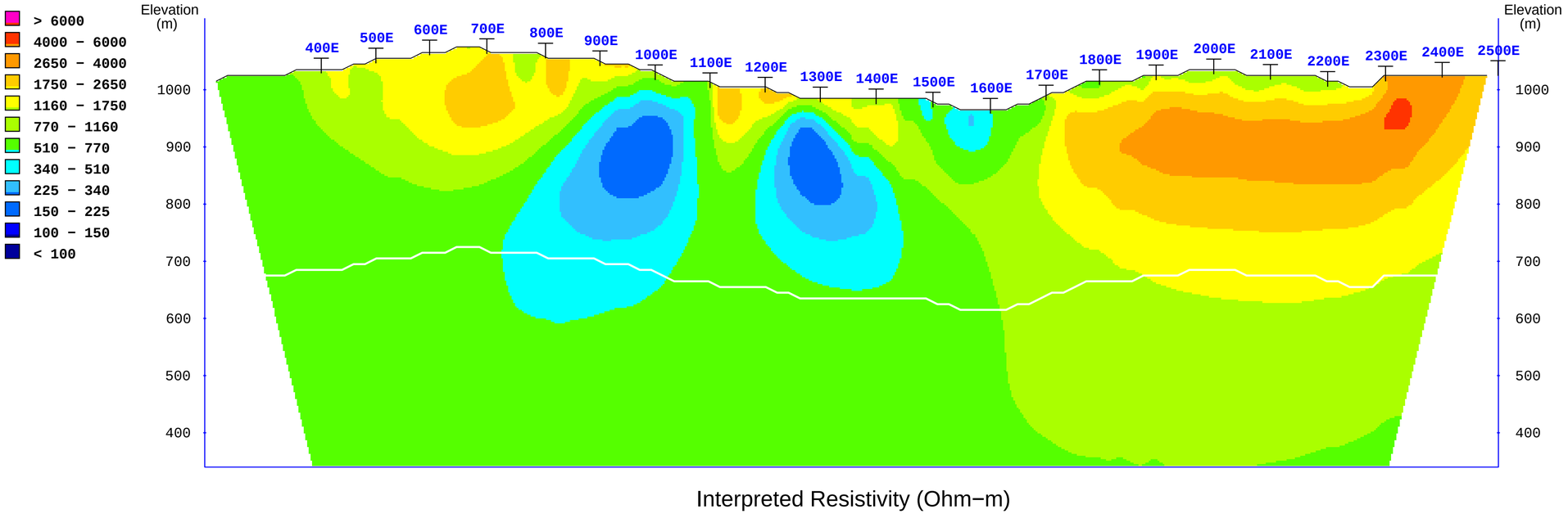
3D IP SURVEY

3D Cross Sections

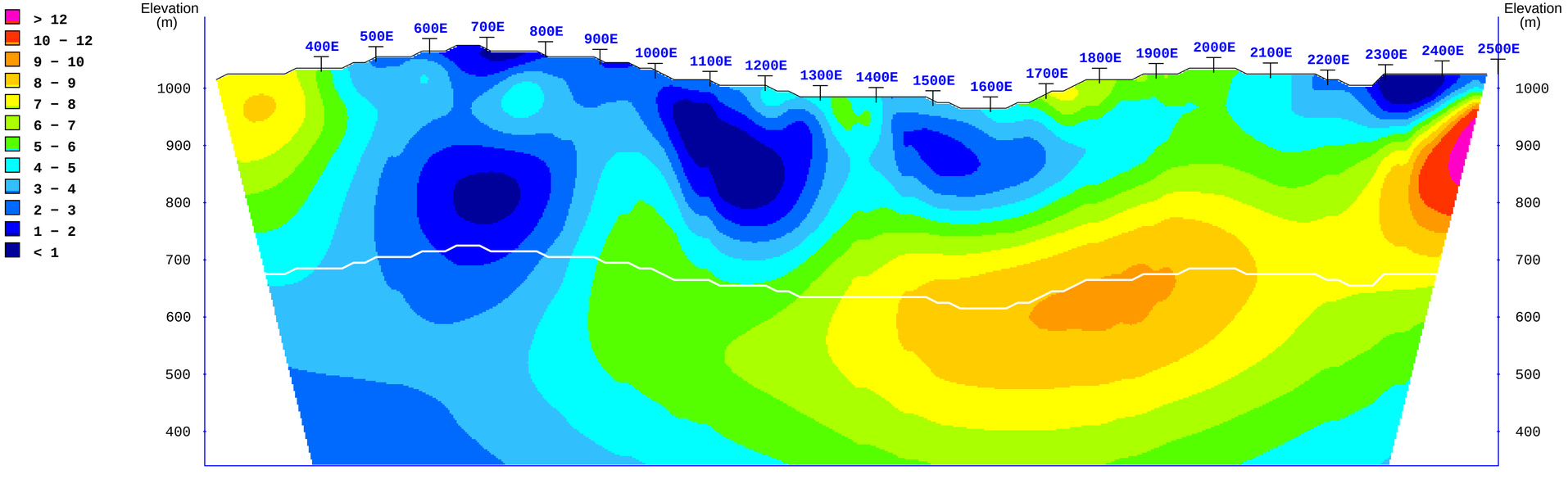
False Color Contour Map

Section 3800N

SJ Geophysics Ltd.

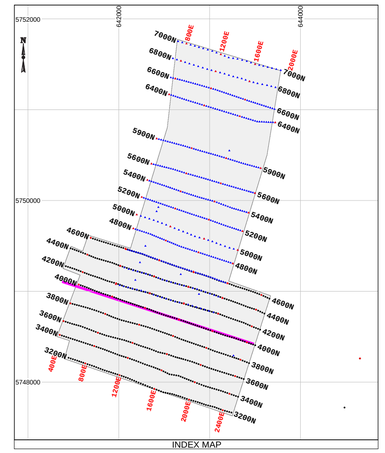


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

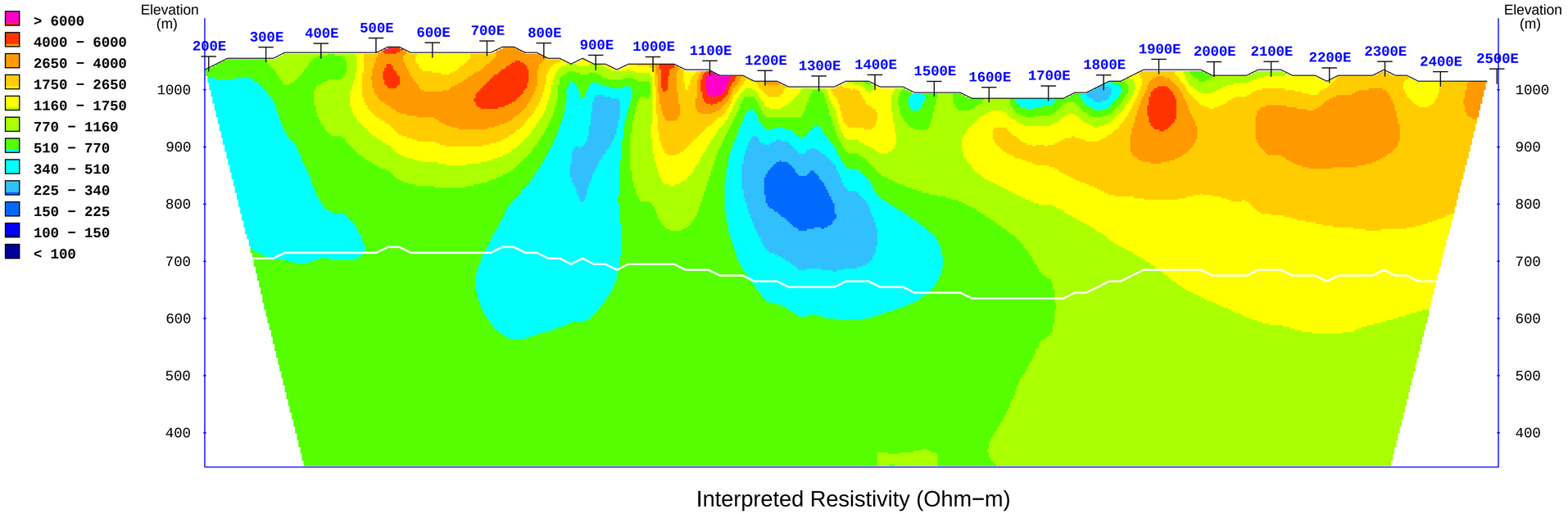
3D IP SURVEY

3D Cross Sections

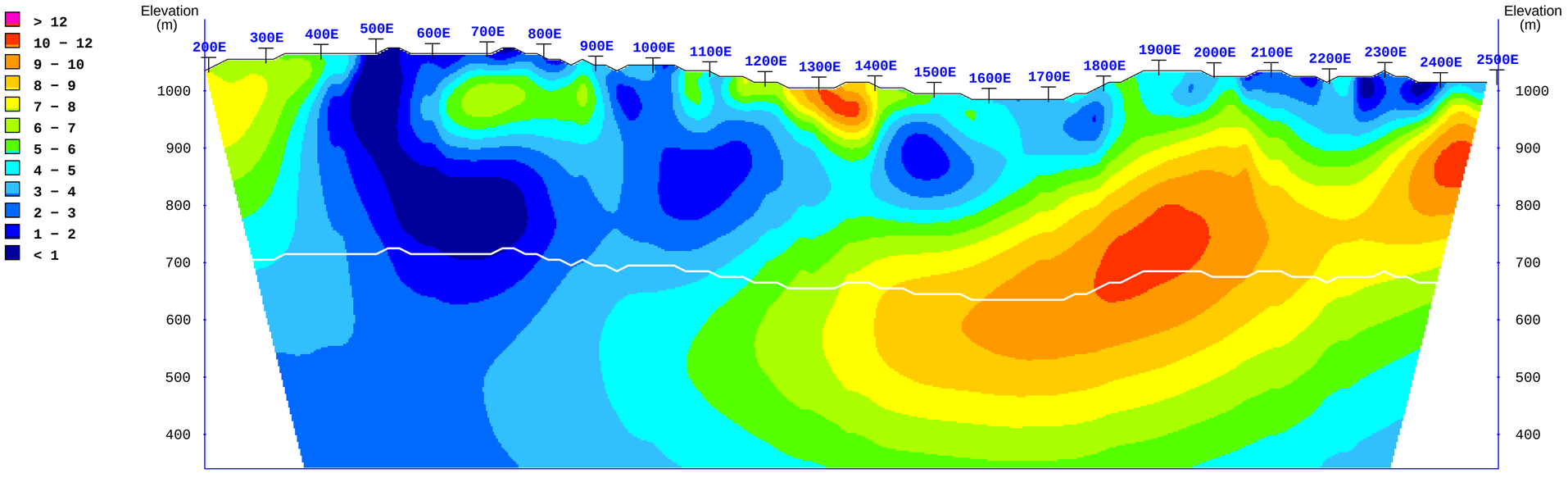
False Color Contour Map

Section 4000N

SJ Geophysics Ltd.

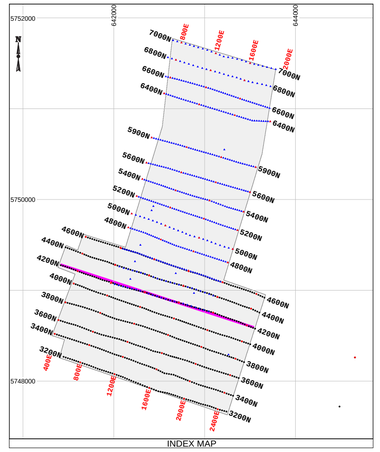


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

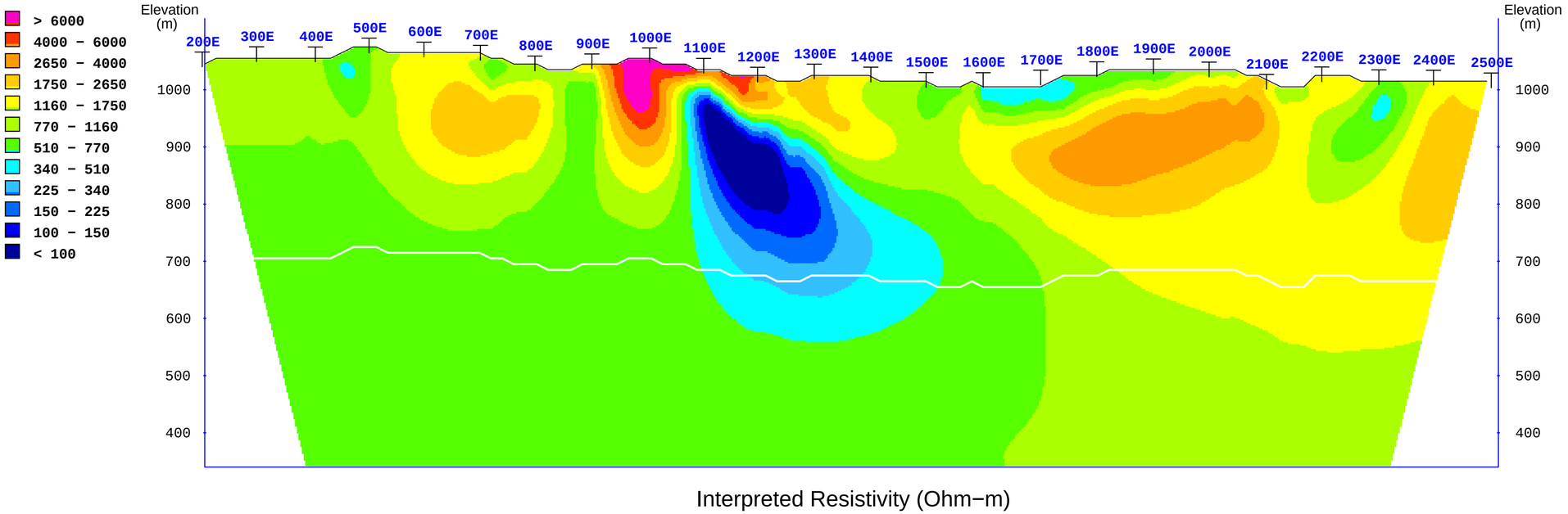
3D IP SURVEY

3D Cross Sections

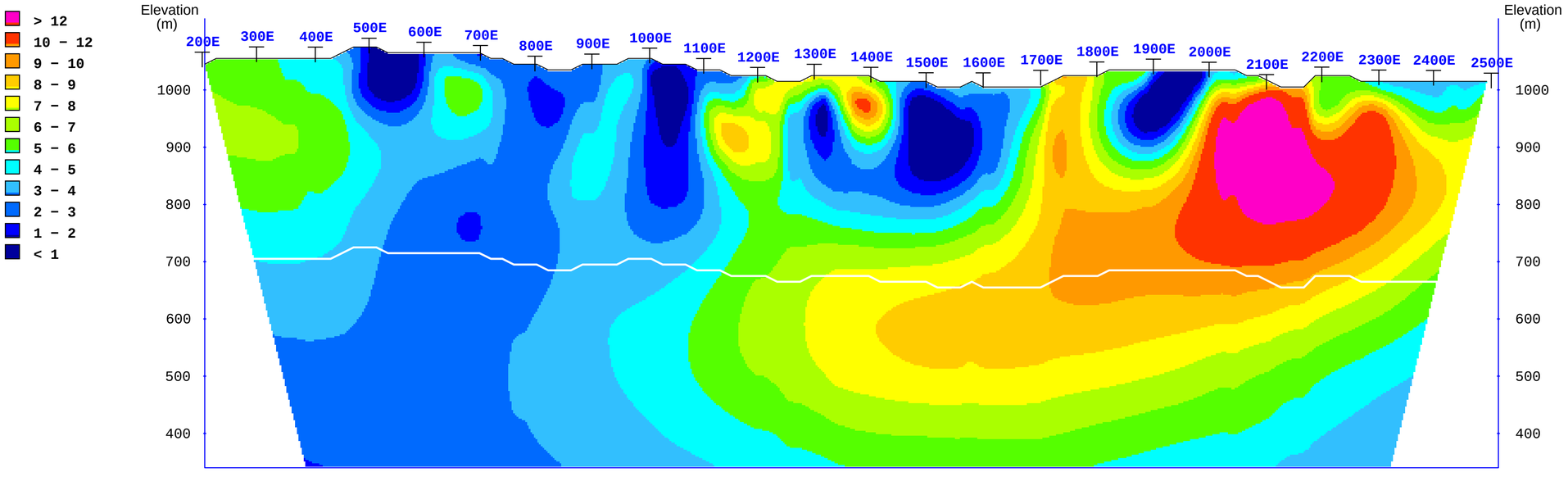
False Color Contour Map

Section 4200N

SJ Geophysics Ltd.

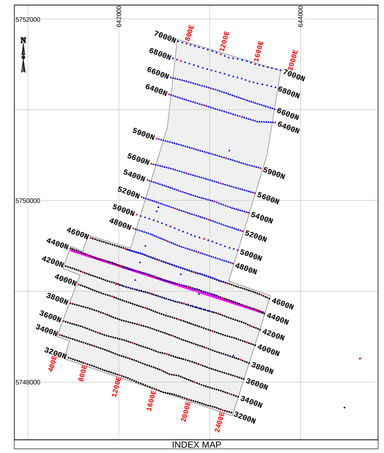


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

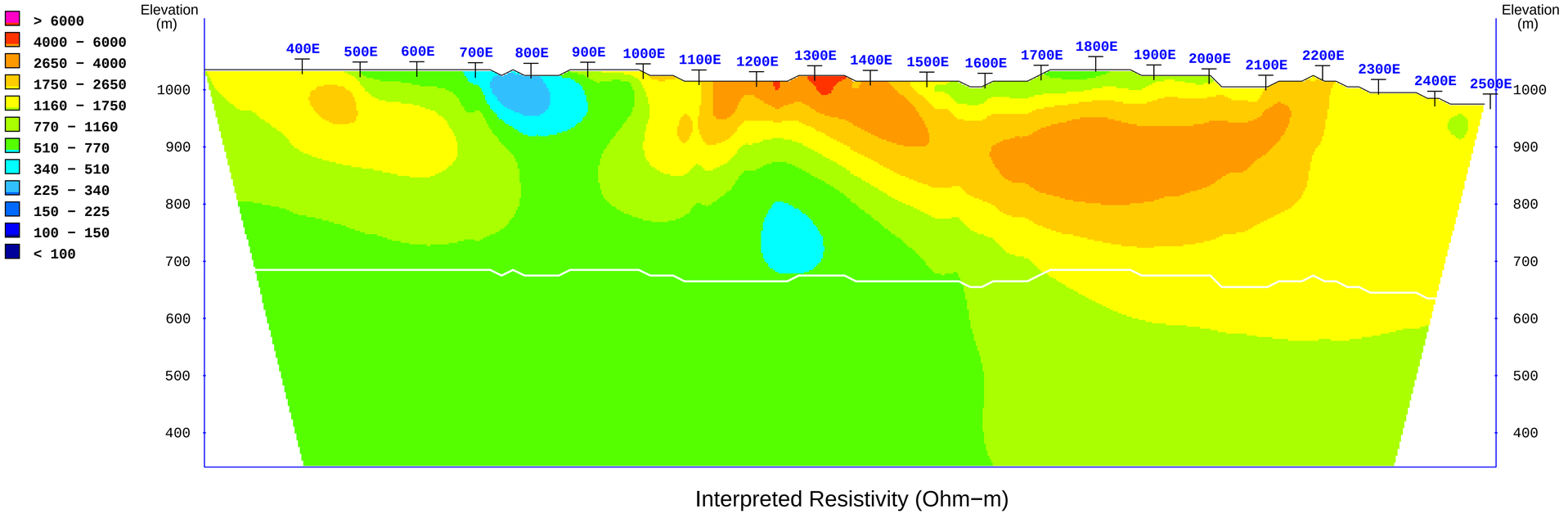
3D IP SURVEY

3D Cross Sections

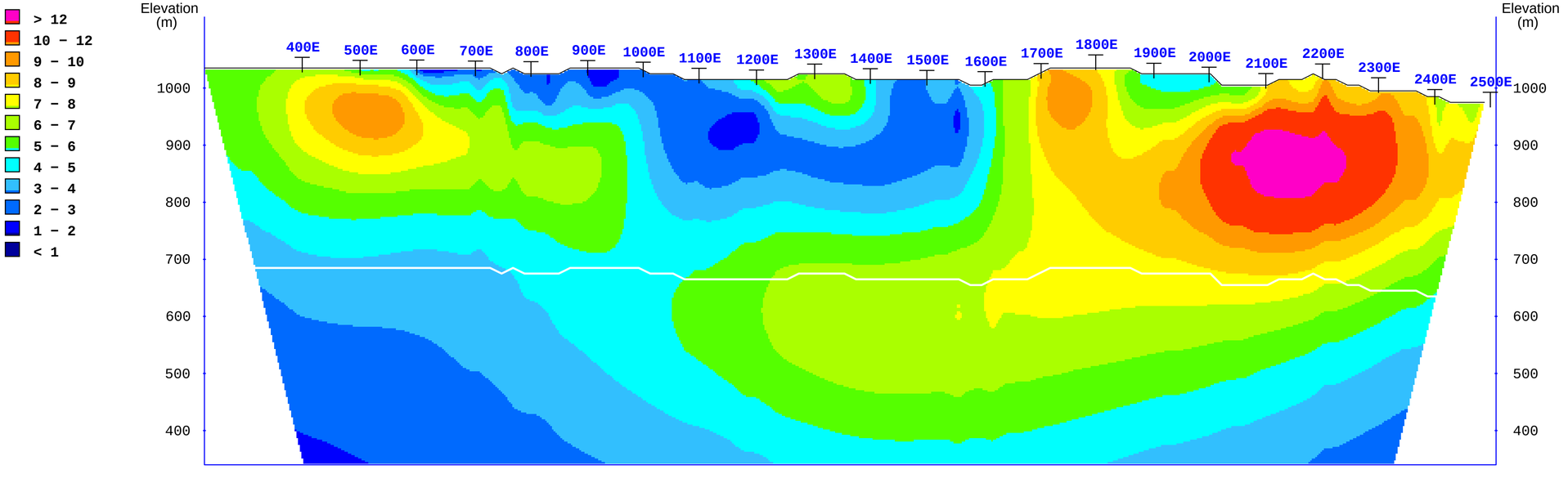
False Color Contour Map

Section 4400N

SJ Geophysics Ltd.

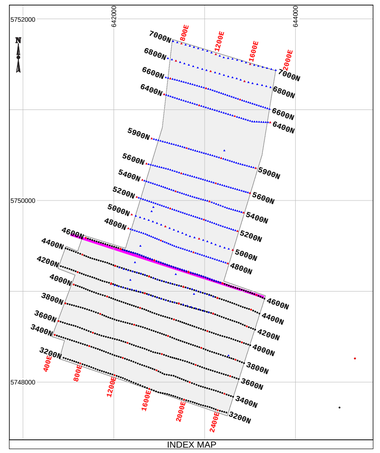


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

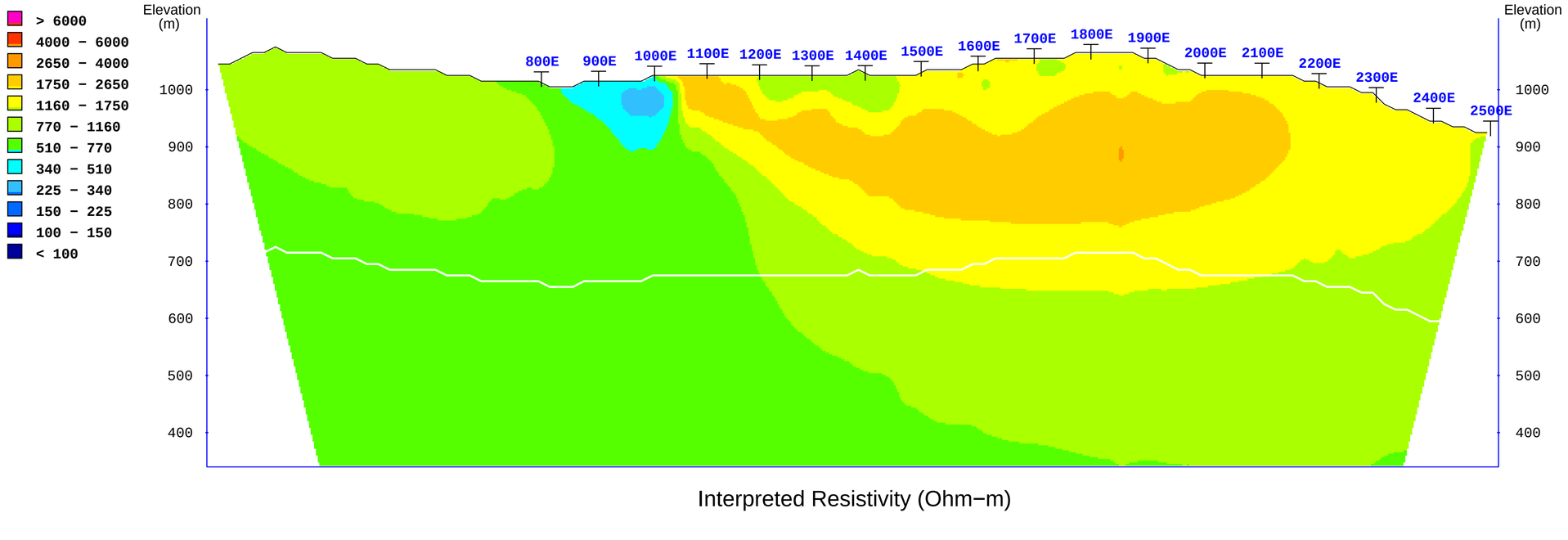
3D IP SURVEY

3D Cross Sections

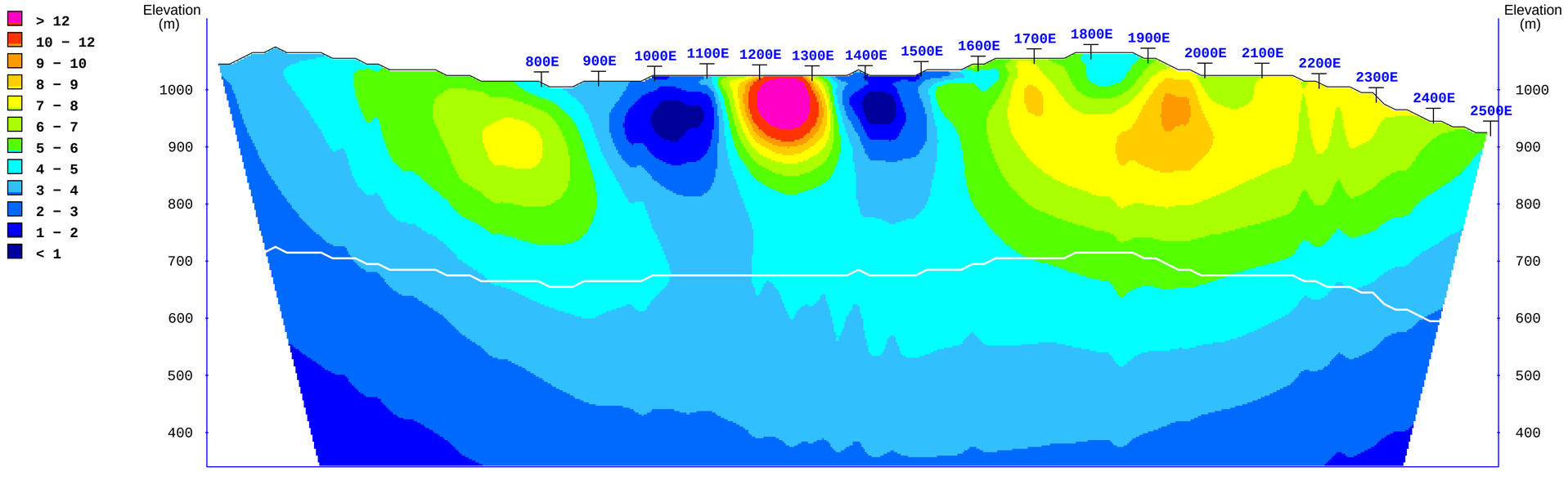
False Color Contour Map

Section 4600N

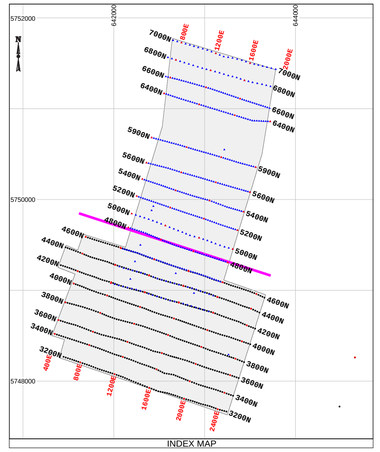
SJ Geophysics Ltd.



Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
5000 Gridline Coordinate Projected to Section

Meters

0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

3D IP SURVEY

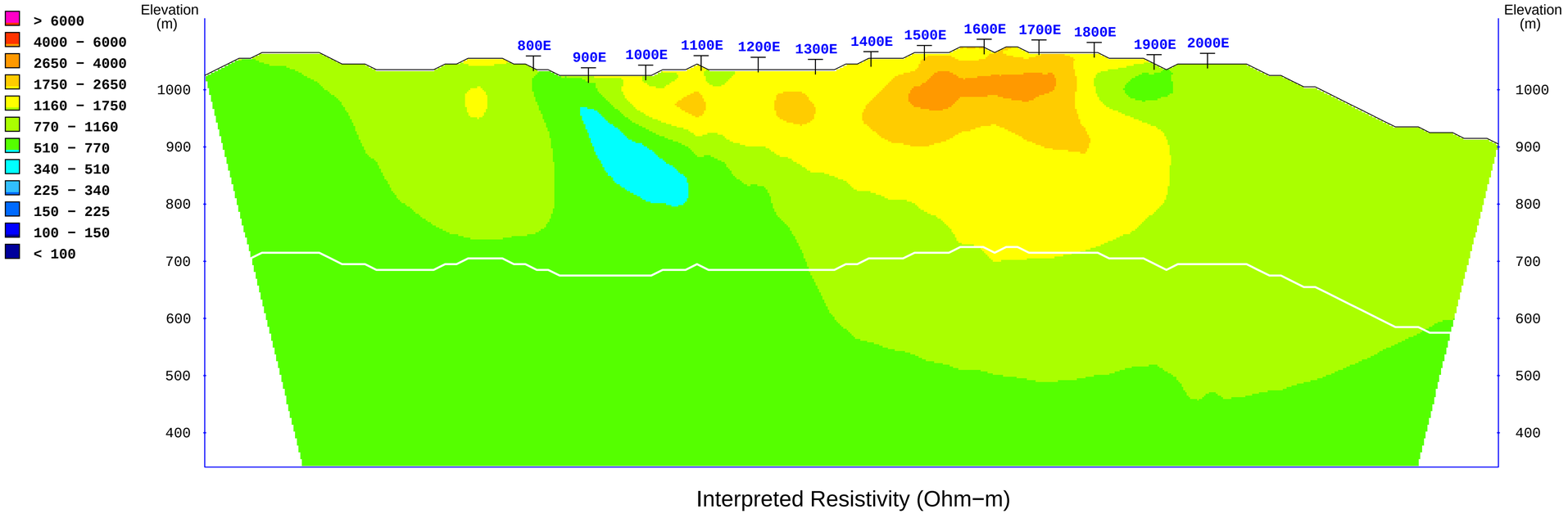
3D Cross Sections

False Color Contour Map

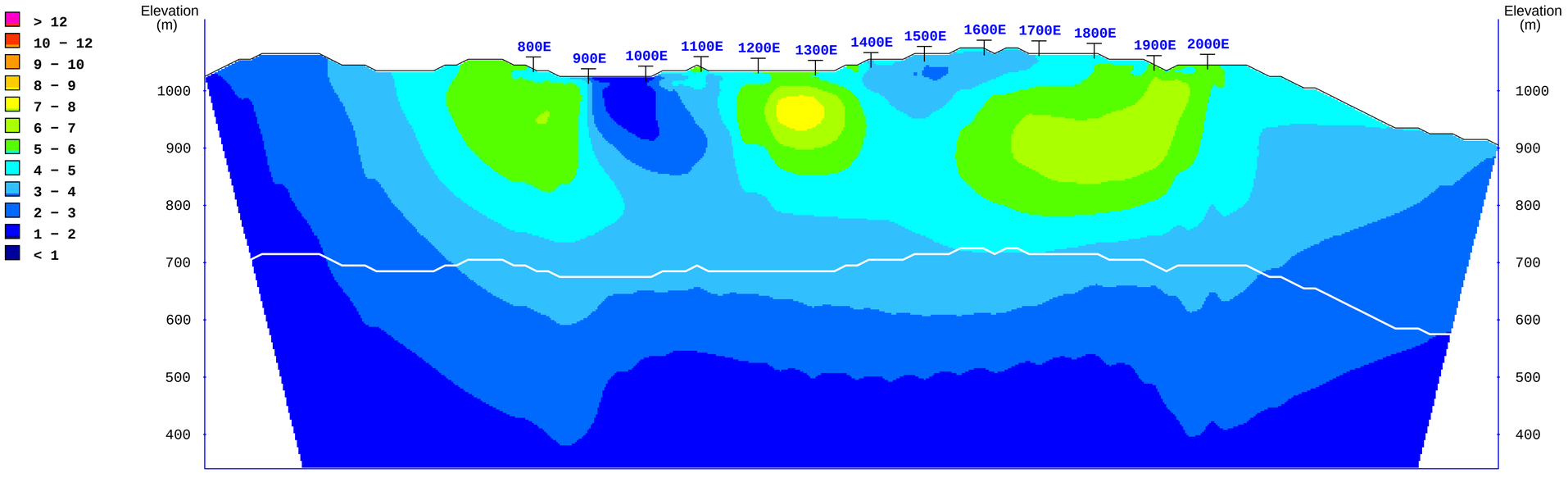
Section 4800N

SJ Geophysics Ltd.

GRASS 6.3

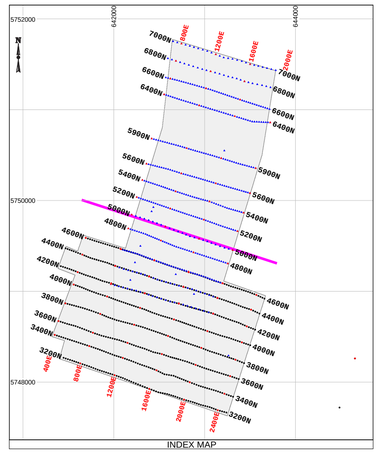


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
800E Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

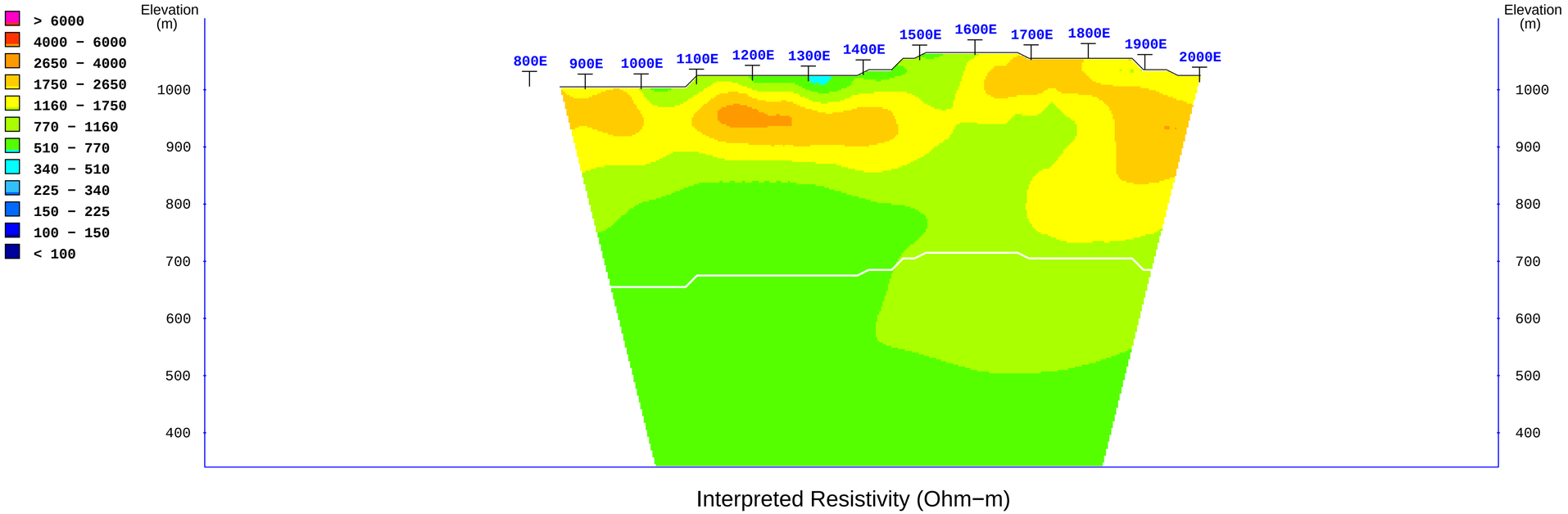
3D IP SURVEY

3D Cross Sections

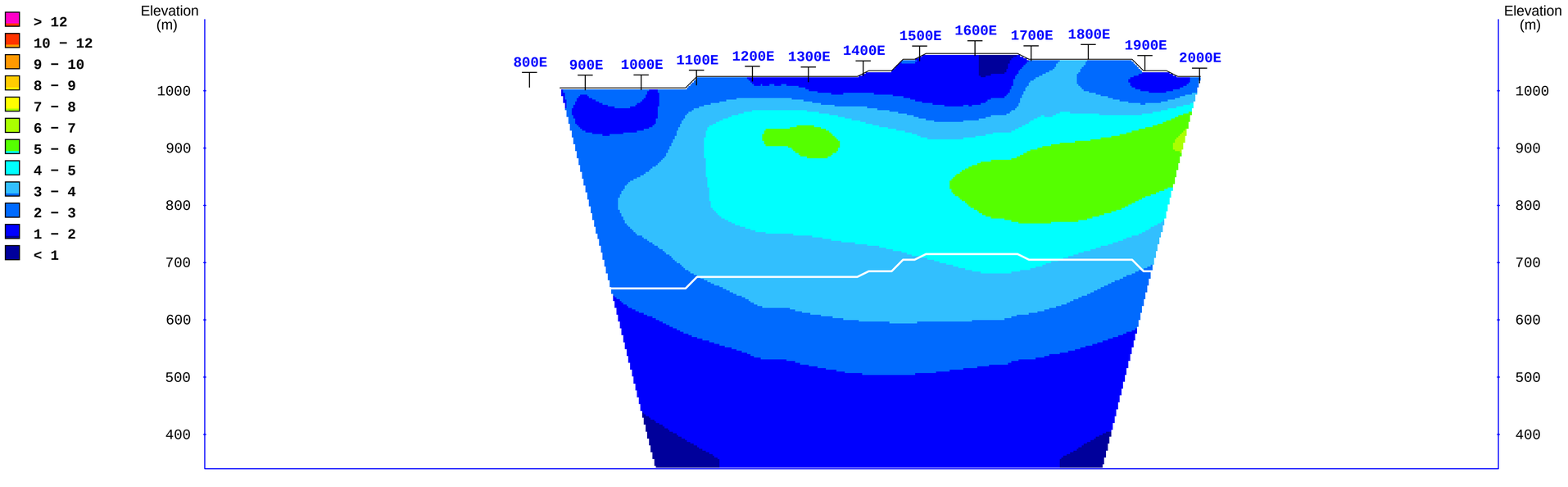
False Color Contour Map

Section 5000N

SJ Geophysics Ltd.

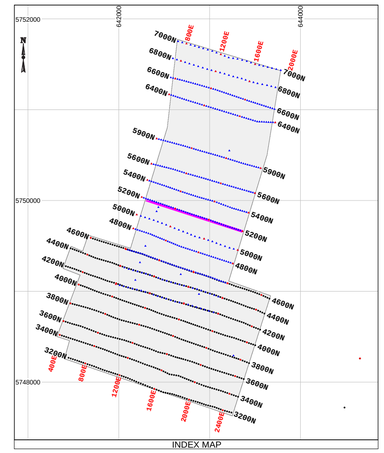


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
800E Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

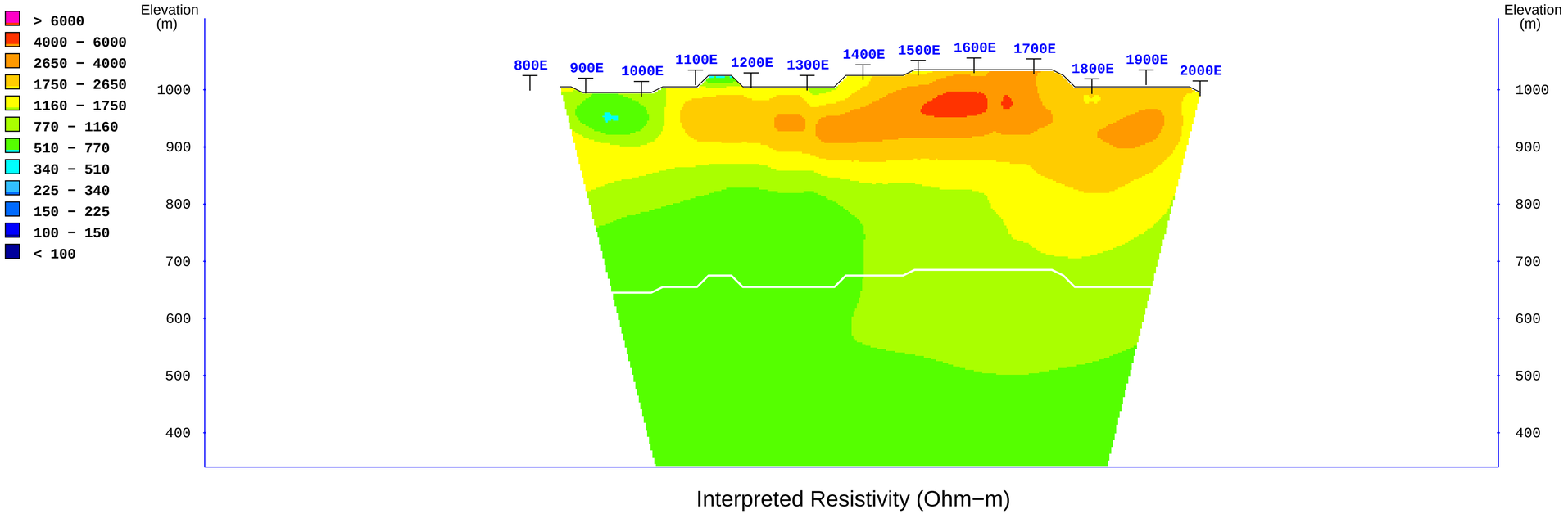
3D IP SURVEY

3D Cross Sections

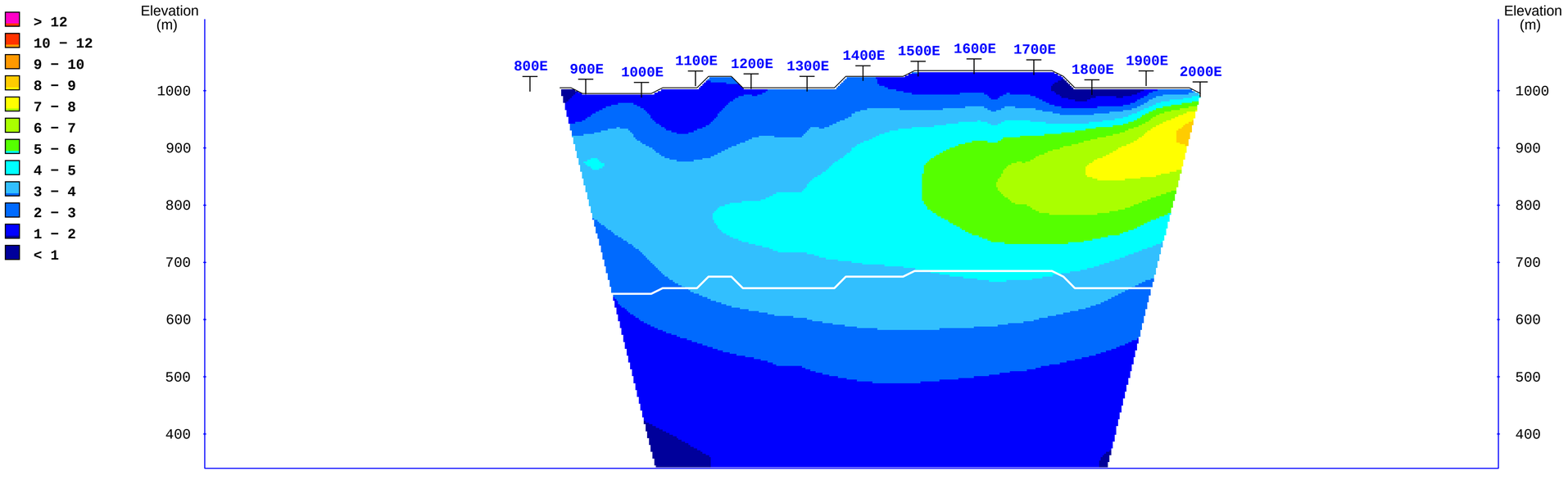
False Color Contour Map

Section 5200N

SJ Geophysics Ltd.

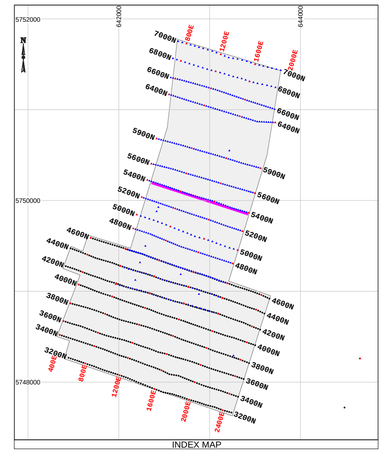


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

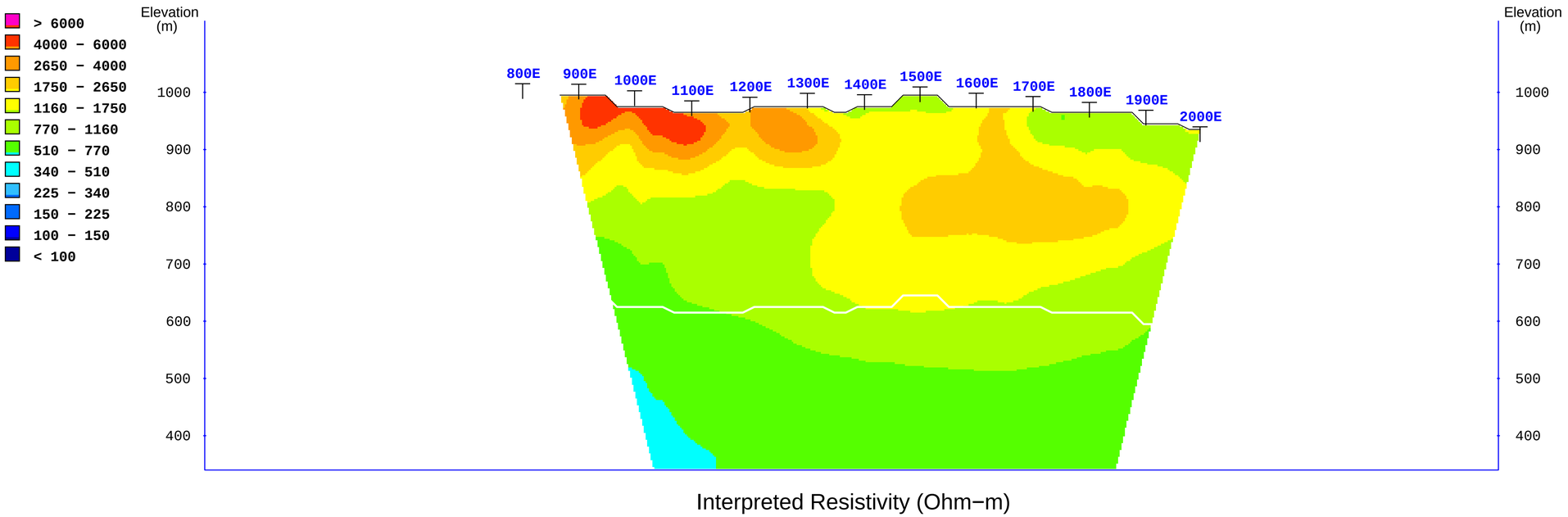
3D IP SURVEY

3D Cross Sections

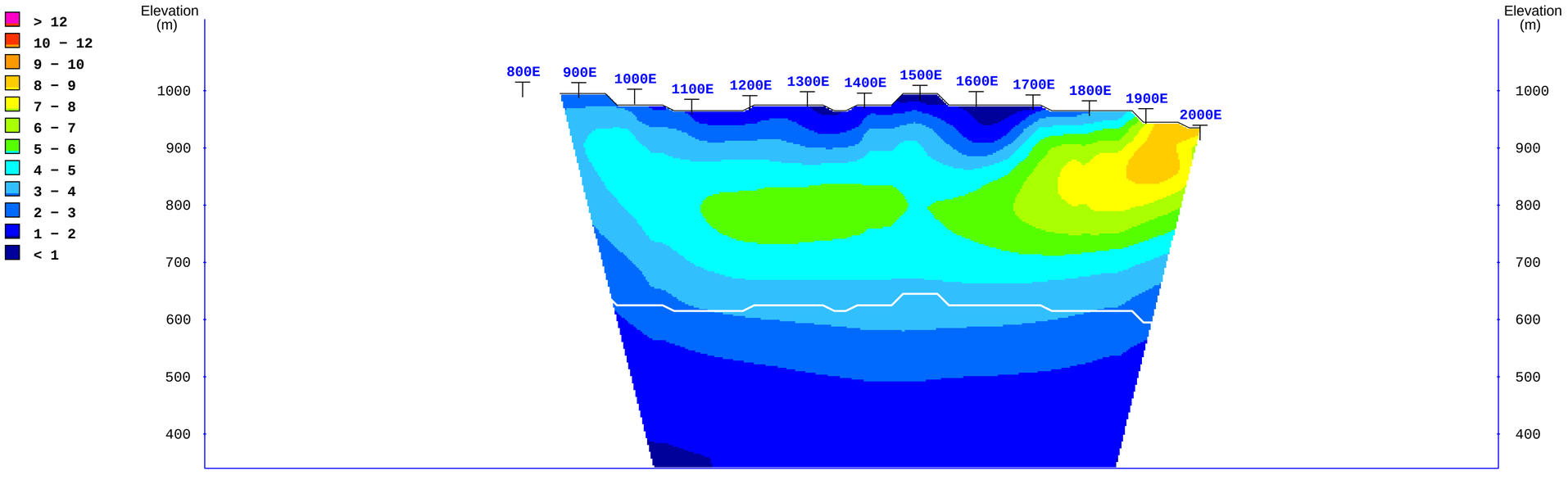
False Color Contour Map

Section 5400N

SJ Geophysics Ltd.

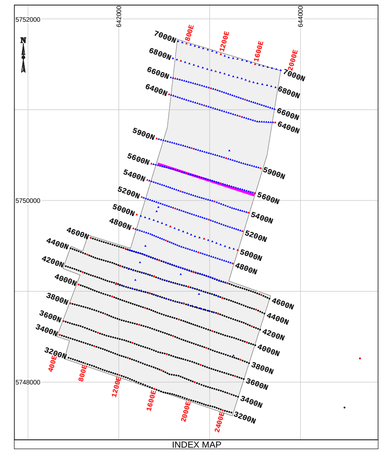


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

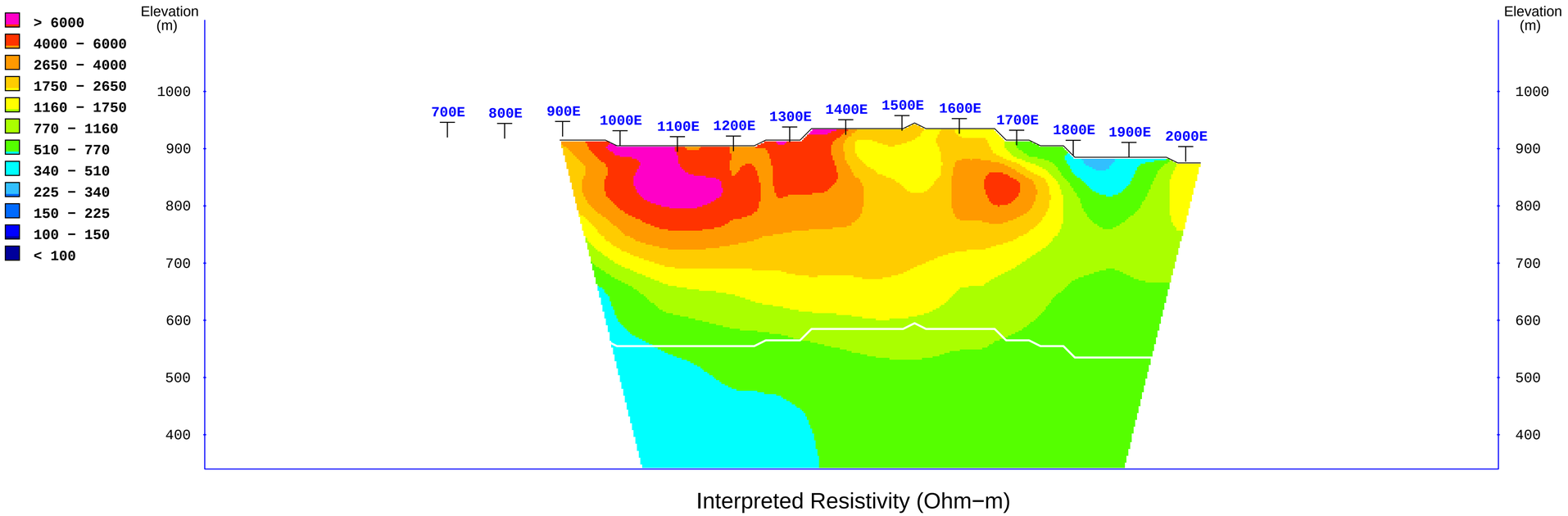
3D IP SURVEY

3D Cross Sections

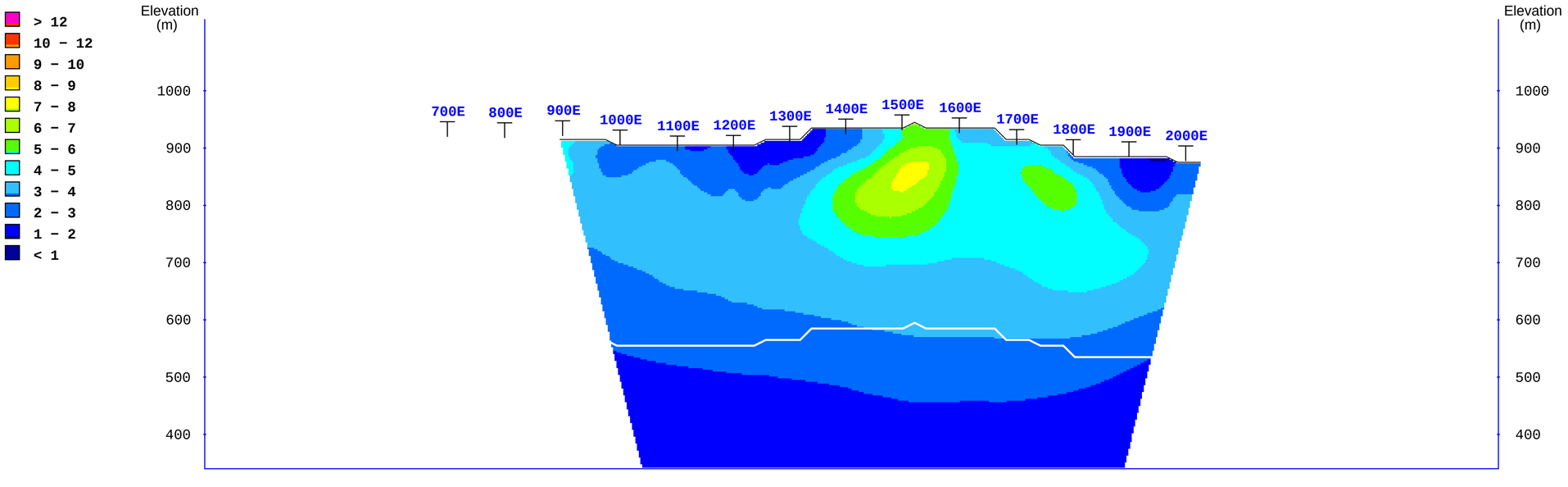
False Color Contour Map

Section 5600N

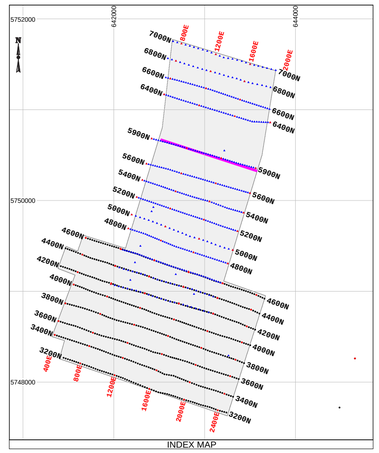
SJ Geophysics Ltd.



Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

3D IP SURVEY

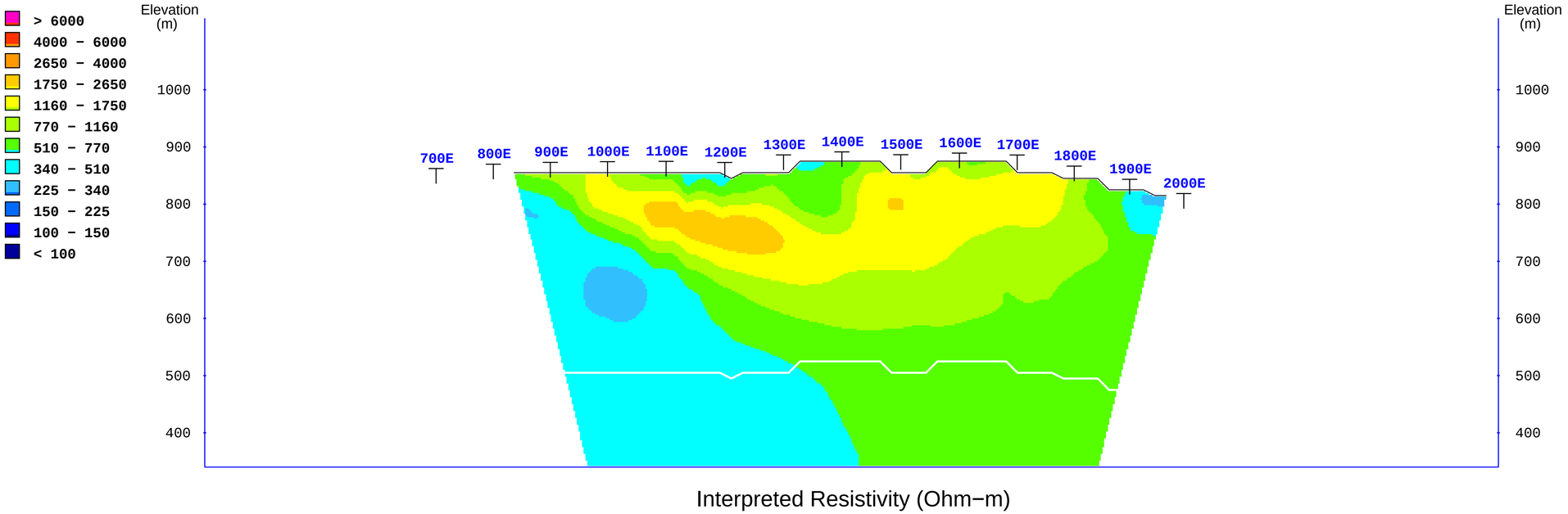
3D Cross Sections

False Color Contour Map

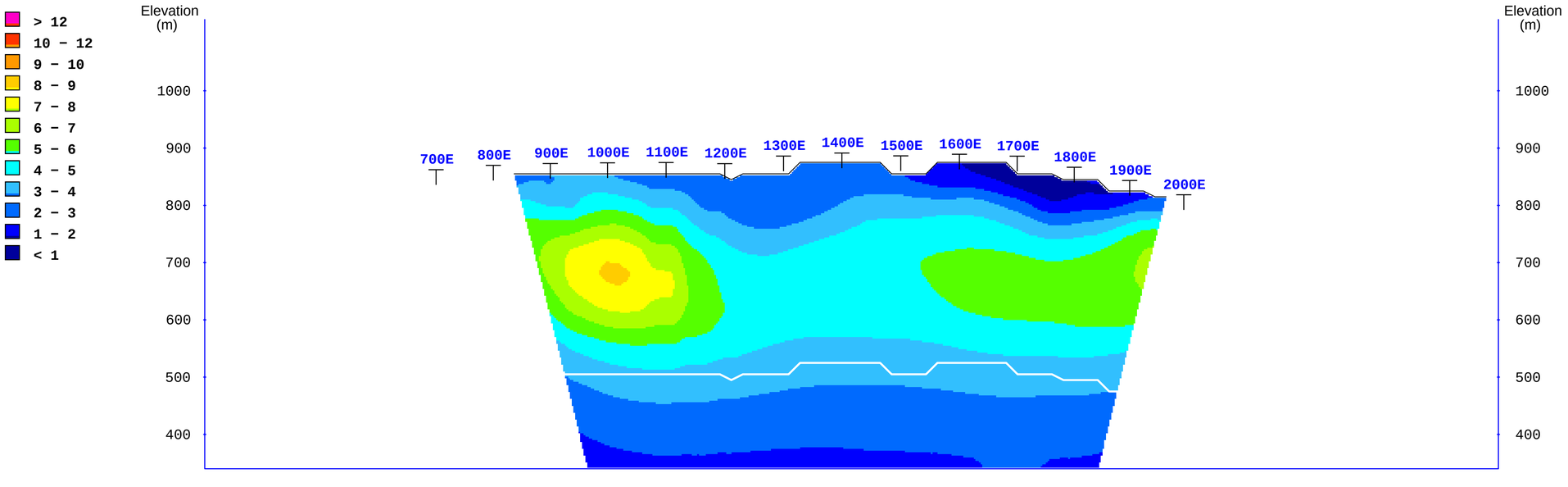
Section 5900N

SJ Geophysics Ltd.

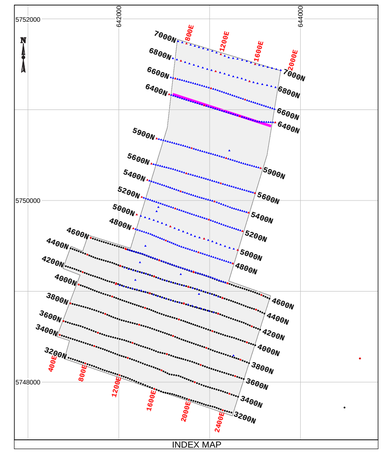
GRASS 6.3



Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

3D IP SURVEY

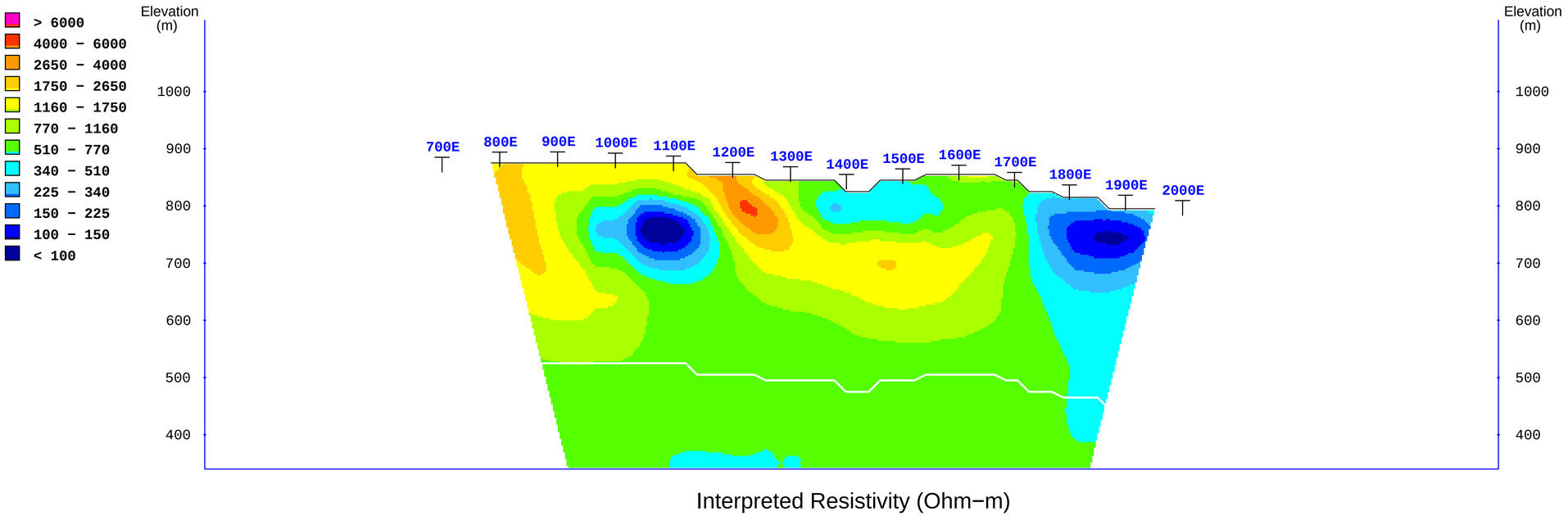
3D Cross Sections

False Color Contour Map

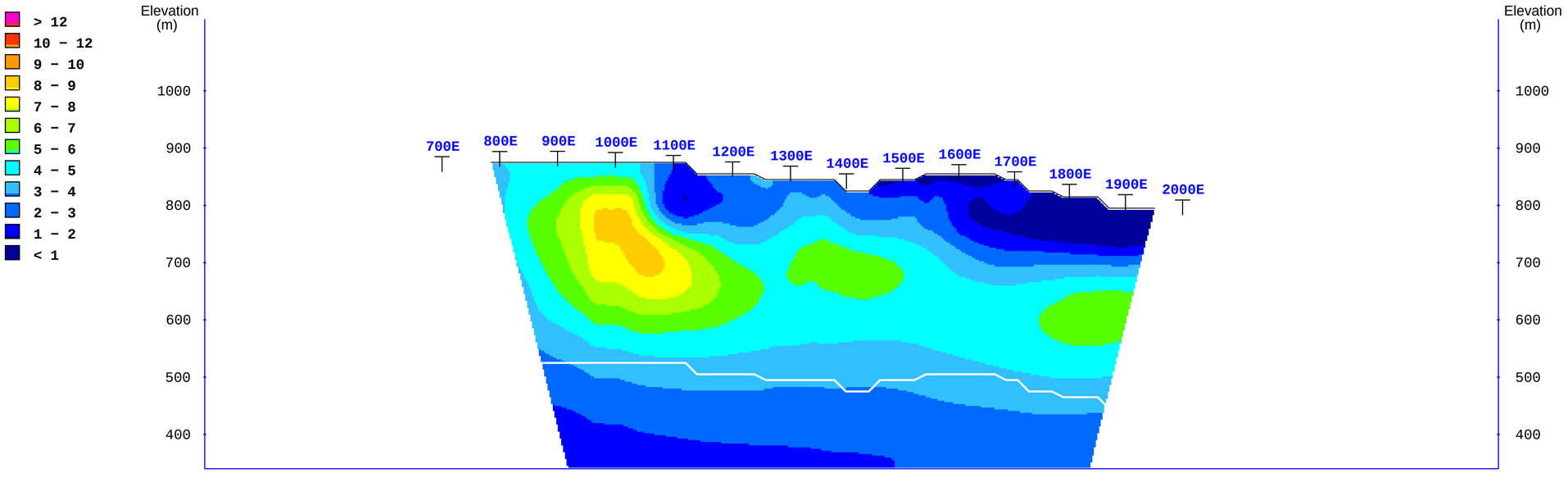
Section 6400N

SJ Geophysics Ltd.

GRASS 6.3

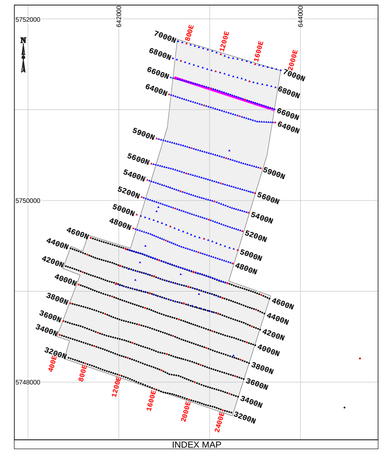


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

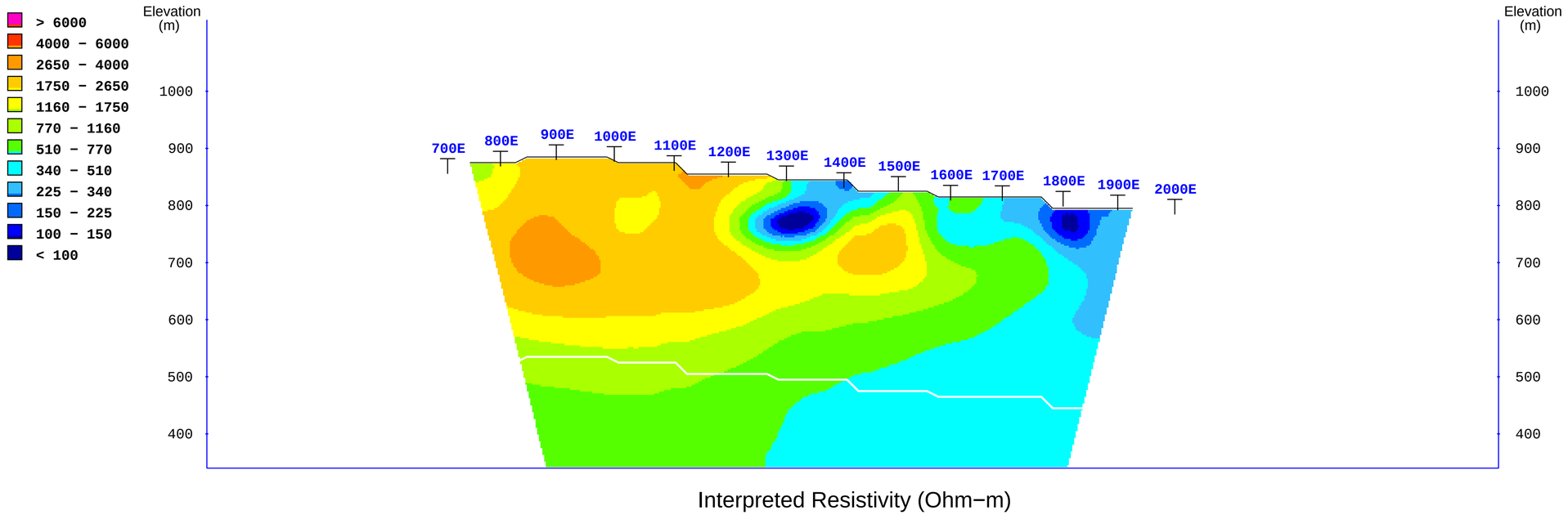
3D IP SURVEY

3D Cross Sections

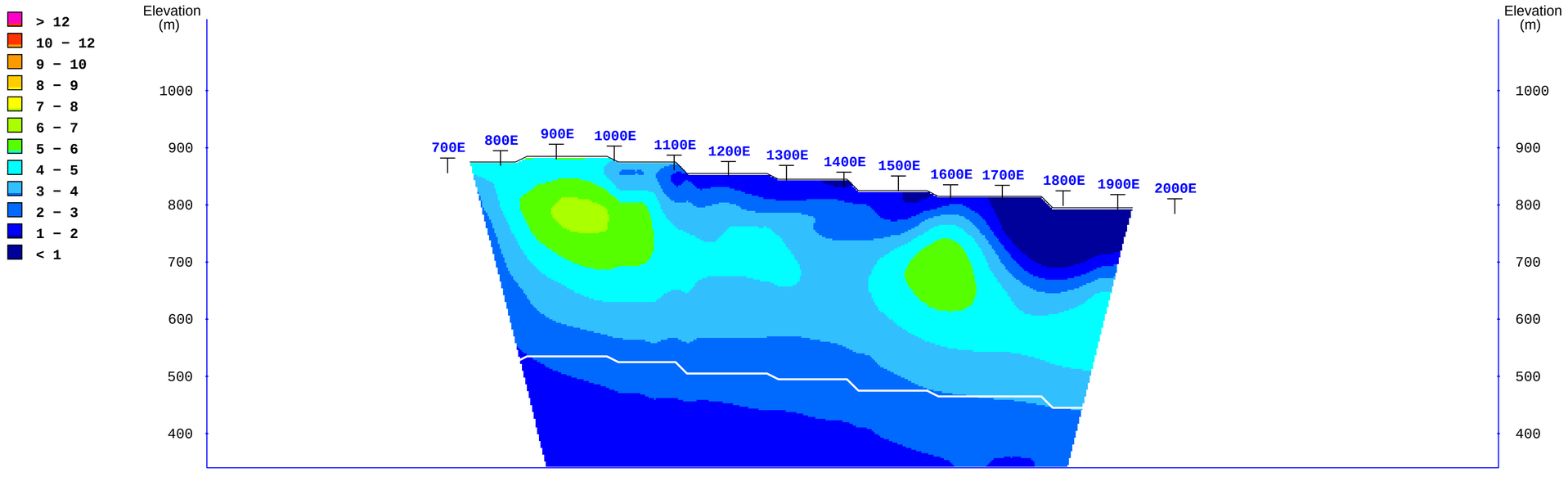
False Color Contour Map

Section 6600N

SJ Geophysics Ltd.

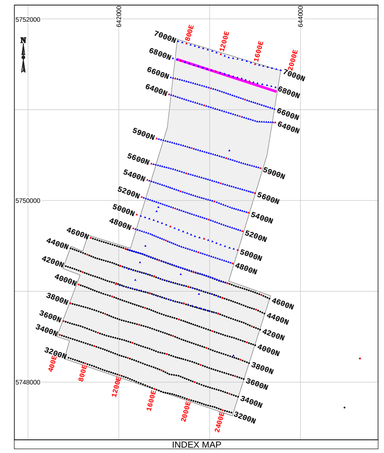


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

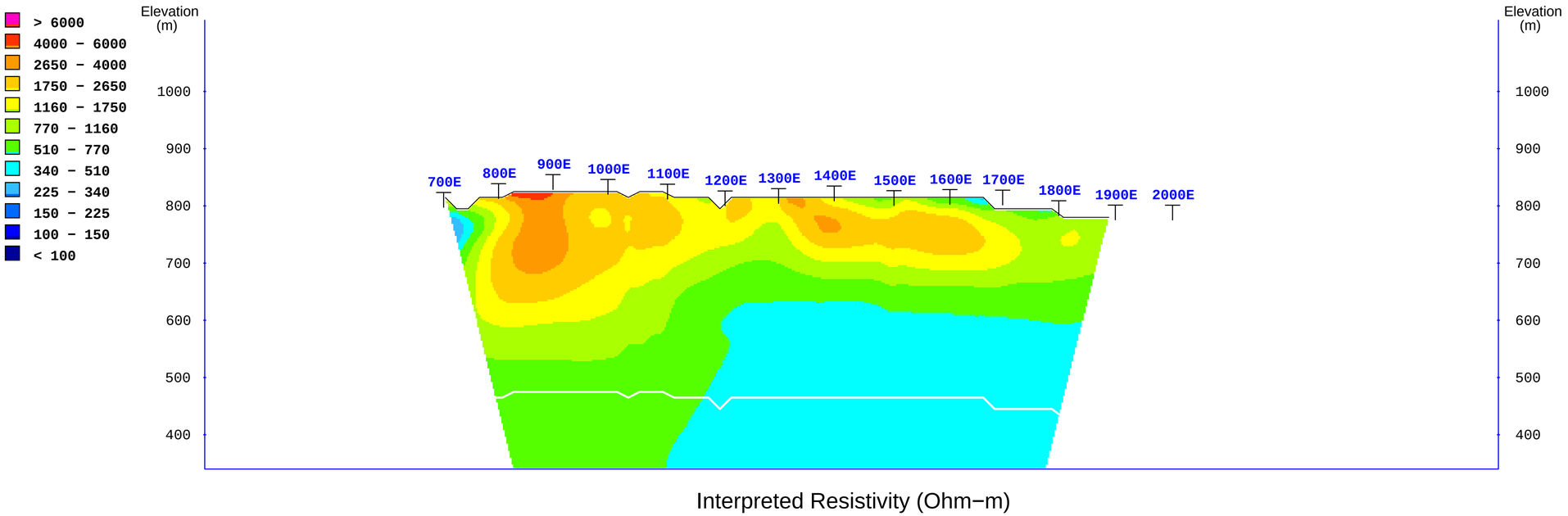
3D IP SURVEY

3D Cross Sections

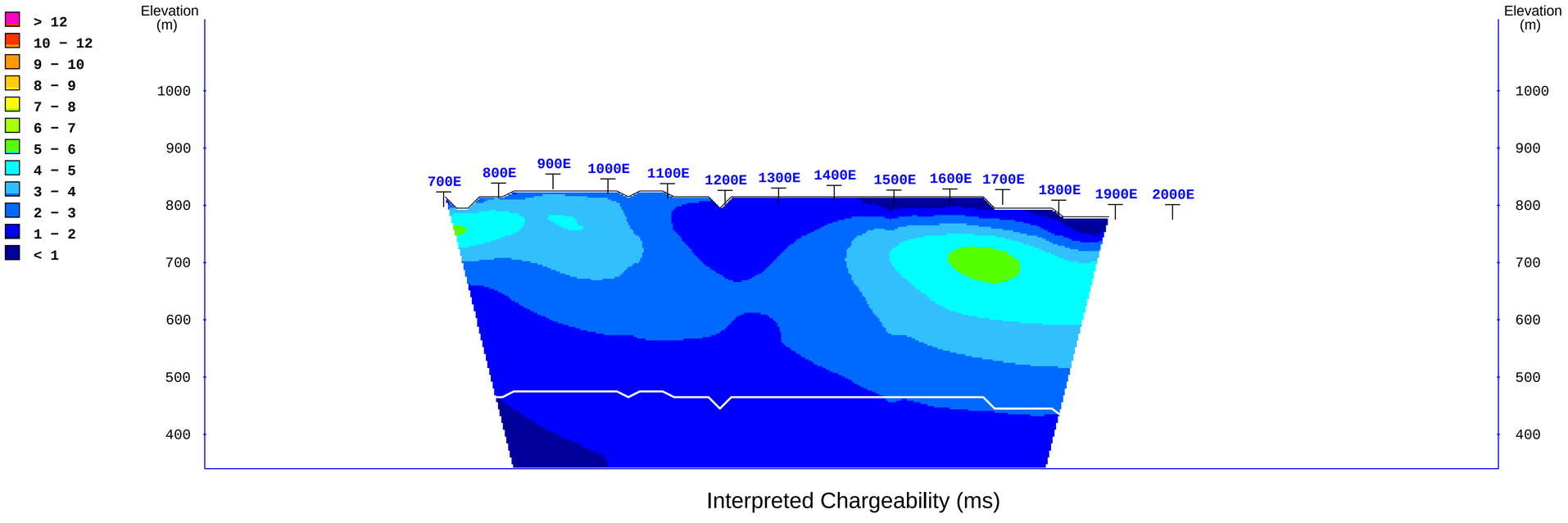
False Color Contour Map

Section 6800N

SJ Geophysics Ltd.

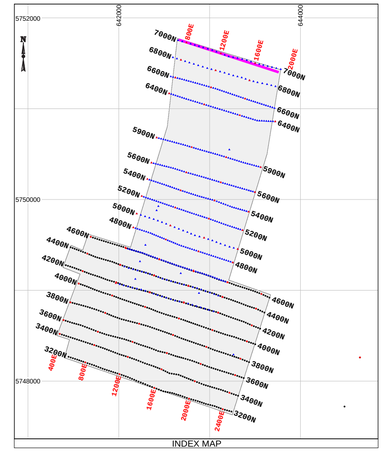


Interpreted Resistivity (Ohm−m)



Interpreted Chargeability (ms)

GRASS 6.3



Survey Information−2007:

3D IP Array : N=12 a=100m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: Walcer Tx9000 IP Transmitter

Survey Information−2008:

3D IP Array : N=15,16 a=100m,200m

INSTRUMENTATION:
RECEIVER: SJ−24 Full−Waveform Digital IP Receiver
TRANSMITTER: GDD TX II 3.6 KW

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: June,2007 & June,2008
Mapping Date: July,2008

Projection: UTM WGS84 Zone 10

Legend
White Line: Estimated Depth of Investigation
700E Gridline Coordinate Projected to Section

Meters
0 100 200 300 400 500

HAPPY CREEK MINERALS LTD.

Hawk Property

South Central Cariboo (100 Mile House)

British Columbia

3D IP SURVEY

3D Cross Sections

False Color Contour Map

Section 7000N

SJ Geophysics Ltd.

640500 641000 641500 642000 642500 643000 643500 644000 644500

5752000 5751500 5751000 5750500 5750000 5749500 5749000 5748500 5748000 5747500 5747000 5746500

N W E S

Roger Lake

L7900N L6800N L6600N L6400N L5800N L5600N L5400N L5200N L5000N L4800N L4600N L4400N L4200N L4000N L3800N L3600N L3400N L3200N

Ap/At Ap/At Ap/At Ap/At Ap/At

hGd hGd Gb Gd Gd Gd Gd Gd Gd Gd Sy

659668 375.6.1 659657 164.28.5 659659 2425.7.1803.6 659656 132.0.6 322615 18.5.4.2 322616 143.6.6.8 322617 52.3.1 322618 48.2.17 322619 20.3.10 322620 623.0.9 659655 73.5.0.8 659654 92.8.4.0 659653 74.8.3.2 659652 122.9.4.7 826501 4.4.0.5 826502 268.2.1.7 826503 275.6.5.7 826504 166.3.2.2 826505 133.6.1.1 826506 91.3.2 826507 5.6.1 826508 19.1.1.6 826509 170.3.1.9 826510 38.1.2.6 826511 12.5.2.1 826512 9.8.2 826513 189.4.3 826514 10.5.0.5 826515 459.1.31.1 826516 698.1.33.8 826517 103.9.13.6 826518 83.5.7.7 826519 404.2.115 659651 64.1.6 659658 104.2.2.7 659669 15.1.0.7

07-HK-01 07-HK-02

GD-Dyke

Creek

Legend

Stratified Rocks

UPPER TRIASSIC TO LOWER JURASSIC

Nicola Group

- ApAt — Andesitic Augite Porphyry and Augite-phyric Andesite/ Andesite Tuff
- Ap — Andesitic Augite Porphyry and Augite-phyric Andesite
- At — Andesitic Tuff and Andesitic Augite Crystal Tuff
- Ba — Basalt

Intrusive Rocks

LATE TRIASSIC TO EARLY JURASSIC

Takomkane Batholith

- Gd — Granodiorite
- Mz — Monzonite
- Qd — Quartz Diorite

Unassigned

- Gb — Gabbro
- Sy — Syenite
- hGd — Hornblende Granodiorite

Limit of Mapping

Claim Boundary

BC Parks

Symbology

Float
Outcrop
Subcrop
DDH and Trace

Bedding 78 | Faulting 78
Foliation 78 | Quartz Veining 78
Jointing 78 | Dyke 78

Sample # / Cu ppm, Au ppb — Rock Sample w/ Assay

Dyke
Shear
Contact (defined, approximate, inferred)
Fault (defined, approximate, inferred)
2008 Grid
2007 Grid

Alteration Code

Arg - Argillic
Car - Carbonatization
Hf - Hornfels
Oxi - Oxidation
Pot - Potassic
Prp - Propylitic
Ser - Sericitic
Sil - Silicification

Mineral Code

bo - Bornite
cc - Chalcocite
cp - Chalcopyrite
cu - Cuprite
ga - Galena
ma - Malachite
sp - Sphalerite

HAPPY CREEK MINERALS LTD. TSX-V:HPY
DIVERSIFIED METALS EXPLORATION

Hawk Property
Geology, Rock Geochemistry (Cu ppm, Au ppb)

Road
River/Stream
Lake
Flooded Land
Contour-Index
Contour-Inter
DesignatedArea

20k Mapsheets: 92P086,096
Date: January 17, 2009
Projection: UTM10N, NAD83
Scale: 1:5 000
Path: ..\08-PX-0118\Mapping\PrpGeol_E
Drawn By: BB
Checked By: BL

ALLNORTH CONSULTANTS LIMITED
Phone: (250) 614-7344
Fax: (250) 614-7348

0 62.5 125 250 375 500 Meters