



ASSESSMENT REPORT TITLE PAGE AND SUMMARY

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

TOTAL COST: \$235,000

AUTHOR(S): Bob Lane

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-4-452

STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 4252937

YEAR OF WORK: 2008

PROPERTY NAME: Hen

CLAIM NAME(S) (on which work was done): 526686, 518934

COMMODITIES SOUGHT: copper, gold, silver

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Cariboo and Clinton

NTS / BCGS: **93A/02 & 92P/15**

LATITUDE: **52°01'31" N**

LONGITUDE: **120°42'52" W** (at centre of work)

UTM Zone: 10 **EASTING:** 653000 **NORTHING:** 5764000

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 Hen property covers the eastern edge of the Late Triassic-Early Jurassic Takomkane batholith that is in contact with volcanic and sedimentary rocks of the Upper Triassic to Lower Jurassic Nicola Group. The Anomaly Creek zone covers the contact between these rocks. Peripherally, zones of elevated lead, zinc and copper in rock and soil occur with hornfels, quartz, k-feldspar, chlorite, epidote and sericite alteration. To the east, the Hen, Dyke and Ledge gold prospects are hosted by hornfels and calcic skarn near the contact between Nicola volcanic rocks and a Cretaceous intrusion.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 29037, 28399, 27754, 25056.

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)	2.5 square km	526686 518934	25000
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground	26.0	526686	25000
Magnetic			
Electromagnetic	15.75	526686	25000
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL	505 ICP-MS	526686 518934	60000
Soil			
68		526686 518934	25000
Silt			
160		526686 518934	25000
Rock			
Other			
DRILLING (total metres, number of holes, size, storage location)	153.0metres	Re-Log and Sample	518934
Core			13214.20
Non-core			
RELATED TECHNICAL		35 core samples	518934
Sampling / Assaying			2000
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPARATORY / PHYSICAL	16 km +25 Km	526686 518934	35000
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
Other			
		TOTAL COST	235214.20

A GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL

REPORT ON THE

HEN PROPERTY

**BC Geological Survey
Assessment Report
30826**

CARIBOO AND CLINTON MINING DIVISIONS

BRITISH COLUMBIA

NTS MAPSHEETS: 93A/02 & 92P/15

**52°01'31" N
120°42'52" W**

PREPARED FOR

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

PREPARED BY

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

TABLE OF CONTENTS

1. SUMMARY	1
2. INTRODUCTION AND TERMS OF REFERENCE	2
3. PROPERTY DESCRIPTION AND LOCATION	2
3.1 Accessibility and Infrastructure.....	2
3.2 Mineral Tenure Information.....	3
3.3 Physiography and Climate.....	6
4. HISTORY	6
5. GEOLOGICAL SETTING	7
5.1 Regional Geology	7
5.2 Property Geology, Alteration and Mineralization	8
6. 2008 EXPLORATION PROGRAM.....	10
6.1 Logging of 1996 Drill Core.....	10
6.1.1 Summary Description: Diamond Drill Hole HEN96-4.....	11
6.1.2 Geochemical Results.....	11
6.1.3 Methodology and Data Verification.....	11
6.2 Bedrock Mapping.....	12
6.3 Geochemical Surveys.....	14
6.3.1 Soil Geochemical Survey	14
6.3.2 Silt Geochemical Survey	15
6.3.3 Rock Geochemical Survey	15
6.4 Geophysical Survey.....	26
7. INTERPRETATION AND CONCLUSIONS	27
8. RECOMMENDATIONS.....	28
9. STATEMENT OF COSTS - 2008	29
10. COST OF PROPOSED PROGRAM.....	30
11. REFERENCES.....	31
12. STATEMENT OF QUALIFICATIONS	32

FIGURES

Figure 1: Hen Property Location.....	2
Figure 2: Hen Property Claims.....	4
Figure 3: Hen Property Regional Geology.....	8
Figure 4: Hen Property Geology.....	in pocket
Figure 5: Main Grid - Rock, Silt and Soil Sample Locations	16
Figure 6: Main Grid - Rock, Silt and Soil Geochemical Results - Gold (Au).....	17
Figure 7: Main Grid - Rock, Silt and Soil Geochemical Results - Copper (Cu).....	18
Figure 8: Main Grid - Rock, Silt and Soil Geochemical Results - Arsenic (As).....	19
Figure 9: Main Grid - Rock, Silt and Soil Geochemical Results - Antimony (Sb).....	20
Figure 10: Anomaly Creek Grid - Rock, Silt and Soil Sample Locations.....	21
Figure 11: Anomaly Creek Grid - Rock, Silt and Soil Geochemical Results - Gold (Au).....	22
Figure 12: Anomaly Creek Grid - Rock, Silt and Soil Geochemical Results - Copper (Cu)..	23
Figure 13: Anomaly Creek Grid - Rock, Silt and Soil Geochemical Results - Lead (Pb).....	24
Figure 14: Anomaly Creek Grid - Rock, Silt and Soil Geochemical Results - Zinc (Zn).....	25

TABLES

Table 1: Mineral Tenure Status.....	3
Table 2: Property History of Exploration.....	6
Table 3: Drill Hole Collar Location.....	10
Table 4: RQD Classification Table.....	12
Table 5: Statistical Results for 2008 Soil Samples.....	15

APPENDICES

Appendix A:	Diamond Drill Cross Section
Appendix B:	Core Photographs
Appendix C:	Diamond Drill Hole Log
Appendix D:	Core Sample Acme Lab Results and Certificates of Analysis
Appendix E:	Core Sample QA/QC Report
Appendix F:	2008 Field Mapping Notes
Appendix G:	Geochemical Survey Soil, Silt and Rock Results
Appendix H:	Geochemical Survey Soil, Silt and Rock Acme Lab Certificates
Appendix I:	Geophysical Survey Report

1. SUMMARY

The Hen property is centred about 75 km northeast of 100 Mile House in the south Cariboo region, British Columbia. The Hen property is comprised of 10 contiguous MTO cell claims that cover 5610.27 ha in the Cariboo Mining Division. 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 primarily underlain by volcanic and sedimentary rocks of the Upper Triassic to Lower Jurassic Nicola Group. 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. On the south side of the property the stratified rocks are in contact with biotite-hornblende monzodiorite and granodiorite of the Early Cretaceous Hendrix stock. A regional scale, east-west transverse fault crosses the Hen property in the vicinity of several mineralized showings.

The two known prospective areas on the property, Anomaly Creek on the west and Hen on the east, are physically separated by northwest-trending Hendrix Creek. The Hen area is comprised of the Hen, Chick, Dike, Ledge and Southeast showings. The Hen main zone consists of hornfelsed, carbonate and potassic-altered andesitic rocks that locally contain up to 5% pyrrhotite, 1-3% arsenopyrite and lesser amounts of pyrite and chalcopyrite. The alteration and mineralization is related to the contact thermal effects generated by the intrusion of the Hendrix stock. Chip sampling of the altered and mineralized material has yielded assays as high as 3.98 g/t Au over 2.1 metres. Drilling conducted to intersect the projection of the zone cut 0.8 m grading 2.08 g/t Au. The Chick showing is comprised of carbonate-altered float that is anomalous in gold (up to 1.31 g/t Au). The Dike showing occurs along the contact between volcanics and a northwest-trending diorite to granodiorite dyke. Mineralization consists of pyrrhotite, pyrite and arsenopyrite with impressive gold values in hornfelsed and calc-silicate altered limy volcanic-sedimentary rocks. Grab samples have returned values up to 35.06 g/t Au, 6.2 g/t Ag and 469.1 ppm As. A 3.5 m chip sample across the zone averaged 3.46 g/t Au and 4.29 g/t Ag. Further to the east, samples of hornfelsed sedimentary rocks carrying up to 5% pyrrhotite from the Ledge and Southeast skarn showings grade up to 1.10 g/t Au and >10,000 ppm As and 1.14 g/t Au and 278 ppm As, respectively.

At Anomaly Creek, an area underlain by volcanic rocks east of the Takomkane batholith is anomalous in copper (soil geochemical values as high as 281 ppm Cu and rocks as high as 1319 ppm Cu), gold (rocks as high as 646 ppb Au) and lead-zinc.

The 2008 exploration program consisted of re-logging and sampling core from one of two holes drilled by Pioneer Metals Corp in 1996, bedrock mapping of the Anomaly Creek and Hen areas, grid-based soil geochemical sampling of part of the Anomaly Creek area and part of the Hen area and prospecting and reconnaissance silt and rock geochemical sampling across the property. In addition, SJ Geophysics Ltd completed a ground-based geophysical program including 26 line-km of magnetometer survey and 15.75 line-km of 3D Induced Polarization survey over part of the Anomaly Creek area.

Drill hole HEN96-4 from the 1996 program was relogged and previously unsampled sections were sampled. A total of 35 core samples were submitted for multi-element analysis. One significant interval of gold mineralization was encountered returning 1908.4 ppb gold over 0.86m. Copper values were consistently in the 100 ppm Cu range.

A total of 505 soil geochemical samples, 68 silt geochemical samples and 160 rock geochemical samples were collected during the 2008 field program. The most significant soil geochemical anomaly identified was a narrow northeast-trending gold anomaly defined by values up to 2648 ppb Au. The linear anomaly extends for more than 800 m across four grid lines from the west-central edge of the grid. The silt geochemical results for gold ranged from a low of 0.8 ppb Au to a high of 38.6 ppb Au (sample HEN08TRS-05). The high gold sample was taken from a creek north of the Hen main grid near the northern edge of the claim group that drains an area underlain primarily by augite-phyric flows. Several grab samples of bedrock mineralization from the Dike showing returned encouraging gold values, including sample 175582 which graded 31,037.6 ppb Au, 6.2 ppm Ag and 469.1 ppm As.

The geophysical surveys conducted on the Anomaly Creek grid identified an attractive coincident anomaly east of the Takomkane-Nicola contact. The anomaly consists of a moderate magnetic high that is coupled with an annular chargeability high and linear resistivity low that persist to a depth of 200 m or more. The geophysical features also coincide with a multi-element geochemical anomaly outlined in 2006. The coincident geophysical-geochemical anomaly is a compelling bulk tonnage target.

The Hen property hosts pyroxene or calcic gold skarn mineralization that is spatially and genetically related to the emplacement of an Early Cretaceous stock. Hornfels and biotite-garnet-diopside skarn with cross-cutting calcite veinlets, carry anomalous levels of gold, silver and arsenic.

Continued evaluation of both the Anomaly Creek area, for porphyry copper-gold deposits and the Hen area, for gold skarn deposits, is recommended. Specifically, mechanized trenching of the Dike showing is recommended to test for extensions of the skarn system and mechanized trenching and diamond drilling in the Anomaly Creek area is recommended to evaluate the bulk tonnage potential of the coincident geochemical-geophysical anomaly. The estimated cost for a proposed phase one trenching and drilling program of the two areas is \$308,000.

2. INTRODUCTION AND TERMS OF REFERENCE

Happy Creek Minerals Ltd (Happy Creek) contracted Allnorth Consultants Limited (Allnorth) to re-log core from one 1996 diamond drill hole and to conduct bedrock mapping over the Anomaly Creek and Main areas of the Hen property. It is understood that this report may be required for material disclosure. Prior to the field visit the authors acquired and reviewed the historical information including published and unpublished reports and personal 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 Hen property is located about 75 km northeast of 100 Mile House and about 80 km southeast of Williams Lake in the south Cariboo, 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 road. Travel this road to Forest Grove and turn right at the three-way stop. Continue on

the Canim-Hendrix road for a total of 50 km from Highway 97 to Eagle Creek Bridge. Cross the bridge to the start of the Hendrix Lake (6000) road. Travel 27 km along the Hendrix Lake road to the 6300 road which provides access to the centre and eastern parts of the property. Access to the western part of the property is provided by the 615 road which departs from the Hendrix Lake road at the 15 km marker.

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. Most services and supplies are available in these resource-based communities.

A transmission line that provided power to the former Boss Mountain molybdenum mine, 16 km to the northwest, and presently provides power to the community of Hendrix Lake, crosses the Hen property on its way north.

3.2 Mineral Tenure Information

The Hen property is comprised of 10 contiguous MTO cell claims that cover 5610.27 ha on NTS map sheets 093A/02 and 092P/15. The property is located between latitudes 52°03'30" and 51°58'12" North and longitudes 120°47'48" and 120°37'50" West. The centre of the claim block is located at 52°01'31" North and 120°42'52" West. All the individual 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 October 17, 2008)

Tenure #	Claim Name	Mapsheet	Expiry Date	Area (ha)
518934	HEN-MAIN	093A	2010/jan/31	1830.06
526686	HEN	093A	2008/dec/31	955.05
526702	HEN WEST	093A	2008/dec/31	497.22
552573	HEN NORTH	093A	2008/dec/31	497.06
552574	HEN NORTH 2	093A	2008/dec/31	238.59
553779	HEN SOUTHWEST	093A	2008/dec/31	437.86
553784	HEN SOUTHWEST 1	093A	2008/dec/31	119.37
579872	HAP	093A	2009/mar/30	238.78
579879	HAP 2	093A	2009/mar/30	358.25
586994		093A	2009/jun/27	438.03
Total				5610.27

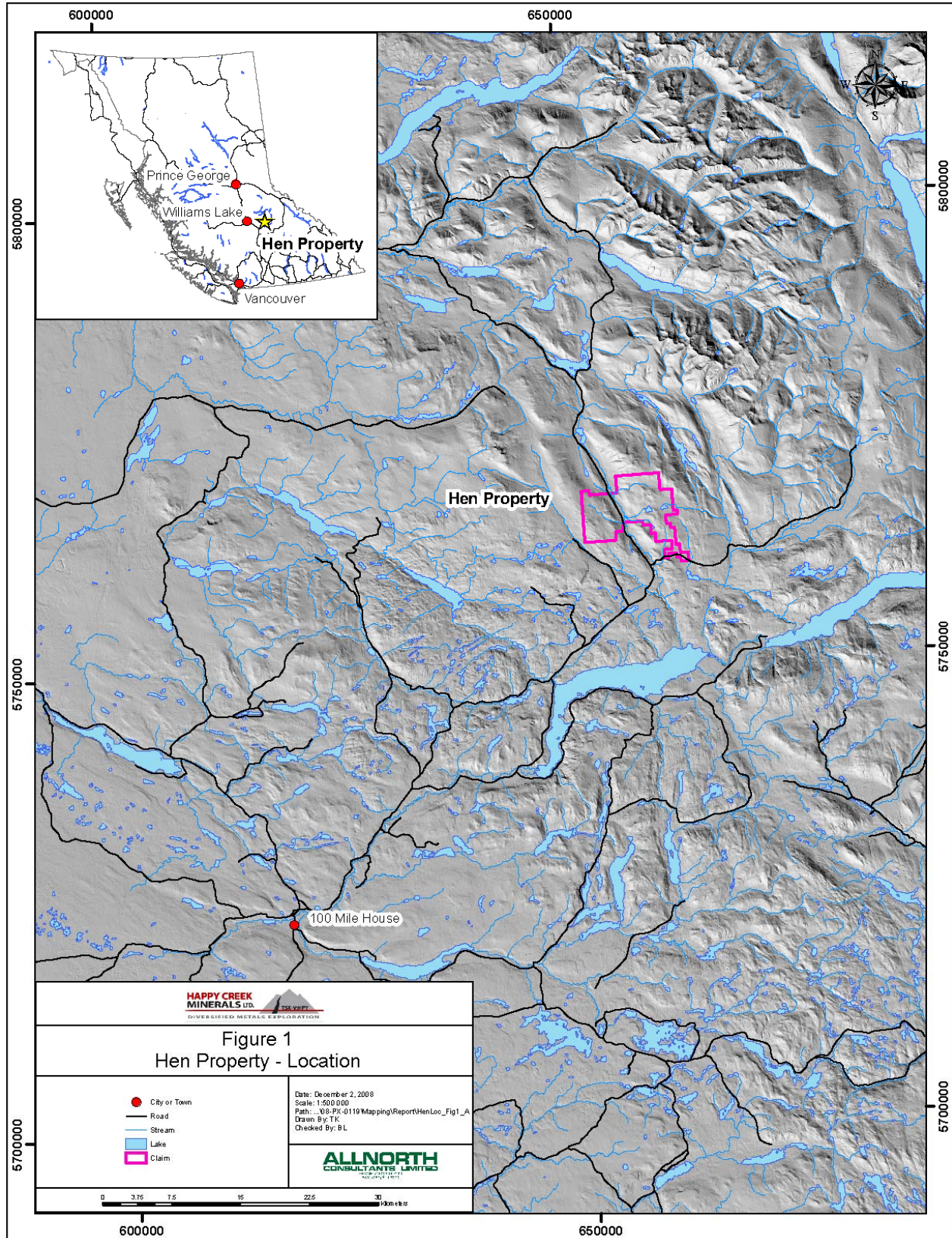


Figure 1: Hen Property Location

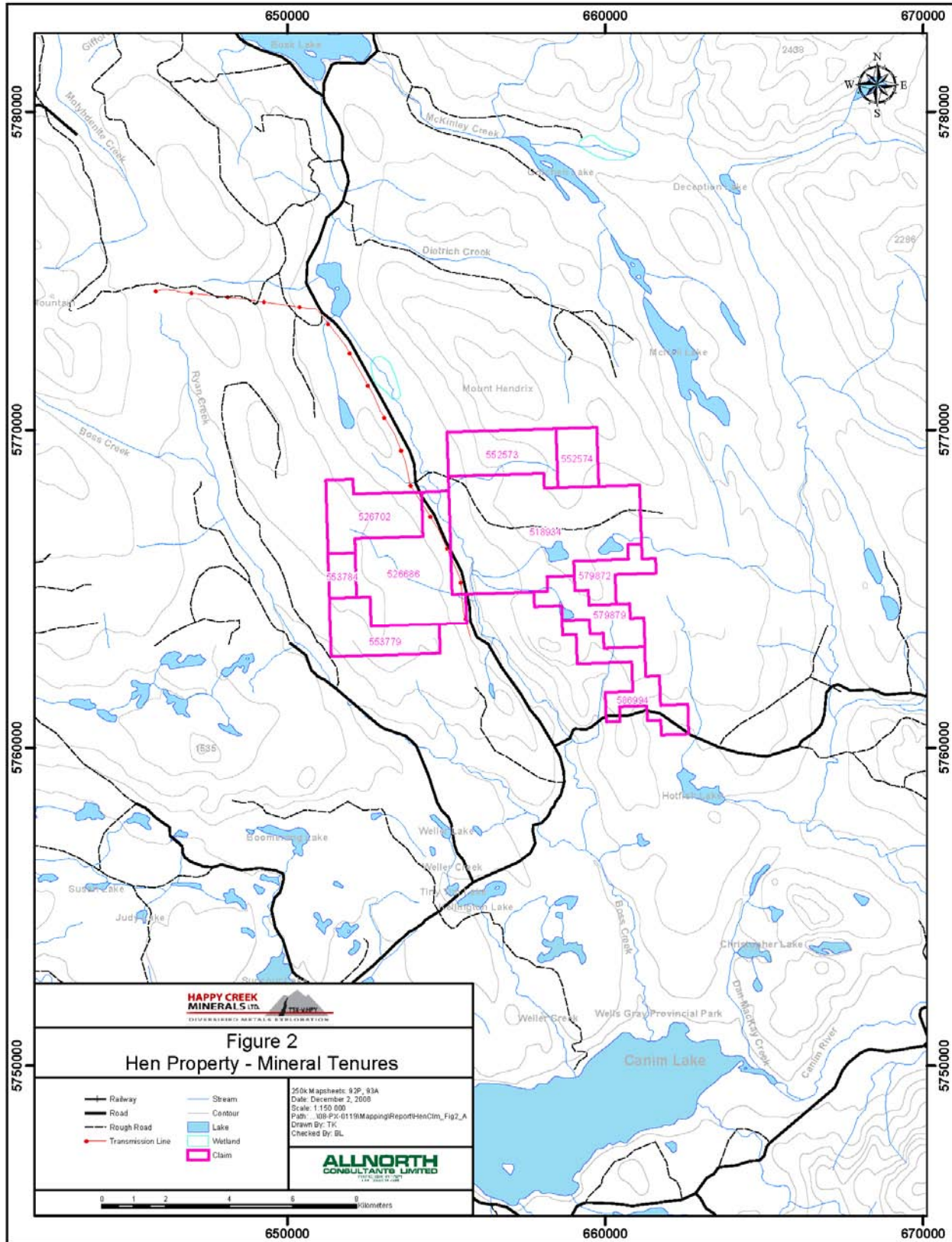


Figure 2: Hen Property Mineral Tenures.

3.3 Physiography and Climate

The Hen property is located within the Interior Wet Belt biogeoclimatic zone of the Quesnel Highlands physiographic region. The property straddles Hendrix Creek and is bisected by a hydro transmission line that provided power to the nearby former Boss Mountain molybdenum mine and currently powers the Hendrix Lake area. Elevations on the property range from 1067 m to about 1800 m asl.

The area has been extensively logged, but 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. Ground cover is dominated by alder and willow saplings as well as wild rose, thimbleberry shrubs and fireweed. The property contains several small swamps, lakes and water courses.

Mineral exploration may be conducted from mid-April to early December. 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. The annual precipitation is an average of 50 cm including winter snowfall.

4. HISTORY

Previous exploration activity dates back to as early as 1982 when D.R. MacQuarrie staked the BOSS claim to cover the potential source area of an anomalous BC government regional geochemical stream sediment sample taken from a drainage on the west side of Hendrix Creek. After a period of inactivity, the Hen property was re-staked by D. Ridley in 1993.

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.

Table 2: Summary of Previous Exploration

Year	Exploration Activities
1982	BOSS claim staked by D.R. MacQuarrie to cover an anomalous BC government stream sample. Preliminary stream and soil sampling survey was conducted by A. and M. Exploration Limited discovering the Anomaly Creek zone.
1992	Prospecting by D. Ridley revealed anomalous float near the 3 km mark of the 6300 road; the Hen claims were staked in late 1992 - early 1993.
1993	Pioneer Metals Corporation optioned the property and conducted a reconnaissance soil and rock sampling program, as well as prospecting and machine trenching.
1994	Pioneer collected 1375 soil samples on 2 grids, 142 rock samples, and 12 silt samples and also drilled 2 core holes and excavated 4 trenches. The Chick and Northwest Marble showings were discovered.

1996	Pioneer conducted 6.5 line-km of VLF-EM survey and drilled 2 more core holes, but later dropped the Hen option and the claims reverted back to Ridley.
1997	Ridley carried out prospecting, geological mapping and reconnaissance soil sampling. The Dike and Southeast Skarn showings were discovered.
1998	Ridley established 10 line-km of grid and conducted prospecting, soil and rock geochemical sampling as well as a VLF-magnetic survey. Property is optioned to TNR Resources Limited and Ivory Oils and Minerals Incorporated.
1999	TNR/Ivory tested a magnetic high anomaly with 2 drill holes, but later dropped the option and the claims reverted back to Ridley.
2004	Ridley and D. Blann (Happy Creek Minerals Ltd) conducted a stream sediment and rock geochemical sampling program along new logging roads in the Anomaly Creek area. Area is identified as potential host to a copper-gold porphyry system.
2006	Happy Creek established 23 line-km of grid and collected 380 soil and 8 rock geochemical samples and identified possible skarn-related gold mineralization at the Hen, Dike and Southeast zones as well as possible copper-gold porphyry-style mineralization at the Anomaly Creek zone.
2007	Happy Creek collected 15 silt, 105 soil and 44 rock geochemical samples and prospected and mapped mainly in the Anomaly Creek area.

5. GEOLOGICAL SETTING

5.1 Regional Geology

The Hen property is located along the eastern border of the Quesnel Terrane, part of the Intermontane Tectonic Belt, in the South Cariboo region of central British Columbia (Figure 3). The area of the Hen property is underlain predominantly by volcanic, volcanoclastic 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).

The Late Triassic to Early Jurassic Takomkane batholith lies along the western margin 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). It is in fault 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 just west of the Hen 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.

Younger rocks include mid-Cretaceous granitic stocks and batholiths, Eocene volcanic and sedimentary rocks, as well as Quaternary basalt (Schiarizza and Boulton, 2006).

5.2 Property Geology, Alteration and Mineralization

The central and eastern parts of the Hen property is underlain primarily by augite-phyric andesitic lava, tuff, breccia, conglomerate, volcanic sandstone, siltstone and minor limestone of the Nicola Group. South of the property, on NTS mapsheet 0922P/15, this unit is referred to as the Breccia Subunit (Schiarizza and Boulton, 2006). The west side, or Anomaly Creek area, of the Hen property is underlain by the composite Late Triassic to Early Jurassic Takomkane batholith. A north-trending fault forms the contact between the western margin of the Takomkane batholith and the Nicola Group rocks to the east. Along the southern fringe of the property, the Early Cretaceous Hendrix stock intrudes Nicola Group stratified rocks. Rare exposures of younger Quaternary basalt locally cap the older rocks.

The Hen area showings occur in the central and eastern half of the property. They are distributed over a 4 km east-west distance north of the generally southeast trending intrusive contact between biotite-hornblende monzodiorite and granodiorite of the Hendrix stock and stratified rocks of the enclosing Nicola Group. The stock was assigned a Cretaceous age by Campbell and Tipper (1971), an interpretation that was confirmed by radiometric dating of zircons from a sample of the intrusion that yielded a late Early Cretaceous date of 104.9 +/-1.9 Ma (Schiarizza and Macauley, 2007).

The moderately north dipping contact is irregular in shape and several related felsic dykes and sills have been injected northward into the country rock. The intrusion has thermally altered the enclosing rock within about 1 km of the contact resulting in the development of weak to intense areas of biotite hornfels and calc-silicate replacements that contain up to 5% pyrrhotite, trace to 3% arsenopyrite and subordinate amounts of pyrite and chalcopyrite. The dominant structural trend for mineralized zones follows a 110° azimuth, subparallel to the intrusive contact (Blann, 2007). Banded quartz, actinolite, tremolite, epidote, biotite, carbonate minerals, K-feldspar and clinopyroxene occur with trace amounts of pyrrhotite, chalcopyrite and arsenopyrite in core from the Hen Main showing (Blann and Ridley, 2006). Carbonate veins locally carry red garnet as well as wollastonite and diopside (Basil and Hancock, 2006). The sulphides typically occur in narrow stringers and as patchy disseminations and are associated with elevated gold values.

The Anomaly Creek area, located in the western half of the property, covers the north-trending contact between mainly augite-phyric flows and tuffs of the Nicola Group and monzodiorite of the Takomkane batholith. The contact is locally exposed, and also corresponds with a wide, north-trending swampy area and a regional airborne magnetic low (Blann, 2007).

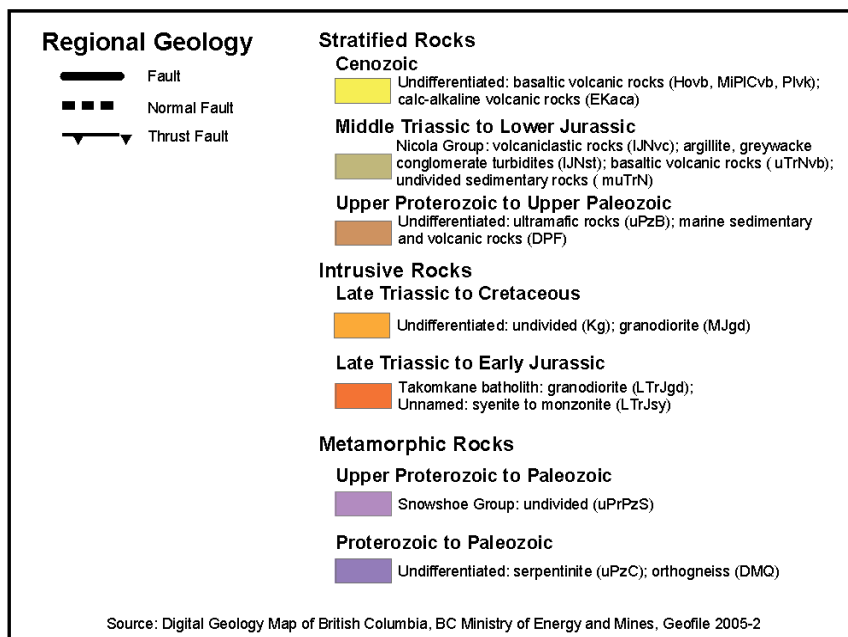
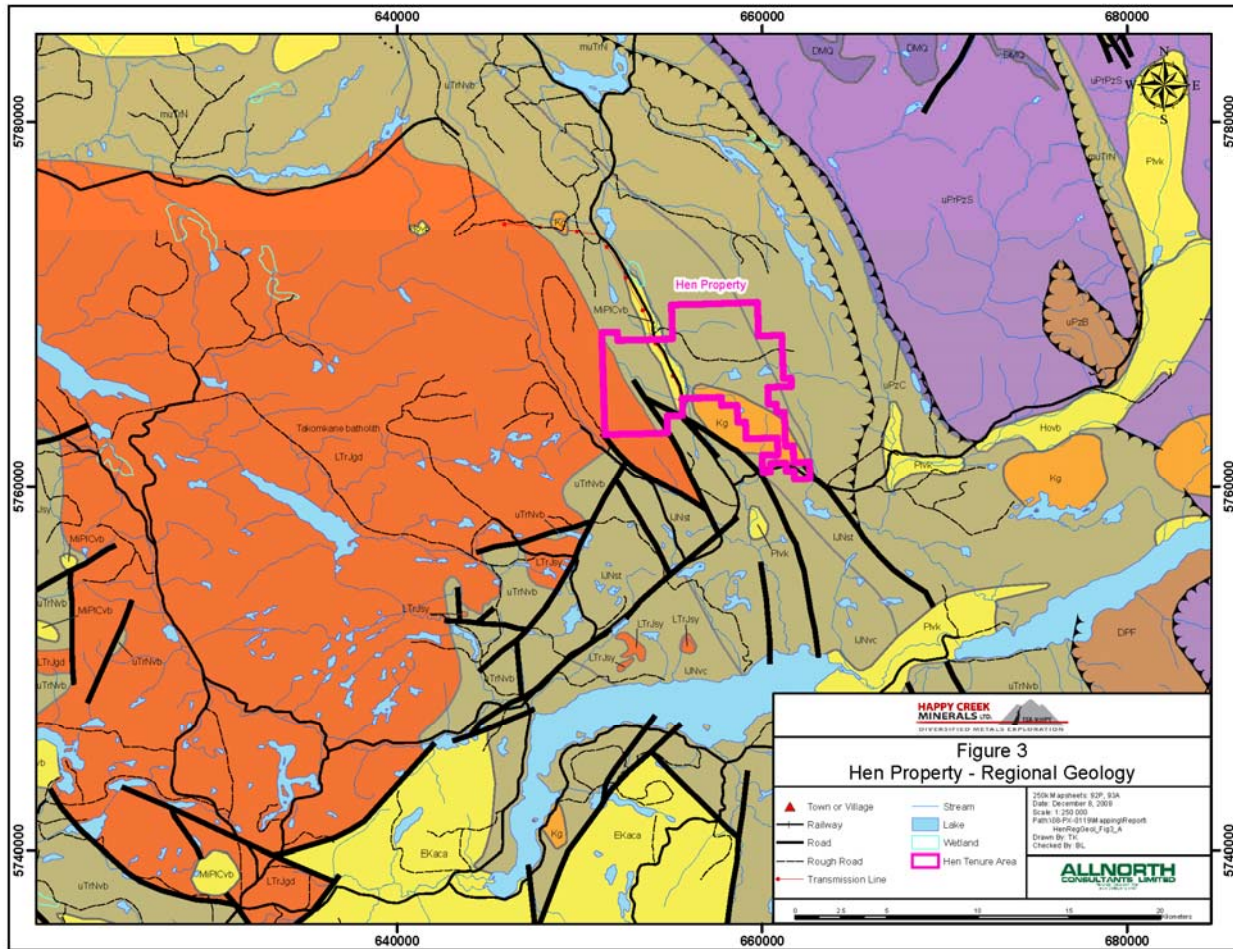


Figure 3: Regional Geology.

Several intermediate to mafic dykes cut the volcanic sequence. Intrusive and volcanic rocks locally display propylitic alteration, silica and K-feldspar alteration and hornfelsing. West of the contact, traces of fracture-controlled pyrite, chalcopyrite and bornite are associated with chlorite – epidote - magnetite and quartz - K-feldspar gangue minerals. East of the contact, trace to 5% pyrite, pyrrhotite, chalcopyrite, sphalerite and galena occur in variably hornfelsed and calc-silicate altered volcanic rocks and/or in associated with chlorite-epidote and quartz-carbonate alteration zones (Blann, 2008).

6. 2008 EXPLORATION PROGRAM

The 2008 exploration program consisted of:

- re-logging and sampling core from diamond drill hole HEN96-4 drilled by Pioneer Metals Corp in 1996;
- property-scale bedrock mapping and prospecting over the Anomaly Creek and Hen areas,
- collection of 160 rock geochemical samples and 68 silt geochemical sample from across the property and a total of 505 grid-based soil geochemical samples, and;
- a ground-based geophysical program that included 26 line-km of magnetometer survey and 15.75 line-km of 3D Induced Polarization survey over part of the Anomaly Creek area.

The program began in May of 2008 and was completed during June to September, 2008.

6.1 Logging of 1996 Drill Core

Core from hole HEN96-4, drilled in 1996 by Pioneer Metals Corp, was re-logged and sampled over its entirety. Hole HEN96-4, was drilled on an azimuth of 195 degrees at a dip of -45 degrees to intercept the projection of weakly anomalous gold mineralization encountered in a trench (Trench 'D') excavated on the Hen zone, but was regarded to have been collared too far to the south to cut the zone (Ridley, 1997). The core was originally logged in 1996, and approximately 30% of the core was sampled with the best intersection occurring over a 0.8 m interval, from 48.4 to 49.2 m, that graded 225 ppm Au and 355 ppm As (Ridley, 1997). Since 1996 the core has been stored in roofed core racks on private property. Re-logging of the core and sampling of the remaining whole core took place in May, 2008. The drill hole collar location, orientation and length are listed in Table 3.

Table 3: Drill Hole Collar Location

DDH Name	UTM Easting	UTM Northing	Elevation (m)	Azimuth	Dip	Length Drilled (m)
HEN96-4	656454	5767158	1375	195°	-45°	153.40

6.1.1 Summary Description: Diamond Drill Hole HEN96-4

Drill hole HEN96-4 encountered bedrock at a depth of 9.14 m and was drilled to a depth of 153.40 m. The hole intersected pale to dark green, locally hornfelsed and skarn altered andesitic tuff from the collar to the end of hole. The tuff takes on a dark brownish black colouration where hornfelsed and is pale brownish green where skarn altered giving the core a mottled appearance. Skarn alteration is defined by the presence of minor diopside and calcite. Stringers of calcite, locally containing trace amounts of pyrrhotite and chalcopyrite, as well as sucrosic epidote, and locally quartz, cut the core at a range of angles.

Fault zones, defined by variable amounts of clay gouge, and intensely broken angular rock occur from 20.42 to 29.00 m and from 35.40 to 44.90 m. Trace to 2% pyrrhotite-pyrite +/- chalcopyrite occur through the section.

A swarm of narrow granodiorite dykes cut the volcanic sequence from 104.7 to 147.00 m with the widest being 1.5 m thick. The dykes are phaneritic with only minor variations in grain size and textures. They display sharp planar contacts and typically contain xenoliths near their upper contacts with the country rock. Phyllic alteration envelopes have developed around some of the dykes

Sulphide mineralization most commonly occurs in localized narrow brecciated zones as coatings on fragment walls and as thin wisps and threads. The dominant sulphide minerals are pyrrhotite (1%), pyrite (1%), marcasite (1%) and chalcopyrite (trace amounts).

6.1.2 Geochemical Results

Sampling of the previously unsampled portions of hole HEN96-4 identified one encouraging gold intersection and background copper values. A total of 35 core samples were selected and submitted for multi-element analysis. Locations of previously sampled core intervals were not always readily identifiable (due to core being 12 years old, poor to absent markings in the core boxes from earlier sampling, and variable core recovery), and some overlap between 1996 and 2008 core sampling did occur.

Geochemical results for gold range from 0.06 ppb to a maximum of 1908.4 ppb. Only one anomalous gold intersection was identified - a 0.86 m interval, between 48.1 and 48.96 m, of altered tuff that graded 1908.4 ppb Au, 4762.5 ppm As and 52.4 ppm Sb (sample 659813). This sample overlaps with a sample taken in 1996 (a 0.8 m interval, from 48.4 to 49.2 m, that graded 225 ppm Au and 355 ppm As).

6.1.3 Methodology and Data Verification

The drill hole was logged for geological and geotechnical properties. All core samples were selected by Allnorth's site geologists. Each section of core to be sampled was clearly identified, marked with a centre line and then halved using a water-cooled diamond saw. Thirty-five (35) core samples were labelled, cut and bagged. Six (6) 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 core sample was split into two parts using a diamond saw. One-half of each core sample was placed back into its core box for permanent storage on the property. The other half of each core sample was placed, with a sample tag, in a labelled polyethylene bag and sealed with a nylon zip tie. Prior to shipment, individual samples were stored in locked garage at a private 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 Laboratory in Vancouver, BC, for multi-element analysis. 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 I: Acme Lab Results and Certificates of Analysis.

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: $RQD = (\text{Sum of } 10) / \text{L}_{\text{tot}} * 100\%$

Where: (Sum of 10) = sum of length of core pieces equal to or longer than 100 mm; and L_{tot} = total length of core run. RQD index is classified using the following Table 4.

Table 4: 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 Hen property was conducted between June 4 and July 18, 2008, by a 5-person team including Mark Ralph, Diana Benz and Sheri Burt (PGeo) and assistants Jason Delaney and Brian Kornichuk. The mapping project was managed by Bob Lane (PGeo).

Mapping focussed on the Anomaly Creek area and the main Hen area. Outcrop on the property is scarce accounting for less than 5% of the claim area. Outcrops are limited in size and are generally restricted to drainages, ridges and road cuts, however prior to the growth of brush in the spring and early summer, mapping in some logged areas of subdued topography also encountered important exposures of bedrock.

The property is primarily underlain by volcanic and sedimentary rocks of the Upper Triassic to Lower Jurassic Nicola Group, and by two granitic intrusions, granodiorite to monzodiorite of the Lower to Middle Jurassic Takomkane batholith and biotite-hornblende monzodiorite and granodiorite of the Cretaceous Hendrix stock (Figure 4, in pocket).

The Nicola Group is composed primarily of a crudely to well-bedded sequence of augite-phyric andesite flows, andesitic tuff and crystal tuff, volcanic conglomerate/ breccia, argillite, siltstone and sandstone. 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 and sedimentary units. The tuffaceous units are typically medium to dark grey and greenish-grey, fine-grained with occasional mm-sized phenocrysts of augite. Locally, augite phenocrysts account for up to 10% of the total rock volume.

Volcanic conglomerate/breccia (map unit Vc) is medium to dark grey or greenish-grey and is comprised of unsorted to poorly sorted subrounded to subangular polymictic pebbles, cobbles and boulders of primarily volcanic material up to about 0.5 metres across. The matrix is composed primarily of tuffaceous material. Argillite (map unit Ar), siltstone (map unit Sl) and sandstone (map unit Sa) form minor components of the volcanic package.

The volcanic units locally display diffuse, discontinuous zones of secondary epidote and chlorite, and locally calcite veining, that represent weak localized propylitic alteration. Less common are narrow zones of silica-flooding. Disseminated pyrite commonly accompanies the alteration.

The two main intrusions, granodiorite to monzodiorite of the Takomkane batholith and biotite-hornblende monzodiorite and granodiorite of the Hendrix stock, crop out on the west and southern areas of the property respectively.

In the Anomaly Creek area, pale gray, medium-grained hornblende-biotite granodiorite of the Takomkane batholith crops out west of the 615 road on the east facing slope. A sample of quartz monzodiorite collected from the Boss Creek area just west of the Hen property, yielded a preliminary U-Pb date of 202.5+/-0.5 Ma (Schiarizza and Macauley, 2007).

The contact between the intrusion and enclosing Nicola Group, while not exposed on the property, is believed to be a north-northwest trending fault. Chlorite-epidote alteration is common and is most pronounced along fractures and joints. The intrusion hosts chalcopyrite-pyrite in narrow fractures with a gangue of chlorite, epidote and K-feldspar, but the mineralization is sparse. The Nicola Group hosts similar fracture-controlled mineralization, but sulphides also occur in weakly developed skarn or calc-silicate replacement zones.

In the south-central part of the Hen property, granodiorite of the Hendrix stock is in contact with, and has caused widespread hornfelsing and calc-silicate alteration of, volcanic and sedimentary strata of the Nicola Group. Near the contact, outcrops of the

Hendrix stock consist of pale gray, medium to coarse-grained biotite-hornblende granodiorite.

6.3 Geochemical Surveys

6.3.1 Soil Geochemical Survey

Grid-based soil geochemical sampling took place on both the Hen and Anomaly Creek areas of the property. Samples were collected at 50 m intervals on grid lines spaced approximately 200 metres apart. Samples were taken from the 'C' soil horizon using either a mattock or tree planting shovel and collected in kraft paper bags, tied closed and hung to dry outdoors for a period of about two weeks. The dried soil samples were then shipped via Greyhound to Acme Analytical Laboratories of Vancouver, BC, for multi-element analysis using ICP-MS methods. Full analytical results are presented in Appendix G and H.

A total of 475 soil samples were collected from the 1500 m by 3000 m 'Hen Main' grid. The Hen Main grid consists of 16 north-south lines spaced 200 m apart and one short intermediate line. Most of the grid is underlain by volcanic and related sedimentary rocks of the Nicola Group and covers several key showings.

The most significant anomaly identified by the survey is a narrow northeast-trending gold anomaly defined by values up to 2648 ppb Au. The linear anomaly extends across four grid lines from the west-central edge of the grid. There are also several one- and two- station anomalies that occur across the grid. Some of the gold anomalies correlate with arsenic and/or antimony, but the relation between the three elements is uncertain. A copper geochemical anomaly, with values ranging up to 287.5 ppm Cu, occurs in an east-west band that trends the length of the Hen grid. Soil geochemical results are plotted for gold, arsenic, antimony and copper (figures 6 through 9).

A total of 30 soil samples were collected from a small addition to the southwest corner of the pre-existing Anomaly Creek grid. A 250 by 800 metre area was covered by five 300 m lines that extended westward from the baseline (at 20+00E) to determine if a previously identified gold geochemical anomaly extended further to the west. Because of its small sample population, results from the 2008 geochemical survey are plotted with results from the 2007 survey. Unfortunately, the additional 2008 soil sampling did not extend the anomaly. However, as previously reported by Blann (2008), there is a significant gold-copper-lead-zinc soil geochemical anomaly located east of the Takomkane-Nicola contact in the southeast area of the Anomaly Creek grid. The polymetallic soil anomaly covers more than a 1000 m by 1000 m area and includes rock samples that contain up to 646 ppb Au, 3676 ppm Cu, 516 ppm Pb and 1145 ppm Zn.

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. The assay certificates are located in Appendix H: Geochemical Survey Soil, Silt and Rock Acme Lab Certificates.

Table 5: Statistical Results for 2008 Soil Samples

# of Samples = 506				Percentiles		
	Min*	Max	Mean	80%	90%	95%
Gold (Au ppb)	0.25	2648.00	12.71	5.50	7.80	12.09
Arsenic (As ppm)	1.3	764.4	24.9	27.1	37.1	60.7
Antimony (Sb ppm)	0.2	8.3	0.1	1.4	2.0	2.5

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

6.3.2 Silt Geochemical Survey

A total of 68 silt samples were collected from across the Hen property in 2008. Silt samples were collected in standard kraft bags, tied closed and air dried at room temperature for 2 to 3 weeks before being shipped to Acme Analytical Laboratories in Vancouver, BC, for multi-element analysis using ICP-MS methods. Sample locations are shown on figures 4, 5 and 10 and results for selected elements are shown on figures 6 through 9 for the Hen area and on figures 11 through 14 for the Anomaly Creek area.

The silt geochemical results for gold ranged from a low of 0.8 ppb Au to a high of 38.6 ppb Au (sample#: HEN08 TRS-05). The high gold sample was taken from a creek north of the Hen Main grid near the northern edge of the claim group that drains an area underlain primarily by augite-phyric flows. The area does not coincide with any known showings. All of the remaining gold values do not exceed 8.3 ppm Au.

All samples were dried at 60°C, 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. The assay certificates are presented in Appendix H.

6.3.3 Rock Geochemical Survey

A total of 160 rock geochemical samples were collected from across the Hen property in 2008. Samples were secured in labelled polyethylene bags and shipped to Acme Analytical Laboratories in Vancouver, BC, for analysis using ICP-MS methods. Sample locations are shown on figures 4, 5 and 10 and results for selected elements are shown on figures 6 through 9 for the Hen area and on figures 11 through 14 for the Anomaly Creek area.

The bulk of the rock geochemical samples came from the central part of the Hen property. A number of rock samples returned anomalous gold values with the

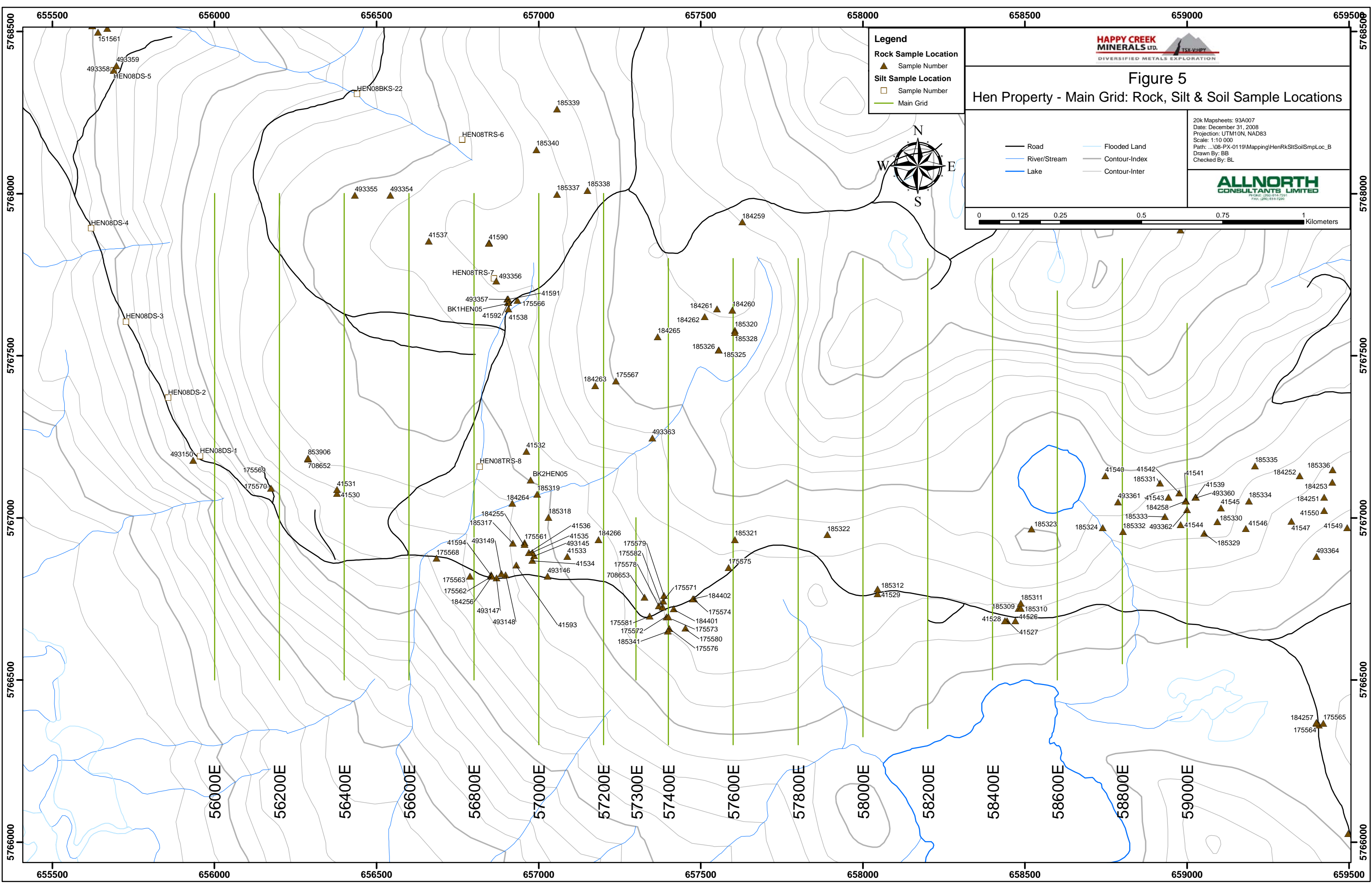
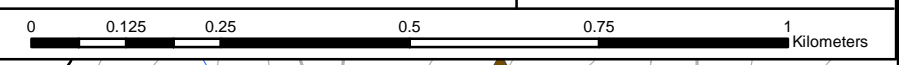


Figure 5
 Hen Property - Main Grid: Rock, Silt & Soil Sample Locations

Legend
Rock Sample Location
 ▲ Sample Number
Silt Sample Location
 □ Sample Number
 — Main Grid

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

20k Mapsheets: 93A007
 Date: December 31, 2008
 Projection: UTM10N, NAD83
 Scale: 1:10 000
 Path: ...08-PX-0119\Mapping\HenRkSltSoilSmpLoc_B
 Drawn By: BB
 Checked By: BL



Map grid coordinates (Easting and Northing) are displayed along the edges. Sample locations are labeled with numbers such as 151561, 493359, 493358, HEN08DS-5, HEN08BKS-22, HEN08TRS-6, 185339, 185340, 185337, 185338, 493355, 493354, 41537, 41590, 184259, HEN08TRS-7, 493356, 41591, 493357, 175566, 184261, 184260, 184265, 184262, 185320, 185328, 185326, 185325, 184263, 175567, 493363, 184264, 185319, 185318, 41532, BK2HEN05, 184255, 185317, 41536, 41535, 493145, 41533, 184266, 185321, 185322, 41594, 493149, 175561, 175579, 175582, 175578, 175568, 175563, 175562, 184256, 493147, 493148, 41593, 708653, 175571, 184402, 175574, 184401, 175573, 175580, 175576, 185341, 175581, 175572, 185312, 185311, 185310, 185309, 44526, 41528, 41527, 41540, 41542, 185331, 41541, 41539, 493360, 41545, 185334, 184258, 185333, 185332, 493362, 41544, 185330, 41546, 185329, 185335, 184252, 185336, 184253, 184251, 184255, 41550, 41547, 41549, 493364, 184257, 175565, 175564.

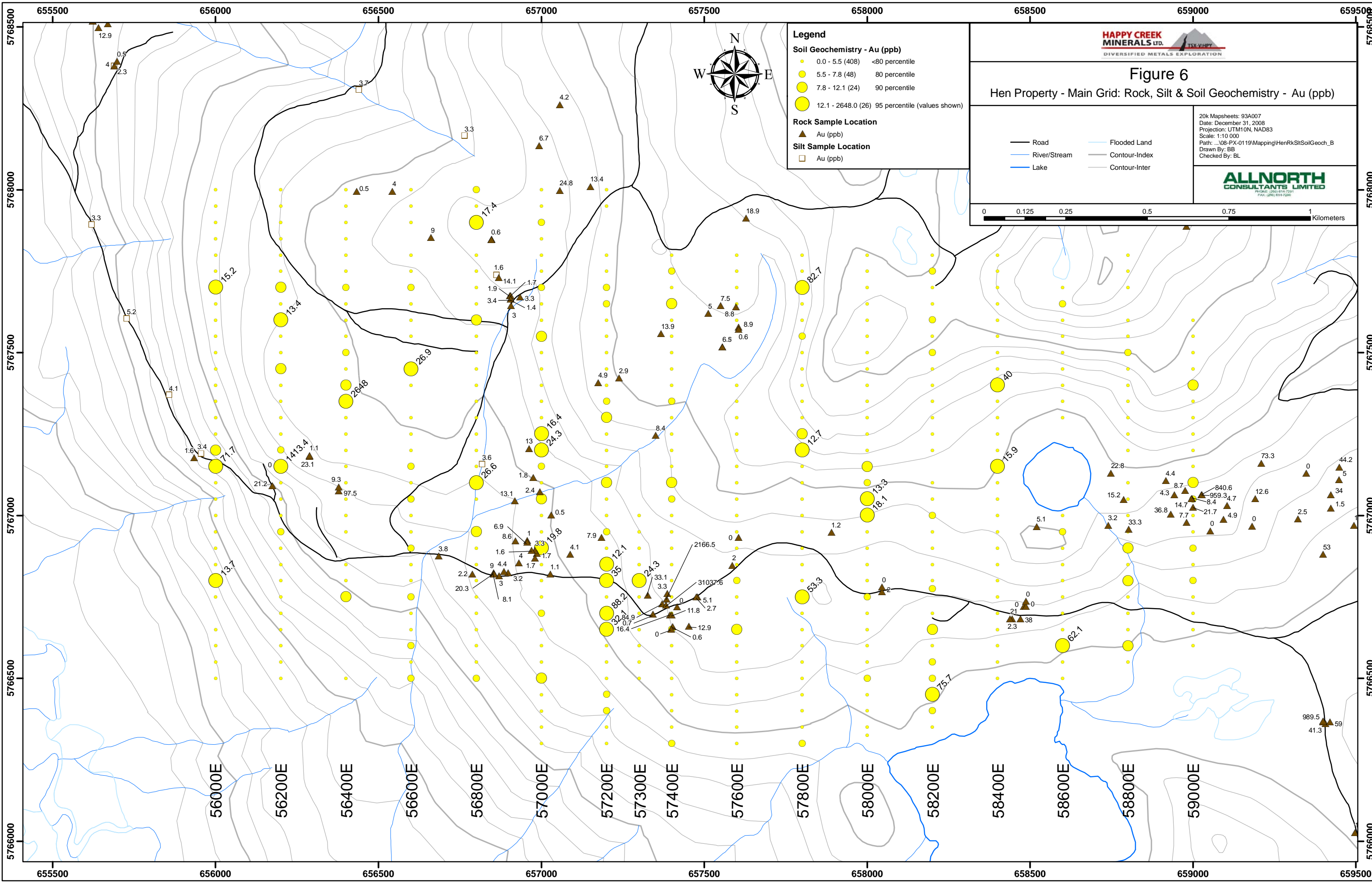


Figure 6

Hen Property - Main Grid: Rock, Silt & Soil Geochemistry - Au (ppb)

Legend

Soil Geochemistry - Au (ppb)

- 0.0 - 5.5 (408) <80 percentile
- 5.5 - 7.8 (48) 80 percentile
- 7.8 - 12.1 (24) 90 percentile
- 12.1 - 2648.0 (26) 95 percentile (values shown)

Rock Sample Location

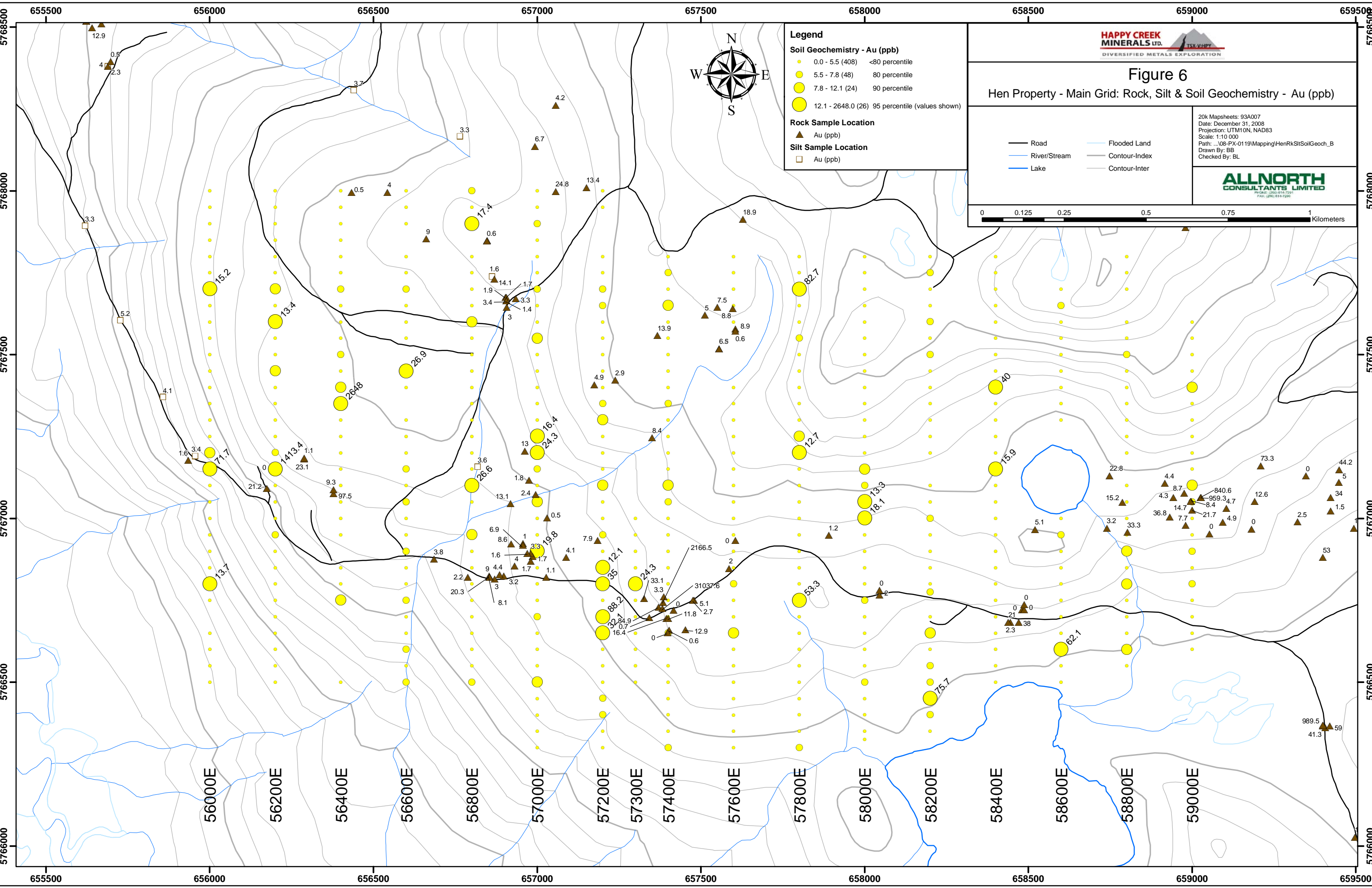
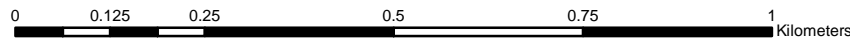
- ▲ Au (ppb)

Silt Sample Location

- Au (ppb)

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

20k Mapsheets: 93A007
 Date: December 31, 2008
 Projection: UTM10N, NAD83
 Scale: 1:10 000
 Path: ...08-PX-0119\Mapping\HenRkSltSoilGeochem_B
 Drawn By: BB
 Checked By: BL



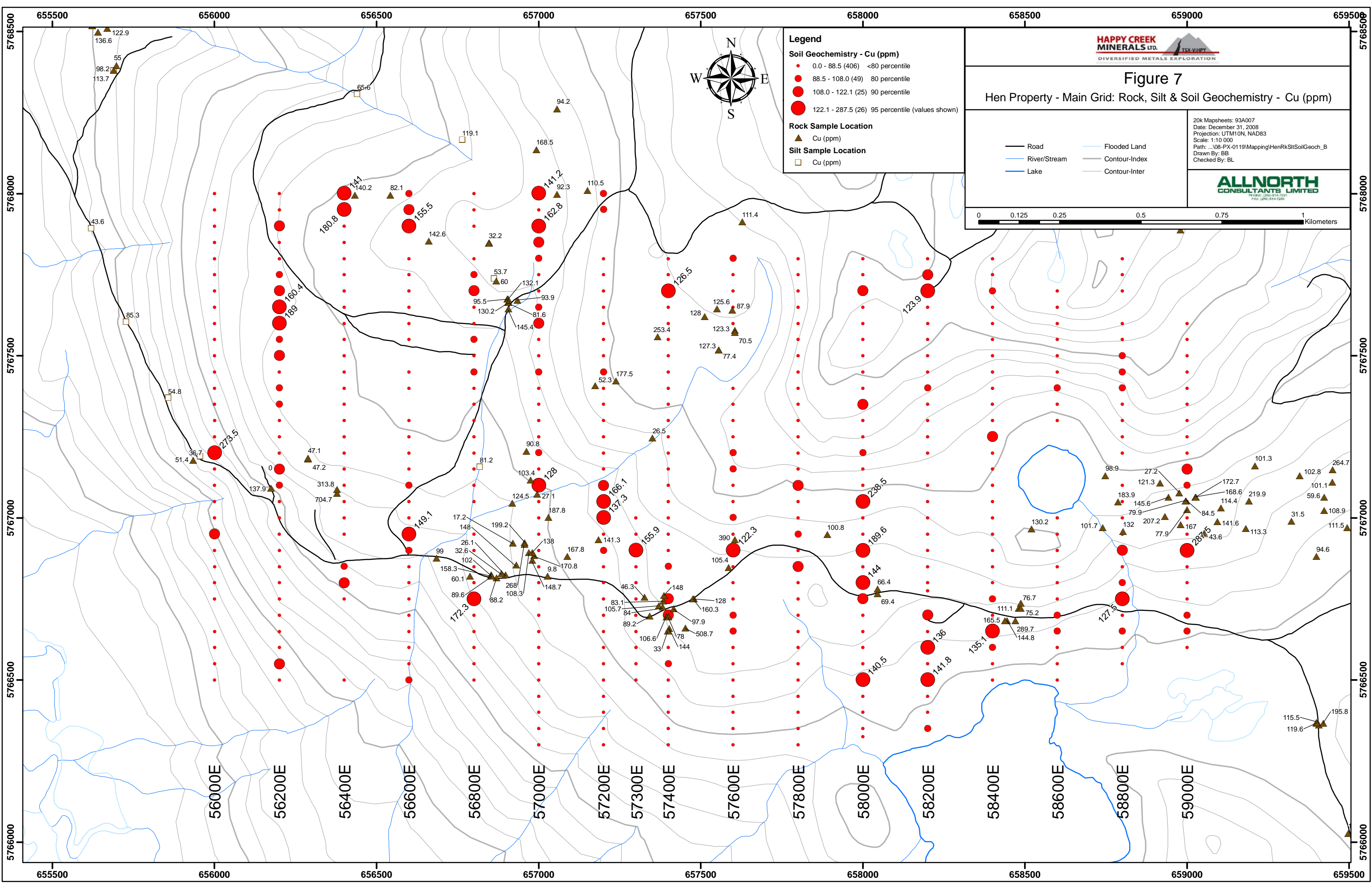


Figure 7

Hen Property - Main Grid: Rock, Silt & Soil Geochemistry - Cu (ppm)

Legend

Soil Geochemistry - Cu (ppm)

- 0.0 - 88.5 (406) <80 percentile
- 88.5 - 108.0 (49) 80 percentile
- 108.0 - 122.1 (25) 90 percentile
- 122.1 - 287.5 (26) 95 percentile (values shown)

Rock Sample Location

- Cu (ppm)

Silt Sample Location

- Cu (ppm)

— Road

— River/Stream

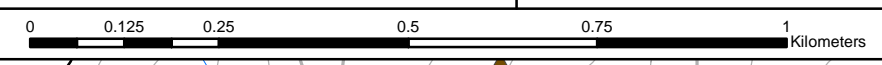
— Lake

— Flooded Land

— Contour-Index

— Contour-Inter

20k Mapsheets: 93A007
Date: December 31, 2008
Projection: UTM10N, NAD83
Scale: 1:10 000
Path: ...08-PX-0119\Mapping\HenRkSltSoilGeochem_B
Drawn By: BB
Checked By: BL



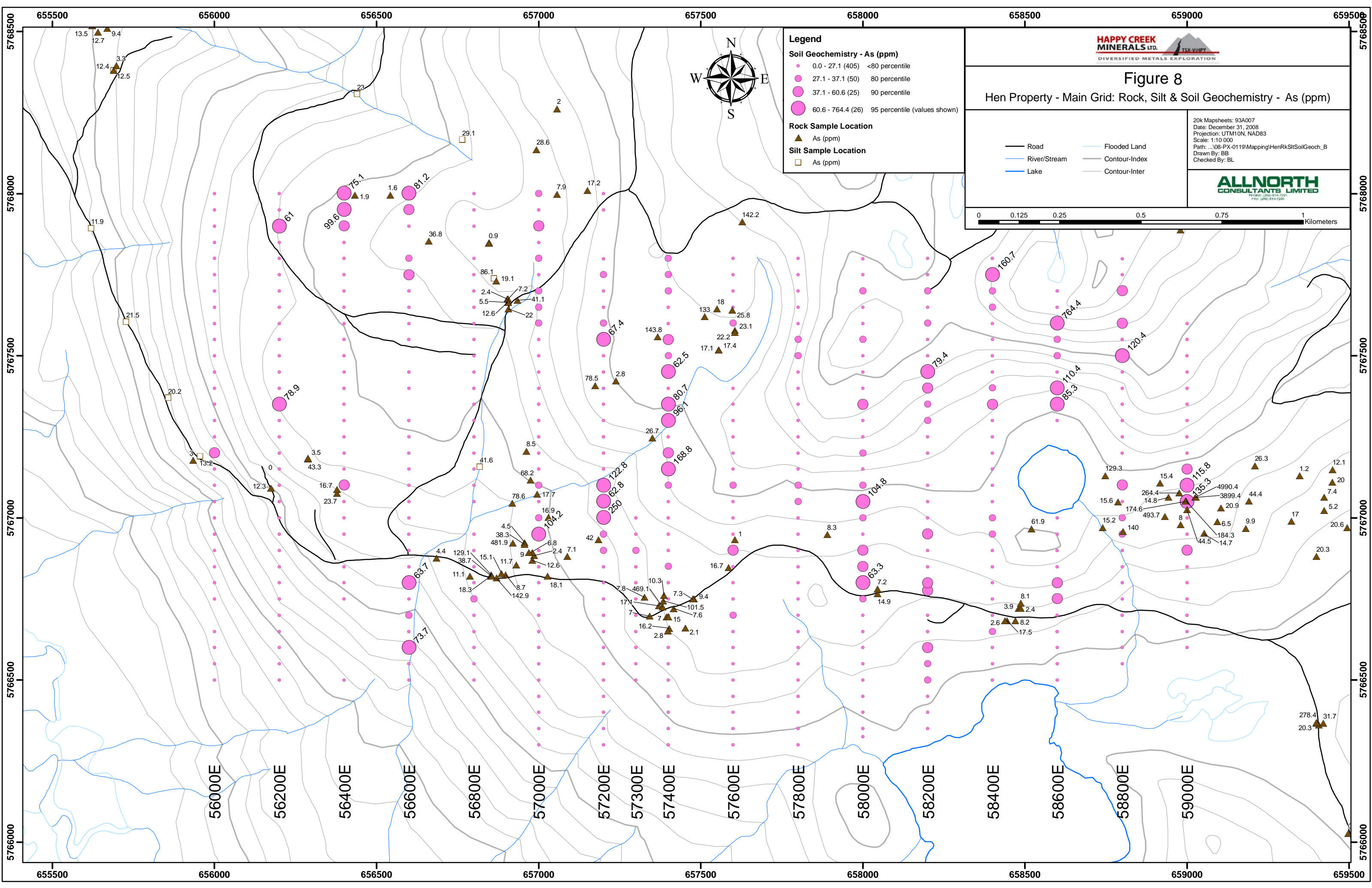


Figure 8
 Hen Property - Main Grid: Rock, Silt & Soil Geochemistry - As (ppm)

Legend

Soil Geochemistry - As (ppm)

- 0.0 - 27.1 (405) <80 percentile
- 27.1 - 37.1 (50) 80 percentile
- 37.1 - 60.6 (25) 90 percentile
- 60.6 - 764.4 (26) 95 percentile (values shown)

Rock Sample Location

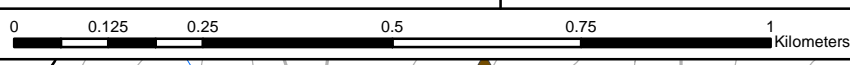
- ▲ As (ppm)

Silt Sample Location

- ◻ As (ppm)

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

20k Mapsheets: 93A007
 Date: December 31, 2008
 Projection: UTM10N, NAD83
 Scale: 1:10 000
 Path: ...08-PX-0119\Mapping\HenRktSiltSoilGeochem_B
 Drawn By: BB
 Checked By: BL



56000E 56200E 56400E 56600E 56800E 57000E 57200E 57300E 57400E 57600E 57800E 58000E 58200E 58400E 58600E 58800E 59000E

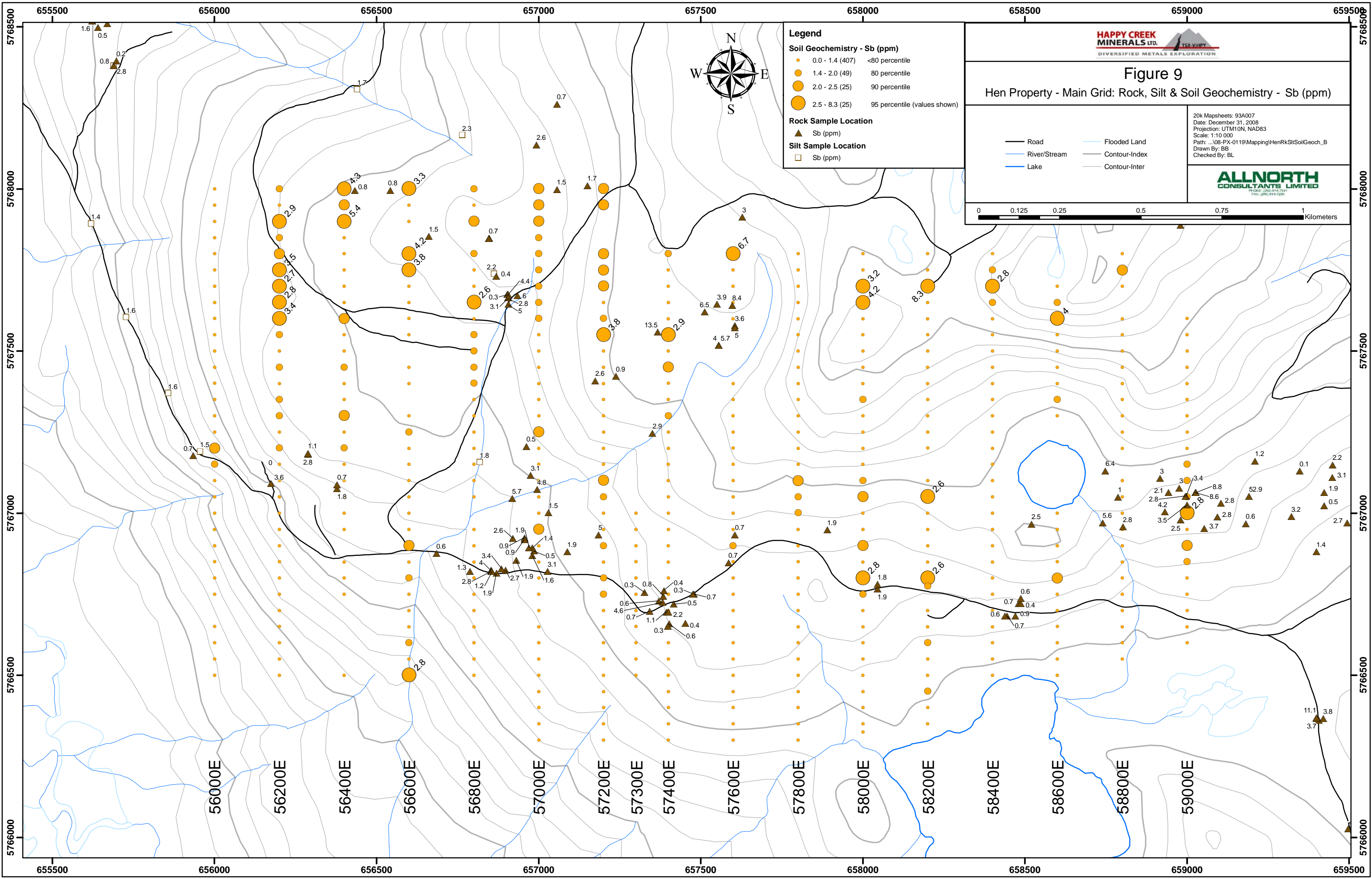


Figure 9
 Hen Property - Main Grid: Rock, Silt & Soil Geochemistry - Sb (ppm)

Legend

Soil Geochemistry - Sb (ppm)

- 0.0 - 1.4 (407) <80 percentile
- 1.4 - 2.0 (49) 80 percentile
- 2.0 - 2.5 (25) 90 percentile
- 2.5 - 8.3 (25) 95 percentile (values shown)

Rock Sample Location

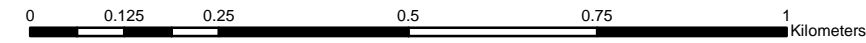
- ▲ Sb (ppm)

Silt Sample Location

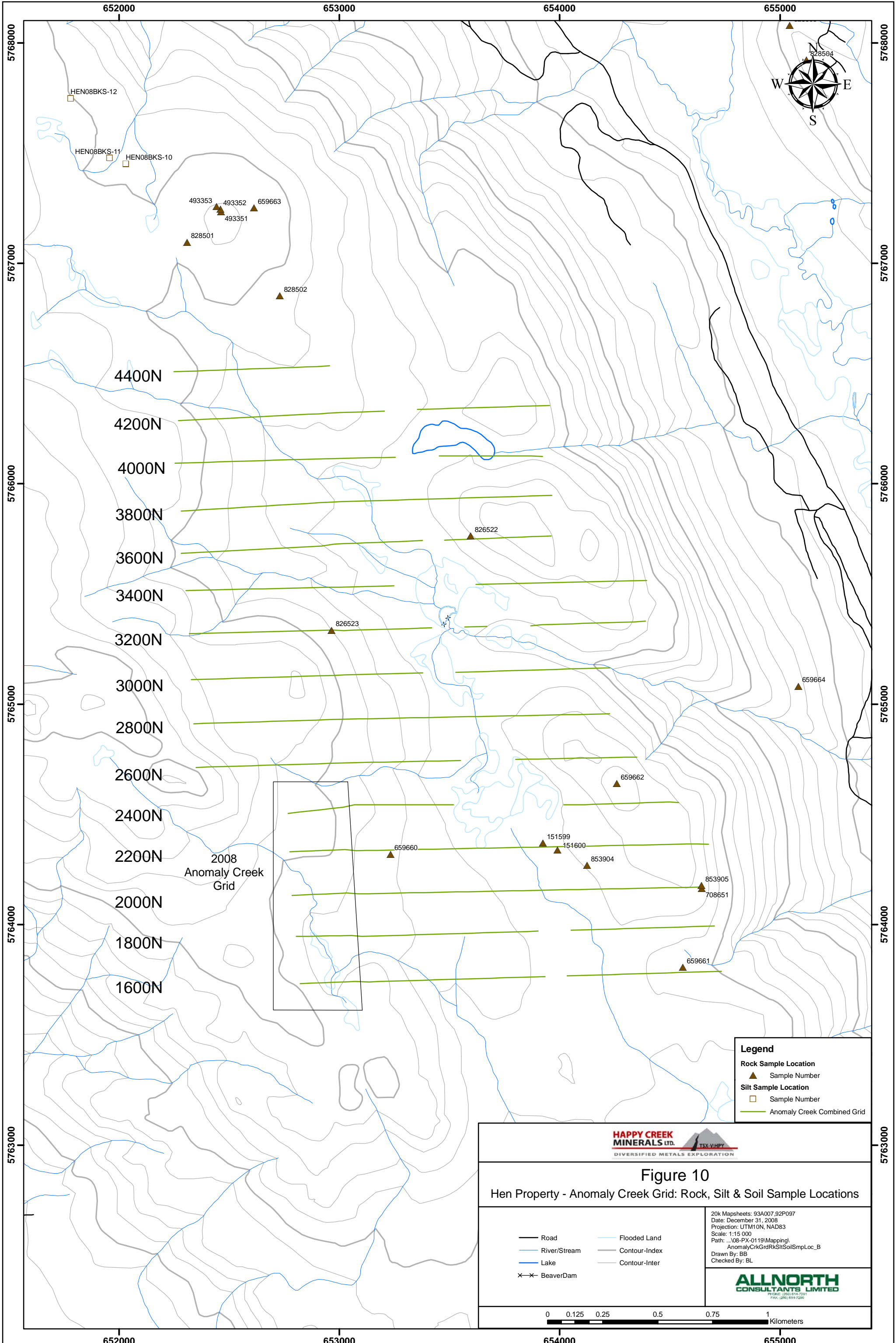
- Sb (ppm)

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

20k Mapsheets: 93A007
 Date: December 31, 2008
 Projection: UTM10N, NAD83
 Scale: 1:10 000
 Path: ...08-PX-0119\Mapping\HenRkSltSoilGeochem_B
 Drawn By: BB
 Checked By: BL



56000E 56200E 56400E 56600E 56800E 57000E 57200E 57300E 57400E 57600E 57800E 58000E 58200E 58400E 58600E 58800E 59000E



Legend

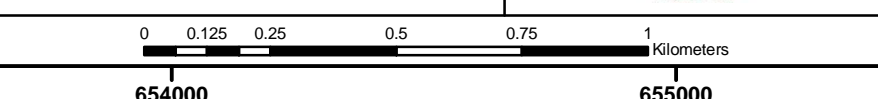
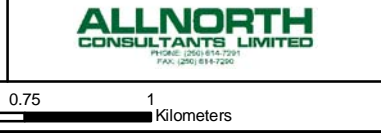
- Rock Sample Location**
 - ▲ Sample Number
- Silt Sample Location**
 - ◻ Sample Number
- Anomaly Creek Combined Grid



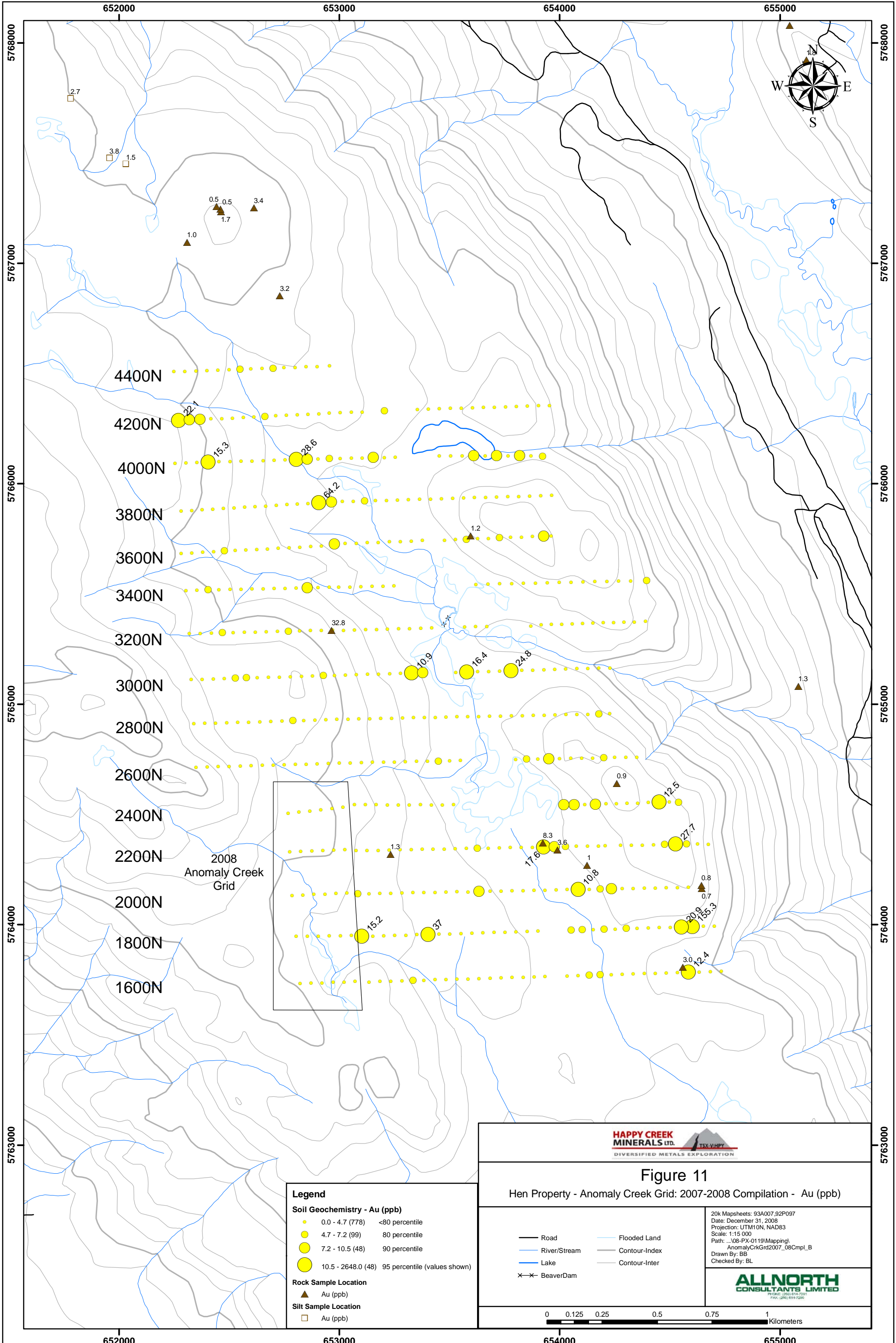
Figure 10
Hen Property - Anomaly Creek Grid: Rock, Silt & Soil Sample Locations

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

20k Mapsheets: 93A007,92P097
 Date: December 31, 2008
 Projection: UTM10N, NAD83
 Scale: 1:15 000
 Path: ..\08-PX-0119\Mapping\AnomalyCrkGrdRkSiltSmpLoc_B
 Drawn By: BB
 Checked By: BL



652000 653000 654000 655000



4400N
4200N
4000N
3800N
3600N
3400N
3200N
3000N
2800N
2600N
2400N
2200N
2000N
1800N
1600N

2008
Anomaly Creek
Grid

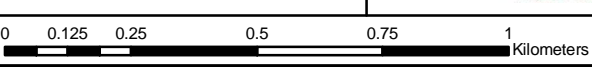
- Legend**
- Soil Geochemistry - Au (ppb)**
- 0.0 - 4.7 (778) <80 percentile
 - 4.7 - 7.2 (99) 80 percentile
 - 7.2 - 10.5 (48) 90 percentile
 - 10.5 - 2648.0 (48) 95 percentile (values shown)
- Rock Sample Location**
- ▲ Au (ppb)
- Silt Sample Location**
- Au (ppb)



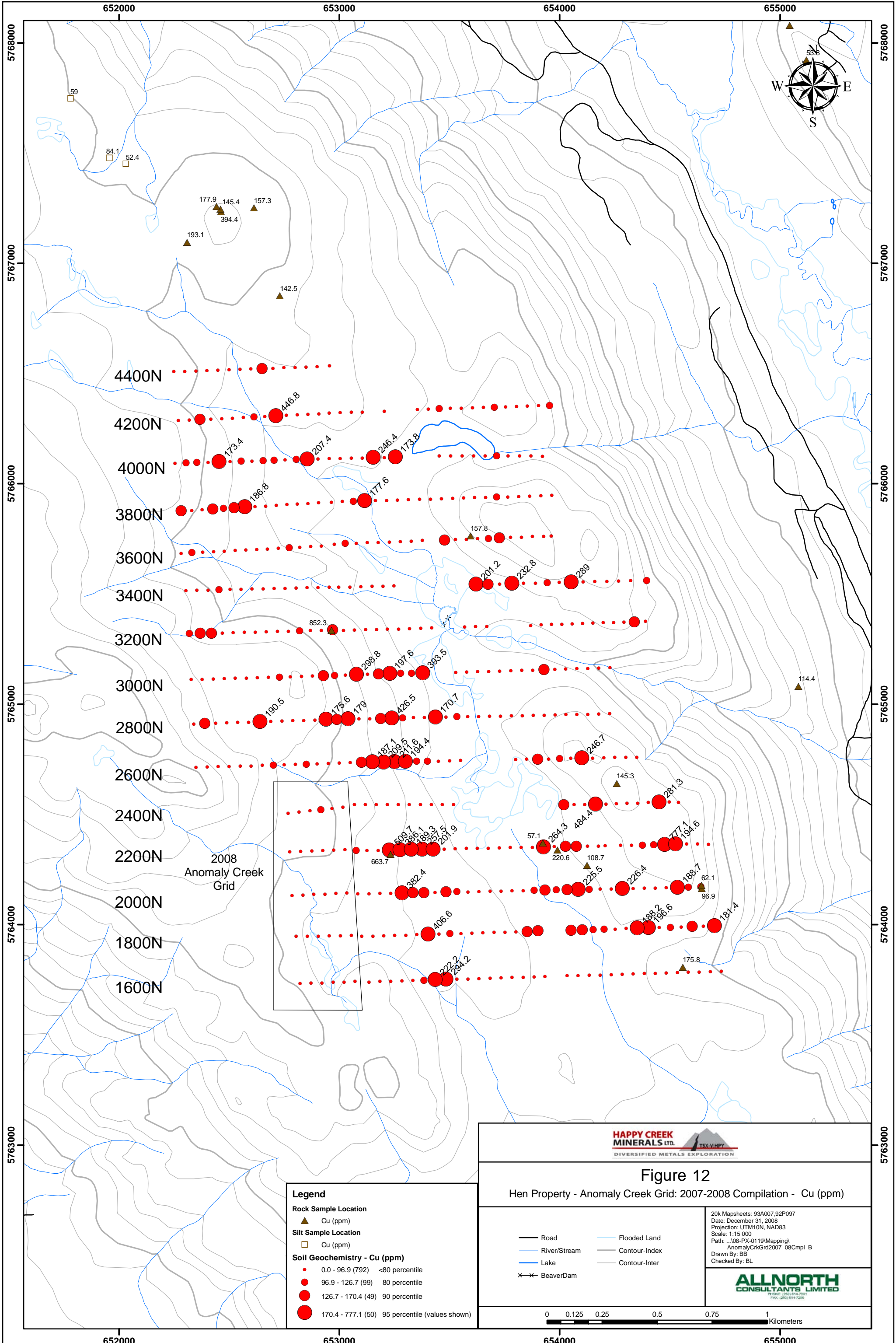
Figure 11
Hen Property - Anomaly Creek Grid: 2007-2008 Compilation - Au (ppb)

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

20k Mapsheets: 93A007_92P097
Date: December 31, 2008
Projection: UTM10N, NAD83
Scale: 1:15 000
Path: ...08-PX-019\Mapping\AnomalyCrkGrd2007_08Cmpl_B
Drawn By: BB
Checked By: BL



652000 653000 654000 655000



4400N
4200N
4000N
3800N
3600N
3400N
3200N
3000N
2800N
2600N
2400N
2200N
2000N
1800N
1600N

2008
Anomaly Creek
Grid

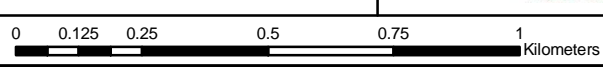
Legend		
Rock Sample Location		
▲	Cu (ppm)	
Silt Sample Location		
□	Cu (ppm)	
Soil Geochemistry - Cu (ppm)		
●	0.0 - 96.9 (792)	<80 percentile
●	96.9 - 126.7 (99)	80 percentile
●	126.7 - 170.4 (49)	90 percentile
●	170.4 - 777.1 (50)	95 percentile (values shown)



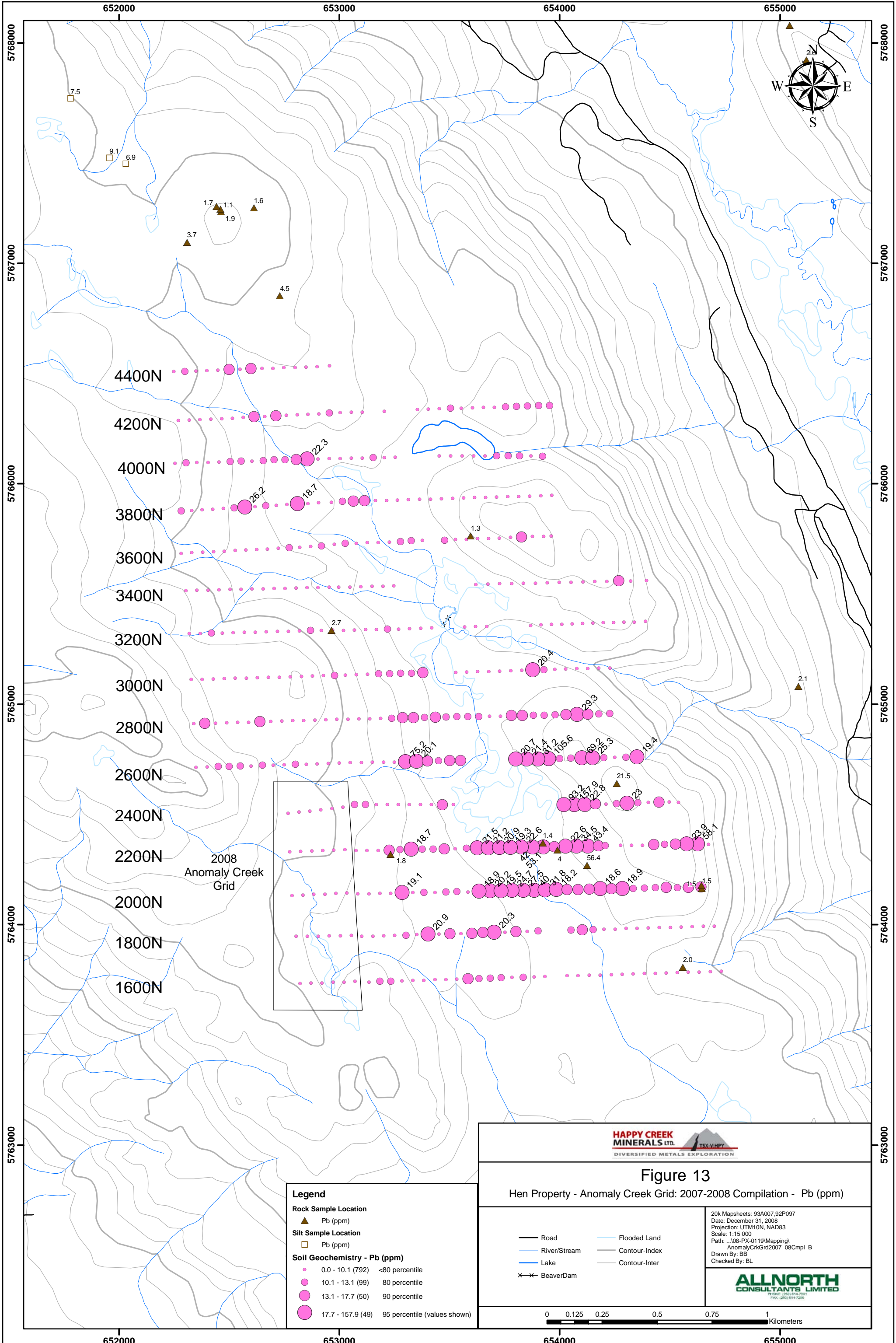
Figure 12
Hen Property - Anomaly Creek Grid: 2007-2008 Compilation - Cu (ppm)

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

20k Mapsheets: 93A007_92P097
Date: December 31, 2008
Projection: UTM10N, NAD83
Scale: 1:15 000
Path: ...08-PX-019\Mapping\AnomalyCnkGrd2007_08Cmpl_B
Drawn By: BB
Checked By: BL



65200 65300 65400 65500



4400N
4200N
4000N
3800N
3600N
3400N
3200N
3000N
2800N
2600N
2400N
2200N
2000N
1800N
1600N

2008
Anomaly Creek
Grid

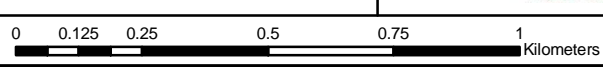
Legend		
Rock Sample Location		
	Pb (ppm)	
Silt Sample Location		
	Pb (ppm)	
Soil Geochemistry - Pb (ppm)		
	0.0 - 10.1 (792)	<80 percentile
	10.1 - 13.1 (99)	80 percentile
	13.1 - 17.7 (50)	90 percentile
	17.7 - 157.9 (49)	95 percentile (values shown)



Figure 13
Hen Property - Anomaly Creek Grid: 2007-2008 Compilation - Pb (ppm)

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

20k Mapsheets: 93A007_92P097
Date: December 31, 2008
Projection: UTM10N, NAD83
Scale: 1:15 000
Path: ...08-PX-019\Mapping\AnomalyCkGrd2007_08Cmpl_B
Drawn By: BB
Checked By: BL



652000 653000 654000 655000

best grab sample coming from the Dike showing: sample 175582 graded 31,037.6 ppb Au, 6.2 ppm Ag, 469.1 ppm As and 4.6 ppm Sb.

The highest arsenic result was from the Ledge showing area: sample 184254 graded >10,000 ppm As and 1007.7 ppb Au.

Rock samples that were anomalous in gold were consistently anomalous in arsenic, however the inverse relationship does not hold up (i.e. sample 175577 graded 562.4 ppm As and just 8.6 ppb Au). Therefore, arsenic should not be depended upon as a pathfinder for gold.

Eighteen rock geochemical samples were collected from the Anomaly Creek area in 2008. Geochemical results were modest with the highest copper grades coming from two samples of weakly mineralized granodiorite: sample 826523 graded 852.3 ppm Cu and 32.8 ppb Au; sample 659660 graded 663.7 ppm Cu and 1.3 ppb Au.

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 these analytical procedures. The assay certificates are located in Appendix H: Geochemical Survey Soil, Silt and Rock Acme Lab Certificates.

6.4 Geophysical Survey

Ground magnetic and three-dimensional induced polarization (3D IP) surveys were completed over the Anomaly Creek soil grid area by SJ Geophysics Ltd in June, 2008. The SJ Geophysics 'Logistics Report' for the geophysical surveys is presented in Appendix I along with the plans and sections for the two surveys.

A total of 16 east-west trending lines, ranging from 0.7 to 2.1 km in length and spaced 200 m apart, covered the northwest-trending contact between the Takomkane batholith and Nicola volcanics. Survey stations were marked at 50 m intervals along each line. The magnetometer survey was completed over 26 km of grid line, covering lines 1600N to 4400N, and the 3D IP survey was completed over 15.75 km of grid line, covering lines 1600N to 3200N.

The magnetic survey clearly defined the north-westerly trending contact between the Takomkane batholith on the west, which is relatively strongly magnetic, from the Nicola Group on the east which is relatively weakly magnetic. Several small magnetic highs occur east of the contact, and may represent small plugs or buried stocks. The most prominent of these occurs on line 2400N and covers more than 400 metres in an east-west direction. This magnetic high coincides with features identified in the 3D-IP survey.

On the 3D IP survey, the Takomkane-Nicola contact falls along the western edge of a north-northwest trending chargeability high. Further east, several interesting chargeable

zones persist from surface to a depth of more than 250 metres, particularly on the eastern parts of lines 2000N, 2200, 2400N and 2600N. On the chargeable depth plan maps, the chargeable zones form an annular pattern that is centred between lines 2200N and 2400N. The annular chargeability feature coincides with an east-west linear resistivity low, centred on line 2400N, that separates two highly resistive zones. The resistivity features also persist to depth.

The coincidence of a relative magnetic high, coupled with an annular chargeability high and linear resistivity low make for a compelling target for further evaluation.

7. INTERPRETATION AND CONCLUSIONS

The Hen property is situated in the prospective Quesnel Terrane and is underlain primarily by Upper Triassic to Lower Jurassic volcanic and sedimentary 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. On the south side of the property the stratified rocks are in intrusive contact with biotite-hornblende monzodiorite and granodiorite of an unnamed Early Cretaceous stock. Previous work on the property identified numerous gold-enriched skarn showings in the central and eastern parts of the property. In these areas of the property, hornfels and biotite-garnet-diopside skarn are accompanied by pyrrhotite, pyrite, chalcopyrite and arsenopyrite, and anomalous levels of gold, silver and arsenic. The alteration and mineralization is spatially and genetically related to the emplacement of an Early Cretaceous stock. Previous work in the western part of the property outlined a copper-gold-lead-zinc geochemical anomaly that may be indicative of a bulk tonnage porphyry system.

The 2008 exploration program consisted of re-logging and sampling core from one of two holes drilled by Pioneer Metals Corp in 1996, bedrock mapping of the Anomaly Creek and Hen areas, grid-based soil geochemical sampling of part of the Anomaly Creek area and part of the Hen area and prospecting and reconnaissance silt and rock geochemical sampling across the property. A total of 505 soil geochemical samples, 68 silt geochemical samples and 160 rock geochemical samples were collected during the program. In addition, SJ Geophysics Ltd completed a ground-based geophysical program including 26 line-km of magnetometer survey and 15.75 line-km of 3D Induced Polarization survey over part of the Anomaly Creek area.

Re-logging and sampling of core from diamond drill hole HEN96-4 encountered variably hornfelsed and calc-silicate altered andesitic tuff. A total of 35 core samples were submitted for multi-element analysis. One significant interval of gold mineralization was encountered returning 1908.4 ppb gold over 0.86 m, from 48.10 to 48.96 m depth. Copper values were consistently in the 100 ppm Cu range.

The most significant soil geochemical anomaly identified was a narrow northeast-trending, 800 m long gold anomaly on the Hen grid, defined by values up to 2648 ppb Au. The silt geochemical results for gold ranged from a low of 0.8 ppb Au to a high of 38.6 ppb Au (sample HEN08TRS-05). The high gold sample was taken from a creek north of the Hen grid near the northern edge of the claim group that drains an area (off the property) underlain primarily by augite-phyric flows. Several grab samples of bedrock mineralization collected from the area of the Dike skarn showing returned anomalous gold values including sample 175582 which graded 31,037.6 ppb Au, 6.2 ppm Ag and 469.1 ppm As. The Dike skarn showing has returned the most consistently encouraging rock geochemical results for gold, but has not yet been systematically evaluated.

The magnetic and 3D-IP geophysical surveys completed on the Anomaly Creek grid in 2008 confine the contact between the Takomkane batholith and enclosing Nicola Group to a narrow, north-trending corridor. More importantly, the surveys have identified a very prospective exploration target east of the contact that requires further exploration. The target is defined by a moderate magnetic high that is coupled with an annular chargeability high and a linear resistivity low that is flanked to the north and south by resistivity highs. The IP features persist to a depth of 200 m or more. The geophysical attributes also correspond with anomalous copper, gold, lead and zinc geochemical values in soil and rock grab samples collected from the area in 2006 (Blann, 2008). The coincident magnetic-IP-geochemical anomaly is a compelling porphyry copper-gold bulk tonnage target worthy of follow-up.

8. RECOMMENDATIONS

It is recommended that exploration continue on both the Hen and Anomaly Creek areas. A program consisting of geochemical sampling, mechanized trenching and diamond drilling is proposed to further evaluate the Hen property and consists of the following elements:

- Infill soil geochemical sampling and detailed prospecting on the west end of the Hen grid to further define the linear gold anomaly
- Machine trenching on the Dike skarn prospect in an attempt to expand the zone, to determine its near surface geometry and to allow for detailed chip sampling
- Machine trenching and 1000 m of diamond drilling on the Anomaly Creek zone to investigate the coincident magnetic-IP-geochemical anomaly.

The estimated cost of the proposed program is \$308,000.

9. STATEMENT OF COSTS – 2008

Period	March 15 2008 - December 05 2008		
Wages	# days	\$/day	Totals
		\$	
D. Blann, P.Eng	2.5	650.00	\$1,625.00
		\$	
D Black- Prospector	21.5	325.00	\$6,987.50
		\$	
T. Ridley - Field Tech	15	150.00	\$2,250.00
		\$	
D. Ridley, Prospector	30.5	350.00	\$10,675.00
	67		<u>\$21,537.50</u>
<u>Disbursements</u>			
		\$	
Truck - Blann	1.5	100.00	\$150.00
		\$	
Truck - Black	12	100.00	\$1,200.00
		\$	
Truck - Ridley	29	100.00	\$2,900.00
		\$	
ATV - Black	3	75.00	\$225.00
		\$	
ATV - Ridley	4	75.00	\$300.00
		\$	
Room/Board	67	100.00	\$6,700.00
sat and cell phone, radios -		\$	
Communications	67	5.00	\$335.00
Field Supplies- saws, tools, safety, camp construction			\$2,384.41
and geological field equip			
<u>Analyses</u>			
	Acme Analytical Laboratories		\$13,459.08
<u>Contractors</u>			
Allnorth Consultants Limited			\$72,666.50
Meridian Mapping Ltd.			\$60.00
SJ Geophysics Ltd.			\$44,981.45
S.J.V. Consultants Ltd.			\$4,549.50
Hendex Exploration etc			\$36,983.41
Shipping (Bus, Courier)			\$243.98
Drafting & Reproductions			\$1,486.85
Report			<u>\$3,500.00</u>
			\$188,475.18
		Wages and	
		Disbursements	\$210,012.68
		12% Management Fee	<u>\$25,201.52</u>
		Total	\$235,214.20

ALLNORTH CONSULTANTS LIMITED

10. COST OF PROPOSED PROGRAM

Exploration Cost					Totals
Field Crew Wages					
		Days	Rate	Subtotal	
Geologist (PGeo)	drillhole & trench layout, logging mapping	28	\$550.00	\$15,400.00	
Geological assistant	core splitting, sampling	28	\$250.00	\$7,000.00	
Prospector	prospecting, sampling	28	\$450.00	\$12,600.00	
Assistant	sampling	28	\$250.00	\$7,000.00	
					\$42,000.00
Office Studies					
		Days	Rate	Subtotal	
Project Preparation	permitting & preparation for field	3.00	\$500.00	\$1,500.00	
					\$1,500.00
Diamond Drilling					
		Metres	Cost/m	Subtotal	
Longyear 38 or equivalent	1000 m of NQ in 4 holes, pad and access construction (est 14 days)	1000	\$175.00	\$175,000.00	
					\$175,000.00
Mechanical Trenching					
		No.	Rate	Subtotal	
small track mounted excavator	layout, mob/demob, trenching, rehab	10.0	\$2,000.00	\$20,000.00	
Geochemical Surveying					
		No.	Rate	Subtotal	
Soil Samples	infill soil sampling on Hen main grid	200.0	\$35.00	\$7,000.00	
Rock Samples	rock and trench chip/channel sampling	150.0	\$25.00	\$3,750.00	
Core Samples	incl. blanks, standards and duplicates	350.0	\$35.00	\$12,250.00	
					\$23,000.00
Transportation					
		No.	Rate	Subtotal	
4x4 pickup 1	100/day	28.00	\$100.00	\$2,800.00	
4x4 pickup 2	100/day	28.00	\$100.00	\$2,800.00	
Fuel	100/day	28.00	\$100.00	\$2,800.00	
					\$8,400.00
Accommodation & Food					
			Rates per day		
Field & Drill Crew	168 person days, camp lodging & meals	168.00	\$120.00	\$20,160.00	
					\$20,160.00
Miscellaneous					
Field Supplies (consumables)	Bags, tags, etc, misc equipment	1.00	\$1,000.00	\$1,000.00	
Maps		1.00	\$500.00	\$500.00	
Assessment Report		1.00	\$5,000.00	\$5,000.00	
					\$6,500.00
SUBTOTAL					\$296,560.00
Contingency (10%)					\$7,930.00
GST (5%)					\$3,965.00
TOTAL					\$308,455.00

11. REFERENCES

- Blann, D. (2008): Geological and Geochemical Report on the Hen Property; Private Report for Happy Creek Minerals Ltd, 19 pages.
- Blann, D. (2007): Geochemical Report on the Hen Property; *BC Ministry of Energy, Mines and Petroleum Resources*, Assessment Report 29037.
- Blann, D. and Ridley, D. (2006): Geochemical and Geological Report on the Hen Property; *BC Ministry of Energy, Mines and Petroleum Resources*, Assessment Report 28399.
- Blann, D. and Ridley, D. (2005): Geochemical and Geological Report on the Hen Property; *BC Ministry of Energy, Mines and Petroleum Resources*, Assessment Report 27754.
- Campbell, R.B. (1978): Geology of the Quesnel Lake Area, 93A; *Geological Survey of Canada*, Open File 574.
- Campbell, R.B. and Tipper, H.W. (1971): Geology of the Bonaparte Lake Area, 92P; *Geological Survey of Canada*, Memoir 363.
- Deere, D. U. (1964): Technical Description of Rock Cores for Engineering Purposes. In *Rock Mechanics* (ed. Fairhurst, C.); *American Institute of Mining, Metallurgical and Petroleum Engineers*, pp. 237-302.
- MacDonald, A.J., Spooner, E.T.C. and Lee, G. (1995): The Boss Mountain molybdenum deposit, central British Columbia; *In Porphyry Deposits of the Northwestern Cordillera of North America*; Edited by T.G. Schroeter, Canadian Institute of Mining, Metallurgy and Petroleum, Special Volume 46, p 691-696.
- Ridley, D.W. (1997): Geophysical and Diamond Drilling Report on the Hen-Ledge-DL Claim Groups, Mt. Hendrix Area, Cariboo Mining Division; *BC Ministry of Energy, Mines and Petroleum Resources*, Assessment Report 25056.
- Schiarizza, P. and Boulton, A. (2006): Geology of the Canim Lake Area NTS 92/P; *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 2006-8.
- Schiarizza, P. and Macauley, J. (2007): Geology and Mineral Occurrences of the Hendrix Lake Area (NTS 93A/02) South-Central British Columbia; *BC Ministry of Energy, Mines and Petroleum Resources*, Geological Fieldwork 2006, Paper 2007-1.
- Soregaroli, A.E. and Nelson, W.I. (1976): Boss Mountain; *In Porphyry Deposits of the Canadian Cordillera*; Edited by A. Sutherland Brown, Canadian Institute of Mining and Metallurgy, Special Volume 15, p 432-443.

12. STATEMENT OF QUALIFICATIONS

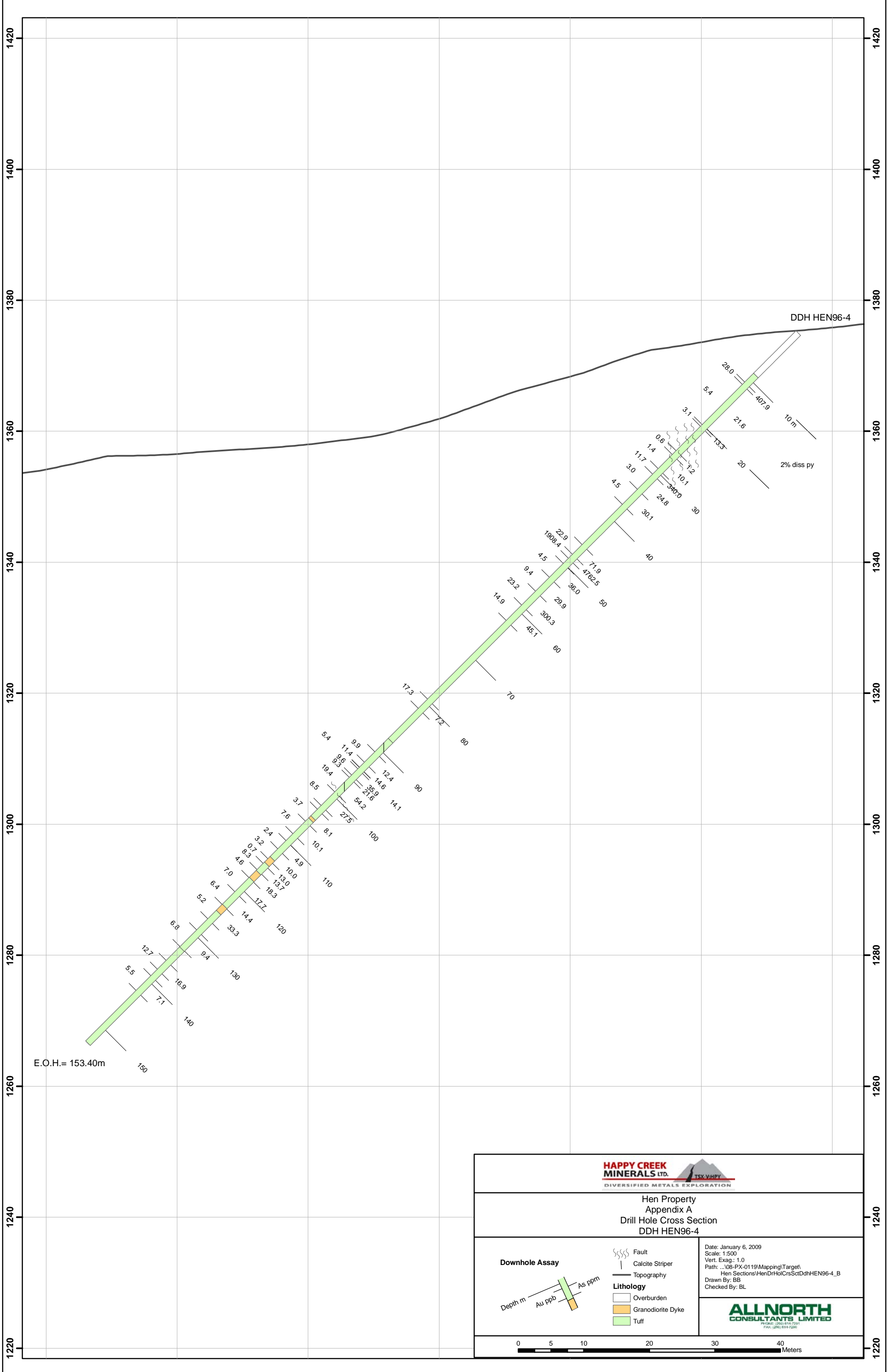
I, Robert (Bob) A. Lane, of 2606 Carlisle Way, Prince George, B.C., do hereby certify that:

1. I visited the Hen property on July 16, 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 2ND day of JANUARY 2009.

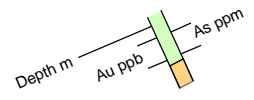



APPENDIX A
DIAMOND DRILL CROSS-SECTIONS



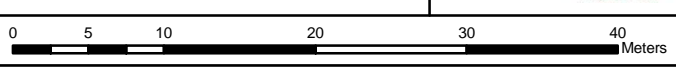
Hen Property
Appendix A
Drill Hole Cross Section
DDH HEN96-4

Downhole Assay



- SSSS Fault
 - Calcite Striper
 - Topography
- Lithology**
- Overburden
 - Granodiorite Dyke
 - Tuff

Date: January 6, 2009
Scale: 1:500
Vert. Exag.: 1.0
Path: ...08-PX-0119\Mapping\Target\
Hen Sections\HenDrHolCrSctDdhHEN96-4_B
Drawn By: BB
Checked By: BL



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: 08PX0119

CLIENT: Happy Creek Minerals Limited

PROJECT: Exploration & Project Management - Hen

DESCRIPTION: 1996 Hen Core Photographs



HEN DDH 96-HN-04 Boxes 1 (9.14 m) to 3 (NB Boxes 4 to 6 photographs not taken).JPG



HEN DDH 96-HN-04 Boxes 7 to 9.JPG



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: 08PX0119

CLIENT: Happy Creek Minerals Limited

PROJECT: Exploration & Project Management - Hen

DESCRIPTION: 1996 Hen Core Photographs



HEN DDH 96-HN-04 Boxes 10 to 12.JPG



HEN DDH 96-HN-04 Boxes 13 to 15.JPG



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: 08PX0119

CLIENT: Happy Creek Minerals Limited

PROJECT: Exploration & Project Management - Hen

DESCRIPTION: 1996 Hen Core Photographs



HEN DDH 96-HN-04 Boxes 16 to 18.JPG



HEN DDH 96-HN-04 Boxes 19 to 21.JPG



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: 08PX0119

CLIENT: Happy Creek Minerals Limited

PROJECT: Exploration & Project Management - Hen

DESCRIPTION: 1996 Hen Core Photographs



HEN DDH 96-HN-04 Boxes 22 to 24 (153.40 m); EOH.JPG

APPENDIX C
DIAMOND DRILL HOLE LOG

ALLNORTH CONSULTANTS LIMITED



DRILL LOG DETAILS

*The content of this report was filtered as follows:
Project ref #: 08PX0119*

96-HN-04

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
0	9.14	Overburden						



DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0119

MINERALIZATION				Economic Minerals					Gangue Minerals			Notes
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	
20.42	88.00	Disseminated		Marcasite - 1 %	Pyrrhotite - 1 %	Pyrite - 1 %	Chalcopyrite - 1 %	Pyrite				Marcasite coatings on rare fracture planes <<1%. Disseminated rare pyrrhotite +/- pyrite with possible intergrown chalcopyrite all together = <<1%

DRILL LOG DETAILS

The content of this report was filtered as follows:
Project ref #: 08PX0119

MINERALIZATION				Economic Minerals					Gangue Minerals			Notes
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	
88.00	153.40	Disseminated		Pyrite - 1 %	Pyrrhotite - 1 %	Chalcopyrite - 1 %	Chalcopyrite	Chalcopyrite				Trace coating and threads within breccia and veinlets. All combined <<1%. Minor disseminated mineralization on biotite grain boundaries within the

From	To	Lithology	Grain Size	Color	Texture	Mineral 1	Mineral 2	Mineral 3
133.00	153.40	Tuff	Fine Silt	Dusky Green	Mottled	Diopside		
<p><i>Notes: Andesitic Tuff to Argillite, pale green with dark green sections with one minor granodiorite dyke. The overall groundmass is fine grained with ghosted, and rounded grains of altered plagioclase and quartz. Rare, narrow (<1 m) patches of remnant bedding(?) are evident. Where this bedding was noted minor to weak pervasive calcite can be found (limey argillite?). Mineralization is less common than the previous section and is most commonly seen in localized narrow sub-breccias (failed breccias?), as coatings on fragment walls and as thin wisps and threads. The dominant forms include pyrrhotite, pyrite, marcasite, and minor to trace chalcopyrite. Overall mineralization is less common than the previous section and thus very rare. Alteration appears patchy to locally pervasive, and as halos around narrow veins. Alteration fronts tend to be sharp with some localized fronts being gradational. In other locations, alteration fronts appears disrupted and convoluted. Diopside is the main alteration mineral along fractures in this unit.</i></p>								

ALTERATION		Assemblages												Minerals							Notes	
From	To	Alb	Arg	Int	Lis	Phy	Pot	Pro	Serp	Sil	Skn	Tlc	Trm	Bio	Cal	Chl	Epi	Flp	Pyr	Ser		
133.00	153.40									VW	M			VW	VW	VW						Alteration dominated by diopside skarn.

VEINS		Vn %	V / M	TCA	Qz %	Feld %	CC %	Py %	Mineral 1	Mineral 2	Notes
113.00	153.40	2	5	45							Convoluted disrupted altered paleo-veins?

MINERALIZATION				Economic Minerals					Gangue Minerals			Notes
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	
88.00	153.40	Disseminated		Pyrite - 1 %	Pyrrhotite - 1 %	Chalcopyrite - 1 %	Chalcopyrite	Chalcopyrite				Trace coating and threads within breccia and veinlets. All combined <<1%. Minor disseminated mineralization on biotite grain boundaries within the granodiorite.

APPENDIX D
CORE SAMPLE ACME LABS RESULTS AND CERTIFICATES
OF ANALYSIS

SAMPLES REPORT

The content of this report was filtered as follows:
project ref #: 08PX0119 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
96-HN-04																																						
659802	10.86	11.37	0.6	71.9	3.8	58	<0.1	202.3	29.6	198	1.1	407.9	0.2	28	0.4	129	0.1	16	0.1	36	2.26	0.081	3	98	1.1	156	0.083	7	2.57	0.09	0.22	0.1	<0.01	2.4	0.2	0.16	5	0.7
659803	11.37	20.05	0.3	60.7	2.8	18	0.1	127.4	13.4	144	1.27	21.6	0.3	5.4	0.3	99	<0.1	5.4	<0.1	59	1.36	0.099	3	159	1.84	186	0.105	2	2.2	0.176	0.21	0.2	<0.01	3.5	0.2	<0.05	4	<0.5
659804	20.05	20.42	0.5	70.5	3.6	27	0.1	138.2	16.8	165	1.5	13.3	0.3	3.1	0.5	104	<0.1	4.2	<0.1	88	2.26	0.099	4	198	2.08	238	0.148	3	3.34	0.187	0.29	0.3	<0.01	3.8	0.3	0.07	8	0.6
659805	25.70	26.52	0.8	46.6	1.9	55	<0.1	24.7	17.6	429	3.35	1.2	1.3	0.6	4.5	39	<0.1	2.3	<0.1	137	1.25	0.154	19	36	1.27	382	0.403	5	1.72	0.088	0.9	0.2	<0.01	3.6	0.1	0.13	7	0.7
659807	26.52	29.57	0.8	56	2.6	47	<0.1	19.5	17.5	330	3.12	10.1	1	1.4	2.3	35	<0.1	3.2	<0.1	149	1.15	0.144	12	32	1.38	255	0.388	5	1.78	0.071	0.58	0.3	<0.01	5.3	<0.1	0.11	7	0.6
659808	29.57	30.77	1.3	36.4	3.4	63	0.1	102.2	31	527	2.95	340	0.8	11.7	1.4	49	0.2	30	<0.1	119	2.92	0.118	6	122	1.58	96	0.21	5	2.3	0.038	0.21	1	<0.01	6.6	<0.1	0.1	9	0.9
659809	30.77	34.04	9.4	55.1	3.8	150	0.3	26.7	14.5	583	3.68	24.8	0.9	3	1.2	42	1.8	10.2	<0.1	172	1.67	0.078	6	27	1.13	105	0.276	5	1.76	0.062	0.32	1	<0.01	10.7	0.2	0.79	7	4.4
659810	34.04	37.30	5.7	59.2	4.7	119	0.4	48.3	13.1	858	3.82	30.1	0.7	4.5	1.3	73	0.4	11	0.1	113	1.94	0.075	7	33	0.95	138	0.221	4	1.94	0.071	0.27	0.7	<0.01	10.8	0.3	1.29	7	4.9
659811	46.00	48.10	0.6	70.7	3.5	71	0.1	18.2	20.3	654	3.88	71.9	0.5	22.9	1.2	46	0.1	5.5	<0.1	139	2.32	0.066	4	25	1.16	167	0.225	5	1.84	0.054	0.24	0.6	0.04	10.6	0.4	0.28	7	0.9
659813	48.10	48.96	0.7	125.5	4.2	58	0.7	18.2	20.7	803	3.25	4762.5	0.5	1908.4	1.3	202	0.2	52.4	0.2	105	6.25	0.103	7	20	1.08	178	0.09	10	1.49	0.094	0.14	1.3	0.16	7.8	0.7	0.73	6	2.8
659814	50.07	53.07	0.9	136.6	1.5	48	0.1	20.4	20.6	369	3.17	36	0.8	4.5	2.1	47	<0.1	7.3	<0.1	156	1.36	0.115	7	37	1.04	282	0.281	7	1.63	0.1	0.78	0.4	<0.01	6.2	0.2	0.26	6	1.4
659815	53.07	56.07	1	126.5	3.5	60	0.2	19.2	21.4	449	3.75	29.9	0.8	9.4	1.8	49	0.2	6.9	<0.1	173	1.57	0.123	7	35	1.49	223	0.284	5	2.06	0.085	0.78	1.5	<0.01	5.9	0.3	0.2	7	1
659816	56.07	59.07	3.5	152.4	3	57	0.6	28.2	29.3	525	3.94	300.3	0.9	23.2	1.6	43	0.1	5.6	0.1	152	1.29	0.127	6	32	1.42	144	0.227	5	1.8	0.088	0.65	0.4	<0.01	5.2	0.3	1.08	6	2.4
659817	59.07	62.40	4.7	147.3	4.3	89	0.4	25.6	25	603	4.08	45.1	1	14.9	1.5	54	1	4.5	<0.1	208	1.75	0.109	7	46	1.6	217	0.304	6	2.36	0.079	0.57	0.6	<0.01	6.2	0.3	0.74	8	3.2
659818	79.40	81.40	1.8	136.3	2.4	49	0.2	22	21.9	361	3.2	7.2	0.8	17.3	2	36	<0.1	1.8	<0.1	146	1.31	0.121	8	43	0.94	279	0.313	5	1.54	0.077	0.57	0.3	<0.01	3.2	0.1	0.42	5	1.3
659820	90.80	93.05	2	128	2.8	45	0.2	15.1	15.4	316	2.46	12.4	1.4	9.9	3	32	0.2	2.4	<0.1	103	1.15	0.125	10	28	0.75	197	0.211	3	1.25	0.098	0.57	0.4	<0.01	3.2	0.2	0.3	5	1.1
659821	93.05	94.14	10.9	115.8	5.2	47	0.2	18.9	16.4	388	2.57	14.6	1.7	11.4	4.2	27	0.1	2.1	<0.1	86	1.41	0.126	13	26	0.66	59	0.188	3	1.03	0.074	0.15	0.5	<0.01	3.1	<0.1	0.42	5	1
659822	94.13	94.47	3.3	160.8	2.9	56	0.2	18.4	19.2	366	3.48	14.1	2.2	5.4	6	24	<0.1	1.4	<0.1	130	0.94	0.113	12	33	1	227	0.295	2	1.44	0.069	0.67	0.5	<0.01	3.6	0.3	0.46	6	1.1
659823	94.47	95.82	2.7	113.5	2.4	46	0.1	17	18.4	258	2.73	35.9	1.2	9.6	3.1	37	0.1	2.3	<0.1	127	0.95	0.107	8	40	0.85	248	0.281	2	1.42	0.105	0.67	0.3	<0.01	2.5	0.3	0.24	5	0.7
659824	95.82	96.32	4.5	117.7	2.4	46	0.2	16.8	16.2	343	2.88	21.6	2	9.3	7.3	28	0.1	2.8	<0.1	109	1.26	0.09	12	42	0.77	206	0.237	3	1.1	0.085	0.59	0.4	0.08	4.1	0.7	0.25	4	0.8
659825	96.32	99.46	1.5	102.7	4.6	64	0.2	29.7	28.3	312	3.75	54.2	0.9	19.4	1.8	78	0.3	3.5	<0.1	197	1.63	0.093	5	67	1.35	313	0.327	8	2.94	0.183	1.22	1.4	0.01	4.6	0.7	0.47	8	1.2
659827	99.46	102.40	10.1	128.1	4.4	39	0.4	30.8	20.7	221	3.25	27.5	4.1	8.5	10.7	32	0.2	3.4	0.1	106	1.06	0.096	13	47	0.76	137	0.207	3	1.16	0.091	0.49	0.9	<0.01	2.5	0.3	1.25	5	2.4
659828	103.20	105.80	9.2	96.8	9.2	58	0.2	20.5	20.2	340	3.03	8.1	2.1	3.7	4.2	180	0.7	3.3	<0.1	119	2.16	0.091	9	27	1.08	447	0.214	11	3.3	0.137	0.91	0.3	<0.01	3	0.5	0.68	8	1
659829	105.80	108.50	20.1	150.5	3.4	38	0.3	29.4	24.5	193	3.32	10.1	2.2	7.6	3.2	52	0.2	4	0.1	91	1.11	0.105	8	22	0.79	187	0.177	3	1.52	0.127	0.54	0.5	<0.01	2.3	0.3	1.38	4	2
659830	110.00	111.77	63.4	141.1	3.7	34	0.5	31.1	24.5	201	4.03	4.9	2.3	2.4	1.2	197	0.2	2.8	0.3	90	2.71	0.113	7	15	0.65	102	0.141	9	3.33	0.264	0.36	0.3	<0.01	1.7	0.3	2.39	7	2.6
659831	111.77	113.91	4	120.9	2.3	66	0.3	26.2	31	468	4.43	10	1.5	3.2	2.6	72	0.2	1.8	0.1	182	1.04	0.093	5	34	1.83	193	0.293	4	2.55	0.134	1.33	0.8	<0.01	5.9	1.2	1.35	7	1.1
659832	113.91	114.93	3.1	10	4.9	17	<0.1	6.9	3.4	104	0.89	13	5.2	0.7	15.8	39	0.1	3.1	<0.1	21	0.41	0.037	20	15	0.23	48	0.087	3	0.64	0.081	0.26	0.3	<0.01	0.7	0.2	0.13	2	<0.5
659833	114.93	116.26	43.6	190.6	4.2	31	0.6	50.5	17.9	119	3.24	13.7	3.2	8.3	4.1	41	1.1	3.3	0.2	44	1.21	0.121	14	15	0.19	27	0.148	5	0.33	0.092	0.08	0.6	<0.01	1.2	<0.1	1.97	2	7
659835	116.26	118.00	47.5	77.8	5.9	24	0.2	26.3	10.5	91	1.74	18.3	6.6	4.6	12.1	34	0.3	2.4	0.1	46	0.57	0.081	20	12	0.29	88	0.082	4	0.52	0.073	0.24	0.7	<0.01	1	0.2	0.77	1	0.9
659836	118.00	121.05	5.3	73.4	2.1	50	0.1	19.5	18.9	357	3.19	17.7	1.8	7	3.6	41	<0.1	3.3	0.1	128	0.77	0.09	9	26	1.38	413	0.218	4	1.76	0.086	1.1	0.9	<0.01	4.1	0.8	0.36	6	<0.5
659837	121.05	123.80	3	114.3	2.7	54	0.1	18.8	19.9	362	3.37	14.4	1.4	6.4	3.4	19	0.2	1.1	0.1	125	0.65	0.093	7	22	1.17	299	0.254	5	1.51	0.086	1.05	0.2	<0.01	3.1	0.5	0.43	5	1.1
659838	123.80	126.90	25.2	74	3.1	32	<0.1	21.2	13.8	195	2.09	33.3	3.5																									



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

Submitted By:

David Blann

Receiving Lab:

Acme Analytical Laboratories (Vancouver) Ltd.

Received:

May 27, 2008

Report Date:

June 06, 2008

Page:

1 of 3

CERTIFICATE OF ANALYSIS

VAN08006092.1

CLIENT JOB INFORMATION

Project: Hen
Shipment ID:
P.O. Number
Number of Samples: 41

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	41	Crush split and pulverize drill core to 150mesh		
1DX	41	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed

SAMPLE DISPOSAL

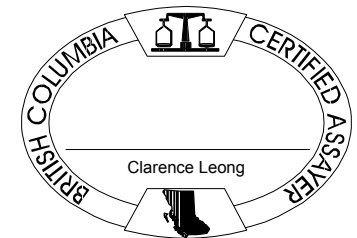
STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

ADDITIONAL COMMENTS

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

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

CC: Bob Lane



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.



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: Hen

Report Date: June 06, 2008

Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

VAN08006092.1

Method	WGHT	1DX15	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	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	
659802	Drill Core	1.30	0.6	71.9	3.8	58	<0.1	202.3	29.6	198	1.10	407.9	0.2	28.0	0.4	129	0.1	16.0	0.1	36	2.26
659803	Drill Core	2.81	0.3	60.7	2.8	18	0.1	127.4	13.4	144	1.27	21.6	0.3	5.4	0.3	99	<0.1	5.4	<0.1	59	1.36
659804	Drill Core	0.99	0.5	70.5	3.6	27	0.1	138.2	16.8	165	1.50	13.3	0.3	3.1	0.5	104	<0.1	4.2	<0.1	88	2.26
659805	Drill Core	1.50	0.8	46.6	1.9	55	<0.1	24.7	17.6	429	3.35	1.2	1.3	0.6	4.5	39	<0.1	2.3	<0.1	137	1.25
659806	Core Pulp	0.08	6.0	989.5	5.6	57	0.2	11.0	6.4	577	3.28	3.5	0.4	69.7	2.0	40	0.2	1.5	0.7	35	0.91
659807	Drill Core	5.96	0.8	56.0	2.6	47	<0.1	19.5	17.5	330	3.12	10.1	1.0	1.4	2.3	35	<0.1	3.2	<0.1	149	1.15
659808	Drill Core	2.61	1.3	36.4	3.4	63	0.1	102.2	31.0	527	2.95	340.0	0.8	11.7	1.4	49	0.2	30.0	<0.1	119	2.92
659809	Drill Core	3.70	9.4	55.1	3.8	150	0.3	26.7	14.5	583	3.68	24.8	0.9	3.0	1.2	42	1.8	10.2	<0.1	172	1.67
659810	Drill Core	3.34	5.7	59.2	4.7	119	0.4	48.3	13.1	858	3.82	30.1	0.7	4.5	1.3	73	0.4	11.0	0.1	113	1.94
659811	Drill Core	2.23	0.6	70.7	3.5	71	0.1	18.2	20.3	654	3.88	71.9	0.5	22.9	1.2	46	0.1	5.5	<0.1	139	2.32
659812	Drill Core	2.06	0.6	74.8	3.6	73	0.1	19.7	22.3	715	3.96	120.7	0.5	38.6	1.3	50	0.1	6.2	<0.1	144	2.32
659813	Drill Core	1.88	0.7	125.5	4.2	58	0.7	18.2	20.7	803	3.25	4762	0.5	1908	1.3	202	0.2	52.4	0.2	105	6.25
659814	Drill Core	6.73	0.9	136.6	1.5	48	0.1	20.4	20.6	369	3.17	36.0	0.8	4.5	2.1	47	<0.1	7.3	<0.1	156	1.36
659815	Drill Core	7.01	1.0	126.5	3.5	60	0.2	19.2	21.4	449	3.75	29.9	0.8	9.4	1.8	49	0.2	6.9	<0.1	173	1.57
659816	Drill Core	4.89	3.5	152.4	3.0	57	0.6	28.2	29.3	525	3.94	300.3	0.9	23.2	1.6	43	0.1	5.6	0.1	152	1.29
659817	Drill Core	7.56	4.7	147.3	4.3	89	0.4	25.6	25.0	603	4.08	45.1	1.0	14.9	1.5	54	1.0	4.5	<0.1	208	1.75
659818	Drill Core	3.95	1.8	136.3	2.4	49	0.2	22.0	21.9	361	3.20	7.2	0.8	17.3	2.0	36	<0.1	1.8	<0.1	146	1.31
659819	Core Pulp	0.08	4.5	39.8	2.3	42	<0.1	22.3	8.7	504	3.01	4.4	0.3	3.7	1.3	40	0.1	0.6	<0.1	61	0.82
659820	Drill Core	4.43	2.0	128.0	2.8	45	0.2	15.1	15.4	316	2.46	12.4	1.4	9.9	3.0	32	0.2	2.4	<0.1	103	1.15
659821	Drill Core	2.62	10.9	115.8	5.2	47	0.2	18.9	16.4	388	2.57	14.6	1.7	11.4	4.2	27	0.1	2.1	<0.1	86	1.41
659822	Drill Core	1.13	3.3	160.8	2.9	56	0.2	18.4	19.2	366	3.48	14.1	2.2	5.4	6.0	24	<0.1	1.4	<0.1	130	0.94
659823	Drill Core	3.29	2.7	113.5	2.4	46	0.1	17.0	18.4	258	2.73	35.9	1.2	9.6	3.1	37	0.1	2.3	<0.1	127	0.95
659824	Drill Core	1.04	4.5	117.7	2.4	46	0.2	16.8	16.2	343	2.88	21.6	2.0	9.3	7.3	28	0.1	2.8	<0.1	109	1.26
659825	Drill Core	8.32	1.5	102.7	4.6	64	0.2	29.7	28.3	312	3.75	54.2	0.9	19.4	1.8	78	0.3	3.5	<0.1	197	1.63
659826	Core Pulp	0.08	6.5	1062	5.4	59	0.2	11.6	6.7	595	3.41	3.8	0.4	67.0	2.0	41	0.2	1.5	0.7	35	0.95
659827	Drill Core	7.13	10.1	128.1	4.4	39	0.4	30.8	20.7	221	3.25	27.5	4.1	8.5	10.7	32	0.2	3.4	0.1	106	1.06
659828	Drill Core	7.26	9.2	96.8	9.2	58	0.2	20.5	20.2	340	3.03	8.1	2.1	3.7	4.2	180	0.7	3.3	<0.1	119	2.16
659829	Drill Core	6.32	20.1	150.5	3.4	38	0.3	29.4	24.5	193	3.32	10.1	2.2	7.6	3.2	52	0.2	4.0	0.1	91	1.11
659830	Drill Core	4.86	63.4	141.1	3.7	34	0.5	31.1	24.5	201	4.03	4.9	2.3	2.4	1.2	197	0.2	2.8	0.3	90	2.71
659831	Drill Core	5.67	4.0	120.9	2.3	66	0.3	26.2	31.0	468	4.43	10.0	1.5	3.2	2.6	72	0.2	1.8	0.1	182	1.04



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: Hen

Report Date: June 06, 2008

Page: 2 of 3 Part 2

CERTIFICATE OF ANALYSIS

VAN08006092.1

Method Analyte Unit MDL	1DX15 P % 0.001	1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	
659802	Drill Core	0.081	3	98	1.10	156	0.083	7	2.57	0.090	0.22	0.1	<0.01	2.4	0.2	0.16	5	0.7
659803	Drill Core	0.099	3	159	1.84	186	0.105	2	2.20	0.176	0.21	0.2	<0.01	3.5	0.2	<0.05	4	<0.5
659804	Drill Core	0.099	4	198	2.08	238	0.148	3	3.34	0.187	0.29	0.3	<0.01	3.8	0.3	0.07	8	0.6
659805	Drill Core	0.154	19	36	1.27	382	0.403	5	1.72	0.088	0.90	0.2	<0.01	3.6	0.1	0.13	7	0.7
659806	Core Pulp	0.057	5	22	0.59	126	0.061	3	0.88	0.067	0.12	3.4	0.19	3.0	<0.1	0.48	4	2.3
659807	Drill Core	0.144	12	32	1.38	255	0.388	5	1.78	0.071	0.58	0.3	<0.01	5.3	<0.1	0.11	7	0.6
659808	Drill Core	0.118	6	122	1.58	96	0.210	5	2.30	0.038	0.21	1.0	<0.01	6.6	<0.1	0.10	9	0.9
659809	Drill Core	0.078	6	27	1.13	105	0.276	5	1.76	0.062	0.32	1.0	<0.01	10.7	0.2	0.79	7	4.4
659810	Drill Core	0.075	7	33	0.95	138	0.221	4	1.94	0.071	0.27	0.7	<0.01	10.8	0.3	1.29	7	4.9
659811	Drill Core	0.066	4	25	1.16	167	0.225	5	1.84	0.054	0.24	0.6	0.04	10.6	0.4	0.28	7	0.9
659812	Drill Core	0.070	5	25	1.13	189	0.217	5	1.75	0.059	0.25	0.7	0.06	11.3	0.4	0.32	7	1.1
659813	Drill Core	0.103	7	20	1.08	178	0.090	10	1.49	0.094	0.14	1.3	0.16	7.8	0.7	0.73	6	2.8
659814	Drill Core	0.115	7	37	1.04	282	0.281	7	1.63	0.100	0.78	0.4	<0.01	6.2	0.2	0.26	6	1.4
659815	Drill Core	0.123	7	35	1.49	223	0.284	5	2.06	0.085	0.78	1.5	<0.01	5.9	0.3	0.20	7	1.0
659816	Drill Core	0.127	6	32	1.42	144	0.227	5	1.80	0.088	0.65	0.4	<0.01	5.2	0.3	1.08	6	2.4
659817	Drill Core	0.109	7	46	1.60	217	0.304	6	2.36	0.079	0.57	0.6	<0.01	6.2	0.3	0.74	8	3.2
659818	Drill Core	0.121	8	43	0.94	279	0.313	5	1.54	0.077	0.57	0.3	<0.01	3.2	0.1	0.42	5	1.3
659819	Core Pulp	0.061	5	37	0.77	98	0.130	3	1.56	0.088	0.10	0.2	0.02	3.8	<0.1	<0.05	5	<0.5
659820	Drill Core	0.125	10	28	0.75	197	0.211	3	1.25	0.098	0.57	0.4	<0.01	3.2	0.2	0.30	5	1.1
659821	Drill Core	0.126	13	26	0.66	59	0.188	3	1.03	0.074	0.15	0.5	<0.01	3.1	<0.1	0.42	5	1.0
659822	Drill Core	0.113	12	33	1.00	227	0.295	2	1.44	0.069	0.67	0.5	<0.01	3.6	0.3	0.46	6	1.1
659823	Drill Core	0.107	8	40	0.85	248	0.281	2	1.42	0.105	0.67	0.3	<0.01	2.5	0.3	0.24	5	0.7
659824	Drill Core	0.090	12	42	0.77	206	0.237	3	1.10	0.085	0.59	0.4	0.08	4.1	0.7	0.25	4	0.8
659825	Drill Core	0.093	5	67	1.35	313	0.327	8	2.94	0.183	1.22	1.4	0.01	4.6	0.7	0.47	8	1.2
659826	Core Pulp	0.058	5	22	0.61	126	0.061	4	0.92	0.070	0.13	3.4	0.21	3.1	<0.1	0.49	4	2.0
659827	Drill Core	0.096	13	47	0.76	137	0.207	3	1.16	0.091	0.49	0.9	<0.01	2.5	0.3	1.25	5	2.4
659828	Drill Core	0.091	9	27	1.08	447	0.214	11	3.30	0.137	0.91	0.3	<0.01	3.0	0.5	0.68	8	1.0
659829	Drill Core	0.105	8	22	0.79	187	0.177	3	1.52	0.127	0.54	0.5	<0.01	2.3	0.3	1.38	4	2.0
659830	Drill Core	0.113	7	15	0.65	102	0.141	9	3.33	0.264	0.36	0.3	<0.01	1.7	0.3	2.39	7	2.6
659831	Drill Core	0.093	5	34	1.83	193	0.293	4	2.55	0.134	1.33	0.8	<0.01	5.9	1.2	1.35	7	1.1



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: Hen

Report Date: June 06, 2008

Page: 3 of 3 Part 1

CERTIFICATE OF ANALYSIS

VAN08006092.1

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	
659832	Drill Core	1.60	3.1	10.0	4.9	17	<0.1	6.9	3.4	104	0.89	13.0	5.2	0.7	15.8	39	0.1	3.1	<0.1	21	0.41
659833	Drill Core	2.14	43.6	190.6	4.2	31	0.6	50.5	17.9	119	3.24	13.7	3.2	8.3	4.1	41	1.1	3.3	0.2	44	1.21
659834	Drill Core	2.17	39.6	182.6	3.9	29	0.5	49.4	16.7	123	3.09	14.8	3.3	14.5	3.9	42	0.9	3.0	0.2	38	1.32
659835	Drill Core	3.91	47.5	77.8	5.9	24	0.2	26.3	10.5	91	1.74	18.3	6.6	4.6	12.1	34	0.3	2.4	0.1	46	0.57
659836	Drill Core	7.28	5.3	73.4	2.1	50	0.1	19.5	18.9	357	3.19	17.7	1.8	7.0	3.6	41	<0.1	3.3	0.1	128	0.77
659837	Drill Core	7.77	3.0	114.3	2.7	54	0.1	18.8	19.9	362	3.37	14.4	1.4	6.4	3.4	19	0.2	1.1	0.1	125	0.65
659838	Drill Core	7.14	25.2	74.0	3.1	32	<0.1	21.2	13.8	195	2.09	33.3	3.5	5.2	6.6	35	0.1	3.5	0.1	83	0.96
659839	Drill Core	8.08	12.2	132.7	3.2	45	0.2	29.6	20.8	242	3.32	9.4	1.3	6.8	2.2	39	0.2	1.6	<0.1	117	0.77
659840	Drill Core	4.88	5.8	121.2	2.3	56	0.2	29.6	21.9	286	3.55	16.9	0.9	12.7	1.5	73	0.3	1.2	0.1	131	1.20
659841	Core Pulp	0.08	4.0	38.3	2.1	40	<0.1	21.8	8.3	492	3.05	4.0	0.3	4.1	1.2	40	<0.1	0.5	<0.1	57	0.79
659842	Drill Core	7.80	3.3	148.5	1.8	51	0.2	20.8	22.1	367	4.09	7.1	1.0	5.5	1.9	52	0.2	0.8	<0.1	176	0.88



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: Hen

Report Date: June 06, 2008

Page: 3 of 3 Part 2

CERTIFICATE OF ANALYSIS

VAN08006092.1

Method	1DX15	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	0.01	0.05	1	0.5	
659832	Drill Core	0.037	20	15	0.23	48	0.087	3	0.64	0.081	0.26	0.3	<0.01	0.7	0.2	0.13	2	<0.5
659833	Drill Core	0.121	14	15	0.19	27	0.148	5	0.33	0.092	0.08	0.6	<0.01	1.2	<0.1	1.97	2	7.0
659834	Drill Core	0.126	13	15	0.13	17	0.104	4	0.31	0.072	0.06	0.6	<0.01	0.9	<0.1	1.68	1	7.0
659835	Drill Core	0.081	20	12	0.29	88	0.082	4	0.52	0.073	0.24	0.7	<0.01	1.0	0.2	0.77	1	0.9
659836	Drill Core	0.090	9	26	1.38	413	0.218	4	1.76	0.086	1.10	0.9	<0.01	4.1	0.8	0.36	6	<0.5
659837	Drill Core	0.093	7	22	1.17	299	0.254	5	1.51	0.086	1.05	0.2	<0.01	3.1	0.5	0.43	5	1.1
659838	Drill Core	0.092	15	23	0.61	148	0.173	10	1.00	0.081	0.54	0.3	<0.01	1.6	0.3	0.42	4	1.0
659839	Drill Core	0.107	7	39	1.08	204	0.227	3	1.45	0.089	0.88	0.2	<0.01	2.0	0.3	0.80	5	1.6
659840	Drill Core	0.103	6	35	1.05	113	0.245	6	2.00	0.127	0.92	0.1	<0.01	2.5	0.4	1.06	6	1.0
659841	Core Pulp	0.061	4	36	0.77	85	0.109	2	1.48	0.079	0.11	0.2	0.02	3.4	<0.1	<0.05	5	<0.5
659842	Drill Core	0.106	6	32	1.49	371	0.329	2	2.03	0.079	1.44	0.2	<0.01	4.1	0.5	0.47	7	1.5

QUALITY CONTROL REPORT

VAN08006092.1

Method	WGHT	1DX15	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	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																					
659810	Drill Core	3.34	5.7	59.2	4.7	119	0.4	48.3	13.1	858	3.82	30.1	0.7	4.5	1.3	73	0.4	11.0	0.1	113	1.94
REP 659810	QC		5.2	58.6	4.7	115	0.4	48.0	12.6	852	3.75	29.3	0.7	4.7	1.3	71	0.4	10.8	0.1	110	1.93
659838	Drill Core	7.14	25.2	74.0	3.1	32	<0.1	21.2	13.8	195	2.09	33.3	3.5	5.2	6.6	35	0.1	3.5	0.1	83	0.96
REP 659838	QC		25.9	76.2	3.2	34	0.1	22.1	13.5	204	2.09	33.6	3.5	5.0	7.1	36	0.1	4.0	0.1	88	0.97
Core Reject Duplicates																					
659819	Core Pulp	0.08	4.5	39.8	2.3	42	<0.1	22.3	8.7	504	3.01	4.4	0.3	3.7	1.3	40	0.1	0.6	<0.1	61	0.82
DUP 659819	QC		4.4	38.9	2.2	41	<0.1	21.6	8.7	477	2.96	4.3	0.3	3.6	1.3	40	0.1	0.6	<0.1	59	0.82
Reference Materials																					
STD DS7	Standard		18.2	97.8	66.1	355	0.8	51.7	8.7	570	2.12	47.9	4.9	56.5	4.0	60	6.0	5.7	4.4	80	0.86
STD DS7	Standard		21.7	104.9	67.3	383	0.8	57.0	10.2	607	2.30	50.5	5.2	88.1	4.5	65	6.9	6.3	5.0	86	0.93
STD DS7	Standard		18.7	106.5	71.1	397	0.8	54.7	9.5	598	2.29	51.4	4.6	57.9	4.0	61	5.6	5.4	4.5	80	0.90
STD DS7	Standard		18.4	119.8	67.9	384	0.8	59.6	9.3	615	2.29	48.9	4.5	63.9	3.8	61	5.6	5.5	4.4	83	0.89
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
Prep Wash																					
G1	Prep Blank	<0.01	0.8	8.5	3.6	49	<0.1	6.1	5.0	567	2.06	<0.5	2.6	<0.5	4.2	66	<0.1	<0.1	0.1	45	0.57
G1	Prep Blank	<0.01	0.7	7.3	3.3	52	<0.1	5.4	5.0	569	2.04	<0.5	2.8	<0.5	4.1	63	<0.1	<0.1	<0.1	45	0.54

QUALITY CONTROL REPORT

VAN08006092.1

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																		
659810	Drill Core	0.075	7	33	0.95	138	0.221	4	1.94	0.071	0.27	0.7	<0.01	10.8	0.3	1.29	7	4.9
REP 659810	QC	0.074	7	33	0.91	136	0.215	4	1.91	0.071	0.27	0.6	<0.01	10.8	0.3	1.27	8	4.2
659838	Drill Core	0.092	15	23	0.61	148	0.173	10	1.00	0.081	0.54	0.3	<0.01	1.6	0.3	0.42	4	1.0
REP 659838	QC	0.097	15	22	0.61	148	0.180	10	0.99	0.083	0.56	0.3	<0.01	1.7	0.3	0.43	4	1.4
Core Reject Duplicates																		
659819	Core Pulp	0.061	5	37	0.77	98	0.130	3	1.56	0.088	0.10	0.2	0.02	3.8	<0.1	<0.05	5	<0.5
DUP 659819	QC	0.061	5	36	0.75	99	0.124	3	1.56	0.086	0.10	0.3	0.02	3.8	<0.1	<0.05	5	0.5
Reference Materials																		
STD DS7	Standard	0.072	11	161	0.97	325	0.116	36	0.92	0.069	0.39	3.5	0.19	2.1	4.0	0.18	4	3.8
STD DS7	Standard	0.078	13	176	1.05	365	0.132	42	1.00	0.076	0.40	3.7	0.18	2.4	4.1	0.19	5	3.5
STD DS7	Standard	0.074	11	173	1.04	336	0.109	40	0.94	0.065	0.42	3.9	0.21	2.1	4.3	0.19	5	3.3
STD DS7	Standard	0.068	11	178	1.04	324	0.110	40	0.94	0.066	0.41	3.3	0.20	2.1	3.7	0.19	4	3.6
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
Prep Wash																		
G1	Prep Blank	0.089	8	11	0.63	261	0.146	1	1.12	0.099	0.56	<0.1	<0.01	2.1	0.4	<0.05	5	<0.5
G1	Prep Blank	0.084	8	11	0.63	265	0.145	1	1.09	0.087	0.55	<0.1	<0.01	2.0	0.4	<0.05	5	<0.5

APPENDIX E
QA/QC REPORT

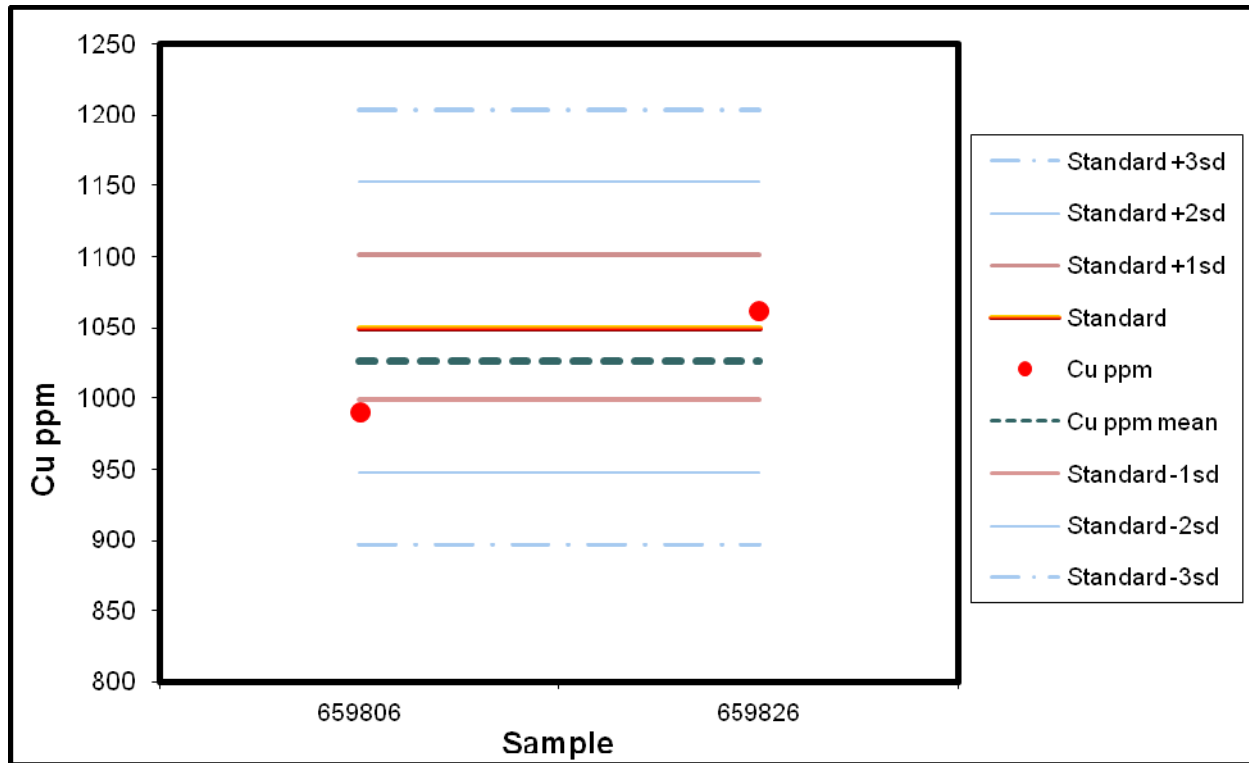
All core samples were selected by Allnorth Consultants site geologists. Each section of core to be sampled was clearly identified and then marked with a centre line and halved using a water-cooled diamond saw. Thirty-five (35) core samples were labelled, cut and bagged. Six (6) quality control samples (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-8 Minerals Cu-Au standard was used for quality control of the copper and gold abundances. The core logger had documented the CDN-CGS-19 as the reference standard used; however, upon the production of this QA/QC report it is suggested the CDN-CGS-8 was actually used. The copper values received for the standard are much lower (~300 ppm) than the documented CDN-CGS-19 values and the subsequent report is based on assuming the CDN-CGS-8 was used. The analyzed gold values for this standard are, however, lower than the documented abundance for the suggested CDN-CGS-8 standard. This lower value (~10 ppb) is not considered significant. 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-8 Standard (1050ppm Cu)

Standard	Cu ppm
659806	989.5
659826	1062

Cu ppm Statistics of CDN-CGS-8 Standard (1050 ppm Cu)

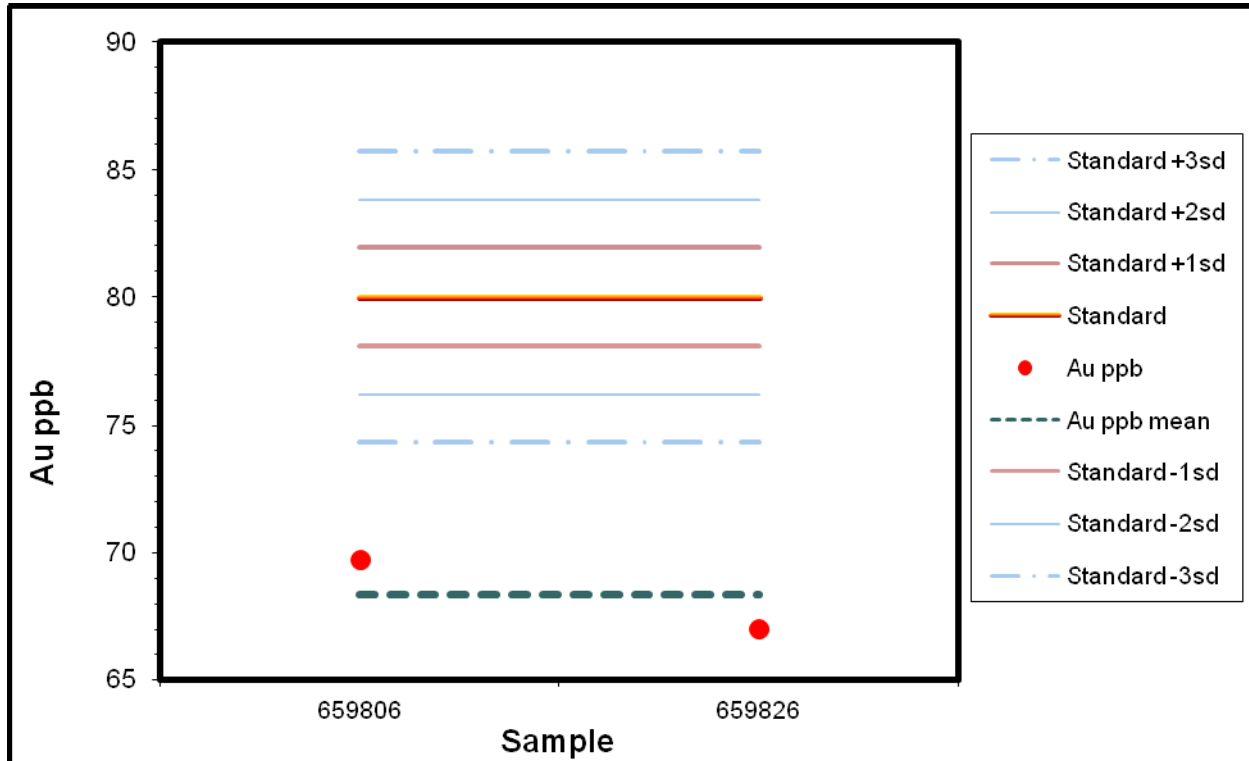


The sample mean Cu ppm results of the CDN-CGS-8 Standard are 24.25 ppm lower than the documented Cu ppm content of the standard. The Cu abundances are within 1-2 standard deviation of the documented standard Cu content. The small 24.25 ppm difference in Cu abundances, between the lab and the published values, and the small standard deviation from the published standard value is not significant.

Au ppb Values of CDN-CGS-8 Standard (80 ppb Au)

Standard	Au ppb
659806	69.7
659826	67

Au ppb Statistics of CDN-CGS-8 Standard (80 ppb Au)

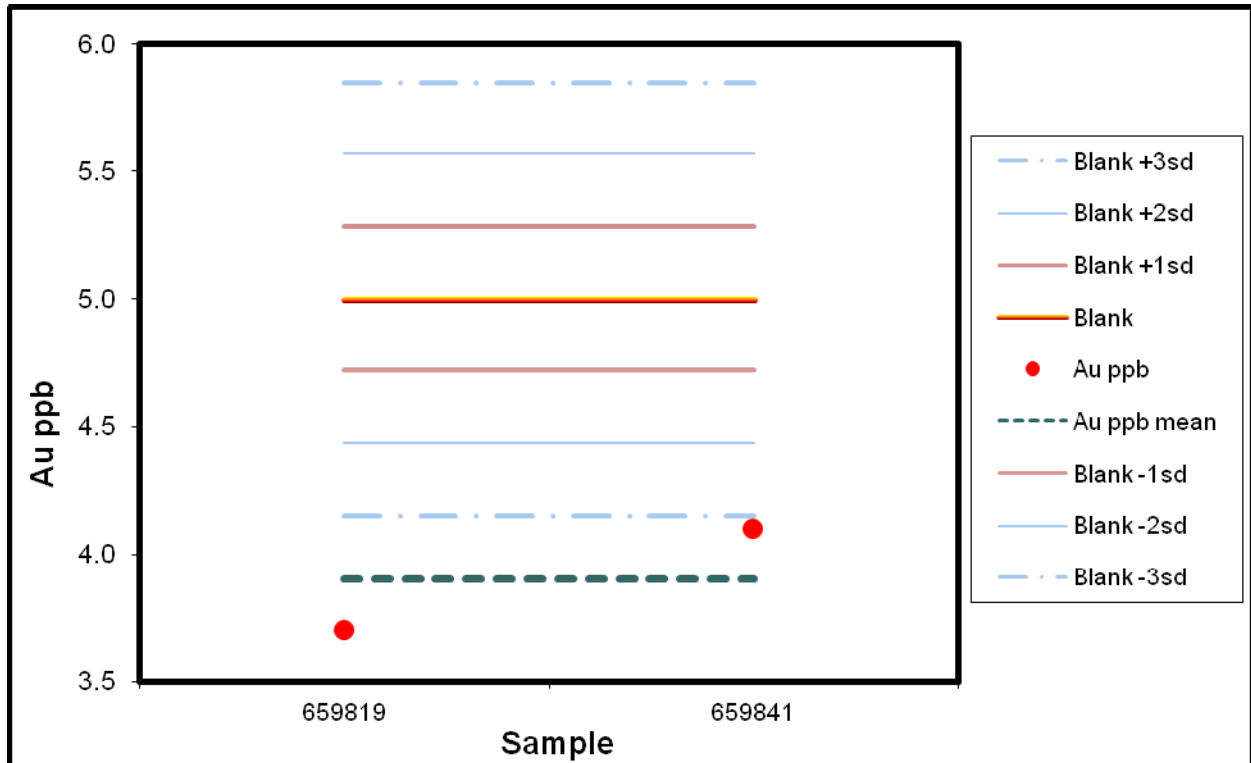


The sample mean Au ppb results of the CDN-CGS-8 Standard are 10.30 ppb smaller than the documented Au ppb content of the standard. The Au ppb abundances are not within 3 standard deviation of the documented standard Au content. The small 10.30 ppb difference in Au abundances, between the lab and the published values, and the greater than 3 standard deviation from the published standard value is not significant due to the small values of the published standard, 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-BL-3 Blank

Sample	Au ppb
659819	3.7
659841	4.1

Au ppb Statistics for CDN-BL-3 Blank

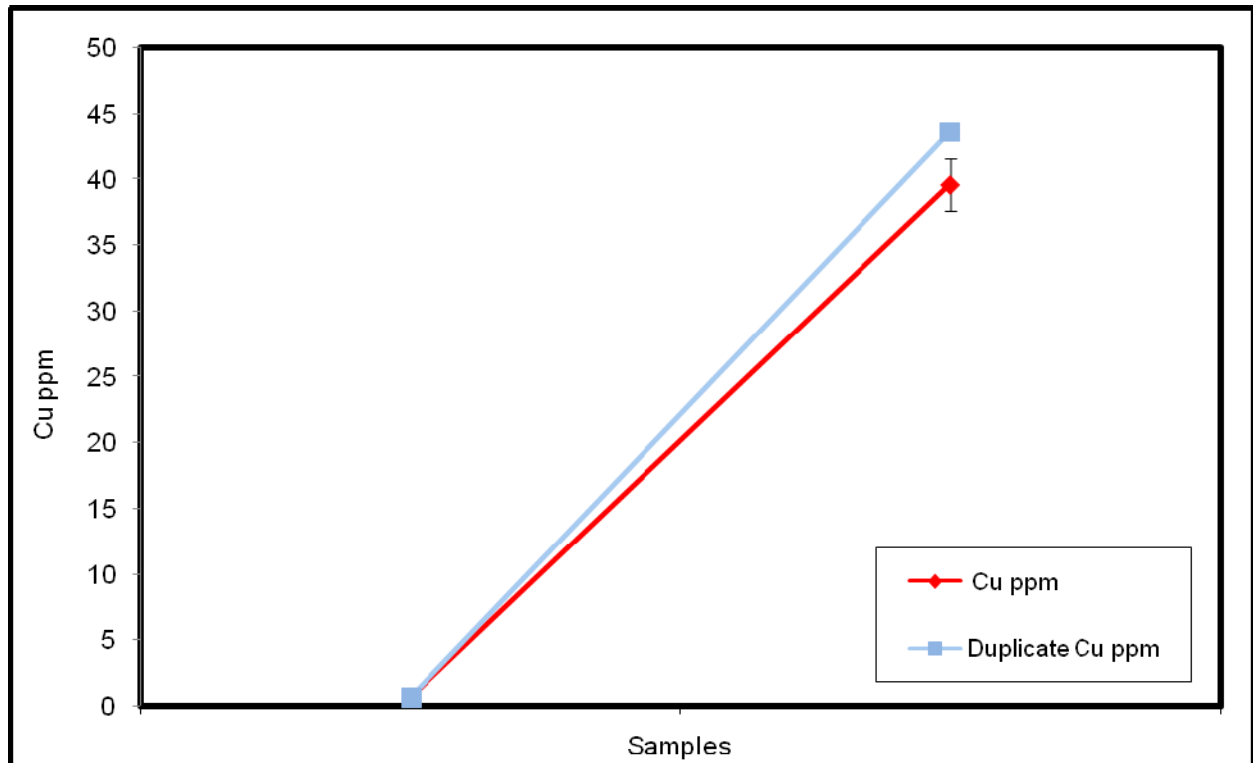


All the Au ppb values for the CDN-BL-3 are below 3 standard deviation. The average Au ppb assay values are consistently low but within the acceptable limit of <10 ppb Au. The CDN-BL-3 Au ppb results are consistent (within 1 standard deviation) with respect to each other.

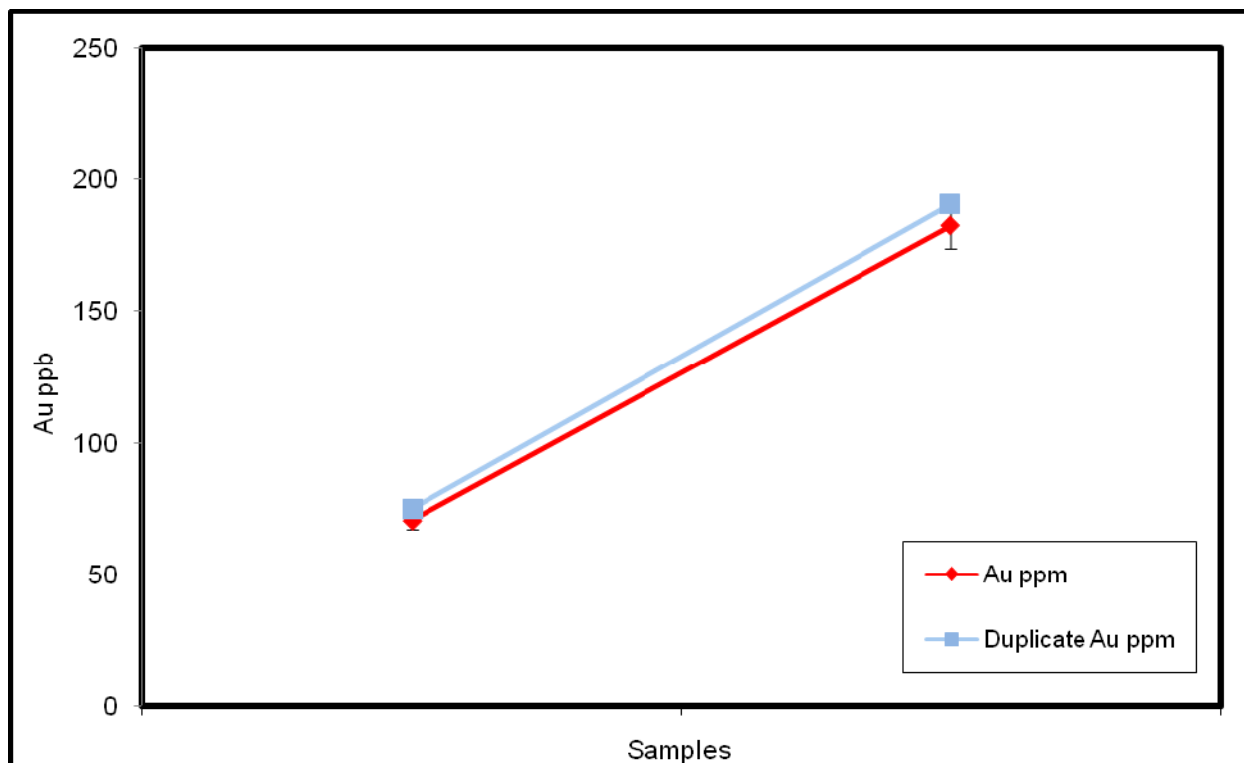
Sample Duplicate Comparisons

DDH Name	From (m)	To (m)	Sample	Cu ppm	Au ppb
96-HN-04	46.00	48.10	659811	0.6	70.7
			659812	0.6	74.8
96-HN-04	114.63	116.26	659834	39.6	182.6
			659833	43.6	190.6

Duplicate Comparison of Cu ppm with 5% error bars



Duplicate Comparison of Au ppb with 5% error bars



The duplicate abundance comparisons are generally within a 5% error margin for the Cu ppm values as are the Au values. 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 $\frac{1}{4}$ of the core has a greater mineralised volume percent than the other $\frac{1}{4}$ core.

In conclusion, the quality analysis/quality control results of the Hen core samples using the Group 1DX acid digestion and ICP-MS analysis produced varying results. Consistently low Au 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 the 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 and they are <10 ppb. 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 $\frac{1}{4}$ 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-8 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 and the name accurately documented. 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 F
2008 FIELD MAPPING NOTES

ALLNORTH CONSULTANTS LIMITED

2008 Hen Field Mapping Stations Rock Samples

Station ID	Northing	Easting	Outcrop/ Float	Strike	Dip	Dip Direction	Type	Assay Sample	Description
HNSB032	5767888	658980	Outcrop					659665	Very siliceous/aphanitic sugary matrix; small black flecks (biotite?) (magnetite); 5-10% arsenopyrite or pyrrhotite; abundant orangey weathering (limonite) coating on surface; non magnetic; no effervescence (little to no carbonates)
HNSB064	5767668	662593	Outcrop	125	52	E	bedding	659666	Siltstone; very siliceous; abundant (10%) calcite in matrix; sulphides around 5% (pyrrhotite); non magnetic
HNSB082	5766890	662100	Outcrop					659667	
HNDB039	5766027	659497	Float					828503	Float or outcrop exposure within culvert bed; dark green grey fine grained matrix with many different phenocrysts ~20%; augite porphyry; ~2-3% silvery sulphides (pyrite or arsenopyrite); calcite stringers ~3%; grab sample taken 828503; picture HNDB039 taken
HNMR009	5767922	655120	Outcrop	180	85	E	bedding	828504	Siltstone/Mudstone - Found under 10 cm of moss as a step trending north to south; fine grained silty mudstone; weak to moderate hornfels with minor localized silica flooding; 5% disseminated pyrite with up to 10% locally; possible trace (1%) chalcopyrite; strong limonite coating; outcrop is 5 m long north to south with additional outcrop to the east; bedding appears to trend north to south and is sub-vertical with a western component; bedding
HNJD027								828505	
HNBL001	5768568	658923	Outcrop						Exposure is Vesicular Basalt approximately 30 to 35 m in length in a southeast direction; no alteration
HNBL002	5768443	658688	Float						Subcrop of volcanic conglomerate under overturned tree root
HNBL003	5768206	658618	Subcrop						Little bit of siltstone subcrop in replanted clearcut and andesite float
HNBL004	5768143	658691	Outcrop	74	90	S	bedding		Interbedded siltstone, sandstone -grit with argillite layers bedding; argillite rip-ups
HNBL005	5768236	658446	Subcrop						10 m by 20 m area of outcrop and subcrop on edge of clearcut; clast mostly (all?) same lithology as matrix; no reaction rims on clastic; traces of epidote; locally olivine-pyroxene noted
HNBL006	5768060	658670	Outcrop	81	64	S	bedding		Thick bedded sandstone with siltstone locally argillite interbeds; local grit units with angular clasts - looks immature, possibly dominated by volcanic; detritus; outcrop 25 m long by 8 m wide
HNCP1	5766716	657368	Control Point						Control point for detail geological map A within the 'dike' showing.
HNCP2	5766748	657449	Control Point						Control point for detail geological map B within the 'dike' showing.
HNDB001	5768012	657162	Float						Vesicular basalt; ~10% vesicles ranging from 3 mm to 20 mm; patchy vesicles; no visible sulphides
HNDB002	5768004	657105	Float						~3% calcite nodules/stringers set within fine grained mafic matrix; mafic possible tuff with <1% olivine crystals; possible <<1% <1 mm sulphides (pyrite); minor <<1% epidote nodules; slightly magnetic; slaty fracture surface; is ~1% of float in the area
HNDB003	5767917	657044	Float						Large 2 m by 2 m boulder; aphanitic groundmass but phenocrysts are within 1-0.5 mm; olivine/orthopyroxene present <1% with <<1% with reaction rims (coronas) of microcrystalline pyroxene/amphibole; mafic; slightly magnetic; small sub-mm disseminated black metallic minerals (magnetite); 2% sub-mm white minerals possibly quartz or andesine; no visible sulphides
HNDB004	5767850	656843	Outcrop						Mafic; fine grained with 5% phenocrysts ~5 mm in length dark brownish green (augite?) <1% nodules of calcite ~5 mm diameter and mm sized calcite veins with <1% sulphides (pyrite and arsenopyrite?); ~3% epidote 'mesh' within groundmass; metal leaching present; 1% 5-10 mm patches of epidote with ~2 mm epidote crystal forming one nodule; exposed outcrop ~5 m by 1.5 m; visible sulphides (dark to pale yellow pyrite) were only found associated with the veins; weakly magnetic; very broken unable to measure strike and dip
HNDB005	5767763	656840	Outcrop						Same as HNDB004; 1 m by 1 m exposed rock
HNDB006	5767855	656575	Outcrop						Same as HNDB004, 0.5 by 0.2 m exposed rock, except increase in carbonates to ~1%
HNDB007	5767896	656580	Outcrop						Mafic; dark grey; fine grained aphanitic; slaty to hackly fractures; ~2% calcite veining; no visible sulphides; epidote staining; same as JD sample to the southeast
HNDB008	5767916	656609	Outcrop						Same as HNDB004 except increase carbonates (3%) carbonates are stained a greenish tinge (epidote/chlorite); no visible sulphides; 1 m by 0.5 m exposed rock
HNDB009	5767390	657183	Outcrop						Outcrop top of knoll 5 m by 2 m exposure; mafic; dark greyish green; aphanitic fine grained matrix with ~5% dark green/brown phenocrysts (augite) at random orientations ~2-5 mm; <<1% veining of quartz 1 mm veins with majority of veins aligned with strike 141 degrees and branches off the strike at various angles; no carbonates in upper knoll but present lower in JD sample (southwest); possible on strike with northwest (above samples); no greenish tinge; no visible sulphides
HNDB010	5768589	658919	Float						3m by 2 m; mafic; dark grey; vesicles; vesicular basalt; small sub-mm dark black metallic minerals ~1% (magnetite); slightly magnetic; no visible sulphides
HNDB011	5768571	658942	Float						Dark grey andesite with amygdules of quartz <1% and ~2-4 mm; no visible sulphides
HNDB012	5768559	658962	Float						Very fine grained dark green andesite; GPS malfunction-coordinates are estimated; no visible sulphides
HNDB013	5768541	658982	Outcrop						Very fine grained dark grey andesite; no carbonates; small 1 mm black metallic crystals (magnetite) <1%; magnetic; no visible sulphides; GPS malfunction-coordinates are estimated
HNDB014	5768440	658590	Outcrop	213	68	S	bedding		GPS malfunction coordinates are estimated; dark grey fine grained graded to coarse grained; possible bedding layers (see photograph HNDB014); possible sub-mm sulphides in matrix (pyrite+/arsenopyrite) ~1%; carbonates present ~2% fine grained intermeshed with matrix; argillaceous sandstone; small 1 mm dark black metallic minerals <1% (magnetite); hand sample; surrounded by breccia and sandstone float; vertical dip 68 degrees south and strike at 213 degrees
HNDB016	5767963	657758	Outcrop						Fine grained dark grey aphanitic andesitic tuff; nonmagnetic; spotty epidote ~5% alteration with pyrite ~1% associated with the epidote; quartz amygdules 2-4 mm with ~7% abundance; hackly to slaty fracture surface; Happy Creek sample site 175561; <1% veining ~ 3 mm width quartz veins; hand sample
HNDB017	5767980	658164	Outcrop						Fine grained matrix with ~15% phenocrysts ranging from 1 to 4 mm; dark greenish grey matrix with dark green to brown phenocrysts (augite); ~20% epidote with ~1-2% veining large 7 mm veins of quartz in random orientations; <1% silvery and yellow sulphides (pyrite and possibly arsenopyrite) and black metallic mineral (magnetite) associated with veins
HNDB018	5768157	658167	Outcrop						Same as HNDB017; ~ 7 m by 6 m exposure
HNDB019	5768163	658150	Outcrop						Same as HNDB017; ~ 5 m by 6 m exposure; except rare <1% olivine or orthopyroxene (possible epidote?) (yellow to yellowish-brown macrocrystals ~4 mm with perfect cleavage, transparent, vitreous)

2008 Hen Field Mapping Stations Rock Samples

Station ID	Northing	Easting	Outcrop/ Float	Strike	Dip	Dip Direction	Type	Assay Sample	Description
HNDB020	5768214	658065	Outcrop						Same as HNDB017; ~ 8 m by 5 m exposure
HNDB021	5768205	658028	Outcrop						Same as HNDB017 except increase in quartz amygdules 3 to 5 mm in size <1% are vugs
HNDB022	5768234	657989	Outcrop						Same as HNDB017 2 m by 2 m
HNDB023	5766768	658196	Outcrop						Dark grey aphanitic fine grained andesitic tuff; epidote alteration ~2%; veining 3 mm random orientation quartz; non magnetic; sub mm silvery sulphides (pyrite or arsenopyrite) ~1%; no carbonates
HNDB024	5766691	658589	Outcrop						Dark grey green fine grained matrix with ~8% phenocrysts (augite); dark green andesitic crystal tuff or pyroxene porphyry; veinlets of carbonates 2 mm ~<1%; no visible sulphides; non magnetic
HNDB025	5767718	658014	Outcrop						Fine grained dark grey aphanitic andesitic tuff; ~3% 1 mm black metallic minerals (magnetite); ~1% quartz veins hairline to 4 mm at random orientations; spotty epidote ~5% in areas and ~6 mm in diameter; no carbonates; no visible sulphides
HNDB026	5767666	658029	Outcrop						Top of knoll 10 m by 8 m; same as HNDB025
HNDB027	5767659	658114	Outcrop						Same as HNDB023; fewer phenocrysts 1% dark green crystals (augite) and ~ 1-2 mm
HNDB028	5767653	658397	Outcrop	70	22	W	bedding		Breccia see photograph HNDB028; fine grained to coarse grained argillaceous sandstone/siltstone with brecciated fine grained andesitic tuff; no visible sulphides
HNDB029	5768258	658145	Outcrop						Same as HNDB017 except < phenocrysts ~1%; ~10 m across and 2 m high exposed rock
HNDB030	5768431	658113	Float						Angular float; dark grey fine grained aphanitic andesite tuff; rare microcrystalline epidote zones <1%; no visible sulphides
HNDB031	5767279	659767	Outcrop						Dark grey aphanitic andesitic tuff; epidote microcrystals within matrix throughout ~5%; small black sub-mm metallic minerals (magnetite) ~1%; non magnetic; previous sample site no number; 8 m by 5 m; no visible sulphides
HNDB032	5767703	659623	Float						1 m by 0.3 m; dark grey medium grained 3-5 mm grain size; no carbonates; <1% yellow sulphides (pyrite); ~1% K feldspars; granodiorite
HNDB033	5767894	660708	Float						Dark greyish green fine grained andesitic tuff; <1% sub-mm disseminated yellow and silvery sulphides (pyrite and arsenopyrite); epidote patchy throughout ~2%; stockwork veining mainly quartz (<1% calcite in veins) ~2% veining ranging from hairline to ~4 mm; hackly to slaty fracture surface; ~1% carbonates also present as stringers
HNDB034	5766718	658801	Outcrop						Dark grey green fine grained matrix with ~20% phenocrysts (augite) ranging from 2-5 mm in random orientations; augite andesite porphyry; trace sulphides <1% rusty metallics (weathered pyrite or pyrrhotite); patches of epidote <1%; hackly fracture surface; ~1% carbonate stringers
HNDB035	5766800	657520	Outcrop						Dark grey green fine grained andesitic tuff; patches of sulphides yellow and silver (pyrite and arsenopyrite) ~4 mm at ~2%; epidote microcrystals at ~5% within matrix; sulphides associated with epidote and quartz stringers no orientation; slaty to hackly fracture surfaces; possible float sample site no number
HNDB036	5766726	657366	Outcrop						Strike 206 degrees; fracture lineaments at 77 degrees; strongly epidote altered ~40%; ~10% disseminated and stringer sulphides (pyrite and arsenopyrite); carbonates present at ~3%; very dark grey very fine grained; 6 m in 206 degrees strike direction exposure; possible dike or zone of intense alteration
HNDB037	5766729	657363	Outcrop						SW of HNDB036 is dark greyish green medium grained (gritty) andesite tuff?; no carbonates; ~5% epidote in matrix and stringers are 'oriented' appear to run at 77 degrees strike; possible mica (biotite) ~2 mm crystals <1%; no visible sulphides
HNDB038	5766712	657355	Contact						Inferred Granodiorite contact
HNDB040	5767914	658500	Contact						Inferred contact between granodiorite and andesite; same as HNJD017
HNDB041	5767150	656146	Outcrop						Hill top of trench; weakly magnetic; very dark grey and brown very fine grained; <1% sulphides (pyrite and arsenopyrite) associated with calcite veining ~1% and weak epidote patches (~1%) and <<1% throughout matrix
HNJD001	5767918	657045	Float						Large float bolder in clearcut; slaty fracture surface; olivine; pyroxene; orthopyroxene; no visual sulphide mineralization; magnetic; no visible sulphides
HNJD003	5767847	656565	Outcrop						Approximately 5 meters of exposed outcrop; fine grained; quartz-carbonate stringers in random orientations; non-magnetic; reacts strongly with acid (HCl) (carbonates present); dark; mafic minerals
HNJD004	5767413	657147	Outcrop						Quartz-calcite stringers; reacts with acid (HCl) (carbonates present); non-magnetic; mafic mineralization; no visible sulphides
HNJD005	5768583	658923	Subcrop						Magnetic; non-reactive to acid; no visible carbonates; no visible mineralization; Fe oxidation present on weathered surfaces; may be float but is large in size; outcrop in place 10 meters west; vesicle rich ~10%; 116 strike; no visible sulphides
HNJD006	5768059	658679	Subcrop						Fine grained groundmass; some ~1% sulphides pyrite disseminated; calcite and quartz clasts 1-2 mm; strongly magnetic; reactive with acid
HNJD007	5768059	658679	Outcrop						15 metres in length; visible bedding; no visible mineralization; coarse angular blocks; "volcanic-conglomerate-lapilli tuff"; 1 metre greater; pyroxene (augite)
HNJD008	5767821	657953	Outcrop						Minor (~2-3%) epidote; trace <1% sulphides; no visual bedding; trace <1% magnetite; olivine/orthopyroxene present as macrocrystals; 25 metres across; 15 metres in height
HNJD009	5768058	658019	Outcrop						Augite phenocrysts 1-2 mm ~<1%; epidote patches; vugs present -weathered sulphides? 4 mm; non-magnetic; no reaction to acid; trace ~1% sulphides; quartz stringers 2 mm scattered; unable to tell outcrop strike due to poor exposed surface
HNJD010	5768120	657995	Outcrop						No visual metallic mineralization; fine grained; minor ~1-2% epidote
HNJD011	5768150	657990	Outcrop						Fine grained; calcite stringers; trace <1% sulphides; minor ~1-2% epidote; Fe oxidation visible on weathered surface (goethite)

2008 Hen Field Mapping Stations Rock Samples

Station ID	Northing	Easting	Outcrop/ Float	Strike	Dip	Dip Direction	Type	Assay Sample	Description
HNJD011A	5768306	657926	Outcrop						Same as HENJD011
HNJD011B	5768318	657917	Outcrop						Same as HENJD011
HNJD011C	5768486	657834	Outcrop						Same as HENJD011
HNJD012	5766701	658593	Outcrop						Augite phenocrysts 1-2 mm; epidote patches; green-grey in colour
HNJD012	5766780	657421	Outcrop						Olivine phenocrysts present; augite with rare calcite stringer in matrix; 65% dark green minerals (augite); limonite present on surface; no reaction to HCl
HNJD013	5767825	657967	Outcrop						Coarse fracture surface; trace <1% sulphides; minor pyroxene (augite) phenocrysts 1mm
HNJD013	5766824	657575	Outcrop						80% mafic minerals; aphanitic with some limonite coating; approximately 5 m square; just off of the 6300 road; no visible sulphides
HNJD014	5767689	658090	Outcrop						Non-magnetic; no visible sulphides; fine quartz stringers less than 1%
HNJD014	5766800	657526	Outcrop						Fine grained with 80% dark minerals; no visible sulphides
HNJD015	5767658	658371	Outcrop						~3% Fe oxidation on weathered surface; pyroxene phenocrysts 1 mm; 2% pyroxene; trace <1% sulphides (pyrite +/- arsenopyrite) sub-mm disseminated
HNJD016	5767728	658456	Outcrop						Fine grained; non-magnetic; reacts with acid (carbonates present); trace (1%) sulphides in quartz stringers; photograph HNJD016
HNJD016A	5767754	658432	Outcrop						Same unit as HENJD016
HNJD016B	5767820	658549	Outcrop						Same unit as HENJD016
HNJD017	5767914	658500	Contact						Inferred Granodiorite contact; same as HNDB040
HNJD018	5767477	659813	Outcrop						1% augite phenocrysts; trace <1% sulphides; epidote microcrystals throughout matrix; non-magnetic; non-reactive to acid
HNJD019	5677732	659813	Outcrop						Aphanitic; trace (~1%) sulphides; reacts with acid (HCl) (carbonates present); non-magnetic; calcite stringers in random orientations; coarse grained 1% quartz stringers oriented with strike
HNJD020	5767464	661010	Outcrop						Augite phenocrysts 2 mm 2% of rock mass; reacts with acid (HCl) (carbonates present); minor ~1-2% epidote; 1 ~3 mm navy blue powdery patch/mineral present (lazurite or kyanite); no visible sulphides
HNJD021	5767092	660052	Outcrop						Trace <1% sulphides (pyrite +/- arsenopyrite); minor ~1-2% epidote; quartz; non-reactive to acid (HCl) (little to no carbonates present); strongly magnetic
HNJD022	5766845	657575	Outcrop						Trace <1% sulphides; minor ~1-2% epidote; non-reactive to acid; non-magnetic; sulphides don't appear to be associated with porphyry event; augite phenocrysts 1-4 mm <1%
HNJD023	5766769	657475	Outcrop						5% pyroxene (augite); epidote; biotite; muscovite flecks; Fe oxidation; adjacent dike/intense alteration showing
HNJD024	5765966	659166	Outcrop						Granodiorite; no sulphides or quartz veining visible
HNJD025	5766121	659054	Outcrop						Granodiorite; contact; single quartz vein 8 cm in length 1 cm in width
HNJD026	5765802	659389	Outcrop						Granodiorite; no mineralization visible or quartz veining visible
HNMR001	5766803	656577	Float						Granodiorite to Diorite to Sandstone boulders; large rounded boulders of Granodiorite/Diorite and sub-rounded boulders of Sandstone; a well beaten animal path extends ~ 030 degrees from here
HNMR002	5766684	656512	Float						Granodiorite; large rounded boulders some with minor foliation; no visible sulphide mineralization; animal path continues from HNMR001 @ ~ 45 degrees
HNMR003	5766646	656628	Float						Granodiorite; large rounded boulders some with minor foliation; no visible sulphide mineralization
HNMR004	5766772	656651	Float						Granodiorite; large rounded boulders some with minor foliation; no visible sulphide mineralization
HNMR005	5768163	655150	Float						Pyroxene (augite) porphyry - with up to 5% calcite amygdules; no visible sulphides but strong limonite coating on exterior; all other boulders near here are granitic and very well rounded
HNMR006	5768193	655250	Float						45.72 m diameter depression with strong evidence for a previous high water mark some 2-3 m above the current bog; the entire area is a dead zone with previous growth showing bleaching up to the high water mark; likely related to beaver activity; a wide variety of mixed boulders and till including granite/granodiorite, vesicular basalt with olivine (macrocrysts), rhyolite, several sub-angular boulders of pyroxene (augite) porphyry with 1-2% disseminated pyrite; one sub-angular boulder of andesite tuff has up to 5% stringers of calcite; no visible outcrop within the area
HNMR007	5768046	655358	Float						Small knob of boulders consisting mainly of large rounded granodiorite with lesser sub-angular boulders of pyroxene (augite) porphyry with 1-2% disseminated sulphide (pyrite)
HNMR008	5767909	655200	Float						Mudflake breccia in siltstone; sub-rounded boulder with 2-5% disseminated pyrite
HNMR010	5767944	655080	Outcrop	0	65	E	bedding		Siltstone/Mudstone; interbedded silty mudstone/chert or silty mud with silicified layer; similar to HNMR009 but less sulphide (<5%) and weaker hornfels (weak); bedding
HNMR011	5768006	655097	Float						Granodiorite; very large erratic or outcrop; weak limonitic coating; one boulder on top contained a small thread of sulphide (pyrite?); very weathered; jointing visible
HNMR012	5768040	655122	Subcrop						Silty mudstone; fine grained with moderate hornfels, cherty; similar to HNMR009; sulphides up to 10% locally but generally 5% pyrite; strong limonitic coating
HNMR013	5768148	654999	Subcrop						Silty mudstone with a frothy off white veining (not calcite) and localized blood red color; minor limonite; trace hematite stain; subcrop to float; note that sulphide has been decreasing since HNMR010

2008 Hen Field Mapping Stations Rock Samples

Station ID	Northing	Easting	Outcrop/ Float	Strike	Dip	Dip Direction	Type	Assay Sample	Description
HNMRO14	5767058	658995	Outcrop						Localized breccia and minor stockwork carbonate and localized crackle texture; weathering surface - white to light tan; outcrop trend is 132 with varying dip; "cherty-tuff"; outcrop trends with cleavage planes
HNMRO15	5767063	659022	Subcrop						Veinlets present in unit; light green with 5% disseminated pyrite >> arsenopyrite and disseminated within the host rock (<1% pyrite >> arsenopyrite); veining in stockwork; brown to rusty weathering (limonite-hematite); "tuff-diopside-skarn"
HNMRO16	5766716	657368	Outcrop						Hornblende skarn with localized K feldspar veins and quartz veins; minor Granodiorite dikes <1 m
HNMRO17	5766716	657368	Outcrop						As per HNMRO16 except more K feldspar and +/- stockwork veinlets
HNMRO18	5766716	657368	Contact	358	70	W	contact		Contact between strong hornblende skarn and granodiorite; strike 358 dip 70W; contact is approximate; skarn on the south of the contact; could the granodiorite be a dike?; contact
HNMRO19	5766716	657368	Outcrop						Mixed boulders of hornblende skarn, limonitic (coated) hornblende skarn, and granodiorite
HNMRO20	5766716	657368	Outcrop						Gossanous zone of strong limonite alteration with minor veinlets of quartz clots and veinlets of ankerite +/- sulphides; only the eastern contact was visible
HNMRO21	5766748	657449	Outcrop						Limonitic hornblende skarn as in MKHN020; approximately 5 m wide at this point; contacts buried beneath rubble; remnant augite pyroxene porphyry texture; localized carbonate veins folded to "S" shape, the axis of which is 304>unknown
HNMRO22	5766748	657449	Outcrop						Contact between a weakly foliated augite pyroxene porphyry with augite altered to kaolinite or feldspar porphyry with feldspar altered to a white clay; phenocrysts approximately 1 mm by 3 mm; contact defined by a silty layer with a augite porphyry/hornblende skarn to the south
HNMRO23	5766748	657449	Outcrop						Hornblende skarn (hornfels app?); locally limonitic; small outcrop parallel to road
HNSB001	5768078	657142	Float						Mafic; dark grey; aphanitic (one visible pyroxene phenocryst); very siliceous; minor (1-2%) disseminated pyrite
HNSB002	5768263	656734	Float						Mafic; aphanitic; siliceous; no visible sulphides
HNSB003	5768133	657074	Float						Mafic; aphanitic groundmass with occasional rectangular crystal faces of hornblende or pyroxene (augite); rare (<1%) disseminated pyrite
HNSB004	5768795	657382	Outcrop						Mafic; very siliceous groundmass; quartz veins and small veinlets of calcite in random orientations; aphanitic groundmass with small (<1 mm) square phenocrysts (black) (augite or hornblende); 2 possible trends 105 and 345
HNSB005	5768374	657292	Outcrop	352	86	W	bedding		Mafic; less quartz in matrix than HNSB004; very fine grained disseminated sulphide (pyrite)
HNSB006	5767958	657764	Outcrop						Mafic; resembles HNSB004; very siliceous; quartz veins with minor epidote associated
HNSB007	5767662	657601	Float						Fine grained matrix with up to 40% phenocrysts of pyroxene; no sulphides; appears to be occasional lapilli of chert-like material (<1%); Crystal Tuff??
HNSB008	5767494	657145	Outcrop						30-40% phenocrysts in mafic groundmass; no sulphides; non magnetic; surface of outcrop is rounded/bulbous/pillowy...possibly Pillow Basalt??; possible trends of 090 and 050
HNSB009	5767468	657093	Outcrop						Decrease in phenocrysts to 20%; mafic; fine grained groundmass
HNSB010	5769266	659108	Float						Porphyry; rare augite phenocrysts but most (80%) are replaced with epidote
HNSB011	5769919	659629	Float						Fine grained; aphanitic; sandstone??; dark grey; <0.5% disseminated pyrite; non magnetic
HNSB012	5769617	658954	Outcrop						5-10% phenocrysts (euhedral) up to 0.5 cm long; magnetic; about 50% of phenocrysts replaced with epidote; very fine grained green matrix; minor disseminated pyrite
HNSB013	5769618	658940	Outcrop						Porphyry but has coarser groundmass than HNSB012, slightly magnetic, very little epidote
HNSB014	5769205	658407	Outcrop						Surface of outcrop has texture of conglomerate but all fresh surfaces appear to be green; fine grained and aphanitic; with minor (1-2%) epidote; very magnetic; abundant (10%) calcite in groundmass; amygdules of quartz
HNSB015	5769232	658136	Outcrop						Also conglomerate-looking; actual fresh surface appears to be Porphyry like HNSB012 with epidote replaced phenocrysts; also magnetic
HNSB016	5769298	658007	Outcrop						Porphyry; magnetic; no sulphides; few (3%) quartz amygdules; no effervescence
HNSB017	5769462	657871	Outcrop						Porphyry with abundant quartz calcite veinlets and amygdules; minor (1-2%) pyrite associated with veinlets; low magnetism; around 10% phenocrysts (euhedral); <2 mm
HNSB018	5769464	657933	Outcrop						Approximately 20% phenocrysts; 1-2mm; matrix has abundant (10%) calcite; rare disseminated pyrite; magnetic; appears 'layered' in 10 cm beds
HNSB019	5767121	659381	Outcrop						Fine to medium grained; dark grey to green; occasional pyroxene (augite) phenocrysts (euhedral, <5%); biotite phenocrysts (5-10%); 5% sulphides (pyrrhotite); surface of outcrop is bulbous (pillow basalt?)
HNSB020	5767156	659352	Float						Same as HNSB019 with biotite and pyrrhotite
HNSB021	5767231	659328	Outcrop						Like HNSB019 but can't see any phenocrysts of pyroxene (augite); biotite is <1 mm; sulphides about 5%; magnetic
HNSB022	5767302	659305	Outcrop						Same as HNSB021 but decrease in biotite (1-2%) and pyrite (<1%)
HNSB023	5767374	659338	Outcrop						Porphyritic with about 25% phenocrysts (pyroxene (augite), black, euhedral); matrix has crystalline (sugary) texture; magnetic; no sulphides; no biotite
HNSB024	5767403	659378	Outcrop						Appears porphyritic but phenocrysts not visible on fresh surface; looks like about 40% phenocrysts on weathered surface; minor epidote inclusions; about 1% sulphides; magnetic; possible lapilli (only can see on weathered surface)
HNSB025	5767500	659370	Outcrop						Like HNSB024 but with about 25% phenocrysts (augite); magnetic; sulphides (pyrite and arsenopyrite) around 1%

2008 Hen Field Mapping Stations Rock Samples

Station ID	Northing	Easting	Outcrop/ Float	Strike	Dip	Dip Direction	Type	Assay Sample	Description
HNSB026	5767591	659359	Outcrop						Like HNSB024 and HNSB025 but phenocrysts (augite) are faint and around 5%; groundmass is sugary (crystalline); very siliceous; magnetic; no sulphides
HNSB027	5767643	659354	Outcrop						Very siliceous matrix (can see black flecks of biotite(?) (magnetite) but not much else); magnetic; top of outcrop seems to have phenocrysts on weathered surface
HNSB028	5767656	659331	Outcrop	94	78	S	bedding		Sandstone with mm-cm scale bedding; fine to medium grained; non magnetic; few sulphides (<5%) (pyrite and arsenopyrite); minor (1-2%) calcite in matrix
HNSB029	5767725	659264	Outcrop						Sandstone as HNSB028
HNSB030	5767862	659109	Float						Siliceous matrix with 5-10% black "phenocrysts" (augite) or grains; no sulphides; one large angular clast (breccia??); non magnetic
HNSB031	5767882	659060	Outcrop						Argillite; very fine grained dark grey to black mudstone with 2-4% sulphides (pyrite); non magnetic; no effervescence (little to no carbonates)
HNSB033	5767894	658781	Outcrop						Siltstone (not as fine grained as HNSB031 Argillite); 2-4% disseminated pyrite; mm stringers of quartz; nonmagnetic; no effervescence (little to no carbonates); bedding not obvious
HNSB034	5767732	658949	Float						Crystalline/sugary matrix with faint black phenocrysts (pyroxene) (augite); slightly magnetic; poor exposure of outcrop surface
HNSB035	5767462	659246	Outcrop						Porphyry with faint phenocrysts (augite); coarser matrix; no sulphides; very siliceous
HNSB036	5767387	659224	Outcrop						Same porphyry as HNSB035; some biotite (black phenocrysts 20%) (magnetite); no sulphides; slightly magnetic
HNSB037	5767195	659234	Float						Fine grained sandstone; very siliceous; <1% sulphides (pyrite)
HNSB038	5767198	659199	Outcrop	60	58	S	bedding		Fine grained sandstone with mm-cm laminations/bedding visible on weathered surface; magnetic
HNSB039	5767160	659136	Outcrop						Porphyry with 35% phenocrysts (augite); black pyroxene (not well defined) (augite); siliceous matrix; magnetic; no sulphides
HNSB040	5767096	659112	Outcrop						Fine grained; siliceous sandstone(?); no visible bedding; epidote 'patches' with associated sulphides (pyrite); very magnetic
HNSB041	5767078	659112	Outcrop						Fine to medium grained; black 'specks' (grains or phenocrysts?) (magnetite); no apparent bedding; epidote veins and patches with occasional sulphides (pyrite and arsenopyrite); magnetic
HNSB042	5769643	657814	Outcrop						Very green porphyry with subhedral to anhedral 40-50% phenocrysts (augite) up to 5mm; occasional sulphides (pyrite and arsenopyrite) (<0.5%); magnetic; minor (1-2%) calcite in groundmass
HNSB043	5769746	657926	Outcrop						Porphyry with very fine matrix; phenocrysts (augite) are small (<4 mm) and up to 40%; about half (~50%) of phenocrysts (augite) are replaced by epidote; calcite in groundmass as well as veins and veinlets; minor sulphides (approximately 1% pyrrhotite or arsenopyrite); magnetic
HNSB044	5769901	657947	Float						Porphyry with about 30% augite phenocrysts and 20% greenish macrocrysts (either epidote replacement or olivine?); magnetic; no effervescence (little to no carbonates); no visible sulphides
HNSB045	5769956	657979	Outcrop						Abundant scattered float between this point and HNSB044 - all the same material but start to get quartz amygdules up to 5% of rock (no effervescence); no sulphides; decrease in green olivine/epidote macrocrysts
HNSB046	5769979	657985	Float						Rock slide with same porphyry as HNSB045; magnetic; no visible sulphides
HNSB047	5769989	657919	Subcrop						Porphyry with about 20% augite and 20% long bladed needle-like black phenocrysts (hornblende); magnetic; no visible orientation or bedding; lateral extent not much (about 5 m west and visible for 10 m north); surrounded by same augite porphyry as HNSB046; hornfels?
HNSB048	5770002	657857	Outcrop						Porphyry with green epidote or olivine macrocrysts; magnetic; no visible sulphides
HNSB049	5709124	656816	Float						About 30% phenocrysts (augite); non- to low magnetism; minor disseminated pyrite (<0.5%); dark grey - less greenish tinge from other stations today
HNSB050	5769093	656824	Float						Very fine grained groundmass with <5% euhedral pyroxene (augite) phenocrysts; non magnetic; no visible sulphides; dark grey
HNSB051	5769088	657041	Outcrop						Porphyry; phenocrysts (augite) really small (sub-mm) up to 40%; no sulphides; magnetic; some (3-4%) green epidote present
HNSB052	5769074	656998	Outcrop						Very small (sub-mm) (augite) phenocrysts around 20% <2 mm; no visible sulphides; few (2-3%) calcite veinlets; non magnetic; no apparent bedding
HNSB053	5769338	657532	Float						Fine grained; greenish; aphanitic; definitely volcanic; slightly magnetic; no visible sulphides; calcite in matrix
HNSB054	5769429	657480	Outcrop						Porphyry with augite phenocrysts (30%); very magnetic; no visible sulphides; abundant (10%) calcite in matrix
HNSB055	5769572	657627	Float						Porphyry with abundant (30%) faint black phenocrysts (augite); no visible sulphides; abundant (10%) calcite in matrix; non magnetic
HNSB056	5767106	656062	Outcrop	95	85	N	bedding		Siltstone; fine grained; dark grey; non magnetic; no effervescence (little to no carbonates); thin (1-2 mm) quartz veins coincide with bedding with associated sulphides (pyrite)
HNSB057	5767464	661018	Float						Coarse grained matrix with abundant augite phenocrysts (30-40%); no effervescence (little to no carbonates); non magnetic
HNSB058	5768239	660883	Outcrop						Very fine grained; dark grey to black; some (2-3%) disseminated sulphides (pyrite and arsenopyrite); non magnetic; calcite veinlets; no apparent bedding
HNSB059	5768261	661141	Float						Clasts of siltstone, porphyry and tuff; non magnetic
HNSB060	5768195	661591	Float						Dark grey to black with disseminated sulphides (pyrite and arsenopyrite) (undifferentiated)

2008 Hen Field Mapping Stations Rock Samples

Station ID	Northing	Easting	Outcrop/ Float	Strike	Dip	Dip Direction	Type	Assay Sample	Description
HNSB061	5768175	661797	Float						Float; most likely transported from elsewhere
HNSB062	5768073	662202	Outcrop						Porphyry with quartz amygdules and augite phenocrysts (about 5%); non magnetic; no visible sulphides; no effervescence (little to no carbonates)
HNSB063	5767750	662563	Outcrop						Dark grey to black with disseminated sulphides (pyrite and arsenopyrite) (undifferentiated)
HNSB065	5767628	662597	Outcrop						Brittle; dark grey to black very fine grained; disseminated sulphides (pyrite and arsenopyrite)
HNSB066	5767535	662618	Outcrop	135	48	E	bedding		Can see thin argillite contact here; siltstone is about 8 m wide along road then back to argillite (about 15 m exposure)
HNSB067	5767181	662594	Outcrop						Grey; strong effervescence in matrix (carbonates present); siliceous; disseminated sulphides about 2-4% (arsenopyrite?); non magnetic
HNSB068	5767156	662549	Outcrop						Argillite with few quartz veins (1 cm wide) cutting through with a strike of 065
HNSB069	5767013	662290	Outcrop						Appears like possible conglomerate on weathered surface but on fresh surface is very siliceous; aphanitic with calcite stringers; non magnetic
HNSB070	5766981	662261	Outcrop	125	40	N	bedding		Medium grained with occasional fresh crystal face visible (phenocrysts of augite); minor calcite veining; no visible sulphides
HNSB071	5767088	662272	Outcrop						Coarser grained than previous but abundant (30%) (augite) phenocrysts (black, up to 0.5 cm, possibly some biotite); greenish grey matrix; minor (2-3%) calcite; non magnetic
HNSB072	5767358	662051	Outcrop						
HNSB074	5767205	662413	Outcrop						Argillite
HNSB075	5766697	662668	Float						Looks like conglomerate on weathered surface; fresh surface is fine grained; aphanitic (tuff?); non magnetic; no visible sulphides
HNSB076	5766683	662641	Outcrop						Phenocryst-packed up to 40% (augite); weathered surface has abundant vesicles where (augite) phenocrysts weathered out; also looks like some sub-rounded "chert" breccia (or lapilli?); no visible sulphides; no effervescence (little to no carbonates present)
HNSB077	5766742	662568	Outcrop						Has conglomerate look as above but also packed with (augite) phenocrysts
HNSB078	5766709	662501	Outcrop						Definitely conglomerate; bedding not obvious; seems to be (augite) phenocrysts throughout all individual pieces; no visible sulphides
HNSB079	5766703	662418	Outcrop						
HNSB080	5766767	662342	Outcrop						
HNSB081	5766761	662252	Outcrop						Less 'bulbous' looking but still resembles conglomerate; main rock is porphyry but individual constituents are sometimes aphanitic with occasional pyrrhotite sulphides
HNSB083	5766942	662015	Outcrop						
HNSB084	5768141	656149	Outcrop						Black; fissile; interbedded with siliceous siltstone; visible for about 100 m along roadway perpendicular to strike
HNSB085	5768077	656126	Outcrop						
HNSB086	5767879	656160	Outcrop						Location of Northwest Marble showing from Dave Ridley; showing is float but adjacent to it is outcrop of Argillite with interbedded siliceous siltstone
HNSB087	5767821	656195	Outcrop						
HNSB088	5767597	656807	Outcrop						Looks like Argillite but with (augite) phenocrysts; dark grey; very fine grained with rare flashes of augite phenocrysts (black, <5%); minor (2-3%) calcite veinlets; very small (1 mm to sub-mm) quartz veinlets in random orientations; doesn't fracture like Argillite; no visible sulphides; adjacent to this (in contact) is a more obvious porphyry with 30% (augite) phenocrysts; possible contact zone?
HNSB089	5765369	658942	Float						
HNSB090	5765183	658841	Float						
HNSB091	5765344	658514	Float						
HNSB092	5765384	658495	Outcrop						
HNSB093	5765438	658471	Outcrop						Outcrop extends up valley, possible fault zone?; not shown on maps as a drainage channel
HNSB094	5765537	658474	Outcrop						
HNSB095	5765564	658371	Outcrop						
HNSB096	5767168	655979	Outcrop						Argillite

2008 Hen Field Mapping Stations Rock Samples

Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HNSB032	Sandstone	Sa	Pyrrhotite	po	Oxidation	Oxi	
HNSB064	Siltstone	Sl	Pyrrhotite	po	Silicification	Sil	
HNSB082	Andesitic Volcanic Conglomerate	Vc					
HNDB039	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py	Carbonatization	Car	
HNMR009	Siltstone	Sl	Pyrite	py 5%	Silicification	Sil	
HNJD027							
HNBL001	Vesicular Basalt	Vb					
HNBL002	Andesitic Volcanic Conglomerate	Vc					
HNBL003	Siltstone	Sl					
HNBL004	Sandstone/Siltstone	Sa/Sl					
HNBL005	Andesitic Volcanic Conglomerate	Vc					
HNBL006	Sandstone/Siltstone	Sa/Sl					
HNCP1	Skarn	Sk					
HNCP2	Skarn	Sk					
HNDB001	Vesicular Basalt	Vb					
HNDB002	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py tr			
HNDB003	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HNDB004	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py	Propylitic	Prp	Carbonatization
HNDB005	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py	Propylitic	Prp	Carbonatization
HNDB006	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py	Propylitic	Prp	Carbonatization
HNDB007	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	Propylitic
HNDB008	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Carbonatization
HNDB009	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Silicification	Sil	
HNDB010	Vesicular Basalt	Vb					
HNDB011	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Silicification	Sil	
HNDB012	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HNDB013	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HNDB014	Sandstone/Siltstone	Sa/Sl	Pyrite, Arsenopyrite	py, ar	Carbonatization	Car	
HNDB016	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py 1%	Propylitic	Prp	
HNDB017	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py tr	Propylitic	Prp	Silicification
HNDB018	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py tr	Propylitic	Prp	Silicification
HNDB019	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py tr	Propylitic	Prp	Silicification

2008 Hen Field Mapping Stations Rock Samples

Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HNDB020	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py tr	Propylitic	Prp	Silicification
HNDB021	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py tr	Propylitic	Prp	Silicification
HNDB022	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py tr	Propylitic	Prp	Silicification
HNDB023	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py tr	Propylitic	Prp	Silicification
HNDB024	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Carbonatization	Car	
HNDB025	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Silicification
HNDB026	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Silicification
HNDB027	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite, Arsenopyrite	py	Propylitic	Prp	Silicification
HNDB028	Argillite	Ar					
HNDB029	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite, Arsenopyrite	py	Propylitic	Prp	Silicification
HNDB030	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HNDB031	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HNDB032	Granodiorite	Gd	Pyrite	py			
HNDB033	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite, Arsenopyrite	py, ar	Propylitic	Prp	Carbonatization
HNDB034	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite, Pyrrhotite	py, po	Propylitic	Prp	Carbonatization
HNDB035	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite, Arsenopyrite	py, ar	Propylitic	Prp	
HNDB036	Mafic Dike	Md	Pyrite, Arsenopyrite	py, ar	Propylitic	Prp	Carbonatization
HNDB037	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HNDB038	Granodiorite	Gd					
HNDB040							
HNDB041	Siltstone	Sl	Pyrite, Arsenopyrite	py, ar	Carbonatization	Car	Propylitic
HNJD001	Basalt	Ba					
HNJD003	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Silicification	Sil	Carbonatization
HNJD004	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Silicification	Sil	Carbonatization
HNJD005	Vesicular Basalt	Vb			Oxidation	Oxi	
HNJD006	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py	Carbonatization	Car	
HNJD007	Andesitic Volcanic Conglomerate	Vc					
HNJD008	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HNJD009	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	Silicification
HNJD010	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HNJD011	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	Propylitic/Oxidation

2008 Hen Field Mapping Stations Rock Samples

Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HNJD011A	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	Propylitic/Oxidation
HNJD011B	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	Propylitic/Oxidation
HNJD011C	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	Propylitic/Oxidation
HNJD012	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HNJD012	Basalt	Ba					
HNJD013	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py tr			
HNJD013	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Oxidation	Oxi	
HNJD014	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Silicification	Sil	
HNJD014	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HNJD015	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py	Oxidation	Oxi	
HNJD016	Argillite	Ar			Silicification	Sil	
HNJD016A	Argillite	Ar			Silicification	Sil	
HNJD016B	Argillite	Ar			Silicification	Sil	
HNJD017	Granodiorite	Gd					
HNJD018	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Propylitic	Prp	
HNJD019	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	
HNJD020	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Carbonatization	Car	Propylitic
HNJD021	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py	Propylitic	Prp	Silicification
HNJD022	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HNJD023	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	Oxidation
HNJD024	Granodiorite	Gd			None	Non	
HNJD025	Granodiorite	Gd			Silicification	Sil	
HNJD026	Granodiorite	Gd			None	Non	
HNMR001	Granodiorite	Gd			None	Non	
HNMR002	Granodiorite	Gd			None	Non	
HNMR003	Granodiorite	Gd			None	Non	
HNMR004	Granodiorite	Gd			None	Non	
HNMR005	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HNMR006	Granodiorite	Gd	Pyrite	py			
HNMR007	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py 1%			
HNMR008	Siltstone	Sl	Pyrite	py 2%			
HNMR010	Siltstone	Sl	Chalcopyrite	cp	Silicification	Sil	
HNMR011	Granodiorite	Gd	Pyrite	py tr	Hornfels	Hnf	
HNMR012	Siltstone	Sl	Pyrite	py 5%			
HNMR013	Siltstone	Sl	Pyrite	py tr			

2008 Hen Field Mapping Stations Rock Samples

Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HNMR014	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	
HNMR015	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite, Arsenopyrite	py 5%, ar tr			
HNMR016	Skarn	Sk			Potassic	Pot	Silicic
HNMR017	Skarn	Sk			Potassic	Pot	Silicic
HNMR018	Granodiorite	Gd					
HNMR019	Skarn	Sk					
HNMR020	Skarn	Sk					
HNMR021	Skarn	Sk					
HNMR022	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Argillic	Arg	
HNMR023	Skarn	Sk					
HNSB001	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HNSB002	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HNSB003	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py			
HNSB004	Argillite	Ar			Silicification	Sil	Carbonatization
HNSB005	Argillite	Ar	Pyrite	py			
HNSB006	Argillite	Ar			Silicic		
HNSB007	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HNSB008	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HNSB009	Andesite Tuff and Andesitic Augite Crystal Tuff	At					
HNSB010	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HNSB011	Andesite Tuff and Andesitic Augite Crystal Tuff	At	Pyrite	py tr			
HNSB012	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py tr	Propylitic	Prp	
HNSB013	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HNSB014	Andesitic Volcanic Conglomerate	Vc			Propylitic	Prp	
HNSB015	Andesitic Volcanic Conglomerate	Vc			Propylitic	Prp	
HNSB016	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HNSB017	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Carbonatization	Car	
HNSB018	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py tr	Carbonatization	Car	
HNSB019	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrrhotite	po 3%			
HNSB020	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrrhotite	po			
HNSB021	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HNSB022	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py tr	Unknown	Unk	
HNSB023	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			None	Non	
HNSB024	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HNSB025	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite, Arsenopyrite	py, ar	Propylitic	Prp	

2008 Hen Field Mapping Stations Rock Samples

Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HNSB026	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicification	Sil	Propylitic
HNSB027	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicification	Sil	
HNSB028	Sandstone	Sa	Pyrite, Arsenopyrite	py, ar	Carbonatization	Car	
HNSB029	Sandstone	Sa	Pyrite, Arsenopyrite	py, ar	Carbonatization	Car	
HNSB030	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicification	Sil	
HNSB031	Argillite	Ar	Pyrite	py 2%			
HNSB033	Siltstone	Sl	Pyrite	py 2%	Silicification	Sil	
HNSB034	Sandstone	Sa					
HNSB035	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicification	Sil	
HNSB036	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicification	Sil	
HNSB037	Sandstone	Sa	Pyrite	py	Silicification	Sil	
HNSB038	Sandstone	Sa					
HNSB039	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicification	Sil	
HNSB040	Sandstone	Sa	Pyrite	py	Propylitic	Prp	
HNSB041	Sandstone	Sa	Pyrite	py	Propylitic	Prp	
HNSB042	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite, Arsenopyrite	py, ar	Propylitic	Prp	Carbonatization
HNSB043	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Arsenopyrite, Pyrrhotite	ar, po	Propylitic	Prp	Carbonatization
HNSB044	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HNSB045	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HNSB046	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HNSB047	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Silicification	Sil	
HNSB048	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HNSB049	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite	py tr	Propylitic	Prp	
HNSB050	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HNSB051	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Propylitic	Prp	
HNSB052	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Carbonatization	Car	
HNSB053	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	Propylitic
HNSB054	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Carbonatization	Car	
HNSB055	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Carbonatization	Car	
HNSB056	Siltstone	Sl	Pyrite	py			
HNSB057	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HNSB058	Argillite	Ar	Pyrite, Arsenopyrite	py, ar	Carbonatization	Car	
HNSB059	Andesitic Volcanic Conglomerate	Vc					
HNSB060	Argillite	Ar	Pyrite, Arsenopyrite	py, ar			

2008 Hen Field Mapping Stations Rock Samples

Station ID	Lithology	Lithology Code	Sulphides	Sulphides Code	Alteration	Alteration Code	Secondary Alteration
HNSB061	Sandstone	Sa					
HNSB062	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HNSB063	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap	Pyrite, Arsenopyrite	py, ar			
HNSB065	Argillite	Ar	Pyrite, Arsenopyrite	py, ar			
HNSB066	Siltstone	Sl					
HNSB067	Siltstone	Sl	Arsenopyrite	ar 2%	Silicification	Sil	
HNSB068	Argillite	Ar			Silicification	Sil	
HNSB069	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Silicification	Sil	Carbonatization
HNSB070	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	
HNSB071	Andesite Tuff and Andesitic Augite Crystal Tuff	At			Carbonatization	Car	
HNSB072	Argillite	Ar					
HNSB074	Argillite	Ar					
HNSB075	Andesitic Volcanic Conglomerate	Vc					
HNSB076	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HNSB077	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap					
HNSB078	Andesitic Volcanic Conglomerate	Vc					
HNSB079	Andesitic Volcanic Conglomerate	Vc					
HNSB080	Andesitic Volcanic Conglomerate	Vc					
HNSB081	Andesitic Volcanic Conglomerate	Vc	Pyrrhotite	po tr			
HNSB083	Andesitic Volcanic Conglomerate	Vc			Unknown	Unk	
HNSB084	Argillite	Ar			Silicification	Sil	
HNSB085	Argillite	Ar			Unknown	Unk	
HNSB086	Argillite	Ar			Silicification	Sil	
HNSB087	Argillite	Ar			Unknown	Unk	
HNSB088	Andesitic Augite Porphyry and Augite-phyric Andesite	Ap			Carbonatization	Car	Silicification
HNSB089	Granodiorite	Gd			Unknown	Unk	
HNSB090	Granodiorite	Gd			Unknown	Unk	
HNSB091	Granodiorite	Gd			Unknown	Unk	
HNSB092	Granodiorite	Gd			Unknown	Unk	
HNSB093	Granodiorite	Gd			Unknown	Unk	
HNSB094	Granodiorite	Gd			Unknown	Unk	
HNSB095	Granodiorite	Gd			Unknown	Unk	
HNSB096	Argillite	Ar			None	Non	

APPENDIX G
GEOCHEMICAL SURVEY SOIL, SILT AND ROCK RESULTS

ALLNORTH CONSULTANTS LIMITED

Hen Soil Geochemical Samples

Sample	Easting	Northing	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
59000E 66600N	659000	5766600	1	68.0	4	71	0.20	172.8	33.8	707	4.79	12.80	0.6	2.80	0.6	36	0.4	0.40
59000E 66650N	659000	5766650	1.3	91.6	6.5	79	0.20	67	26.1	662	5.31	20.60	0.6	3.20	0.7	33	0.3	1.30
59000E 66700N	659000	5766700	0.6	96.7	3.4	78	0.10	54.8	31.6	548	5.65	10.20	0.6	2.80	1.1	23	0.2	0.50
59000E 66750N	659000	5766750	1.5	74.7	7	73	0.30	62.7	18.4	440	4.34	19.40	0.6	2.50	0.4	20	0.9	1.00
59000E 66800N	659000	5766800	1.3	70.9	5.7	75	0.20	78.2	23.8	591	4.82	17.60	0.5	5.80	0.5	21	0.4	1.20
59000E 66850N	659000	5766850	1.6	85.5	6.9	81	0.40	62.3	23.8	869	5.38	21.80	0.7	3.70	0.7	33	0.5	1.50
59000E 66900N	659000	5766900	2.5	287.5	8.4	80	0.90	231.3	30.8	866	5.24	41.50	2.5	7.60	0.8	46	1.2	2.50
59000E 66950N	659000	5766950	1.5	56.0	8	55	0.30	30.9	10	377	3.67	19.10	0.5	3.50	0.3	14	0.3	1.10
59000E 67000N	659000	5767000	1.6	84.4	6.9	63	0.10	92.5	37.5	648	5.81	17.70	0.5	2.60	0.6	32	0.2	2.80
59000E 67050N	659000	5767050	1.1	80.9	7.6	182	0.30	37.4	22.6	797	4.73	135.30	0.5	6.10	0.5	26	0.5	1.60
59000E 67100N	659000	5767100	1.9	95.5	7.6	113	0.40	59.9	24.7	801	5.08	115.80	0.7	8.10	0.6	35	1.1	1.60
59000E 67150N	659000	5767150	1.2	112.1	5.5	125	0.20	51.1	28.2	764	4.98	55.50	0.6	3.10	1.1	48	0.3	1.90
59000E 67200N	659000	5767200	1.4	48.4	6	145	0.30	31.7	20.4	453	5.58	13.60	0.3	1.70	0.5	22	0.6	1.30
59000E 67250N	659000	5767250	1.5	43.2	7.1	89	0.20	27.8	16.6	407	3.52	11.60	0.4	3.40	0.9	15	0.2	0.50
59000E 67300N	659000	5767300	1.3	54.3	8.6	131	0.10	44.9	19.3	486	4	16.20	0.4	4.50	0.9	19	0.9	0.80
59000E 67350N	659000	5767350	1.4	49.9	8	139	0.40	41.2	19.2	451	4.23	13.00	0.6	3.50	0.7	34	0.6	0.80
59000E 67400N	659000	5767400	1.3	36.0	7.7	340	0.20	35.9	14.8	477	3.64	12.50	0.4	9.10	0.7	24	1.1	0.80
59000E 67450N	659000	5767450	1.7	75.4	13.6	102	<0.1	51.9	16.8	405	4.18	19.10	0.5	4.80	1.4	21	0.3	0.90
59000E 67500N	659000	5767500	1.6	42.4	7.1	104	0.20	39.5	14.4	474	4	10.20	0.5	2.70	0.5	24	0.3	0.50
59000E 67550N	659000	5767550	1.5	66.7	7.1	79	<0.1	33.2	14.7	308	4.02	17.70	0.6	4.50	0.9	13	0.2	0.80
59000E 67600N	659000	5767600	1.6	46.4	7.8	106	0.20	35.8	14.9	581	3.58	23.20	0.5	1.30	0.2	37	0.3	0.70
58800E 66550N	658800	5766550	1.6	74.1	6.1	88	0.10	68.6	22.4	649	4.06	19.30	0.7	1.90	1	37	0.4	1.30
58800E 66600N	658800	5766600	0.9	61.0	4.8	96	0.10	161.6	33.9	749	5.17	15.40	0.5	9.10	0.7	39	0.3	1.10
58800E 66650N	658800	5766650	1.3	90.3	6.3	96	0.20	71.2	24.9	543	4.81	22.60	0.6	5.50	0.9	30	0.5	1.20
58800E 66700N	658800	5766700	1.3	54.1	6.6	97	0.60	60.1	20.4	488	4.56	13.30	0.5	1.60	0.6	37	0.5	1.20
58800E 66750N	658800	5766750	0.6	127.5	4.9	92	<0.1	40.3	34.8	734	5.86	22.10	0.8	5.10	1.2	25	0.2	1.00
58800E 66800N	658800	5766800	1.2	98.0	6.4	90	0.20	69.4	25.4	638	4.32	23.10	0.9	8.20	1	39	0.4	1.10
58800E 66850N	658800	5766850	1.3	86.7	5.3	64	<0.1	61.9	26	527	3.92	23.90	0.4	3.70	1.3	30	0.2	1.10
58800E 66900N	658800	5766900	0.9	115.9	4.6	61	<0.1	53.6	26.1	633	4.29	25.30	0.9	8.10	1.6	42	0.1	1.20
58800E 66950N	658800	5766950	1	62.1	7.2	91	0.20	54.6	25.4	452	4.74	28.60	0.5	3.00	0.6	29	0.3	1.20
58800E 67000N	658800	5767000	1.1	60.4	5.4	89	0.20	38.3	20.2	534	4.39	30.10	0.5	3.90	0.6	30	0.2	0.90
58800E 67050N	658800	5767050	1	65.6	6.7	118	<0.1	49.9	21.3	380	4.96	22.80	0.4	2.50	0.9	22	0.3	1.00
58800E 67100N	658800	5767100	1.1	83.9	6.4	98	0.10	49.8	22.8	551	4.29	39.90	0.5	3.90	0.7	26	0.3	1.40
58800E 67200N	658800	5767200	1.2	57.5	11.9	157	0.20	22.8	16.4	571	3.75	11.50	0.3	5.30	0.7	19	0.8	0.60
58800E 67250N	658800	5767250	1.1	52.1	13.2	116	0.20	27.6	14.4	545	3.92	16.70	0.4	4.10	0.5	28	0.5	0.80
58800E 67300N	658800	5767300	0.9	55.1	7.2	253	0.30	39.5	18.8	454	3.62	17.80	0.3	2.50	0.6	18	1.4	0.80
58800E 67350N	658800	5767350	1	38.6	6.3	124	0.10	45.4	14.1	251	3.07	14.40	0.3	2.20	0.8	16	0.8	0.80
58800E 67400N	658800	5767400	1.5	89.0	8.3	105	0.30	59	23	644	4.03	24.90	0.8	4.40	0.7	23	0.8	1.00
58800E 67450N	658800	5767450	1.3	96.3	10.3	97	0.20	66	23.3	896	4.06	20.20	0.7	2.90	0.6	37	0.7	0.90
58800E 67500N	658800	5767500	1.4	89.4	8.3	124	0.30	65.5	27	721	4.63	120.40	0.6	6.30	0.6	33	0.6	1.20
58800E 67550N	658800	5767550	1.2	29.1	9.9	112	0.10	30.5	18.1	766	4.09	13.90	0.4	0.25	0.4	18	0.3	0.60
58800E 67600N	658800	5767600	1.2	56.2	13.7	116	0.20	41.8	23.7	835	4.32	43.00	0.5	2.70	0.6	28	0.6	1.00
58800E 67700N	658800	5767700	1.6	28.8	9.8	86	0.10	18	8.5	319	4.21	37.30	0.5	1.00	0.4	20	0.2	1.40
58800E 67750N	658800	5767750	1.6	48.9	9.8	76	<0.1	32.7	12.4	284	5.06	17.20	0.5	1.90	0.5	29	0.3	2.10
58800E 67800N	658800	5767800	1.3	38.3	8.4	79	0.20	16.4	10.8	297	4.55	26.40	0.5	1.20	0.5	18	0.2	0.70
58600E 66500N	658600	5766500	2	50.9	7.6	75	0.20	58.1	28.4	905	4.56	26.50	0.5	0.80	0.8	29	0.5	0.90
58600E 66550N	658600	5766550	1.3	47.9	6	132	0.20	39.7	16.5	415	4.33	21.90	0.5	1.50	1.1	27	0.8	0.90
58600E 66600N	658600	5766600	1.4	87.7	7.3	114	0.20	82.1	29.1	1029	4.45	25.60	0.9	62.10	1.2	35	0.9	1.30
58600E 66650N	658600	5766650	1	102.2	3.1	86	0.20	25.3	17.6	435	5.72	14.60	1.1	0.25	0.9	33	0.3	0.30

Hen Soil Geochemical Samples

Sample	Easting	Northing	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
58600E 66700N	658600	5766700	1	93.7	4.4	73	<0.1	55.1	25.5	393	4.58	19.80	0.6	3.10	1.7	42	0.2	1.00
58600E 66750N	658600	5766750	1	83.4	10.8	181	0.50	59	37.8	637	5.38	48.90	0.7	2.00	1.1	30	0.5	1.30
58600E 66800N	658600	5766800	0.9	57.4	20.6	240	0.30	31.8	29.7	723	5.61	50.20	0.4	1.40	1.2	22	0.6	2.10
58600E 66850N	658600	5766850	1.3	32.7	8	80	0.10	20.1	16.3	632	3.5	10.00	0.2	0.25	0.6	23	0.2	0.60
58600E 66900N	658600	5766900	1.2	82.1	6.6	81	0.20	52.1	26.1	364	4.08	19.10	0.5	1.40	1.1	21	0.2	0.80
58600E 66950N	658600	5766950	1.6	77.4	5.1	92	<0.1	45	26	459	4.89	21.60	0.4	7.60	1	22	0.2	0.70
58600E 67000N	658600	5767000	1.6	50.7	6	78	0.10	40.6	17.6	358	5.03	23.20	0.5	2.10	0.9	24	0.5	0.90
58600E 67300N	658600	5767300	1.9	77.1	7.5	102	0.20	50.2	21.5	830	3.95	18.50	0.5	2.70	0.5	16	0.5	0.80
58600E 67350N	658600	5767350	2	77.6	8.3	136	0.40	57.7	25.4	733	4.25	85.30	0.6	2.60	0.7	34	0.9	1.60
58600E 67400N	658600	5767400	1.4	96.0	12.6	178	0.80	50	21.6	1098	3.62	110.40	0.6	1.70	0.5	41	3.5	1.40
58600E 67450N	658600	5767450	1.6	53.1	27.6	199	0.40	34.8	18.8	736	4.43	18.90	0.4	1.70	0.9	47	0.6	1.40
58600E 67500N	658600	5767500	1.7	54.2	16.1	125	0.10	44.8	23.8	382	4.57	36.40	0.5	2.00	1.2	21	0.5	1.30
58600E 67550N	658600	5767550	1.4	52.1	10	128	0.10	51.2	25.3	497	4.54	35.70	0.4	1.00	0.6	20	0.3	0.80
58600E 67600N	658600	5767600	2.6	62.9	9.6	95	0.10	37.8	21.4	484	5.11	764.40	0.4	3.20	0.5	44	0.3	4.00
58600E 67650N	658600	5767650	2.6	63.0	6.7	51	0.10	14.2	8.2	339	4.94	12.70	0.3	5.80	0.4	26	0.2	1.90
58600E 67700N	658600	5767700	2.4	53.3	9.4	63	0.20	26.4	10.6	350	4.04	21.60	0.5	4.20	0.3	17	0.5	1.30
58400E 66500N	658400	5766500	1.2	60.6	4.6	74	0.10	47.7	23.9	753	5.09	18.50	0.6	3.40	1.3	37	0.4	0.70
58400E 66550N	658400	5766550	1.6	76.8	6.5	114	0.30	60.6	26.8	478	4.48	25.90	0.8	1.00	1.1	27	0.5	0.90
58400E 66600N	658400	5766600	1	104.6	4.3	73	0.10	67.6	29.3	666	4.55	17.40	1.2	1.80	1.7	64	0.3	0.80
58400E 66650N	658400	5766650	0.9	135.1	4.9	85	0.20	80.7	32.1	608	4.61	34.20	0.8	2.30	1.3	40	0.3	0.80
58400E 66700N	658400	5766700	0.8	45.4	5	170	0.10	31.4	26.8	711	4.69	10.80	0.5	0.90	1.2	24	0.3	0.50
58400E 66750N	658400	5766750	1.1	99.2	5.8	114	0.10	39.6	28.4	432	5.51	14.00	0.8	1.50	2.5	24	0.2	0.50
58400E 66800N	658400	5766800	1.5	23.7	8.7	99	0.10	18.2	11.8	239	3.94	9.10	0.6	2.10	0.9	16	0.5	0.40
58400E 66850N	658400	5766850	1	51.1	5	46	0.10	49.7	18.6	285	2.78	24.10	0.4	3.70	1.2	29	<0.1	1.20
58400E 66900N	658400	5766900	1.4	68.0	5.4	82	0.10	29.4	21.7	565	4.34	15.00	0.5	1.00	0.7	33	0.2	0.60
58400E 66950N	658400	5766950	1.3	70.2	7.3	77	0.50	50.2	24.8	563	4.19	28.10	0.7	3.60	1.2	29	0.2	1.40
58400E 67000N	658400	5767000	1.1	47.7	6.8	103	0.20	33.9	20.4	374	4.9	33.70	0.3	1.30	0.7	34	0.1	0.80
58400E 67050N	658400	5767050	1.5	41.2	7.9	78	0.10	22.1	13.4	559	4.29	14.40	0.4	1.10	0.7	18	0.2	0.90
58400E 67100N	658400	5767100	1.5	24.7	6.8	70	0.20	40	11	344	3.3	9.80	0.4	2.60	0.6	27	0.2	0.50
58400E 67150N	658400	5767150	1.4	62.4	6.2	80	0.20	58.1	20.1	512	3.79	18.20	0.6	15.90	0.8	29	0.3	1.10
58400E 67200N	658400	5767200	1.2	69.5	9.6	84	0.60	61	22	781	3.85	19.40	0.7	2.50	0.4	26	0.4	0.90
58400E 67250N	658400	5767250	1.8	109.4	8.3	103	0.70	68.6	27.3	812	4.53	16.60	0.9	2.10	0.6	32	0.9	0.90
58400E 67300N	658400	5767300	1.5	75.3	6.7	108	0.30	58.9	24.4	623	4.37	19.40	0.6	2.00	0.7	31	0.5	1.00
58400E 67350N	658400	5767350	1.2	66.6	6.9	75	0.20	47.2	19.1	502	3.92	39.50	0.6	3.00	0.6	33	0.4	1.20
58400E 67400N	658400	5767400	1.2	75.2	6.7	79	0.30	57.7	22.2	732	3.68	31.80	0.6	40.00	0.7	42	0.5	1.20
58400E 67450N	658400	5767450	1	85.5	8	97	0.50	61.5	24.5	780	4.02	24.10	0.6	2.00	0.5	40	0.9	1.00
58400E 67500N	658400	5767500	1.4	53.4	10.5	119	0.20	41.4	20.7	660	4.1	23.70	0.5	1.90	0.5	31	0.4	1.00
58400E 67550N	658400	5767550	1.5	53.4	10.7	116	0.20	39	20.4	639	4.03	25.90	0.4	1.90	0.5	31	0.4	1.00
58400E 67600N	658400	5767600	1.3	56.3	11.4	118	0.20	36.9	20	664	4.11	22.60	0.4	1.10	0.5	30	0.5	1.00
58400E 67650N	658400	5767650	2	65.4	13.7	141	0.10	59.4	17.9	399	4.73	28.70	0.7	1.80	0.6	27	0.4	1.70
58400E 67700N	658400	5767700	1.5	92.1	8.9	87	<0.1	50.5	26.1	453	5	31.30	0.4	2.80	1	279	0.2	2.80
58400E 67750N	658400	5767750	0.8	52.1	8.1	65	0.10	42.2	19.4	255	3.87	160.70	0.6	0.25	1.2	28	0.2	1.60
58400E 67800N	658400	5767800	2.2	38.3	9.2	86	0.30	27.8	9.9	271	3.93	18.60	0.6	1.40	0.7	28	0.8	0.90
58200E 66350N	658200	5766350	0.7	107.8	5	72	0.10	62.6	30.1	580	4.97	20.00	0.5	4.80	1.1	34	0.3	1.20
58200E 66400N	658200	5766400	0.8	57.7	4.6	58	<0.1	43	19.9	452	3.25	14.70	0.5	7.60	1.6	36	0.3	1.00
58200E 66450N	658200	5766450	1.3	68.9	5.9	71	<0.1	54.8	23.3	584	3.68	22.60	0.6	75.70	1.6	33	0.3	1.50
58200E 66500N	658200	5766500	1.8	141.8	8.6	130	0.40	79.5	56.7	1309	5.15	30.70	1.1	5.70	1.1	27	1.3	1.40
58200E 66550N	658200	5766550	1	84.1	4.2	71	0.10	63.6	28.3	585	4.9	36.00	0.9	6.40	1.6	49	0.1	1.10
58200E 66600N	658200	5766600	1.5	136.0	8.2	107	0.50	85.9	31.3	969	5.27	40.60	1.1	4.00	1.2	33	0.9	1.70

Hen Soil Geochemical Samples

Sample	Easting	Northing	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
58200E 66650N	658200	5766650	1.3	73.0	5.7	74	<0.1	56.7	23.2	613	3.91	22.60	0.6	10.50	1.4	35	0.2	1.20
58200E 66700N	658200	5766700	1.2	111.6	6.7	131	0.30	64.3	28.9	818	4.44	26.60	0.8	2.50	1.2	36	1	1.20
58200E 66775N	658200	5766775	2.3	86.4	9.1	90	<0.1	63.5	27.9	576	4.34	58.90	0.7	7.30	1.2	30	0.4	1.90
58200E 66800N	658200	5766800	1.5	47.7	10.7	63	<0.1	29.3	22	711	4.8	48.70	0.5	2.10	1.1	36	0.1	2.60
58200E 66850N	658200	5766850	1	86.5	4.2	103	0.10	38.6	27.1	794	4.01	24.20	0.5	2.00	0.8	21	0.3	1.20
58200E 66900N	658200	5766900	0.7	49.5	6.9	112	0.10	32.7	15.6	562	3.61	13.50	0.4	1.20	0.6	18	0.3	0.80
58200E 66950N	658200	5766950	0.8	87.2	5.7	63	0.20	81	23.1	405	4.37	54.90	0.5	2.10	0.6	29	0.2	1.10
58200E 67000N	658200	5767000	1.1	77.6	7.8	105	0.30	54.9	23	743	3.92	22.30	0.7	7.80	1	22	0.5	1.20
58200E 67050N	658200	5767050	0.6	86.9	4	80	<0.1	35.6	24.3	723	5.74	21.40	0.4	1.40	0.7	54	0.2	2.60
58200E 67100N	658200	5767100	1.5	51.0	6.5	83	<0.1	15.2	14.4	340	3.65	8.00	0.3	1.20	0.7	12	0.1	0.50
58200E 67200N	658200	5767200	1.5	43.7	5.7	63	<0.1	16.4	12.4	360	3.18	7.70	0.5	1.40	0.7	11	0.1	0.40
58200E 67250N	658200	5767250	1.1	63.8	4.9	113	<0.1	40.3	20.3	452	4.16	18.30	0.5	1.40	0.9	28	0.2	0.60
58200E 67300N	658200	5767300	0.9	55.1	12.9	104	<0.1	37.1	21.1	313	3.93	34.50	0.5	2.10	1.2	25	0.3	1.40
58200E 67350N	658200	5767350	1.1	73.3	7.2	78	0.10	56	24.8	467	4.16	30.10	0.5	2.60	1.4	38	0.2	1.00
58200E 67400N	658200	5767400	1	94.9	5.6	100	0.20	37.5	27.4	401	4.46	52.00	0.4	2.10	1	28	0.2	1.40
58200E 67450N	658200	5767450	1.5	44.4	9	106	0.10	32.1	18.4	322	5.05	79.40	0.5	2.00	1	27	0.2	1.40
58200E 67500N	658200	5767500	1.2	58.4	7.7	83	<0.1	39.5	18.3	313	3.99	20.30	0.6	5.90	1.5	22	0.2	1.00
58200E 67550N	658200	5767550	1.5	40.5	8.5	79	0.20	26	15.1	365	4.07	22.70	0.5	3.20	0.9	25	0.2	1.00
58200E 67600N	658200	5767600	1.7	30.4	11	91	0.20	32.3	12.2	277	4.09	28.30	0.5	6.70	0.9	19	0.2	1.30
58200E 67650N	658200	5767650	1.7	46.9	8.4	92	0.20	40.1	17.1	407	3.6	19.20	0.5	2.00	1	28	0.4	1.20
58200E 67700N	658200	5767700	3.2	123.9	22.9	82	0.20	33.1	53.2	1511	9.95	34.50	0.5	1.80	1.5	59	0.7	8.30
58200E 67750N	658200	5767750	5.7	120.9	11.4	108	0.30	78.7	29	1051	5.12	21.60	2.9	7.50	1.6	54	1	1.20
58200E 67800N	658200	5767800	1.9	71.1	7.8	100	0.30	66.3	25.5	472	4.14	15.80	0.7	3.20	1	28	0.5	1.20
58000E 66325N	658000	5766325	1	48.1	5	67	<0.1	33.6	16.7	299	3.96	19.00	0.7	4.10	1.2	23	0.3	1.00
58000E 66350N	658000	5766350	0.7	61.8	4.5	61	<0.1	36.8	24.3	374	3.83	19.20	0.5	5.30	1.3	17	0.3	1.00
58000E 66400N	658000	5766400	0.8	65.5	5.6	77	0.40	37.3	23.1	425	4.12	14.70	0.6	4.00	1	25	0.5	0.90
58000E 66450N	658000	5766450	0.8	47.0	6.3	101	0.30	34.8	17.8	298	3.76	11.90	0.4	2.40	1.6	20	0.2	0.70
58000E 66500N	658000	5766500	2.7	140.5	6.1	67	<0.1	58.5	22.3	504	4.58	23.80	1.2	6.90	2.7	27	<0.1	1.10
58000E 66550N	658000	5766550	1.2	70.4	6.1	83	0.10	45.8	20.8	389	4.55	15.90	0.7	1.90	1.8	29	0.2	1.00
58000E 66600N	658000	5766600	1.2	50.9	6.3	91	0.10	46	20.6	331	4.38	16.20	0.4	2.10	1.2	28	0.2	0.90
58000E 66650N	658000	5766650	1.7	72.8	11.7	83	<0.1	26	16.5	542	3.44	9.80	0.7	3.90	1.5	10	0.2	0.60
58000E 66700N	658000	5766700	1.2	73.8	5.3	88	<0.1	49.8	23.2	354	3.95	21.40	0.5	4.10	1.2	20	0.3	1.10
58000E 66750N	658000	5766750	1.9	120.5	7.1	92	0.10	69.6	22.4	488	3.93	32.30	1.7	6.10	1.6	31	0.3	1.50
58000E 66800N	658000	5766800	1.7	144.0	7.2	97	0.30	62.8	23.5	684	4.59	63.30	1	3.40	1.2	28	0.7	2.80
58000E 66850N	658000	5766850	1.3	65.6	2.2	63	<0.1	57.4	29.3	1001	5.2	49.00	0.4	1.90	1	23	0.1	1.20
58000E 66900N	658000	5766900	1.8	189.6	8.1	82	0.40	103.6	30.9	720	4.77	51.40	1.3	4.50	1.4	28	0.6	2.10
58000E 66950N	658000	5766950	0.8	88.3	5.2	135	0.20	39.1	22.3	595	4.45	23.70	0.5	3.00	0.8	21	0.5	0.80
58000E 67000N	658000	5767000	0.8	67.1	5.2	92	<0.1	54.3	22.8	562	3.81	29.30	0.5	18.10	1.3	30	0.3	1.10
58000E 67050N	658000	5767050	1	238.5	6.6	133	0.50	90.2	26	580	4.23	104.80	2	13.30	1.7	30	0.6	2.30
58000E 67100N	658000	5767100	0.7	68.9	5.2	58	0.10	58.6	24.2	629	4.25	29.10	0.6	5.60	2	36	0.2	1.70
58000E 67150N	658000	5767150	0.7	66.9	6	92	0.20	70.4	22	415	3.67	22.90	0.5	8.30	1.7	27	0.3	1.10
58000E 67200N	658000	5767200	0.7	91.1	6.7	89	0.10	43.6	23.6	430	4.08	29.60	0.4	1.70	1.2	23	0.2	1.00
58000E 67250N	658000	5767250	1.4	77.0	6.8	91	<0.1	50.7	21.1	383	4.19	19.70	0.6	3.20	1.9	21	0.2	0.90
58000E 67300N	658000	5767300	1.6	66.9	6.7	75	<0.1	40.5	20.4	390	4.02	16.80	0.6	2.30	1.3	21	0.2	0.80
58000E 67350N	658000	5767350	1.1	111.8	9	77	0.10	71.3	29.4	823	4.1	41.20	1.1	5.20	2.1	35	0.4	1.80
58000E 67400N	658000	5767400	0.9	70.7	6.5	83	0.20	48.1	20.9	560	3.94	21.40	0.6	3.60	0.6	41	0.2	1.10
58000E 67450N	658000	5767450	1	55.6	6.2	59	0.10	37.6	16.5	327	3.74	25.80	0.5	1.60	1.1	37	0.2	0.80
58000E 67500N	658000	5767500	1.4	63.1	7.6	88	0.10	38.5	18	422	4.25	22.40	0.5	0.80	0.7	26	0.1	0.80
58000E 67550N	658000	5767550	1.3	73.6	8	86	0.10	54.3	17.7	343	3.98	28.50	0.6	5.20	0.6	25	0.3	1.20

Hen Soil Geochemical Samples

Sample	Easting	Northing	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
58000E 67600N	658000	5767600	1.6	50.3	8.6	112	0.10	34.1	12.5	322	3.84	18.00	0.6	3.10	0.8	23	0.3	0.90
58000E 67650N	658000	5767650	1.3	79.0	20.8	94	<0.1	34.3	22.5	787	5.68	26.20	0.6	0.90	1	21	0.2	4.20
58000E 67700N	658000	5767700	8.4	108.2	7.5	106	0.10	27.2	28.3	602	7.37	27.30	1.1	1.90	1.1	34	0.1	3.20
58000E 67750N	658000	5767750	1.4	62.1	7.6	92	0.10	31	18.4	684	4.13	20.50	0.5	1.70	0.5	25	0.3	1.00
58000E 67800N	658000	5767800	2	35.4	7.9	75	0.10	21.9	9.6	250	3.6	16.70	0.6	1.30	0.4	17	0.3	0.70
57800E 66300N	657800	5766300	0.9	54.2	3.9	51	<0.1	54	20.2	532	3.69	14.60	0.9	7.80	2.2	31	0.1	1.00
57800E 66350N	657800	5766350	1.1	88.5	5	58	0.30	57.1	23.1	585	4.12	16.80	1.2	2.50	1.9	33	0.2	0.90
57800E 66400N	657800	5766400	0.9	60.5	4.7	52	0.20	33.5	18.7	272	3.63	18.50	0.6	5.10	1.8	18	0.2	1.00
57800E 66450N	657800	5766450	1	73.4	4.7	95	0.20	45.1	22.8	381	4.31	15.50	0.7	3.30	3.2	22	0.3	0.70
57800E 66500N	657800	5766500	1	47.7	5.2	86	<0.1	44.5	20.8	265	3.53	11.00	0.7	0.60	2.9	21	0.1	0.70
57800E 66550N	657800	5766550	0.8	65.7	4.8	83	<0.1	56.6	21.5	309	3.44	13.10	0.5	1.40	2.1	23	0.2	0.90
57800E 66600N	657800	5766600	1	54.5	5.8	62	<0.1	33.7	16.6	302	3.61	17.00	0.5	1.10	1	43	0.2	0.70
57800E 66650N	657800	5766650	1.4	53.5	6.6	87	0.10	38.4	16.7	356	3.56	15.80	0.8	2.80	1.3	22	0.2	0.90
57800E 66700N	657800	5766700	0.8	80.9	4.3	73	<0.1	39.8	22.3	493	3.85	25.50	0.6	4.10	1	20	0.2	1.00
57800E 66750N	657800	5766750	1	31.7	6	81	0.30	22.6	11.7	303	3.37	15.80	0.5	53.30	0.9	17	0.3	0.70
57800E 66800N	657800	5766800	1.1	73.5	5.1	67	<0.1	48.7	19.6	513	3.78	23.90	0.4	3.00	1.1	31	0.2	1.30
57800E 66850N	657800	5766850	1	115.0	3.6	59	0.10	49.4	20.1	435	4.28	24.70	0.9	2.20	0.8	30	0.2	0.80
57800E 66900N	657800	5766900	0.7	52.9	4.8	51	<0.1	47.7	20.8	486	3.28	19.60	0.5	2.40	1.3	39	0.2	1.00
57800E 66950N	657800	5766950	0.8	98.9	7.3	104	0.50	71.8	24	659	4.06	23.20	0.9	2.70	0.6	32	0.7	1.00
57800E 67000N	657800	5767000	1	72.0	5.5	63	0.40	84.9	20.9	535	3.66	24.20	1	3.10	1.1	33	0.4	1.60
57800E 67050N	657800	5767050	0.8	63.1	5.2	60	0.30	63.8	18.1	504	3.5	34.50	0.7	0.90	1.1	35	0.4	1.80
57800E 67100N	657800	5767100	0.8	116.0	8.5	87	0.70	76.1	24.5	743	4.31	34.40	0.9	2.60	0.8	38	0.9	2.10
57800E 67150N	657800	5767150	0.7	38.7	6.1	80	0.20	43.9	18.2	282	3.13	16.50	0.4	2.80	1	22	0.3	0.90
57800E 67200N	657800	5767200	0.9	52.2	7.1	114	0.20	39.3	18.4	356	3.62	16.00	0.6	12.70	1.2	22	0.3	0.80
57800E 67250N	657800	5767250	0.7	56.6	6.4	108	<0.1	85.3	28.1	349	3.79	9.30	0.4	8.60	1.1	25	0.3	0.50
57800E 67300N	657800	5767300	0.9	41.3	7.8	90	0.20	31.1	15.6	360	3.65	17.80	0.5	2.70	1	23	0.3	0.70
57800E 67350N	657800	5767350	1.3	51.4	7.8	97	0.40	42.4	18.6	391	4.29	18.10	0.5	2.00	0.5	26	0.2	0.90
57800E 67400N	657800	5767400	1.3	63.1	7.3	91	<0.1	38.6	17.6	338	4.43	20.50	0.5	0.90	0.9	24	0.2	0.80
57800E 67450N	657800	5767450	1.1	70.8	7.2	72	0.10	35.9	21.4	390	4.38	23.60	0.5	1.50	0.7	25	0.2	0.70
57800E 67500N	657800	5767500	0.9	64.2	8.1	65	0.20	34.5	19.9	484	3.82	35.10	0.6	2.10	0.5	31	0.3	1.00
57800E 67550N	657800	5767550	0.9	51.2	8	77	0.20	33.8	17.4	386	3.96	30.00	0.4	6.10	0.5	32	0.2	1.10
57800E 67600N	657800	5767600	1	32.5	9.4	111	0.20	29.7	14.2	508	3.92	20.20	0.4	1.20	0.3	34	0.5	1.00
57800E 67650N	657800	5767650	1.4	48.3	7.3	98	<0.1	38	20	446	4.32	23.80	0.5	1.70	0.6	22	0.5	1.00
57800E 67700N	657800	5767700	1.1	30.7	8	99	0.20	33.5	17.8	534	3.7	11.80	0.4	82.70	0.3	32	0.4	0.50
57800E 67750N	657800	5767750	1.4	35.8	8.4	111	0.20	36.4	18.3	610	4.09	12.30	0.4	2.10	0.3	24	0.5	0.60
57800E 67800N	657800	5767800	1.5	33.3	7.7	80	0.20	31.2	11.7	303	3.59	11.10	0.5	4.70	0.3	27	0.3	0.40
57600E 66300N	657600	5766300	1	51.4	4.9	146	0.10	44.2	29.3	338	4.63	11.40	0.6	2.50	1.7	15	0.4	0.40
57600E 66350N	657600	5766350	0.8	42.4	5	104	<0.1	39.5	18.8	255	3.61	12.10	0.5	3.50	2.2	18	0.2	0.60
57600E 66400N	657600	5766400	1.5	44.8	4.8	82	0.20	34.1	17	261	4.11	9.70	0.7	2.90	2.2	24	0.2	0.50
57600E 66450N	657600	5766450	1.2	79.1	4.5	82	0.10	41	21.4	363	4.24	14.20	0.5	1.50	1.6	26	0.2	0.60
57600E 66500N	657600	5766500	1.9	61.8	6.4	181	0.10	49.9	25	714	4.43	12.90	0.9	3.10	1.9	30	0.3	0.70
57600E 66550N	657600	5766550	1.7	58.0	5.9	85	<0.1	37.8	15.7	329	4.15	18.30	0.8	3.40	1.1	15	0.2	0.70
57600E 66600N	657600	5766600	1.5	60.4	6.5	89	<0.1	38.6	20.4	318	4.26	17.20	0.6	3.20	1.6	13	0.2	0.70
57600E 66650N	657600	5766650	0.9	92.9	5.2	89	<0.1	46.3	26.3	383	4.12	17.00	0.6	11.50	1.6	15	0.2	0.80
57600E 66700N	657600	5766700	1	94.8	5.5	85	<0.1	67.5	24	403	4.6	28.80	0.6	3.30	1.4	19	0.2	0.80
57600E 66750N	657600	5766750	0.8	53.0	4.6	69	<0.1	33.2	16.4	328	3.73	18.70	0.4	1.70	0.9	14	0.2	0.60
57600E 66800N	657600	5766800	0.8	65.7	5.1	57	<0.1	53	17.6	470	3.32	19.10	0.4	7.40	1.6	25	<0.1	0.90
57600E 66850N	657600	5766850	0.3	80.6	1.4	70	<0.1	10.7	18.5	505	4.08	7.60	0.3	0.70	0.7	8	<0.1	0.20
57600E 66900N	657600	5766900	1.4	122.3	7.7	83	<0.1	86.9	29.6	844	5.36	47.80	0.6	4.80	2.3	40	0.2	1.50

Hen Soil Geochemical Samples

Sample	Easting	Northing	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
57600E 66950N	657600	5766950	0.8	59.2	5.7	80	0.10	48.6	25	426	4.13	10.40	0.4	0.25	0.8	13	0.2	0.40
57600E 67000N	657600	5767000	0.7	97.5	4.3	96	0.20	98.7	30.6	433	4.6	19.10	0.4	0.70	0.8	17	0.2	0.80
57600E 67050N	657600	5767050	0.9	23.0	8.2	56	0.10	17.1	9.7	214	2.9	5.80	0.2	0.60	0.4	9	0.2	0.30
57600E 67100N	657600	5767100	0.9	65.9	5.8	132	0.10	45.4	21.6	375	4.11	28.90	0.4	1.90	1	12	0.3	0.60
57600E 67150N	657600	5767150	1.2	101.4	7.3	118	<0.1	43.9	27.4	588	4.41	17.80	0.5	1.70	1.2	20	0.2	0.60
57600E 67200N	657600	5767200	1	94.7	6.7	95	0.10	71	22.3	376	4.11	10.40	0.5	1.30	0.8	23	0.2	0.40
57600E 67250N	657600	5767250	1.4	53.0	8.7	127	0.10	32.3	16.1	476	4.38	20.60	0.5	2.10	0.9	14	0.2	0.70
57600E 67300N	657600	5767300	1.1	73.7	7.8	82	0.10	61.8	24.4	498	4.45	26.30	0.5	5.00	1.2	27	0.3	1.00
57600E 67350N	657600	5767350	1.3	40.5	7.4	63	<0.1	19.5	10.6	265	3.15	18.30	0.4	0.80	0.6	16	0.2	0.70
57600E 67400N	657600	5767400	1.1	71.8	8	79	0.30	38	19.3	456	4.42	22.60	0.7	2.60	1.1	20	0.4	0.70
57600E 67600N	657600	5767600	1.2	79.9	6.7	84	<0.1	71.2	23.7	473	4.64	33.40	0.5	2.70	0.8	29	0.3	1.20
57600E 67650N	657600	5767650	2	63.6	8.1	91	0.10	50.8	16.4	356	4.62	24.00	0.5	3.50	0.8	26	0.3	1.10
57600E 67700N	657600	5767700	1.8	56.9	7.8	65	0.40	35	12.7	285	4.3	22.60	0.7	4.50	1	21	0.3	1.20
57600E 67750N	657600	5767750	2	85.7	8.1	108	0.20	67.2	25.7	646	4.53	24.40	0.6	1.30	1	27	0.3	1.30
57600E 67800N	657600	5767800	1.6	103.8	9.5	91	0.30	78.3	31.3	843	4.59	22.20	0.7	3.60	1.2	40	0.6	6.70
57400E 66300N	657400	5766300	1.3	49.0	3.5	46	0.10	51.8	14.7	282	2.68	10.10	1.2	5.80	1.8	18	0.2	0.90
57400E 66350N	657400	5766350	0.7	46.7	4.1	59	0.10	44.8	15.8	243	3.02	11.60	0.5	2.60	2.2	21	0.2	0.70
57400E 66400N	657400	5766400	0.8	36.1	4.8	53	0.10	35	17.4	234	2.94	10.30	0.5	4.20	2.3	15	0.2	0.60
57400E 66450N	657400	5766450	1	64.4	5.1	53	0.10	46.6	20.3	298	3.36	14.10	0.4	1.80	1.8	20	<0.1	0.80
57400E 66500N	657400	5766500	1.5	72.2	4.8	56	<0.1	38.1	17.1	323	3.39	14.00	0.6	1.40	2.2	21	0.1	0.90
57400E 66550N	657400	5766550	2.4	99.8	5.5	56	<0.1	38.7	16.6	289	4.01	14.40	1	5.30	2	23	0.2	0.60
57400E 66600N	657400	5766600	1.3	56.2	7	95	<0.1	44.4	22	325	3.84	14.30	0.7	4.10	1.5	14	0.1	0.60
57400E 66650N	657400	5766650	1.1	70.0	6.6	96	<0.1	51.8	20.5	323	3.94	21.40	0.6	6.80	1.4	19	0.3	0.90
57400E 66700N	657400	5766700	1.3	109.0	3.1	75	<0.1	11.6	16.3	357	3.97	4.80	0.4	2.90	0.8	7	<0.1	0.20
57400E 66750N	657400	5766750	0.9	114.0	3.7	68	<0.1	36.6	20.4	323	4.58	12.90	0.4	1.40	0.9	12	<0.1	0.60
57400E 66800N	657400	5766800	1	55.4	5.7	97	<0.1	59.8	24.6	313	3.74	22.60	0.5	3.20	1	16	0.2	0.80
57400E 66850N	657400	5766850	1.2	97.3	20.2	103	0.10	68.2	23	431	4.67	33.40	0.4	3.00	0.8	22	0.8	0.90
57400E 66900N	657400	5766900	0.9	60.4	4.6	59	0.10	53	17.9	563	3.4	19.60	0.5	4.10	1.1	24	0.2	1.00
57400E 66950N	657400	5766950	0.8	68.3	7.1	89	0.10	59.6	25.2	366	4	24.60	0.4	2.30	1.3	20	0.3	0.70
57400E 67000N	657400	5767000	0.6	77.8	5.6	74	<0.1	48.5	26	422	3.91	13.40	0.5	1.40	1.8	18	0.2	0.50
57400E 67050N	657400	5767050	1	62.7	5.1	84	<0.1	55.2	22.7	378	4.13	16.30	0.4	7.20	1.1	18	0.1	0.70
57400E 67100N	657400	5767100	1.2	77.5	6.7	67	0.10	84.2	24	616	3.76	27.50	0.8	10.50	2	33	0.4	1.30
57400E 67150N	657400	5767150	1.2	49.8	5.7	67	0.20	42.3	18.6	590	3.62	168.80	1.9	1.40	0.6	37	0.2	1.20
57400E 67200N	657400	5767200	0.9	40.0	4.6	58	<0.1	42	16.4	455	3.04	51.50	0.5	2.00	1	27	0.3	0.80
57400E 67250N	657400	5767250	1.1	68.7	8.6	174	0.20	52	21.9	460	4.7	20.10	0.4	1.90	1.2	21	0.4	0.60
57400E 67300N	657400	5767300	1.2	61.6	5.4	75	0.10	39.2	25.1	657	4.75	96.10	2.9	5.10	1.3	41	0.1	1.70
57400E 67350N	657400	5767350	1.4	79.4	9.5	63	0.20	67.6	28.9	532	4.94	80.70	1	5.80	0.9	34	0.2	1.30
57400E 67400N	657400	5767400	0.7	67.3	6.8	137	0.10	38.4	27.3	698	4.48	16.20	0.5	2.20	0.9	25	0.4	0.50
57400E 67450N	657400	5767450	1.5	85.5	6.9	123	0.10	59.6	26.5	743	5.25	62.50	0.7	2.30	0.8	52	0.3	2.40
57400E 67500N	657400	5767500	1.6	68.4	6.5	49	<0.1	54.4	20.6	386	4.44	27.60	0.7	2.50	0.9	30	0.1	1.20
57400E 67550N	657400	5767550	2.4	78.2	8.2	75	<0.1	28	17.3	447	5.75	49.20	0.5	2.50	0.6	21	0.2	2.90
57400E 67600N	657400	5767600	1.5	48.8	8.3	65	0.20	37.6	12.2	308	3.77	16.40	0.6	2.50	1	21	0.1	0.90
57400E 67650N	657400	5767650	1.2	68.8	7.7	72	0.20	42.4	16	374	4.12	21.40	0.5	8.00	0.8	23	0.3	0.80
57400E 67700N	657400	5767700	1.3	126.5	8.7	92	0.40	57.9	29.7	668	4.86	36.50	0.9	5.20	1	29	0.5	1.30
57400E 67750N	657400	5767750	1.2	73.2	7	84	0.20	51.4	19.2	487	4.16	34.50	0.6	5.70	1	27	0.3	1.20
57400E 67800N	657400	5767800	1.4	72.3	6.5	74	0.10	50	18.2	398	4.04	29.70	0.6	5.50	1.1	21	0.2	1.60
57200E 66300N	657200	5766300	1	59.7	4.9	63	0.20	48.2	21	668	3.66	13.00	0.8	3.80	1.3	25	0.3	0.90
57200E 66350N	657200	5766350	1.2	74.8	4.8	93	0.10	58.8	23.7	537	4.11	16.10	0.7	4.30	1.2	16	0.3	0.80
57200E 66400N	657200	5766400	0.9	83.1	4.3	64	0.20	64	23.1	593	3.71	13.00	1.5	7.20	1.5	29	0.2	0.70

Hen Soil Geochemical Samples

Sample	Easting	Northing	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
57200E 66450N	657200	5766450	1	50.9	4.3	44	<0.1	39.3	18	424	2.73	11.40	0.9	6.30	2.2	26	<0.1	0.50
57200E 66500N	657200	5766500	1.1	63.8	5.2	77	<0.1	51.9	20.6	682	3.62	15.60	0.7	3.90	1.5	29	0.2	0.90
57200E 66550N	657200	5766550	1	51.0	6.3	124	0.30	39.9	20	334	3.55	14.80	0.5	2.30	1.3	16	0.4	0.70
57200E 66600N	657200	5766600	0.9	61.9	5	68	<0.1	50.3	20.2	379	3.68	21.30	0.4	3.30	1.5	24	0.2	0.90
57200E 66650N	657200	5766650	0.9	66.1	4.4	92	0.20	52.6	21.8	441	3.82	19.40	0.5	32.10	1.2	24	0.3	1.00
57200E 66700N	657200	5766700	0.9	53.9	5	69	0.40	41.4	19	486	3.53	17.90	0.4	88.20	0.8	25	0.4	0.90
57200E 66750N	657200	5766750	1.3	69.9	6.5	72	<0.1	53.3	26.9	754	4	27.00	0.6	4.20	1.4	29	0.2	1.80
57200E 66800N	657200	5766800	1.4	77.9	6.6	79	<0.1	55.1	24.8	672	4.06	25.90	0.5	35.00	1.3	33	0.2	1.90
57200E 66850N	657200	5766850	1.2	83.6	6.8	72	0.20	50.9	22.6	505	3.81	23.20	0.5	12.10	0.6	38	0.3	1.20
57200E 66900N	657200	5766900	1.4	94.9	6.1	72	0.20	77	28.3	737	4.59	32.70	1.6	3.50	1.4	39	0.3	1.50
57200E 66950N	657200	5766950	1.2	75.9	6.7	69	0.20	63.6	26.4	597	4.08	29.40	0.6	6.80	1	37	0.4	1.30
57200E 67000N	657200	5767000	13.1	137.3	12	96	0.50	152.6	48.1	1555	9.51	250.00	4.1	5.50	2.3	64	0.3	1.40
57200E 67050N	657200	5767050	1.7	166.1	9.4	102	0.70	151.4	32.6	970	5.3	62.80	3.2	4.20	1	47	1.2	1.70
57200E 67100N	657200	5767100	1.7	121.2	9.1	76	0.40	99.4	33.5	816	5.14	122.80	4.7	7.90	1	58	0.7	2.20
57200E 67150N	657200	5767150	0.8	39.7	6.9	112	0.20	26.3	15.7	315	3.48	12.80	0.4	1.80	0.7	23	0.3	0.80
57200E 67200N	657200	5767200	0.8	64.0	7.2	78	0.20	47.5	16.4	368	3.59	22.10	0.6	2.80	0.5	40	0.2	0.90
57200E 67250N	657200	5767250	0.8	34.8	6.2	65	0.20	39.2	13.4	267	2.87	9.60	0.3	2.00	0.6	29	0.2	0.70
57200E 67300N	657200	5767300	0.6	61.6	5.7	51	<0.1	54.5	19.1	414	3.09	22.40	0.4	11.20	1.6	34	0.2	1.30
57200E 67350N	657200	5767350	0.9	51.6	5.3	59	<0.1	43.8	17	271	3.36	18.40	0.4	7.40	1.1	23	0.2	0.90
57200E 67400N	657200	5767400	0.9	67.7	6	67	0.20	65.7	18	328	3.7	19.10	0.5	3.30	1.2	20	0.1	1.00
57200E 67450N	657200	5767450	0.6	96.9	5.9	118	0.20	42.6	28.1	568	5.44	14.30	0.5	2.10	1.3	22	0.2	0.80
57200E 67500N	657200	5767500	0.8	57.1	6.3	77	<0.1	67	19	454	3.67	18.80	0.4	2.00	1.4	32	0.2	1.10
57200E 67550N	657200	5767550	1.5	69.8	6.2	120	0.30	53.7	30.5	1621	4.52	67.40	0.9	2.30	0.6	63	0.5	3.80
57200E 67600N	657200	5767600	1.1	78.0	6.6	72	0.20	60.6	24.7	575	4.93	29.10	0.5	4.40	0.7	23	0.3	1.50
57200E 67650N	657200	5767650	1	73.9	6.7	69	0.20	59.7	20.7	443	3.8	24.00	0.6	6.00	1	48	0.3	1.30
57200E 67700N	657200	5767700	1.1	71.3	6.6	65	0.40	51.2	19.7	373	3.93	23.00	0.6	5.70	0.5	64	0.4	2.20
57200E 67750N	657200	5767750	0.9	59.1	6.4	85	0.10	59.8	23.9	468	4.98	27.80	0.6	2.10	0.6	56	0.2	2.40
57200E 67800N	657200	5767800	0.9	63.2	6.1	54	<0.1	46	17.8	371	3.72	24.40	0.7	3.70	1.1	53	0.2	2.20
57200E 67950N	657200	5767950	1.2	103.2	9.6	79	0.80	49	25.4	880	3.64	19.60	1	5.10	0.3	33	0.7	2.20
57200E 68000N	657200	5768000	1.3	93.6	7.2	53	0.40	30.3	16.2	525	4	14.60	0.8	3.10	0.5	29	0.3	2.50
57000E 66300N	657000	5766300	1	48.7	5.3	78	<0.1	39.1	17.3	481	2.64	7.00	0.7	1.50	1.5	24	0.2	0.60
57000E 66350N	657000	5766350	1.1	15.5	8.2	60	<0.1	14.6	8	177	2.71	5.00	0.6	1.60	2.4	13	0.1	0.50
57000E 66400N	657000	5766400	1.1	28.6	7.2	98	<0.1	29.5	14.4	288	3.2	6.40	0.6	1.50	3	21	0.2	0.60
57000E 66450N	657000	5766450	1.3	47.3	5.9	78	0.20	41.6	16	300	3.5	14.00	0.6	2.20	1.7	23	0.2	0.90
57000E 66500N	657000	5766500	1.5	80.4	6.4	50	0.20	43.5	19.5	405	3.41	17.00	0.9	8.20	1.5	27	0.1	1.00
57000E 66550N	657000	5766550	1.4	45.8	6.6	78	0.10	35.5	15.3	295	2.88	10.30	0.6	1.50	1.7	18	0.3	0.80
57000E 66600N	657000	5766600	1	50.2	5.4	73	0.20	38.5	18.1	271	3.32	12.90	0.5	3.20	1.4	24	0.4	0.90
57000E 66650N	657000	5766650	1.3	49.4	5.8	72	0.30	45.1	20.1	295	3.92	17.20	0.5	2.80	1.6	25	0.2	1.20
57000E 66700N	657000	5766700	1.4	38.5	6.3	73	<0.1	30.8	15.1	351	2.78	10.30	0.5	6.60	1.4	21	0.1	0.60
57000E 66750N	657000	5766750	1.4	33.5	7	87	<0.1	26.8	15.2	356	3.54	14.20	0.5	2.50	1.4	23	0.2	0.80
57000E 66800N	657000	5766800	0.8	67.8	5.7	135	0.20	29.1	26.7	496	4.25	13.90	0.5	1.80	0.9	23	0.5	0.50
57000E 66850N	657000	5766850	0.7	52.3	4.3	43	<0.1	33.6	16.9	413	3.33	16.30	0.7	3.90	1.7	22	<0.1	1.10
57000E 66900N	657000	5766900	0.5	43.9	3.3	38	<0.1	31	14.1	315	2.52	11.10	0.6	19.80	1.3	32	<0.1	0.80
57000E 66950N	657000	5766950	1.4	69.9	5.5	56	0.20	60.9	22	593	3.87	104.20	1.6	2.50	0.5	48	0.2	2.20
57000E 67000N	657000	5767000	0.9	55.6	7.4	100	0.20	55.7	20.7	531	4.21	34.40	0.5	2.80	0.6	29	0.3	1.20
57000E 67050N	657000	5767050	0.7	75.8	5.1	84	0.10	73.2	24.3	511	3.79	19.20	0.5	10.50	0.9	34	0.4	0.90
57000E 67100N	657000	5767100	0.9	128.0	6.5	58	0.30	79.7	24.2	512	4	36.70	1.3	4.50	1	32	0.4	1.30
57000E 67150N	657000	5767150	0.6	75.9	3.9	50	<0.1	40.5	19	442	3.71	21.50	0.6	6.00	1	44	0.1	1.20
57000E 67200N	657000	5767200	0.8	91.2	5.6	73	0.20	65.7	25.4	647	4.23	22.70	0.8	24.30	0.9	38	0.3	1.20

Hen Soil Geochemical Samples

Sample	Easting	Northing	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
57000E 67250N	657000	5767250	0.6	63.5	4	74	0.10	40.6	20.7	554	4.77	22.30	0.4	16.40	0.9	37	0.3	2.10
57000E 67300N	657000	5767300	0.9	83.3	5.6	65	0.20	45.5	23	635	4.77	23.40	0.5	2.40	0.6	35	0.3	0.70
57000E 67350N	657000	5767350	0.7	78.4	6.5	83	0.20	55.4	22.8	585	4.02	21.40	0.5	3.30	0.9	18	0.4	1.00
57000E 67400N	657000	5767400	0.6	73.9	4.9	55	0.10	49	21.1	512	3.47	18.80	0.5	3.70	0.9	30	0.2	1.30
57000E 67450N	657000	5767450	0.6	91.4	4.8	65	0.10	70.1	25.3	581	4.5	19.70	0.5	2.10	0.8	43	0.3	1.10
57000E 67500N	657000	5767500	0.8	69.6	4.6	69	<0.1	59.3	19	381	3.19	16.90	0.5	2.60	1.2	37	0.3	1.40
57000E 67550N	657000	5767550	0.7	36.4	5.9	74	<0.1	36.9	16.4	399	3.11	17.90	0.4	8.90	0.8	23	0.2	1.00
57000E 67600N	657000	5767600	0.9	110.5	8.1	83	0.40	64.3	23.8	864	4.29	33.60	1.2	3.50	0.4	49	0.7	2.00
57000E 67650N	657000	5767650	1.1	101.2	8	62	0.20	62.7	24.7	566	4.68	34.10	0.8	2.10	1	45	0.3	1.70
57000E 67700N	657000	5767700	0.9	85.0	6.2	63	<0.1	64.2	23.9	638	3.93	36.70	0.6	6.50	2.3	40	0.2	1.60
57000E 67750N	657000	5767750	1.4	66.8	6.9	87	0.20	46.4	19.1	565	4.19	22.80	0.6	1.80	0.5	31	0.3	2.00
57000E 67800N	657000	5767800	2.1	106.6	9	104	0.40	47.1	22.4	704	4.47	29.70	1.3	5.30	0.5	22	0.4	1.90
57000E 67850N	657000	5767850	1.7	115.9	9.8	85	0.50	55.6	21.5	542	3.66	20.00	1.6	4.40	0.3	24	0.4	1.60
57000E 67900N	657000	5767900	3.6	162.8	13.3	113	0.50	99.2	36.4	992	6.04	45.10	1.9	5.90	1	46	0.6	2.10
57000E 67950N	657000	5767950	1.4	74.5	7.8	78	0.20	54.3	20.3	581	4.16	26.10	0.8	2.80	1	28	0.3	2.20
57000E 68000N	657000	5768000	1.6	141.2	10.1	95	0.60	66.3	29.7	807	5.64	29.40	0.8	2.80	0.7	35	0.4	2.50
56800E 66500N	656800	5766500	1.5	69.3	5	53	0.20	44	18.2	469	3.2	18.00	1	6.20	1.3	34	0.2	1.10
56800E 66550N	656800	5766550	1.1	58.7	5.7	65	0.10	47	21.3	603	3.42	17.40	0.7	3.60	1.1	39	0.2	1.20
56800E 66600N	656800	5766600	1	43.4	5.9	56	0.10	35.3	16.3	318	3.32	18.90	0.4	2.50	0.7	30	0.2	1.00
56800E 66650N	656800	5766650	1.3	85.0	5.3	60	0.10	51.4	20.2	457	3.45	23.40	1.4	1.60	1.5	30	0.2	1.10
56800E 66700N	656800	5766700	0.8	55.5	6.7	84	0.20	43.6	17.9	388	3.23	16.90	0.7	1.90	0.5	29	0.5	0.80
56800E 66750N	656800	5766750	1.3	172.3	7.2	78	0.50	86.1	28.7	758	4.13	29.40	1.9	4.50	1	34	0.7	1.30
56800E 66800N	656800	5766800	0.7	48.7	6.2	82	0.10	42.8	19	432	3.27	18.00	0.4	0.80	0.9	26	0.3	0.90
56800E 66850N	656800	5766850	1.6	74.0	5	70	0.20	54.2	16.9	357	3.12	17.90	0.9	4.10	0.9	26	0.5	1.10
56800E 66900N	656800	5766900	1.1	22.9	6.1	77	0.20	23	11.5	399	2.79	8.40	0.4	4.50	0.6	20	0.3	0.60
56800E 66950N	656800	5766950	0.8	57.6	5.3	59	<0.1	44.1	18.6	470	3.4	16.70	0.6	12.00	1.1	26	0.2	1.00
56800E 67050N	656800	5767050	0.9	64.5	6.4	54	0.10	46.1	15.6	354	3.26	16.40	1	5.00	1.3	41	0.2	1.10
56800E 67100N	656800	5767100	0.6	50.9	3.5	47	<0.1	39.9	19.1	434	3.24	17.00	0.7	26.60	1.1	36	0.1	0.90
56800E 67150N	656800	5767150	0.7	65.0	4.5	57	<0.1	41.3	22.7	635	4.16	20.10	0.7	4.70	1	34	0.2	0.80
56800E 67200N	656800	5767200	0.5	52.4	4.1	45	<0.1	38	16.4	356	2.71	14.40	0.7	3.50	1.7	32	<0.1	0.80
56800E 67250N	656800	5767250	0.5	58.6	4.6	53	<0.1	44.5	18.1	342	3.35	18.90	0.6	3.70	1.5	29	0.2	1.10
56800E 67300N	656800	5767300	0.8	49.0	4.8	35	<0.1	31.9	15	327	2.89	16.30	0.7	4.40	2.1	26	<0.1	1.00
56800E 67350N	656800	5767350	0.9	53.1	5.8	57	<0.1	42.3	18.2	310	3.43	19.70	0.5	4.50	1.6	22	0.2	1.30
56800E 67400N	656800	5767400	0.8	41.6	5.1	48	<0.1	32.1	15.3	358	3	12.20	0.6	2.50	1.7	33	0.2	1.50
56800E 67450N	656800	5767450	1.4	98.8	5.4	69	0.20	61.2	24.4	1068	4.28	23.00	1.6	3.00	1.5	57	0.4	1.70
56800E 67500N	656800	5767500	0.7	61.9	4.5	48	<0.1	50.6	19.3	478	3.13	17.80	0.5	2.50	1.7	38	0.1	1.70
56800E 67550N	656800	5767550	0.7	88.9	5.9	59	<0.1	57.9	23.4	578	3.66	25.50	0.4	5.40	2	35	0.2	1.70
56800E 67600N	656800	5767600	0.7	52.4	5.9	74	<0.1	36.7	19.2	774	3.24	14.40	0.3	8.70	0.6	30	0.2	1.10
56800E 67650N	656800	5767650	0.7	65.6	5.1	67	0.20	50.5	21.2	355	3.68	17.60	0.4	3.30	1.2	36	0.4	2.60
56800E 67700N	656800	5767700	0.6	109.5	4.9	87	<0.1	24.7	24.7	455	4.85	2.50	0.3	1.00	0.5	48	0.1	0.80
56800E 67750N	656800	5767750	0.3	91.1	3.5	68	<0.1	123.2	39.1	464	4.65	9.50	0.2	0.25	0.5	52	<0.1	0.50
56800E 67800N	656800	5767800	0.9	72.0	5.3	52	0.20	62.6	22.4	332	3.46	20.50	0.5	1.20	1.9	29	0.2	1.50
56800E 67900N	656800	5767900	1.7	78.1	6.1	97	0.20	68.3	22.5	342	4.23	19.80	0.5	17.40	1.2	33	0.3	2.10
56800E 67950N	656800	5767950	0.5	68.1	5.2	55	0.10	56.1	20.6	478	3.29	15.90	0.5	3.70	1.6	57	0.2	1.20
56800E 68000N	656800	5768000	1	72.4	6	68	0.20	52.9	21.8	356	4.01	19.70	0.6	7.20	1.2	35	0.4	1.50
56600E 66500N	656600	5766500	1.4	101.8	7.5	85	0.40	69.1	30.8	1186	4.09	26.20	1.9	5.90	1.5	25	0.3	2.80
56600E 66550N	656600	5766550	1.2	71.5	6.5	69	0.30	47.9	23.3	780	3.29	15.80	1	3.80	0.6	19	0.3	1.20
56600E 66600N	656600	5766600	1	61.7	5.1	57	0.20	51.9	21.9	508	3.39	73.70	1.3	6.10	1.2	47	0.1	1.90
56600E 66650N	656600	5766650	0.8	27.5	5.3	50	<0.1	34.4	14.3	195	2.9	10.40	0.3	1.80	1.6	22	0.2	0.80

Hen Soil Geochemical Samples

Sample	Easting	Northing	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
56600E 66700N	656600	5766700	1.3	46.4	6.2	58	0.10	48.2	20.6	294	3.88	36.60	0.6	2.50	1.7	28	0.1	1.00
56600E 66750N	656600	5766750	0.8	37.1	4.3	40	<0.1	29.4	14.3	199	2.9	14.20	0.4	6.00	1.8	21	<0.1	0.80
56600E 66800N	656600	5766800	1.1	64.5	5.6	60	0.20	53.9	20.5	479	3.79	63.70	1.4	3.20	1.2	49	0.1	1.80
56600E 66850N	656600	5766850	1.5	39.7	6.2	51	0.20	37.7	18	237	3.72	23.30	0.4	2.20	1	22	0.3	0.90
56600E 66900N	656600	5766900	0.7	98.0	3.1	60	<0.1	30.7	20.1	387	3.25	23.80	0.6	6.90	1.6	26	0.1	2.20
56600E 66950N	656600	5766950	0.7	149.1	1	54	<0.1	22.6	22.8	322	4.21	11.20	0.5	1.80	1.2	14	<0.1	1.40
56600E 67000N	656600	5767000	1.3	54.9	6.5	136	0.30	48.4	24.5	1028	3.79	16.70	0.7	4.40	1.4	31	0.6	1.10
56600E 67050N	656600	5767050	0.8	59.3	5.1	54	0.20	43.8	16.8	509	3.04	14.60	0.8	5.70	1.3	34	0.4	1.00
56600E 67100N	656600	5767100	0.9	91.0	6.2	65	0.30	56.8	18.6	596	3.44	19.60	1.3	4.00	1.6	37	0.6	1.10
56600E 67150N	656600	5767150	0.7	52.7	5.4	57	0.20	44.9	16.4	440	3.17	15.10	0.6	6.10	1.4	35	0.2	1.20
56600E 67200N	656600	5767200	0.9	41.9	7.3	85	0.50	31.2	19.1	740	2.77	12.30	0.7	1.90	1	33	0.6	0.70
56600E 67250N	656600	5767250	0.9	47.9	4.3	68	0.20	47.3	18.9	405	3.58	17.50	0.5	3.00	1	39	0.3	1.50
56600E 67300N	656600	5767300	0.6	34.7	4.9	81	0.10	31.3	13.4	316	2.97	13.00	0.5	1.70	2.1	20	0.2	0.70
56600E 67400N	656600	5767400	1.9	56.3	5.6	58	0.10	51.7	19.5	439	3.81	14.70	0.6	1.90	0.6	36	0.2	0.80
56600E 67450N	656600	5767450	1.6	76.8	5.3	70	0.10	58	28.4	547	3.58	14.20	0.9	26.90	0.8	36	0.3	0.70
56600E 67550N	656600	5767550	0.7	29.3	6	40	0.20	20.2	9.4	234	2.25	10.70	0.3	4.50	0.9	16	0.1	0.70
56600E 67600N	656600	5767600	1.2	63.7	5.5	56	0.10	38.2	19.1	379	3.85	16.80	0.5	1.50	0.7	27	0.2	0.80
56600E 67650N	656600	5767650	0.7	75.4	5.1	66	0.10	48.8	18	350	3.3	16.70	0.5	2.50	1	33	0.2	1.20
56600E 67700N	656600	5767700	0.6	69.7	5	56	0.10	52	21.1	459	3.47	18.00	0.5	5.80	0.9	39	0.2	1.10
56600E 67750N	656600	5767750	1.3	58.8	5.5	49	0.20	50.9	17.9	369	3.53	46.00	0.6	4.30	0.4	52	0.3	3.80
56600E 67800N	656600	5767800	0.7	68.7	4.9	44	0.10	59.1	17.2	295	2.96	29.80	0.8	3.60	2	26	0.2	4.20
56600E 67900N	656600	5767900	0.2	155.5	6.7	60	<0.1	113.6	36.4	453	5.04	17.70	0.5	1.90	1.5	85	<0.1	0.60
56600E 67950N	656600	5767950	0.5	121.4	6.4	65	0.20	111	44.8	456	5.4	42.80	0.3	2.20	0.8	88	0.1	1.20
56600E 68000N	656600	5768000	0.5	93.4	7.2	52	0.30	75.6	24	614	3.55	81.20	0.6	4.00	1.9	59	0.2	3.30
56400E 66500N	656400	5766500	0.9	83.4	6.1	53	0.20	53.5	22.9	658	2.9	18.50	1.9	1.80	1.7	29	0.2	0.60
56400E 66750N	656400	5766750	0.9	72.0	3.8	47	0.10	30.7	15.4	272	3.01	12.00	0.7	10.90	1.5	26	0.1	0.70
56400E 66800N	656400	5766800	1.2	115.0	2.3	39	<0.1	26.9	16.8	208	2.79	10.90	0.4	2.30	1.7	22	<0.1	1.20
56400E 66850N	656400	5766850	6.5	98.5	3.5	66	0.10	36.6	23.9	252	3.51	11.10	0.5	2.30	1.1	23	0.1	0.90
56400E 66950N	656400	5766950	0.9	8.4	7	35	<0.1	4.5	4.8	194	1.1	1.50	0.1	0.25	0.4	7	0.1	0.20
56400E 67000N	656400	5767000	2.7	63.2	5.6	151	0.10	30.3	31.6	940	4.26	19.90	0.4	2.30	1.2	17	0.4	0.90
56400E 67050N	656400	5767050	1	77.2	4.3	61	0.20	47.2	18.2	555	3.23	15.90	0.9	2.00	0.8	35	0.2	1.00
56400E 67100N	656400	5767100	0.3	76.1	4.2	57	0.20	156.6	24.4	226	2.87	37.20	0.3	2.70	1	39	0.2	1.20
56400E 67150N	656400	5767150	1.1	10.2	8.9	38	0.10	22.5	6.7	126	2.15	13.20	0.3	0.80	0.8	6	0.2	0.70
56400E 67200N	656400	5767200	1.2	42.5	8.1	64	0.20	73.2	17.7	317	3.31	22.40	0.3	1.50	0.7	16	0.2	1.90
56400E 67250N	656400	5767250	1.9	30.3	6.7	59	0.10	17.2	7.2	220	2.87	8.70	0.5	4.70	0.5	16	0.3	0.60
56400E 67300N	656400	5767300	2	75.1	4.1	82	0.10	68.9	20.7	217	4.28	9.90	0.4	3.10	0.4	16	0.2	2.30
56400E 67350N	656400	5767350	0.8	27.1	4.8	89	0.80	37.6	15.7	193	2.86	10.60	0.5	2648.00	1.2	20	0.3	0.70
56400E 67400N	656400	5767400	0.8	33.1	4.1	57	<0.1	35.2	16.3	270	2.82	12.20	0.5	10.90	1.5	22	0.3	0.80
56400E 67450N	656400	5767450	0.8	71.1	3.4	60	0.20	108.9	17.9	209	3.17	21.50	0.5	1.50	1	19	0.3	2.00
56400E 67500N	656400	5767500	1.1	57.2	4.3	66	0.20	40.3	17.1	402	3.39	14.40	0.6	7.40	1.3	26	0.2	1.00
56400E 67550N	656400	5767550	2.5	61.3	4.2	70	0.10	22.5	13.8	398	4.83	14.50	0.4	3.40	0.6	36	0.3	1.10
56400E 67600N	656400	5767600	1	81.5	7.8	70	0.40	50.8	21.8	903	3.68	20.70	0.8	2.90	0.9	41	0.8	2.10
56400E 67650N	656400	5767650	0.7	49.1	5.6	78	0.20	38.7	18.3	318	3.61	19.30	0.5	2.50	0.9	29	0.3	0.90
56400E 67700N	656400	5767700	0.6	35.8	4.4	47	0.10	26.2	13.2	239	2.66	12.20	0.4	6.00	1	26	0.2	0.70
56400E 67750N	656400	5767750	0.7	44.4	4	45	<0.1	26.3	12.6	254	2.74	12.20	0.5	1.20	0.9	24	0.1	0.50
56400E 67800N	656400	5767800	0.3	43.2	4	47	0.20	27.4	17.9	353	3.16	13.40	0.4	2.80	1.1	22	0.1	0.70
56400E 67850N	656400	5767850	0.6	60.3	4.9	84	0.20	67.9	25.4	265	3.45	15.60	0.3	0.25	0.8	37	0.2	1.40
56400E 67900N	656400	5767900	0.5	79.6	6.4	53	0.10	52.6	19.7	278	3.54	40.80	0.3	1.30	0.6	61	0.2	5.40
56400E 67950N	656400	5767950	0.2	180.8	3.5	70	0.20	64	37.3	566	4.96	99.60	0.4	2.10	0.9	68	0.2	2.10

Hen Soil Geochemical Samples

Sample	Easting	Northing	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
56400E 68000N	656400	5768000	1.8	141.0	7.8	61	0.60	69.6	25.6	734	3.8	75.10	1	4.80	1.1	59	0.3	4.30
56200E 66500N	656200	5766500	0.6	14.5	4.4	39	0.20	11.6	7.5	183	1.45	2.50	0.3	0.25	0.7	9	0.1	0.20
56200E 66550N	656200	5766550	1	112.8	3.7	62	0.20	63.9	22.9	582	4.17	17.10	1.3	3.70	2.3	42	<0.1	0.50
56200E 66600N	656200	5766600	0.3	78.4	3.3	190	0.20	55.3	32.2	569	4.09	4.80	0.3	1.20	0.8	24	0.4	0.20
56200E 66650N	656200	5766650	0.7	68.8	3.8	97	0.20	51.9	21.4	256	3.3	7.90	0.4	5.00	1.3	19	0.3	0.50
56200E 66700N	656200	5766700	0.5	52.3	5	136	0.20	47.2	20.5	358	3.09	8.60	0.4	1.90	1.4	28	0.4	0.50
56200E 66750N	656200	5766750	0.6	50.8	6	249	0.30	36.8	22.6	319	3.14	8.60	0.5	1.40	1.9	19	0.5	0.40
56200E 66800N	656200	5766800	0.5	40.5	4.2	88	0.20	32.3	15.4	282	2.56	8.80	0.3	2.30	1.4	22	0.2	0.60
56200E 66850N	656200	5766850	0.5	55.8	3.9	82	0.10	41.1	18.3	239	3.03	12.30	0.3	3.50	1.4	23	0.1	0.60
56200E 66900N	656200	5766900	0.6	50.1	3.6	42	<0.1	36.4	17.3	264	2.93	14.90	0.5	5.50	2.1	26	<0.1	0.90
56200E 66950N	656200	5766950	0.8	66.5	3.7	45	<0.1	43.5	17.3	371	2.97	17.50	0.6	7.50	3.1	29	<0.1	1.20
56200E 67000N	656200	5767000	0.8	57.9	6.5	93	0.20	45.4	20.8	503	3.26	14.70	0.4	2.40	0.6	22	0.4	0.80
56200E 67050N	656200	5767050	0.6	59.9	5.5	123	0.20	32.8	17.3	586	2.15	5.00	0.2	1.10	0.8	15	0.4	0.60
56200E 67100N	656200	5767100	0.3	100.7	3.9	98	0.10	45.7	18.1	198	2.62	7.80	0.2	1.90	1.2	21	0.2	0.70
56200E 67150N	656200	5767150	0.6	120.0	5.6	152	0.10	59.1	23.6	356	3.5	25.90	0.3	1413.40	1.7	31	0.4	1.10
56200E 67200N	656200	5767200	1.5	82.5	6.6	118	<0.1	61.1	23	390	4.26	26.30	0.4	6.50	1.5	20	0.3	1.60
56200E 67250N	656200	5767250	1	29.8	5.9	86	0.10	50.9	16.6	284	2.97	8.00	0.3	2.80	1	22	0.3	0.80
56200E 67300N	656200	5767300	2.4	51.7	6.8	171	<0.1	70.4	20.4	288	3.97	14.50	0.4	3.50	1	19	0.9	1.60
56200E 67350N	656200	5767350	3.3	101.4	4.1	80	<0.1	109.4	30.9	509	4.5	78.90	0.5	3.30	1.3	20	0.2	1.50
56200E 67400N	656200	5767400	0.7	101.1	2.7	61	<0.1	153	29	272	4.19	13.00	0.2	2.10	0.8	18	0.1	0.90
56200E 67450N	656200	5767450	0.7	83.7	5.4	90	<0.1	105.2	26.4	300	3.83	25.20	0.4	10.70	1.3	21	0.2	1.80
56200E 67500N	656200	5767500	7.8	110.2	4.2	138	0.20	80.2	28.8	449	5.13	8.20	0.5	2.90	0.7	19	0.6	1.10
56200E 67550N	656200	5767550	0.6	93.8	4	63	<0.1	85.1	24.9	294	3.66	16.70	0.3	3.30	1	26	0.1	1.70
56200E 67600N	656200	5767600	1.1	189.0	4.6	55	0.30	162.9	29.8	565	3.47	22.20	1.1	13.40	1.3	33	0.4	3.40
56200E 67650N	656200	5767650	1	160.4	5.5	76	0.40	151.9	29.2	693	4.34	24.90	1.1	5.20	1.6	55	0.8	2.80
56200E 67700N	656200	5767700	1.4	111.2	6.2	69	0.30	78.8	24.6	439	3.87	26.60	0.9	8.40	1	43	0.5	2.70
56200E 67750N	656200	5767750	0.9	103.9	5.2	75	0.20	79.5	26.1	529	4.14	26.80	0.7	4.60	1.2	58	0.3	3.50
56200E 67800N	656200	5767800	0.9	80.4	4	40	0.10	56.4	17.5	252	3.25	22.00	0.4	4.60	1.3	34	0.1	2.20
56200E 67850N	656200	5767850	0.8	88.0	5.8	153	<0.1	32.6	24.3	670	4.6	21.30	0.2	1.30	0.9	44	0.2	1.90
56200E 67900N	656200	5767900	1.1	112.9	6.7	85	0.30	90.9	19.6	388	3.28	61.00	0.7	4.20	1.1	29	0.4	2.90
56200E 67950N	656200	5767950	1	27.9	6.9	51	0.10	28.2	11.1	246	2.44	12.90	0.3	1.70	0.7	21	0.2	1.20
56200E 68000N	656200	5768000	1.6	54.9	6.5	66	0.50	36.2	15.8	312	3.42	18.50	0.4	3.90	0.6	28	0.2	1.90
56000E 66500N	656000	5766500	1	53.9	6.7	41	0.20	47	14	203	2.81	7.70	0.5	2.00	1.1	27	0.3	0.30
56000E 66550N	656000	5766550	0.4	17.1	5.5	45	0.10	20.1	11	298	2.07	4.70	0.9	1.70	7	28	0.2	0.30
56000E 66600N	656000	5766600	0.4	21.6	6.2	109	0.10	18.9	11.5	263	2.55	8.20	0.4	1.30	2.3	18	0.4	0.30
56000E 66650N	656000	5766650	0.7	20.9	5.2	80	<0.1	28.1	15.4	234	2.96	5.80	0.3	1.00	1.4	15	0.3	0.50
56000E 66750N	656000	5766750	0.3	32.3	5.4	106	<0.1	45.2	17.4	322	2.33	4.50	0.2	3.30	1.2	17	0.4	0.30
56000E 66800N	656000	5766800	0.5	44.5	4.1	78	<0.1	43.9	19.6	221	2.88	6.90	1.2	13.70	8.2	15	0.2	0.50
56000E 66850N	656000	5766850	0.5	25.0	5.2	48	<0.1	20.4	10	163	2.06	6.10	0.7	2.70	3.6	17	0.2	0.50
56000E 66900N	656000	5766900	0.6	74.2	2.8	52	0.10	36.5	13.4	269	2.61	11.90	0.5	4.20	2.2	26	0.1	0.90
56000E 66950N	656000	5766950	0.9	112.2	5.4	54	0.30	50.3	18	534	3.24	23.70	2.3	5.20	2.5	27	0.3	1.40
56000E 67000N	656000	5767000	0.7	71.0	3.6	52	<0.1	46.4	17.4	289	2.82	11.90	0.6	2.10	1.5	21	0.1	1.00
56000E 67050N	656000	5767050	0.5	61.5	3.5	49	0.10	42.8	16.1	224	2.76	13.80	0.4	4.10	1.7	19	0.2	0.70
56000E 67100N	656000	5767100	0.5	50.7	5.9	122	0.20	52.8	20.5	291	2.92	15.30	0.3	1.60	1.3	24	0.3	0.70
56000E 67150N	656000	5767150	0.6	78.3	4.4	56	0.10	43.9	16.8	391	2.94	18.80	0.7	71.70	2.6	29	0.1	1.90
56000E 67200N	656000	5767200	1.8	273.5	8.6	64	0.90	122.8	15.2	1245	2.8	47.30	2.4	10.50	1.8	23	0.3	2.30
56000E 67250N	656000	5767250	0.4	46.4	4.3	63	0.20	37.2	14.2	240	2.61	11.20	0.5	4.10	1.7	19	0.3	0.60
56000E 67300N	656000	5767300	0.5	21.8	6.1	90	0.10	24.7	14.9	362	2.21	7.10	0.3	1.50	1.2	17	0.3	0.40
56000E 67350N	656000	5767350	0.5	53.8	5	88	0.10	31.4	16.9	275	2.76	11.20	0.3	2.20	1.2	19	0.3	0.60

Hen Soil Geochemical Samples

Sample	Easting	Northing	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
56000E 67400N	656000	5767400	0.4	31.9	5.4	120	0.10	34.9	18.1	338	2.74	8.20	0.3	3.30	1.1	17	0.4	0.50
56000E 67450N	656000	5767450	0.4	37.4	5.4	49	<0.1	25.5	10.4	200	1.86	8.10	0.2	1.60	0.6	18	0.1	0.50
56000E 67500N	656000	5767500	0.7	29.0	5.2	121	0.20	36.3	17.4	297	2.99	12.30	0.4	5.10	1.3	15	0.3	0.50
56000E 67550N	656000	5767550	0.5	29.2	4.8	137	0.20	36.1	16.3	399	2.57	7.00	0.3	2.20	1.2	17	0.2	0.40
56000E 67600N	656000	5767600	1	44.4	5.6	123	0.10	47.2	17.4	412	3.09	10.10	0.4	3.00	1.2	18	0.4	0.70
56000E 67650N	656000	5767650	0.7	35.6	5.5	68	<0.1	25.3	13	327	2.46	10.70	0.3	1.40	1.1	15	0.4	0.60
56000E 67700N	656000	5767700	0.6	38.6	4.7	123	0.20	41.8	16.4	439	2.59	11.90	0.3	15.20	1.1	24	0.9	0.80
56000E 67750N	656000	5767750	0.8	64.5	5.8	152	0.10	81.2	17.9	353	3.23	16.50	0.4	1.90	1.3	20	0.6	0.90
56000E 67800N	656000	5767800	2.3	28.7	7.5	191	0.20	31.4	17.5	835	3.49	13.80	0.4	1.70	1	23	0.5	0.80
56000E 67850N	656000	5767850	2	34.2	9	186	0.10	34.8	13.4	563	2.78	8.00	0.3	3.20	1	18	0.5	0.50
56000E 67900N	656000	5767900	0.5	42.1	9.8	241	0.10	17.4	16.1	495	3.23	13.00	0.4	1.90	1.1	26	0.9	0.40
56000E 67950N	656000	5767950	1	55.1	4.5	81	0.10	37.1	18.7	280	3.34	15.20	0.3	2.00	0.7	20	0.3	0.80
56000E 68000N	656000	5768000	2.3	30.0	9	207	0.20	35.8	20	904	3.83	13.60	0.4	4.20	1.3	23	0.7	0.70
L63000E 67000N	663000	5767000	0.9	30.8	6.5	130	0.20	44.6	17.4	214	2.86	8.90	0.3	1.10	0.8	24	0.2	0.90
L63000E 67050N	663000	5767050	0.8	34.5	5.6	91	0.10	46.2	17.9	695	2.87	12.70	0.2	0.50	0.6	21	0.3	1.40
L63000E 67100N	663000	5767100	0.8	60.2	4.2	66	0.10	68.6	21.7	302	3.44	15.90	0.2	0.50	1.1	27	<0.1	1.10
L63000E 67150N	663000	5767150	0.7	34.8	6.7	99	0.10	40.6	16.5	338	2.28	15.00	0.2	0.50	0.8	15	0.3	0.50
L63000E 67200N	663000	5767200	0.6	14.5	9.4	84	0.10	19.4	10.0	362	1.79	7.20	0.2	2.50	0.6	8	0.2	0.50
L63000E 67250N	663000	5767250	0.7	53.2	4.1	78	0.10	94.8	21.0	175	3.08	10.70	0.3	7.90	0.9	11	0.2	0.90
L63000E 67300N	663000	5767300	1.1	63.4	4.5	75	0.20	100.9	25.6	188	3.91	10.10	0.5	0.50	0.8	12	0.2	0.80
L63000E 67350N	663000	5767350	0.9	50.8	5.2	77	0.10	104.9	23.2	184	3.16	7.10	0.3	0.50	0.7	9	0.2	1.00
L67000E 67400N	667000	5767400	1.0	118.8	2.4	62	0.10	162.4	29.0	359	4.45	9.10	0.2	0.50	0.5	9	<0.1	0.60
L67000E 67450N	667000	5767450	0.8	41.1	4.3	54	0.10	73.3	18.8	169	2.78	7.50	0.3	0.50	0.7	12	0.1	0.60
L67000E 67500N	667000	5767500	0.6	92.3	3.3	53	0.10	209.4	27.3	222	3.58	23.70	0.2	0.50	0.2	13	<0.1	2.60
L57300E 67000N	657300	5767000	1.1	42.4	5.8	67	0.10	45.1	13.4	330	3.02	12.30	0.3	0.90	0.6	23	0.2	0.90
L57300E 66950N	657300	5766950	2.6	71.3	7.3	42	0.50	39.4	10.0	213	3.80	24.40	0.8	0.50	0.3	15	0.5	0.90
L57300E 66900N	657300	5766900	1.7	155.9	9.0	119	0.70	113.5	33.7	1043	5.46	33.80	1.1	2.30	0.4	33	0.8	1.40
L57300E 66850N	657300	5766850	0.8	58.0	6.2	71	0.10	44.4	16.5	429	3.62	17.90	0.4	1.30	0.5	24	0.2	0.70
L57300E 66800N	657300	5766800	0.7	50.8	6.0	55	0.10	33.4	14.6	297	3.00	17.30	0.3	24.30	0.5	19	0.1	0.70
L57300E 66750N	657300	5766750	0.9	77.3	5.6	69	0.10	53.3	19.9	339	3.91	18.60	0.3	2.20	0.9	18	0.1	0.80
L57300E 66700N	657300	5766700	1.7	86.0	8.1	64	0.10	44.2	18.6	376	3.45	15.00	0.7	1.60	1.1	23	0.1	0.70
L57300E 66650N	657300	5766650	1.5	11.3	9.2	20	0.10	10.4	4.3	83	1.84	3.50	0.3	0.50	0.5	13	<0.1	0.30
L57300E 66600N	657300	5766600	1.5	46.8	8.1	77	0.10	44.0	16.1	365	3.63	12.50	0.5	0.90	1.3	17	0.1	0.60
L57300E 66550N	657300	5766550	1.3	10.3	9.7	21	0.10	7.3	2.9	65	1.33	1.30	0.6	0.50	1.2	7	<0.1	0.20
L57300E 66500N	657300	5766500	0.9	46.9	6.0	55	0.10	44.3	16.7	359	3.02	12.50	0.5	2.10	1.1	23	0.3	0.80
L16N: 17E	652822	5763732	1.0	34.1	7.4	78	0.20	28.7	10.7	376	2.74	15.00	0.4	0.80	0.3	11	0.1	0.20
L16N: 17 + 50E	652872	5763734	0.7	24.4	5.0	42	0.20	17.6	8.9	198	2.55	8.90	0.4	0.90	0.6	13	0.3	0.20
L16N: 18E	652922	5763736	1.2	54.5	5.0	42	0.10	31.1	17.6	642	3.29	14.40	0.6	1.90	0.5	24	0.1	0.50
L16N: 18 + 50E	652972	5763738	1.3	38.9	6.0	35	0.10	26.3	11.4	163	2.94	13.10	0.4	0.50	1.0	13	0.2	0.40
L16N: 19E	653022	5763739	0.9	39.5	5.6	43	0.20	23.0	10.6	171	2.56	11.70	0.4	0.50	1.1	10	0.2	0.40
L16N: 19 + 50E	653072	5763741	1.1	20.4	5.1	49	0.20	13.9	7.6	198	2.45	6.70	0.3	0.50	0.2	13	0.2	0.20
L18N: 17E	652805	5763946	0.8	33.4	4.1	74	0.20	22.6	12.1	473	2.75	9.10	0.3	1.30	0.3	14	0.3	0.40
L18N: 17 + 50E	652855	5763947	1.0	46.3	4.3	49	0.10	26.2	11.9	204	3.12	14.00	0.4	0.50	0.6	17	0.2	0.40
L18N: 18E	652905	5763948																
L18N: 18 + 50E	652955	5763948	1.0	28.5	5.7	34	0.30	17.2	8.3	122	3.22	10.40	0.4	2.90	0.7	11	0.2	0.30
L18N: 19E	653005	5763949	1.1	22.8	6.4	66	0.20	16.9	8.1	278	2.39	9.50	0.3	0.70	0.3	7	0.2	0.20
L18N: 19 + 50E	653055	5763950	2.0	34.0	6.0	54	0.40	18.1	11.7	464	2.74	11.30	0.6	0.50	0.3	19	0.4	0.20
L20N: 17E	652785	5764132	0.6	60.0	3.7	61	0.20	32.0	13.8	340	3.22	15.80	0.4	0.50	0.4	24	0.3	0.40
L20N: 17 + 50E	652835	5764134	0.8	49.1	6.9	81	0.20	30.7	14.8	351	3.41	15.40	0.6	1.20	1.0	22	0.7	0.30

Hen Soil Geochemical Samples

Sample	Easting	Northing	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
L20N: 18E	652885	5764136	1.2	60.3	5.8	57	0.60	26.7	11.9	218	3.98	17.20	0.8	2.40	0.8	27	0.5	0.40
L20N: 18 + 50E	652935	5764139	1.1	42.1	5.3	77	0.30	29.3	14.2	250	3.69	16.30	0.4	4.30	0.7	18	0.3	0.40
L20N: 19E	652985	5764141	1.2	28.6	5.8	76	0.40	19.3	9.8	270	3.41	10.10	0.5	0.50	0.6	16	0.3	0.40
L20N: 19 + 50E	653034	5764144	0.8	34.0	5.5	42	0.20	21.0	9.6	218	2.90	15.10	0.4	0.50	0.6	25	0.3	0.30
L22N: 17E	652775	5764330	1.3	26.0	6.9	103	0.20	22.1	9.3	240	3.57	12.60	0.4	0.90	0.4	17	0.5	0.30
L22N: 17 + 50E	652825	5764332	1.0	35.5	7.1	95	0.30	20.4	11.0	341	3.30	17.10	0.5	2.10	0.3	28	0.3	0.30
L22N: 18E	652875	5764334	0.6	41.3	4.5	48	0.40	24.0	10.4	178	2.74	10.10	0.4	0.50	0.7	17	0.3	0.20
L22N: 18 + 50E	652925	5764336	1.3	36.0	9.7	76	0.30	18.2	10.5	258	2.91	8.90	0.5	0.60	1.0	8	0.2	0.20
L22N: 19E	652975	5764338	1.2	39.3	9.6	89	0.20	21.0	9.6	343	3.30	11.80	0.4	0.70	0.5	11	0.2	0.20
L22N: 19 + 50E	653025	5764340	1.1	54.7	5.4	83	0.30	27.9	12.1	241	3.19	13.20	0.5	0.50	0.9	15	0.2	0.30
L24N: 17E	652768	5764505	1.2	75.2	9.2	107	0.30	33.8	15.6	381	3.31	19.40	0.9	0.50	0.4	32	0.4	0.40
L24N: 17 + 50E	652817	5764510	1.8	59.4	6.6	42	0.20	22.5	9.2	169	3.18	14.80	0.7	0.50	0.4	22	0.8	0.30
L24N: 18E	652867	5764516	1.4	44.7	6.6	67	0.20	24.1	10.2	170	3.30	13.90	0.4	0.50	0.5	20	0.7	0.30
L24N: 18 + 50E	652917	5764521	0.9	102.4	10.1	139	0.20	60.2	23.6	613	4.10	26.30	0.7	1.50	0.6	37	0.5	0.30
L24N: 19E	652966	5764527	1.0	26.8	4.4	38	0.10	18.9	8.3	151	2.41	6.80	0.3	1.00	0.8	13	0.2	0.30
L24N: 19 + 50E	653016	5764532	1.2	88.5	7.7	80	0.10	28.6	13.0	336	3.59	20.20	0.7	2.00	1.2	9	0.1	0.30

Hen Soil Geochemical Samples

Sample	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
59000E 66600N	<0.1	106	0.58	0.062	5	353	3.66	168	0.222	<20	4.12	0.022	0.37	0.1	0.04	4	0.1	<0.05	10	0.8
59000E 66650N	0.1	158	0.53	0.129	6	125	1.64	198	0.215	<20	2.82	0.026	0.53	0.2	0.03	4.5	0.2	<0.05	9	<0.5
59000E 66700N	<0.1	176	0.58	0.167	8	64	1.6	460	0.266	<20	2.23	0.023	0.78	0.2	0.02	2.8	<0.1	<0.05	7	<0.5
59000E 66750N	0.1	116	0.29	0.079	5	103	1.11	76	0.146	<20	2.42	0.014	0.18	0.2	0.07	2.9	0.1	<0.05	7	<0.5
59000E 66800N	0.2	126	0.33	0.079	5	156	1.68	117	0.178	<20	2.92	0.025	0.29	0.1	0.05	3.2	0.1	<0.05	8	<0.5
59000E 66850N	0.1	169	0.65	0.064	4	76	1.24	153	0.231	<20	2.47	0.014	0.31	0.2	0.05	4.1	0.1	<0.05	9	0.5
59000E 66900N	0.1	128	0.78	0.052	11	136	1.34	248	0.171	<20	2.94	0.017	0.41	0.3	0.08	7.4	0.2	<0.05	8	0.9
59000E 66950N	0.1	100	0.16	0.144	5	61	0.68	103	0.134	<20	1.91	0.011	0.15	0.2	0.05	2	<0.1	<0.05	9	<0.5
59000E 67000N	0.1	106	0.49	0.131	4	206	1.87	179	0.163	<20	2.57	0.033	0.16	0.3	0.03	3.1	<0.1	<0.05	7	<0.5
59000E 67050N	0.1	148	0.35	0.179	5	63	1.38	126	0.204	<20	2.6	0.016	0.17	0.8	0.05	3.6	0.1	<0.05	10	<0.5
59000E 67100N	0.1	145	0.37	0.062	7	92	1.37	125	0.211	<20	2.61	0.019	0.43	0.3	0.05	4.2	0.3	<0.05	10	0.7
59000E 67150N	<0.1	159	0.57	0.097	5	75	1.72	137	0.236	<20	3.2	0.02	0.55	0.3	0.05	4.3	0.3	<0.05	10	<0.5
59000E 67200N	<0.1	171	0.32	0.095	2	53	1.44	80	0.248	<20	2.95	0.012	0.24	0.2	0.04	2.9	0.1	<0.05	11	<0.5
59000E 67250N	0.1	106	0.2	0.105	4	48	0.78	65	0.174	<20	2.82	0.015	0.08	0.3	0.04	2.4	<0.1	<0.05	8	<0.5
59000E 67300N	<0.1	109	0.22	0.139	4	75	1.21	95	0.152	<20	3.15	0.013	0.13	0.3	0.04	2.8	0.1	<0.05	9	<0.5
59000E 67350N	0.1	120	0.28	0.092	5	70	1.22	76	0.161	<20	3.07	0.012	0.13	0.2	0.05	3.1	0.1	<0.05	9	0.8
59000E 67400N	0.1	100	0.26	0.071	4	58	0.95	86	0.166	<20	2.61	0.014	0.09	0.2	0.05	2.8	<0.1	<0.05	9	<0.5
59000E 67450N	<0.1	120	0.18	0.123	5	77	1.28	95	0.179	<20	3.76	0.013	0.16	0.3	0.06	3.8	0.1	<0.05	8	0.5
59000E 67500N	0.1	117	0.29	0.058	4	68	1.14	98	0.193	<20	2.54	0.015	0.11	0.2	0.06	2.7	<0.1	<0.05	9	<0.5
59000E 67550N	0.1	112	0.14	0.107	4	55	0.82	71	0.155	<20	3.21	0.011	0.1	0.3	0.06	2.8	0.1	<0.05	9	<0.5
59000E 67600N	0.1	94	0.32	0.072	4	65	0.95	127	0.129	<20	2.07	0.012	0.14	0.1	0.06	2	<0.1	<0.05	8	0.6
58800E 66550N	0.1	115	0.43	0.087	7	113	1.62	135	0.166	<20	2.7	0.022	0.35	0.1	0.03	4.2	0.3	<0.05	8	<0.5
58800E 66600N	<0.1	121	0.55	0.07	5	371	3.24	166	0.199	<20	3.57	0.013	0.38	0.2	0.03	3.3	0.1	<0.05	10	<0.5
58800E 66650N	0.1	126	0.36	0.166	5	105	1.76	165	0.162	<20	3.3	0.015	0.36	0.3	0.04	4.3	0.2	<0.05	9	0.8
58800E 66700N	0.1	106	0.56	0.152	3	106	1.27	129	0.16	<20	2.37	0.014	0.17	0.3	0.08	2.6	<0.1	<0.05	9	<0.5
58800E 66750N	<0.1	198	0.58	0.157	6	59	2.11	495	0.344	<20	3.26	0.017	1.27	0.2	0.02	3.1	<0.1	<0.05	10	<0.5
58800E 66800N	0.1	127	0.49	0.057	7	118	1.56	155	0.205	<20	2.75	0.018	0.37	0.2	0.03	4.3	0.2	<0.05	8	<0.5
58800E 66850N	<0.1	116	0.36	0.118	6	101	1.57	160	0.162	<20	2.55	0.02	0.4	0.2	0.02	3.3	0.2	<0.05	7	<0.5
58800E 66900N	<0.1	139	0.61	0.1	8	112	1.68	237	0.21	<20	2.16	0.022	0.7	0.3	0.03	5.4	0.2	<0.05	7	<0.5
58800E 66950N	<0.1	134	0.39	0.093	5	119	1.55	154	0.212	<20	2.7	0.018	0.32	0.3	0.05	2.9	0.1	<0.05	9	<0.5
58800E 67000N	<0.1	126	0.44	0.081	4	75	1.41	150	0.201	<20	2.88	0.015	0.23	0.3	0.06	3.3	<0.1	<0.05	9	<0.5
58800E 67050N	<0.1	130	0.3	0.134	4	86	1.47	200	0.199	<20	3.19	0.015	0.16	0.5	0.04	2.9	<0.1	<0.05	9	<0.5
58800E 67100N	<0.1	121	0.42	0.121	5	90	1.45	120	0.165	<20	2.87	0.016	0.29	0.3	0.06	3	0.2	<0.05	8	0.9
58800E 67200N	0.1	104	0.29	0.174	3	44	0.91	90	0.159	<20	2.44	0.012	0.1	0.3	0.04	1.9	<0.1	<0.05	8	<0.5
58800E 67250N	0.1	104	0.35	0.137	4	50	1.03	146	0.158	<20	2.14	0.013	0.15	0.3	0.06	2.1	<0.1	<0.05	9	<0.5
58800E 67300N	<0.1	109	0.25	0.148	4	56	1.2	132	0.122	<20	2.84	0.012	0.17	0.3	0.04	2.6	0.1	0.05	8	0.6
58800E 67350N	<0.1	88	0.18	0.1	4	70	0.94	110	0.118	<20	2.07	0.022	0.11	0.2	0.02	2	<0.1	<0.05	7	<0.5
58800E 67400N	<0.1	124	0.25	0.049	6	83	1.33	97	0.149	<20	2.88	0.014	0.31	0.2	0.02	3.3	0.2	<0.05	9	0.5
58800E 67450N	0.1	121	0.55	0.065	6	89	1.49	151	0.135	<20	2.92	0.015	0.36	0.1	0.03	3.6	0.2	<0.05	8	0.8
58800E 67500N	0.1	133	0.55	0.063	5	76	1.42	131	0.14	<20	3.16	0.018	0.29	0.3	0.03	3.1	0.2	<0.05	10	0.6
58800E 67550N	0.1	112	0.22	0.094	3	58	0.85	123	0.127	<20	2.09	0.013	0.12	0.2	0.05	1.9	<0.1	<0.05	10	<0.5
58800E 67600N	0.1	120	0.33	0.068	5	60	1.04	106	0.14	<20	2.72	0.015	0.16	0.2	0.02	2.7	0.1	<0.05	10	<0.5
58800E 67700N	0.2	108	0.19	0.071	3	44	0.57	92	0.142	<20	2.05	0.016	0.1	0.2	0.05	1.5	<0.1	<0.05	11	0.6
58800E 67750N	0.2	122	0.21	0.132	4	55	0.68	120	0.132	<20	2.48	0.012	0.14	0.4	0.1	1.9	<0.1	<0.05	11	0.6
58800E 67800N	0.1	127	0.17	0.095	3	36	0.73	72	0.138	<20	2.14	0.01	0.12	0.3	0.05	1.6	<0.1	<0.05	11	<0.5
58600E 66500N	0.1	142	0.38	0.038	4	108	1.58	160	0.181	<20	2.61	0.016	0.31	0.3	0.01	3.5	0.2	<0.05	9	<0.5
58600E 66550N	<0.1	117	0.31	0.234	5	93	1.14	187	0.139	<20	2.8	0.013	0.26	0.3	0.03	3.1	0.1	<0.05	8	0.7
58600E 66600N	<0.1	132	0.52	0.048	6	109	1.76	223	0.18	<20	2.53	0.02	0.7	0.2	0.01	5	0.3	<0.05	8	0.6
58600E 66650N	0.2	280	0.39	0.191	5	95	2.37	399	0.396	<20	3.13	0.016	1.41	<0.1	0.02	3.1	0.2	0.12	11	1.4

Hen Soil Geochemical Samples

Sample	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
58600E 66700N	<0.1	137	0.4	0.196	5	84	1.63	191	0.19	<20	2.62	0.021	0.58	0.2	0.01	3.7	0.1	<0.05	8	<0.5
58600E 66750N	<0.1	152	0.39	0.145	5	83	1.4	197	0.258	<20	3.15	0.014	0.31	0.2	0.03	3.7	<0.1	<0.05	10	<0.5
58600E 66800N	<0.1	147	0.23	0.197	3	64	1.29	258	0.277	<20	2.9	0.019	0.39	0.2	0.01	3	0.1	<0.05	11	<0.5
58600E 66850N	<0.1	97	0.25	0.098	2	41	0.66	166	0.192	<20	1.41	0.015	0.15	0.2	0.03	1.5	<0.1	<0.05	9	<0.5
58600E 66900N	<0.1	106	0.31	0.104	4	74	1.3	180	0.163	<20	2.71	0.016	0.22	0.2	0.02	2.4	<0.1	<0.05	8	<0.5
58600E 66950N	<0.1	132	0.32	0.115	4	66	1.31	189	0.207	<20	3.03	0.027	0.18	0.3	0.03	3.3	<0.1	<0.05	9	<0.5
58600E 67000N	<0.1	137	0.31	0.071	5	87	1.27	154	0.2	<20	3.19	0.013	0.17	0.4	0.04	3	<0.1	<0.05	9	0.5
58600E 67300N	<0.1	107	0.23	0.189	5	81	1.13	90	0.101	<20	2.65	0.015	0.31	0.2	0.03	2.8	0.2	<0.05	8	0.6
58600E 67350N	0.1	137	0.72	0.095	6	79	1.27	117	0.139	<20	2.51	0.019	0.31	0.4	0.02	4	0.1	<0.05	10	0.7
58600E 67400N	<0.1	97	0.99	0.079	9	62	0.82	87	0.124	<20	1.97	0.018	0.15	1.1	0.02	3.9	<0.1	<0.05	8	<0.5
58600E 67450N	0.1	112	0.42	0.166	4	55	0.69	141	0.143	<20	2.88	0.02	0.15	2.2	0.05	2.2	0.1	<0.05	9	<0.5
58600E 67500N	0.1	124	0.19	0.068	4	75	1.02	110	0.183	<20	3.01	0.016	0.13	1.2	0.02	2.8	<0.1	<0.05	10	<0.5
58600E 67550N	0.1	131	0.17	0.1	3	70	0.89	100	0.17	<20	2.28	0.016	0.12	0.7	0.03	2.4	<0.1	<0.05	10	<0.5
58600E 67600N	0.1	134	0.41	0.081	4	74	1.05	135	0.138	<20	2.41	0.015	0.15	5.4	0.02	3.3	<0.1	0.07	10	<0.5
58600E 67650N	<0.1	122	0.16	0.109	3	47	0.8	84	0.115	<20	2.38	0.014	0.1	0.4	0.04	2	0.1	0.08	9	0.5
58600E 67700N	0.1	120	0.14	0.059	4	61	0.75	97	0.136	<20	2.09	0.014	0.11	0.3	0.03	2	<0.1	0.05	9	0.7
58400E 66500N	<0.1	164	0.59	0.07	6	74	1.93	333	0.208	<20	3.25	0.029	0.55	0.3	<0.01	7	0.2	<0.05	11	0.6
58400E 66550N	<0.1	135	0.44	0.089	6	92	1.4	180	0.18	<20	2.71	0.016	0.4	0.4	0.01	4	0.1	<0.05	8	<0.5
58400E 66600N	<0.1	150	0.72	0.138	7	93	1.84	276	0.243	<20	2.7	0.05	0.73	0.2	<0.01	4.2	0.2	<0.05	8	<0.5
58400E 66650N	<0.1	151	0.46	0.082	5	132	1.91	213	0.218	<20	2.78	0.023	0.56	0.3	<0.01	4	0.2	<0.05	8	<0.5
58400E 66700N	<0.1	149	0.38	0.293	5	60	1.26	316	0.235	<20	2.5	0.016	0.46	0.2	0.02	3	0.1	<0.05	9	<0.5
58400E 66750N	<0.1	188	0.38	0.237	7	63	1.53	225	0.329	<20	3.23	0.013	0.47	0.6	0.01	3.3	0.1	<0.05	9	<0.5
58400E 66800N	0.2	105	0.18	0.145	5	47	0.48	120	0.19	<20	2.41	0.009	0.11	0.3	0.04	2.3	<0.1	<0.05	10	<0.5
58400E 66850N	<0.1	80	0.33	0.102	7	65	0.8	95	0.131	<20	2.04	0.015	0.18	0.2	0.03	2.9	<0.1	<0.05	5	<0.5
58400E 66900N	<0.1	139	0.31	0.185	4	50	0.93	144	0.229	<20	2.41	0.018	0.29	0.2	0.04	2.9	0.1	<0.05	8	<0.5
58400E 66950N	0.1	129	0.33	0.052	6	91	1.19	97	0.22	<20	2.59	0.012	0.24	0.2	0.04	4	0.1	<0.05	9	<0.5
58400E 67000N	0.1	155	0.26	0.203	2	63	0.93	153	0.316	<20	2.38	0.011	0.25	0.2	0.03	2.8	0.1	<0.05	10	<0.5
58400E 67050N	0.1	134	0.19	0.111	4	47	0.74	120	0.28	<20	2.09	0.011	0.08	0.2	0.04	2.2	<0.1	<0.05	10	<0.5
58400E 67100N	0.1	78	0.28	0.189	4	56	0.56	93	0.162	<20	2.21	0.01	0.06	0.2	0.06	2	<0.1	<0.05	8	<0.5
58400E 67150N	<0.1	105	0.32	0.099	7	95	1.27	110	0.148	<20	2.43	0.02	0.22	0.4	0.03	3.6	0.1	<0.05	7	<0.5
58400E 67200N	0.1	100	0.22	0.071	7	105	1.2	133	0.133	<20	2.7	0.013	0.19	0.2	0.05	3.6	0.1	<0.05	9	0.7
58400E 67250N	0.1	118	0.26	0.071	6	118	1.6	157	0.152	<20	3.05	0.013	0.36	0.2	0.04	3.8	0.2	<0.05	9	0.6
58400E 67300N	<0.1	128	0.33	0.085	6	94	1.41	126	0.158	<20	2.97	0.016	0.26	0.2	0.03	3.8	0.2	<0.05	8	<0.5
58400E 67350N	<0.1	120	0.51	0.063	6	73	1.3	109	0.162	<20	2.74	0.025	0.26	0.2	0.03	3.7	0.2	<0.05	8	0.5
58400E 67400N	<0.1	117	0.8	0.091	6	86	1.26	150	0.132	<20	2.28	0.023	0.41	0.2	0.04	3.8	0.2	<0.05	8	<0.5
58400E 67450N	0.1	120	0.62	0.095	7	86	1.2	139	0.131	<20	2.64	0.014	0.33	0.2	0.04	3.4	0.2	<0.05	8	<0.5
58400E 67500N	0.1	117	0.31	0.098	5	67	1.04	114	0.137	<20	2.61	0.016	0.15	0.2	0.04	2.7	<0.1	<0.05	9	<0.5
58400E 67550N	0.1	115	0.3	0.086	4	65	1.01	110	0.138	<20	2.5	0.013	0.16	0.2	0.04	2.7	0.1	<0.05	9	0.5
58400E 67600N	0.1	118	0.32	0.099	4	62	1.02	116	0.144	<20	2.47	0.012	0.16	0.2	0.03	2.6	<0.1	<0.05	9	<0.5
58400E 67650N	0.1	119	0.35	0.072	5	86	1.04	101	0.132	<20	3.25	0.012	0.14	0.3	0.06	2.8	0.1	<0.05	10	0.6
58400E 67700N	<0.1	166	0.29	0.072	4	107	1.67	234	0.191	<20	4	0.016	0.38	0.6	0.03	4	0.2	<0.05	10	0.7
58400E 67750N	<0.1	97	0.33	0.124	7	66	0.91	154	0.115	<20	2.24	0.035	0.11	0.2	0.04	3	<0.1	<0.05	7	<0.5
58400E 67800N	0.1	109	0.25	0.193	5	67	0.76	119	0.122	<20	2.74	0.013	0.13	0.3	0.07	2.7	<0.1	<0.05	8	0.6
58200E 66350N	0.1	173	0.36	0.048	5	112	1.64	221	0.248	<20	2.66	0.018	0.69	0.3	0.02	5.2	0.2	<0.05	8	0.6
58200E 66400N	<0.1	117	0.46	0.107	8	79	1.17	135	0.17	<20	1.84	0.034	0.41	0.2	0.01	4.9	0.2	<0.05	5	<0.5
58200E 66450N	<0.1	116	0.39	0.119	9	87	1.38	157	0.164	<20	2.14	0.036	0.46	0.2	0.01	5.2	0.2	<0.05	6	0.8
58200E 66500N	0.2	149	0.39	0.089	7	126	1.76	242	0.198	<20	3.44	0.013	0.46	0.2	0.03	5.3	0.2	<0.05	9	0.7
58200E 66550N	<0.1	165	0.75	0.137	7	146	1.83	250	0.26	<20	2.37	0.028	0.73	0.3	0.01	6	0.2	<0.05	8	<0.5
58200E 66600N	0.1	157	0.61	0.06	8	127	1.71	246	0.187	<20	3.26	0.019	0.6	0.2	0.03	8.5	0.3	<0.05	9	0.6

Hen Soil Geochemical Samples

Sample	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
58200E 66650N	<0.1	127	0.47	0.109	8	94	1.51	173	0.183	<20	2.38	0.026	0.48	0.3	0.01	5.5	0.2	<0.05	7	<0.5
58200E 66700N	0.1	140	0.5	0.076	8	96	1.57	242	0.21	<20	2.7	0.029	0.46	0.2	0.03	6	0.2	<0.05	8	<0.5
58200E 66775N	<0.1	139	0.42	0.112	8	106	1.47	136	0.192	<20	2.71	0.018	0.4	0.3	0.02	4.5	0.2	<0.05	8	0.6
58200E 66800N	<0.1	183	0.61	0.052	4	63	1.79	162	0.273	<20	2.25	0.018	0.41	0.2	0.01	6.2	0.1	<0.05	9	0.5
58200E 66850N	<0.1	127	0.24	0.079	5	61	1.2	177	0.217	<20	2.76	0.016	0.48	0.4	0.03	4.2	0.1	<0.05	7	<0.5
58200E 66900N	0.1	101	0.25	0.144	3	64	0.94	222	0.181	<20	2.03	0.013	0.14	0.2	0.03	2.6	<0.1	<0.05	9	<0.5
58200E 66950N	<0.1	118	0.48	0.068	8	139	1.5	170	0.185	<20	2.52	0.011	0.23	0.3	0.03	2.6	<0.1	<0.05	9	<0.5
58200E 67000N	<0.1	113	0.27	0.137	8	94	1.05	94	0.154	<20	2.57	0.013	0.25	0.1	0.04	4	0.2	<0.05	8	0.5
58200E 67050N	<0.1	184	0.63	0.093	3	45	1.06	322	0.134	<20	3.02	0.015	0.69	0.3	0.02	12.9	0.3	<0.05	8	<0.5
58200E 67100N	<0.1	107	0.16	0.111	3	35	0.68	83	0.196	<20	2.43	0.014	0.05	0.1	0.04	2.2	<0.1	<0.05	9	<0.5
58200E 67200N	0.1	99	0.12	0.103	3	31	0.59	81	0.178	<20	2.49	0.014	0.08	0.3	0.05	2.1	<0.1	<0.05	9	<0.5
58200E 67250N	<0.1	126	0.34	0.249	3	84	1.13	146	0.19	<20	3.84	0.013	0.13	0.4	0.07	3	<0.1	<0.05	9	<0.5
58200E 67300N	<0.1	116	0.21	0.118	5	66	1.07	135	0.173	<20	3.4	0.015	0.16	1.7	0.03	3.8	<0.1	<0.05	8	<0.5
58200E 67350N	<0.1	123	0.3	0.114	4	72	1.24	167	0.21	<20	3.35	0.018	0.21	0.3	0.05	3.8	0.1	<0.05	8	0.8
58200E 67400N	<0.1	141	0.25	0.139	3	61	1.45	199	0.203	<20	3.79	0.019	0.2	0.6	0.04	4	<0.1	<0.05	9	<0.5
58200E 67450N	0.2	139	0.24	0.122	3	64	1.04	118	0.195	<20	2.74	0.016	0.14	0.7	0.05	3.1	<0.1	<0.05	11	<0.5
58200E 67500N	0.1	119	0.17	0.125	5	58	0.93	119	0.163	<20	3.57	0.015	0.13	0.4	0.04	3.3	<0.1	<0.05	9	<0.5
58200E 67550N	0.1	119	0.22	0.097	4	59	0.83	91	0.151	<20	2.85	0.016	0.1	0.3	0.05	2.9	<0.1	<0.05	10	<0.5
58200E 67600N	0.1	116	0.22	0.125	4	89	0.94	98	0.168	<20	2.56	0.017	0.12	0.5	0.04	2.7	<0.1	<0.05	10	0.6
58200E 67650N	<0.1	100	0.34	0.123	6	64	0.87	144	0.126	<20	2.87	0.016	0.21	0.3	0.05	3.2	0.1	<0.05	7	0.6
58200E 67700N	0.1	191	0.69	0.212	13	38	1.63	140	0.117	<20	2.72	0.007	0.48	0.1	0.02	8	0.3	<0.05	8	0.8
58200E 67750N	0.1	133	0.56	0.048	12	130	1.46	204	0.158	<20	3.37	0.02	0.41	0.2	0.04	8.3	0.3	<0.05	9	<0.5
58200E 67800N	0.1	108	0.25	0.066	8	99	1.15	127	0.142	<20	3.16	0.019	0.2	0.2	0.05	3.9	0.2	<0.05	7	<0.5
58000E 66325N	0.1	127	0.35	0.086	7	74	0.91	95	0.152	<20	2	0.014	0.17	0.3	0.04	3	0.1	<0.05	6	<0.5
58000E 66350N	0.1	131	0.25	0.116	5	70	0.9	89	0.158	<20	2.01	0.01	0.21	0.4	0.02	3.2	0.1	<0.05	6	<0.5
58000E 66400N	0.2	136	0.37	0.085	5	71	0.91	100	0.173	<20	2.24	0.011	0.18	0.3	0.03	3.2	0.1	<0.05	8	<0.5
58000E 66450N	0.1	118	0.28	0.149	5	69	0.97	146	0.185	<20	2.28	0.015	0.2	0.3	0.02	2.9	0.1	<0.05	7	<0.5
58000E 66500N	0.5	162	0.33	0.08	7	105	1.58	158	0.24	<20	2.79	0.017	0.65	0.6	0.02	5.2	0.3	<0.05	8	<0.5
58000E 66550N	0.2	139	0.35	0.196	6	82	1.4	216	0.221	<20	3.24	0.017	0.29	0.3	0.03	4.7	0.2	<0.05	8	<0.5
58000E 66600N	<0.1	126	0.31	0.162	4	75	1.11	192	0.177	<20	2.74	0.012	0.13	0.3	0.04	4	<0.1	<0.05	8	0.6
58000E 66650N	0.3	113	0.12	0.112	4	46	0.8	116	0.21	<20	2.48	0.01	0.13	0.3	0.04	3.6	0.1	<0.05	8	<0.5
58000E 66700N	<0.1	126	0.24	0.099	5	77	1.26	174	0.206	<20	3.12	0.015	0.23	0.3	0.04	3.9	0.1	<0.05	7	<0.5
58000E 66750N	0.1	126	0.44	0.072	11	101	1.43	202	0.182	<20	2.37	0.018	0.42	0.2	0.04	6.6	0.4	<0.05	7	<0.5
58000E 66800N	0.2	143	0.52	0.035	8	92	1.34	218	0.212	<20	2.58	0.016	0.34	0.2	0.04	6.5	0.2	<0.05	9	<0.5
58000E 66850N	<0.1	180	0.71	0.055	3	179	2.3	280	0.275	<20	2.89	0.015	0.63	0.1	0.01	4.5	<0.1	<0.05	9	<0.5
58000E 66900N	0.1	147	0.66	0.038	11	112	1.26	284	0.191	<20	3.29	0.017	0.44	0.3	0.06	6.5	0.2	<0.05	9	0.6
58000E 66950N	<0.1	145	0.34	0.06	6	63	1.26	307	0.246	<20	2.58	0.015	0.41	0.2	0.02	4.5	0.1	<0.05	9	<0.5
58000E 67000N	<0.1	121	0.49	0.075	7	85	1.35	198	0.203	<20	2.33	0.031	0.37	0.2	0.02	4.7	0.2	<0.05	7	<0.5
58000E 67050N	0.1	127	0.67	0.042	12	123	1.4	167	0.195	<20	2.56	0.031	0.4	0.3	0.07	9.3	0.2	<0.05	7	<0.5
58000E 67100N	<0.1	134	0.69	0.1	8	81	1.48	144	0.207	<20	1.99	0.04	0.46	0.3	0.01	6.1	0.2	<0.05	7	<0.5
58000E 67150N	<0.1	106	0.39	0.052	9	88	1.16	149	0.194	<20	2.37	0.024	0.22	0.2	0.02	4.6	0.1	<0.05	7	<0.5
58000E 67200N	<0.1	120	0.2	0.105	4	52	0.99	187	0.199	<20	3.35	0.015	0.18	0.2	0.04	3	<0.1	<0.05	10	<0.5
58000E 67250N	<0.1	117	0.15	0.091	5	60	0.99	128	0.21	<20	4.32	0.011	0.14	0.4	0.06	3.9	0.1	<0.05	9	0.6
58000E 67300N	<0.1	126	0.23	0.056	5	58	1.13	132	0.199	<20	3.39	0.017	0.15	0.3	0.05	4	<0.1	<0.05	9	<0.5
58000E 67350N	<0.1	122	0.68	0.085	8	81	1.41	208	0.18	<20	2.62	0.027	0.39	0.3	0.03	5.3	0.2	<0.05	8	0.6
58000E 67400N	<0.1	109	0.54	0.088	6	69	1.36	148	0.15	<20	2.58	0.023	0.35	0.2	0.02	3.4	0.2	<0.05	8	0.8
58000E 67450N	<0.1	111	0.38	0.183	5	61	1.02	146	0.154	<20	2.96	0.024	0.22	0.3	0.04	3.1	<0.1	<0.05	7	0.7
58000E 67500N	<0.1	120	0.29	0.142	5	64	1.04	169	0.17	<20	2.92	0.024	0.16	0.3	0.03	2.9	0.1	<0.05	10	0.7
58000E 67550N	<0.1	110	0.24	0.128	5	77	1.14	126	0.15	<20	3.74	0.019	0.17	0.4	0.06	3	0.1	<0.05	8	0.7

Hen Soil Geochemical Samples

Sample	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
58000E 67600N	0.1	102	0.22	0.119	6	65	0.94	103	0.162	<20	3.6	0.016	0.13	0.3	0.07	3.1	0.1	<0.05	8	0.9
58000E 67650N	0.2	187	0.4	0.097	6	84	1.74	91	0.206	<20	4.27	0.02	0.24	0.4	0.03	4.9	0.1	<0.05	11	1
58000E 67700N	0.1	216	0.31	0.107	4	39	1.46	108	0.375	<20	4.75	0.027	0.19	0.9	0.05	7.7	<0.1	0.06	13	1.1
58000E 67750N	0.1	112	0.22	0.14	4	69	1.02	118	0.179	<20	3.17	0.018	0.11	0.3	0.06	2.4	<0.1	<0.05	9	0.6
58000E 67800N	0.1	87	0.16	0.115	5	56	0.64	68	0.143	<20	2.72	0.014	0.08	0.2	0.08	2.2	<0.1	<0.05	9	<0.5
57800E 66300N	0.4	116	0.54	0.091	9	95	1.54	142	0.193	<20	1.86	0.025	0.36	0.5	0.02	5.2	0.2	<0.05	6	0.8
57800E 66350N	0.9	138	0.58	0.053	11	109	1.39	220	0.236	<20	2.33	0.02	0.41	0.7	0.02	5.3	0.2	<0.05	7	0.9
57800E 66400N	0.2	122	0.23	0.07	7	69	0.91	104	0.197	<20	1.76	0.013	0.33	0.6	0.02	2.8	0.2	<0.05	6	0.6
57800E 66450N	0.2	129	0.34	0.165	6	87	1.27	162	0.208	<20	2.71	0.017	0.25	0.4	0.03	3.5	0.1	<0.05	7	0.8
57800E 66500N	0.6	99	0.21	0.202	8	64	1.06	189	0.234	<20	2.89	0.017	0.22	0.5	0.02	3.5	0.2	<0.05	7	0.5
57800E 66550N	1	98	0.27	0.135	7	77	1.23	173	0.217	<20	2.6	0.018	0.17	0.6	0.02	3.4	<0.1	<0.05	7	0.7
57800E 66600N	0.2	112	0.51	0.152	4	59	0.96	181	0.206	<20	2.73	0.016	0.14	1.1	0.03	3.1	<0.1	<0.05	6	0.9
57800E 66650N	0.3	102	0.21	0.07	7	70	1.01	124	0.223	<20	2.62	0.016	0.16	0.3	0.03	3.5	0.1	<0.05	9	0.8
57800E 66700N	0.2	134	0.27	0.116	5	55	1.21	214	0.259	<20	2.47	0.016	0.37	0.2	0.02	3.2	0.1	<0.05	6	0.6
57800E 66750N	0.1	101	0.19	0.157	4	47	0.76	181	0.199	<20	2.04	0.014	0.14	0.2	0.04	2.5	<0.1	<0.05	7	<0.5
57800E 66800N	<0.1	123	0.32	0.025	5	80	1.42	185	0.256	<20	2.13	0.019	0.44	0.2	<0.01	3.9	0.2	<0.05	7	<0.5
57800E 66850N	<0.1	143	0.48	0.038	5	57	1.34	279	0.305	<20	2.15	0.018	0.53	0.2	0.02	5.3	0.1	<0.05	7	<0.5
57800E 66900N	<0.1	105	0.47	0.112	8	75	1.28	156	0.197	<20	1.82	0.023	0.43	0.3	<0.01	2.9	0.1	<0.05	6	<0.5
57800E 66950N	0.1	112	0.33	0.07	9	102	1.25	155	0.207	<20	2.56	0.022	0.33	0.2	0.03	4.1	0.2	<0.05	8	0.9
57800E 67000N	0.1	103	0.55	0.043	9	113	1.37	191	0.198	<20	2.51	0.028	0.34	0.2	0.03	5.2	0.2	<0.05	7	1.3
57800E 67050N	<0.1	106	0.6	0.049	7	89	1.29	134	0.184	<20	2.03	0.032	0.31	0.4	0.02	4.7	0.2	<0.05	6	0.9
57800E 67100N	0.1	128	0.79	0.071	10	110	1.42	179	0.195	<20	2.9	0.024	0.35	0.2	0.03	5.7	0.2	<0.05	10	1.3
57800E 67150N	<0.1	89	0.3	0.145	7	63	0.85	101	0.152	<20	2.41	0.02	0.11	0.2	0.03	2.9	<0.1	<0.05	6	0.6
57800E 67200N	0.1	97	0.3	0.223	5	56	0.91	149	0.183	<20	3.08	0.021	0.12	0.2	0.04	2.9	<0.1	<0.05	8	0.7
57800E 67250N	0.1	95	0.32	0.09	4	126	1.61	135	0.214	<20	3.61	0.023	0.12	0.2	0.03	2.8	<0.1	<0.05	8	0.5
57800E 67300N	0.1	107	0.24	0.141	5	57	0.91	127	0.199	<20	2.4	0.019	0.15	0.3	0.05	3	<0.1	<0.05	8	0.6
57800E 67350N	<0.1	125	0.31	0.097	5	69	1.09	120	0.193	<20	2.92	0.02	0.14	0.3	0.04	3	<0.1	<0.05	9	0.6
57800E 67400N	0.1	131	0.31	0.138	4	66	1.13	93	0.201	<20	3.27	0.018	0.13	0.3	0.04	3.3	<0.1	<0.05	9	0.6
57800E 67450N	0.1	130	0.35	0.109	4	80	1.48	109	0.252	<20	3.07	0.039	0.2	0.2	0.03	3.1	<0.1	<0.05	10	0.5
57800E 67500N	0.1	124	0.39	0.054	6	63	1.06	105	0.201	<20	2.47	0.028	0.17	0.4	0.02	3.2	<0.1	<0.05	8	0.5
57800E 67550N	<0.1	124	0.38	0.159	6	67	1.05	132	0.172	<20	2.63	0.033	0.22	0.3	0.03	2.9	<0.1	<0.05	8	<0.5
57800E 67600N	0.1	106	0.37	0.14	5	63	0.88	130	0.151	<20	2.19	0.021	0.14	0.3	0.05	2	<0.1	<0.05	9	0.9
57800E 67650N	<0.1	115	0.24	0.192	4	68	0.99	128	0.101	<20	2.84	0.014	0.14	0.3	0.04	2.3	<0.1	0.08	8	0.8
57800E 67700N	0.1	88	0.28	0.129	3	83	0.85	188	0.106	<20	1.79	0.022	0.12	0.2	0.03	1.5	<0.1	<0.05	8	<0.5
57800E 67750N	0.1	102	0.21	0.1	3	90	0.93	135	0.122	<20	2.07	0.019	0.12	0.3	0.02	1.6	<0.1	0.05	9	<0.5
57800E 67800N	<0.1	87	0.22	0.159	4	92	0.79	133	0.099	<20	1.79	0.019	0.1	0.1	0.04	1.4	<0.1	<0.05	8	<0.5
57600E 66300N	0.5	134	0.27	0.167	4	78	1.13	141	0.202	<20	3.19	0.012	0.16	0.7	0.03	2.8	<0.1	<0.05	8	<0.5
57600E 66350N	0.3	106	0.27	0.193	6	73	0.93	104	0.146	<20	2.17	0.014	0.17	0.6	0.02	2.5	<0.1	<0.05	6	<0.5
57600E 66400N	0.7	116	0.32	0.179	7	70	0.92	126	0.169	<20	2.63	0.013	0.15	0.9	0.03	2.2	<0.1	<0.05	8	<0.5
57600E 66450N	0.7	128	0.34	0.124	5	60	1.42	193	0.239	<20	3.16	0.014	0.26	0.4	0.03	3.6	<0.1	<0.05	8	<0.5
57600E 66500N	1.8	122	0.39	0.099	7	79	1.2	187	0.221	<20	2.63	0.011	0.22	0.7	0.01	2.8	0.2	<0.05	10	<0.5
57600E 66550N	0.4	114	0.19	0.094	6	63	0.99	121	0.175	<20	2.95	0.011	0.11	0.7	0.06	2.6	0.1	<0.05	9	0.5
57600E 66600N	0.4	124	0.14	0.096	5	65	0.92	130	0.2	<20	3.29	0.01	0.12	0.6	0.04	3	0.1	<0.05	9	<0.5
57600E 66650N	0.2	136	0.18	0.098	5	64	1.14	173	0.243	<20	3.16	0.017	0.19	0.5	0.04	3.9	0.2	<0.05	8	0.7
57600E 66700N	<0.1	141	0.28	0.166	5	95	1.28	243	0.203	<20	3.96	0.014	0.21	0.3	0.04	3.6	0.1	<0.05	9	<0.5
57600E 66750N	<0.1	109	0.2	0.108	3	50	1.08	149	0.195	<20	2.54	0.017	0.16	0.2	0.02	2.1	<0.1	<0.05	8	<0.5
57600E 66800N	<0.1	112	0.39	0.072	8	84	1.34	118	0.164	<20	2.1	0.028	0.33	0.2	<0.01	4	0.2	<0.05	6	<0.5
57600E 66850N	<0.1	193	0.25	0.103	3	18	1.16	437	0.365	<20	1.82	0.009	0.81	0.1	<0.01	4.4	<0.1	<0.05	6	<0.5
57600E 66900N	<0.1	177	0.78	0.137	8	134	2.03	247	0.209	<20	2.78	0.039	0.76	0.4	0.02	7.9	0.4	<0.05	9	<0.5

Hen Soil Geochemical Samples

Sample	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
57600E 66950N	<0.1	127	0.28	0.161	3	86	1.31	149	0.227	<20	2.68	0.016	0.14	0.2	0.01	2.7	<0.1	<0.05	9	<0.5
57600E 67000N	<0.1	143	0.41	0.1	3	175	1.73	187	0.232	<20	3.03	0.015	0.24	0.4	0.03	2.7	<0.1	<0.05	9	<0.5
57600E 67050N	<0.1	89	0.15	0.098	2	32	0.52	120	0.185	<20	1.29	0.012	0.08	0.2	0.02	1.3	<0.1	<0.05	8	<0.5
57600E 67100N	<0.1	120	0.18	0.096	4	65	1.06	164	0.192	<20	3.1	0.012	0.15	0.3	0.05	2.7	<0.1	<0.05	8	<0.5
57600E 67150N	0.1	137	0.26	0.146	4	67	1.07	179	0.193	<20	3.6	0.015	0.13	0.3	0.05	3.4	<0.1	<0.05	9	0.6
57600E 67200N	<0.1	117	0.4	0.175	3	129	1.3	173	0.177	<20	2.9	0.013	0.15	3.8	0.09	1.6	<0.1	<0.05	9	0.5
57600E 67250N	<0.1	127	0.21	0.227	4	61	0.85	112	0.161	<20	3.02	0.018	0.1	0.3	0.05	2.6	<0.1	<0.05	10	<0.5
57600E 67300N	<0.1	134	0.34	0.1	6	77	1.27	173	0.203	<20	2.87	0.031	0.3	0.3	0.02	3.7	0.1	<0.05	9	0.5
57600E 67350N	<0.1	95	0.26	0.228	3	38	0.63	101	0.123	<20	1.9	0.018	0.1	0.3	0.05	2.1	<0.1	<0.05	7	<0.5
57600E 67400N	<0.1	149	0.31	0.08	7	70	1.11	135	0.19	<20	3.16	0.022	0.23	0.3	0.04	4.4	0.1	<0.05	10	<0.5
57600E 67600N	<0.1	122	0.39	0.11	7	94	1.39	151	0.184	<20	2.89	0.023	0.34	0.5	0.04	3.4	0.1	<0.05	9	<0.5
57600E 67650N	<0.1	120	0.3	0.161	6	89	1.2	102	0.121	<20	2.83	0.018	0.18	0.4	0.04	2.9	0.1	<0.05	9	<0.5
57600E 67700N	<0.1	116	0.21	0.089	6	72	0.78	86	0.154	<20	2.94	0.016	0.12	0.4	0.06	3.2	0.1	0.06	9	0.8
57600E 67750N	<0.1	119	0.24	0.056	7	92	1.35	93	0.14	<20	2.68	0.01	0.21	0.4	0.02	3.5	0.2	<0.05	8	<0.5
57600E 67800N	0.1	120	0.51	0.057	8	113	1.34	147	0.149	<20	2.65	0.015	0.25	0.2	0.01	4.4	0.2	<0.05	8	0.5
57400E 66300N	0.2	87	0.31	0.063	9	80	0.89	89	0.127	<20	1.46	0.02	0.16	0.9	0.01	3.1	<0.1	<0.05	4	<0.5
57400E 66350N	0.1	94	0.34	0.126	8	74	0.87	85	0.125	<20	1.7	0.022	0.16	0.3	<0.01	2.8	0.1	<0.05	5	<0.5
57400E 66400N	0.2	100	0.24	0.075	7	70	0.76	90	0.146	<20	1.85	0.014	0.1	0.6	0.02	2.4	<0.1	<0.05	5	<0.5
57400E 66450N	0.1	116	0.23	0.083	5	68	1.12	141	0.184	<20	2.32	0.019	0.23	0.7	0.02	3.1	0.1	<0.05	6	<0.5
57400E 66500N	0.6	111	0.27	0.146	6	65	1.15	140	0.174	<20	2.38	0.021	0.22	1.3	0.03	2.7	<0.1	0.06	6	<0.5
57400E 66550N	3.4	125	0.25	0.185	7	76	1.16	160	0.196	<20	3.23	0.014	0.18	5.6	0.04	3	0.1	<0.05	8	<0.5
57400E 66600N	0.4	114	0.18	0.137	6	75	0.91	116	0.178	<20	2.91	0.015	0.13	0.7	0.05	3.3	0.1	<0.05	8	<0.5
57400E 66650N	0.2	124	0.28	0.089	6	89	1.24	129	0.188	<20	2.86	0.02	0.21	0.5	0.04	3.7	0.1	<0.05	8	<0.5
57400E 66700N	<0.1	161	0.16	0.114	2	17	0.93	256	0.356	<20	2.16	0.012	0.26	0.2	0.02	1.7	<0.1	<0.05	7	<0.5
57400E 66750N	<0.1	190	0.15	0.087	3	47	1.35	189	0.331	<20	2.86	0.012	0.36	0.2	0.02	3.6	0.1	<0.05	8	<0.5
57400E 66800N	<0.1	109	0.29	0.09	4	78	1.06	125	0.153	<20	3.14	0.017	0.12	0.3	0.05	2.6	<0.1	<0.05	7	<0.5
57400E 66850N	0.3	137	0.47	0.096	5	83	1.26	162	0.166	<20	2.9	0.019	0.21	0.2	0.04	3.2	<0.1	<0.05	9	<0.5
57400E 66900N	<0.1	108	0.47	0.036	5	82	1.3	134	0.157	<20	1.94	0.026	0.33	0.2	0.01	3.4	0.2	<0.05	6	<0.5
57400E 66950N	0.1	121	0.4	0.132	5	89	1.25	138	0.17	<20	2.66	0.028	0.23	0.2	0.03	3.1	0.1	<0.05	8	<0.5
57400E 67000N	<0.1	125	0.49	0.14	4	78	1.28	123	0.192	<20	2.98	0.035	0.28	0.2	0.03	3.3	<0.1	<0.05	7	<0.5
57400E 67050N	<0.1	119	0.37	0.14	5	81	1.26	155	0.168	<20	3.07	0.026	0.18	0.2	0.04	3	<0.1	<0.05	9	<0.5
57400E 67100N	<0.1	118	0.67	0.103	9	124	1.4	162	0.158	<20	2.07	0.035	0.48	0.3	0.01	5	0.2	<0.05	7	<0.5
57400E 67150N	<0.1	137	0.68	0.061	4	97	1.26	153	0.129	<20	2.23	0.032	0.42	0.6	0.03	4	0.1	<0.05	7	0.6
57400E 67200N	<0.1	101	0.44	0.071	6	81	1.22	100	0.139	<20	2.1	0.028	0.31	0.2	0.01	3	0.1	<0.05	6	<0.5
57400E 67250N	<0.1	134	0.31	0.163	4	84	1.44	144	0.158	<20	3.35	0.014	0.2	0.3	0.06	3.6	<0.1	<0.05	10	<0.5
57400E 67300N	<0.1	201	0.81	0.118	6	96	1.6	197	0.219	<20	2.34	0.034	0.6	0.6	0.01	5.8	0.2	<0.05	9	0.7
57400E 67350N	<0.1	163	0.48	0.053	5	122	1.54	135	0.213	<20	3.43	0.037	0.31	0.7	0.03	4.3	0.1	<0.05	10	0.5
57400E 67400N	<0.1	142	0.49	0.165	6	69	1.33	186	0.166	<20	3	0.034	0.36	0.1	0.04	3.3	<0.1	<0.05	10	<0.5
57400E 67450N	<0.1	155	0.86	0.061	5	84	1.6	141	0.176	<20	2.99	0.029	0.36	0.2	0.02	4.8	0.1	<0.05	11	0.6
57400E 67500N	<0.1	143	0.47	0.024	5	115	1.36	82	0.204	<20	3.19	0.023	0.13	0.3	0.03	2.7	<0.1	<0.05	10	0.5
57400E 67550N	<0.1	180	0.47	0.108	5	108	1.77	92	0.177	<20	2.62	0.024	0.28	0.3	0.04	3.1	<0.1	<0.05	11	0.6
57400E 67600N	<0.1	107	0.21	0.056	5	80	1	92	0.172	<20	2.27	0.017	0.14	0.4	0.04	2.4	<0.1	<0.05	10	<0.5
57400E 67650N	<0.1	126	0.28	0.074	5	80	1.32	104	0.19	<20	2.83	0.024	0.25	0.3	0.05	3	<0.1	<0.05	10	<0.5
57400E 67700N	<0.1	140	0.37	0.093	8	99	1.36	144	0.189	<20	3.37	0.022	0.34	0.4	0.05	4.8	0.1	0.05	11	<0.5
57400E 67750N	<0.1	119	0.29	0.079	7	82	1.18	121	0.139	<20	2.66	0.015	0.24	0.8	0.04	3.5	0.1	<0.05	9	<0.5
57400E 67800N	<0.1	107	0.26	0.096	7	79	1.14	95	0.126	<20	2.9	0.016	0.2	0.4	0.05	3.4	0.1	<0.05	7	0.8
57200E 66300N	0.2	121	0.35	0.064	8	96	1.2	145	0.146	<20	2.02	0.018	0.32	0.2	0.02	3.7	0.1	<0.05	7	<0.5
57200E 66350N	0.2	130	0.25	0.056	6	98	1.36	140	0.193	<20	2.52	0.017	0.37	0.3	0.02	3.5	0.2	0.05	8	0.5
57200E 66400N	0.2	123	0.44	0.054	10	108	1.46	151	0.213	<20	2.3	0.022	0.52	0.6	0.01	4	0.2	<0.05	7	<0.5

Hen Soil Geochemical Samples

Sample	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
57200E 66450N	0.2	94	0.38	0.065	9	73	1.1	125	0.156	<20	1.68	0.025	0.33	0.2	<0.01	3.7	0.2	<0.05	5	<0.5
57200E 66500N	0.1	118	0.45	0.104	8	86	1.4	169	0.166	<20	2.22	0.022	0.39	0.3	0.02	3.6	0.2	<0.05	7	<0.5
57200E 66550N	0.5	102	0.23	0.111	5	72	1.04	98	0.165	<20	2.56	0.016	0.18	0.2	0.03	2.9	<0.1	<0.05	9	<0.5
57200E 66600N	<0.1	110	0.36	0.179	5	73	1.3	143	0.151	<20	2.47	0.025	0.35	0.4	0.02	3	0.1	<0.05	7	<0.5
57200E 66650N	<0.1	114	0.37	0.145	5	80	1.3	155	0.142	<20	2.35	0.019	0.28	0.2	0.01	3	0.1	<0.05	7	<0.5
57200E 66700N	<0.1	111	0.33	0.091	5	69	1.19	130	0.143	<20	1.99	0.016	0.29	0.2	0.01	2.6	0.2	<0.05	7	<0.5
57200E 66750N	<0.1	125	0.36	0.124	6	96	1.54	154	0.184	<20	2.55	0.02	0.47	0.4	0.01	4.9	0.2	<0.05	7	0.8
57200E 66800N	<0.1	122	0.37	0.095	6	87	1.63	146	0.19	<20	2.36	0.025	0.45	0.2	0.01	4.1	0.2	<0.05	7	0.6
57200E 66850N	0.1	110	0.45	0.065	6	77	1.25	115	0.181	<20	2.15	0.02	0.28	0.2	0.03	3.1	0.1	<0.05	7	<0.5
57200E 66900N	<0.1	137	0.74	0.113	8	118	1.71	208	0.213	<20	2.55	0.025	0.63	0.3	0.02	7	0.3	<0.05	8	<0.5
57200E 66950N	<0.1	120	0.62	0.099	5	94	1.49	160	0.196	<20	2.34	0.022	0.46	0.3	0.02	3.5	0.2	<0.05	7	<0.5
57200E 67000N	0.2	213	0.93	0.1	11	223	2.34	328	0.208	<20	4.17	0.026	0.75	2.2	0.05	10.5	0.4	<0.05	10	1.1
57200E 67050N	0.2	134	0.73	0.059	9	195	1.91	233	0.174	<20	3.99	0.019	0.53	0.3	0.03	6.4	0.3	<0.05	10	0.7
57200E 67100N	0.1	177	0.73	0.057	8	166	1.66	196	0.179	<20	3.48	0.022	0.46	2.5	0.04	7.2	0.2	<0.05	10	0.8
57200E 67150N	0.1	96	0.3	0.217	3	47	0.81	124	0.158	<20	2.39	0.016	0.12	0.2	0.05	2.2	<0.1	<0.05	8	<0.5
57200E 67200N	0.1	104	0.44	0.046	5	75	1.22	96	0.189	<20	2.18	0.02	0.23	0.1	0.03	2.7	<0.1	<0.05	8	<0.5
57200E 67250N	<0.1	77	0.4	0.103	4	77	0.85	157	0.179	<20	1.53	0.019	0.1	0.2	0.03	1.8	<0.1	<0.05	7	<0.5
57200E 67300N	<0.1	95	0.43	0.137	8	77	1.19	132	0.17	<20	1.9	0.024	0.32	0.2	0.01	3.2	0.2	<0.05	5	<0.5
57200E 67350N	<0.1	98	0.3	0.098	5	65	1	168	0.194	<20	2.15	0.018	0.16	0.2	0.03	2.4	<0.1	<0.05	7	<0.5
57200E 67400N	<0.1	101	0.25	0.072	6	99	1.2	145	0.203	<20	2.53	0.016	0.18	0.2	0.02	2.9	<0.1	<0.05	8	<0.5
57200E 67450N	<0.1	141	0.61	0.226	6	57	1.72	183	0.31	<20	3.56	0.041	0.34	0.3	0.03	3.5	<0.1	<0.05	11	<0.5
57200E 67500N	<0.1	109	0.41	0.092	7	104	1.49	131	0.21	<20	2.4	0.018	0.24	0.1	0.02	3.6	<0.1	<0.05	7	<0.5
57200E 67550N	0.1	124	0.88	0.136	7	84	1.16	204	0.144	<20	2.39	0.036	0.36	0.2	0.06	4	0.2	0.07	6	1.2
57200E 67600N	0.1	136	0.35	0.106	5	102	1.75	96	0.177	<20	2.81	0.019	0.32	1.5	0.03	3.2	0.1	<0.05	8	0.6
57200E 67650N	0.1	108	0.62	0.132	6	88	1.19	179	0.196	<20	2.29	0.018	0.3	0.2	0.05	3.4	0.1	<0.05	7	<0.5
57200E 67700N	<0.1	98	0.52	0.13	5	120	1.26	152	0.136	<20	2.19	0.027	0.24	0.6	0.05	2.1	<0.1	<0.05	7	0.5
57200E 67750N	0.1	118	0.44	0.147	6	140	1.41	145	0.154	<20	2.42	0.024	0.26	0.1	0.04	2.4	<0.1	<0.05	8	<0.5
57200E 67800N	<0.1	110	0.42	0.091	7	88	1.18	114	0.173	<20	2.49	0.026	0.25	0.3	0.02	3.4	0.1	<0.05	7	0.8
57200E 67950N	0.1	97	0.23	0.081	11	92	0.88	104	0.127	<20	2.43	0.018	0.21	0.2	0.05	4.2	0.1	<0.05	8	<0.5
57200E 68000N	<0.1	138	0.3	0.098	6	66	1.38	98	0.184	<20	2.61	0.024	0.39	0.2	0.05	4.2	<0.1	<0.05	10	<0.5
57000E 66300N	0.7	84	0.26	0.031	7	64	0.85	98	0.183	<20	1.56	0.017	0.17	0.6	<0.01	2.7	0.1	<0.05	5	<0.5
57000E 66350N	0.7	73	0.12	0.192	5	43	0.43	123	0.169	<20	1.38	0.011	0.07	2.9	0.02	1.6	<0.1	<0.05	8	<0.5
57000E 66400N	0.5	83	0.27	0.185	6	61	0.77	168	0.203	<20	1.73	0.013	0.11	4.3	0.02	2	<0.1	<0.05	8	<0.5
57000E 66450N	0.6	100	0.24	0.139	6	71	1.07	133	0.17	<20	2.15	0.014	0.22	1	0.02	2.8	0.1	<0.05	7	0.5
57000E 66500N	0.9	110	0.26	0.036	9	81	1.23	162	0.194	<20	2.04	0.02	0.31	2.3	0.02	3.3	0.2	<0.05	6	<0.5
57000E 66550N	1.2	82	0.19	0.082	6	63	0.86	95	0.171	<20	1.67	0.015	0.15	2.2	0.01	2.4	<0.1	<0.05	6	<0.5
57000E 66600N	1.9	94	0.31	0.165	5	66	1.02	124	0.178	<20	2.14	0.014	0.19	0.8	0.03	2.4	<0.1	<0.05	7	<0.5
57000E 66650N	0.5	113	0.27	0.137	5	76	1.15	168	0.175	<20	2.63	0.017	0.14	0.9	0.04	3.3	<0.1	<0.05	6	<0.5
57000E 66700N	0.6	73	0.27	0.131	4	54	0.65	103	0.14	<20	2.29	0.013	0.06	0.8	0.04	2.1	<0.1	<0.05	5	<0.5
57000E 66750N	0.7	96	0.32	0.429	4	65	0.85	139	0.167	<20	1.96	0.016	0.15	1.1	0.04	2.4	<0.1	<0.05	7	<0.5
57000E 66800N	2.8	122	0.37	0.209	4	73	1.3	168	0.254	<20	2.25	0.018	0.38	0.3	0.03	2.2	0.1	<0.05	9	<0.5
57000E 66850N	0.2	121	0.41	0.092	7	66	0.96	101	0.177	<20	1.58	0.024	0.32	0.5	<0.01	2.9	0.1	<0.05	5	<0.5
57000E 66900N	0.1	91	0.47	0.108	7	60	0.91	125	0.153	<20	1.36	0.027	0.28	0.2	<0.01	3.2	0.1	<0.05	4	<0.5
57000E 66950N	<0.1	132	0.77	0.064	6	101	1.31	141	0.168	<20	2.22	0.026	0.32	0.5	0.02	4.2	0.2	<0.05	7	1.1
57000E 67000N	0.1	123	0.44	0.164	5	92	1.33	155	0.2	<20	2.39	0.019	0.26	0.4	0.03	3.1	0.1	<0.05	9	0.5
57000E 67050N	<0.1	108	0.44	0.089	6	107	1.54	140	0.189	<20	2.47	0.024	0.33	0.1	0.01	3.6	0.2	<0.05	7	0.6
57000E 67100N	0.1	130	0.38	0.044	9	129	1.5	159	0.215	<20	2.68	0.032	0.34	0.3	0.02	5.3	0.2	<0.05	8	<0.5
57000E 67150N	<0.1	126	0.71	0.107	6	71	1.27	149	0.214	<20	1.79	0.025	0.43	0.3	0.02	3.6	0.1	<0.05	6	<0.5
57000E 67200N	0.1	123	0.52	0.081	7	106	1.59	161	0.209	<20	2.64	0.025	0.43	0.2	0.02	4.4	0.2	<0.05	8	<0.5

Hen Soil Geochemical Samples

Sample	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
57000E 67250N	<0.1	166	0.76	0.174	7	69	1.79	130	0.257	<20	2.35	0.021	0.44	0.4	0.01	3.9	0.2	<0.05	9	0.6
57000E 67300N	<0.1	170	0.5	0.091	7	118	1.39	128	0.26	<20	2.3	0.025	0.33	0.1	0.01	4	<0.1	<0.05	8	<0.5
57000E 67350N	<0.1	116	0.29	0.083	7	81	1.15	147	0.215	<20	2.58	0.023	0.28	0.2	0.03	3.8	<0.1	<0.05	8	<0.5
57000E 67400N	<0.1	103	0.41	0.06	8	75	1.22	139	0.211	<20	2.04	0.028	0.35	0.2	0.01	3.6	0.1	<0.05	6	<0.5
57000E 67450N	<0.1	126	0.51	0.061	6	153	1.81	162	0.227	<20	2.52	0.038	0.46	0.2	<0.01	4	0.1	<0.05	7	0.7
57000E 67500N	<0.1	88	0.42	0.082	7	94	1.11	116	0.154	<20	1.71	0.022	0.23	0.4	0.02	3.2	<0.1	<0.05	5	0.6
57000E 67550N	<0.1	90	0.37	0.162	6	63	0.86	123	0.154	<20	1.82	0.025	0.15	0.3	0.02	2.4	<0.1	<0.05	6	<0.5
57000E 67600N	0.1	115	0.68	0.092	13	95	1.1	195	0.144	<20	2.84	0.023	0.31	0.1	0.04	4.7	0.1	<0.05	8	1
57000E 67650N	0.1	136	0.6	0.073	7	102	1.42	178	0.198	<20	2.89	0.03	0.38	0.2	0.02	5.2	0.1	<0.05	8	0.7
57000E 67700N	0.1	119	0.59	0.132	8	93	1.5	195	0.206	<20	2.46	0.041	0.54	0.4	<0.01	5.7	0.2	<0.05	7	0.6
57000E 67750N	<0.1	118	0.36	0.096	6	88	1.24	114	0.204	<20	2.45	0.03	0.35	0.2	0.03	3.3	0.1	<0.05	8	<0.5
57000E 67800N	0.1	122	0.26	0.082	8	88	1.06	95	0.205	<20	2.7	0.023	0.27	0.2	0.03	4.5	0.1	<0.05	10	0.8
57000E 67850N	0.1	104	0.23	0.09	10	104	1.18	120	0.159	<20	3.1	0.025	0.3	0.2	0.05	5.2	0.2	<0.05	9	0.7
57000E 67900N	0.2	163	0.33	0.064	12	179	1.8	205	0.221	<20	4.26	0.027	0.43	0.2	0.02	8.1	0.2	<0.05	11	0.7
57000E 67950N	0.1	119	0.31	0.079	8	96	1.37	111	0.214	<20	2.57	0.026	0.32	0.3	0.02	3.9	0.2	<0.05	8	0.5
57000E 68000N	0.1	157	0.39	0.122	7	133	2.06	176	0.199	<20	4.03	0.038	0.54	0.2	0.03	4.5	0.2	<0.05	11	<0.5
56800E 66500N	0.4	104	0.42	0.087	10	76	1.08	129	0.184	<20	1.85	0.023	0.34	0.5	0.02	3.3	0.2	<0.05	6	0.6
56800E 66550N	0.3	107	0.54	0.103	8	81	1.38	172	0.193	<20	1.99	0.021	0.37	0.4	0.01	3.8	0.2	<0.05	6	<0.5
56800E 66600N	0.3	108	0.42	0.132	5	72	1.1	140	0.184	<20	1.78	0.021	0.3	0.3	0.01	3	0.1	<0.05	6	<0.5
56800E 66650N	0.5	114	0.44	0.064	12	83	1.23	152	0.2	<20	2.03	0.023	0.34	1	0.01	4.9	0.2	<0.05	6	<0.5
56800E 66700N	0.3	94	0.39	0.086	6	71	0.95	144	0.174	<20	1.81	0.018	0.26	0.3	0.02	3.2	0.1	<0.05	7	<0.5
56800E 66750N	0.3	127	0.54	0.052	11	99	1.3	161	0.216	<20	2.22	0.022	0.42	0.5	0.02	6.2	0.2	<0.05	8	0.9
56800E 66800N	0.1	95	0.36	0.109	6	76	1.06	127	0.174	<20	1.81	0.021	0.24	0.8	<0.01	3.2	0.1	<0.05	6	<0.5
56800E 66850N	0.1	98	0.41	0.045	8	71	0.93	117	0.181	<20	1.77	0.021	0.26	0.2	0.01	4.3	0.2	<0.05	6	0.6
56800E 66900N	0.2	82	0.28	0.14	5	56	0.62	86	0.147	<20	1.42	0.017	0.09	0.3	0.03	1.8	<0.1	<0.05	6	<0.5
56800E 66950N	0.1	109	0.41	0.103	8	77	1.07	115	0.19	<20	1.95	0.022	0.29	0.3	0.01	3.3	0.1	<0.05	6	0.9
56800E 67050N	0.1	91	0.36	0.053	10	84	1.03	95	0.183	<20	1.97	0.019	0.19	0.1	0.02	4.4	0.1	<0.05	6	0.7
56800E 67100N	0.1	102	0.63	0.114	7	76	1.25	142	0.199	<20	1.9	0.029	0.3	0.1	0.02	3.1	<0.1	<0.05	6	<0.5
56800E 67150N	0.1	138	0.6	0.092	6	79	1.41	154	0.241	<20	2.14	0.024	0.43	0.2	0.02	4.1	0.1	<0.05	7	<0.5
56800E 67200N	<0.1	91	0.47	0.115	8	67	1.03	127	0.17	<20	1.5	0.03	0.34	0.2	<0.01	3.2	0.1	<0.05	5	<0.5
56800E 67250N	0.1	106	0.48	0.13	8	77	1.13	135	0.179	<20	1.98	0.03	0.31	0.3	0.02	3.2	0.1	<0.05	6	<0.5
56800E 67300N	0.1	97	0.29	0.045	9	60	0.86	100	0.174	<20	1.58	0.018	0.19	0.3	0.02	3.3	0.1	<0.05	5	<0.5
56800E 67350N	0.1	108	0.26	0.065	8	70	0.91	129	0.188	<20	2.12	0.019	0.22	0.4	0.03	3.2	<0.1	<0.05	7	<0.5
56800E 67400N	0.2	96	0.48	0.096	9	68	0.82	101	0.149	<20	1.39	0.021	0.27	0.2	0.01	2.5	0.1	<0.05	6	<0.5
56800E 67450N	<0.1	129	0.66	0.093	7	97	1.55	195	0.208	<20	2.53	0.035	0.51	0.1	0.02	5.9	0.2	<0.05	8	<0.5
56800E 67500N	<0.1	100	0.38	0.035	7	72	1.15	120	0.19	<20	1.65	0.029	0.39	0.2	<0.01	3.9	0.2	<0.05	5	<0.5
56800E 67550N	0.1	112	0.53	0.163	7	85	1.37	166	0.194	<20	2.38	0.026	0.49	0.2	<0.01	3.8	0.2	<0.05	6	<0.5
56800E 67600N	<0.1	100	0.32	0.087	4	70	1.09	142	0.182	<20	1.96	0.023	0.14	0.2	0.02	2.4	<0.1	<0.05	7	<0.5
56800E 67650N	<0.1	108	0.48	0.084	5	75	1.21	123	0.192	<20	2.4	0.021	0.22	0.3	0.01	2.8	<0.1	<0.05	7	<0.5
56800E 67700N	<0.1	151	0.54	0.168	3	56	1.98	168	0.333	<20	3.29	0.045	0.35	0.2	0.04	3.2	<0.1	<0.05	11	<0.5
56800E 67750N	<0.1	123	0.46	0.114	3	309	2.61	307	0.233	<20	3.33	0.032	0.78	0.2	<0.01	2.2	<0.1	<0.05	8	<0.5
56800E 67800N	<0.1	90	0.33	0.099	7	102	1.22	164	0.148	<20	2.23	0.023	0.21	0.2	0.03	2.9	0.1	<0.05	6	<0.5
56800E 67900N	<0.1	110	0.21	0.094	6	121	1.34	141	0.17	<20	3.36	0.013	0.1	0.2	0.05	3.5	<0.1	<0.05	7	<0.5
56800E 67950N	<0.1	103	0.42	0.112	8	77	1.27	143	0.205	<20	2.07	0.03	0.38	0.2	0.01	3.6	0.1	<0.05	6	<0.5
56800E 68000N	0.1	112	0.32	0.074	6	92	1.24	145	0.189	<20	2.68	0.023	0.25	0.3	0.04	3.3	<0.1	<0.05	8	<0.5
56600E 66500N	0.5	134	0.27	0.088	12	124	1.41	162	0.17	<20	2.6	0.015	0.45	0.3	0.04	9.2	0.3	<0.05	7	0.5
56600E 66550N	0.2	101	0.2	0.065	8	82	0.94	116	0.136	<20	1.92	0.013	0.32	0.3	0.03	3.7	0.1	<0.05	7	<0.5
56600E 66600N	0.1	113	0.67	0.082	8	85	1.15	142	0.137	<20	2.06	0.018	0.26	0.5	0.02	4.3	0.1	<0.05	6	0.6
56600E 66650N	0.3	95	0.25	0.035	5	63	0.77	97	0.192	<20	1.54	0.017	0.14	2.1	0.01	1.9	<0.1	<0.05	6	<0.5

Hen Soil Geochemical Samples

Sample	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
56600E 66700N	0.2	121	0.31	0.021	5	85	0.97	96	0.208	<20	2.28	0.019	0.16	0.5	0.01	2.9	0.1	<0.05	7	<0.5
56600E 66750N	0.2	100	0.24	0.044	6	57	0.72	92	0.174	<20	1.48	0.016	0.15	0.8	<0.01	2	<0.1	<0.05	5	<0.5
56600E 66800N	0.1	120	0.69	0.055	8	87	1.16	155	0.168	<20	2.35	0.024	0.19	0.5	0.03	4.7	0.1	<0.05	7	<0.5
56600E 66850N	0.2	118	0.22	0.022	4	71	0.79	120	0.226	<20	1.95	0.011	0.17	0.3	0.02	2.5	<0.1	<0.05	7	<0.5
56600E 66900N	0.1	129	0.37	0.099	6	50	1.01	179	0.234	<20	1.71	0.012	0.48	0.6	0.01	4.6	0.2	<0.05	5	<0.5
56600E 66950N	<0.1	223	0.29	0.085	6	39	1.71	484	0.422	<20	2.06	0.009	1.2	0.3	<0.01	7.2	0.3	<0.05	7	<0.5
56600E 67000N	0.2	110	0.41	0.059	7	70	1.09	147	0.175	<20	2.08	0.014	0.2	0.2	0.01	3.7	0.1	<0.05	7	<0.5
56600E 67050N	0.1	97	0.54	0.084	8	69	0.94	133	0.154	<20	1.57	0.018	0.25	0.3	0.03	3.7	0.1	<0.05	6	<0.5
56600E 67100N	0.2	105	0.49	0.069	11	86	1.04	150	0.17	<20	2.03	0.019	0.3	0.3	0.02	5.1	0.2	<0.05	6	0.9
56600E 67150N	0.2	88	0.5	0.084	9	77	0.99	132	0.133	<20	1.73	0.017	0.28	0.2	0.03	4.5	0.1	<0.05	5	0.5
56600E 67200N	0.2	77	0.32	0.073	11	58	0.64	118	0.132	<20	1.67	0.016	0.13	1	0.03	3.5	<0.1	<0.05	6	<0.5
56600E 67250N	0.1	83	0.3	0.1	5	90	0.99	104	0.12	<20	1.76	0.014	0.17	0.2	0.03	2.8	<0.1	<0.05	5	<0.5
56600E 67300N	0.1	85	0.25	0.105	6	56	0.77	120	0.148	<20	1.75	0.016	0.1	0.2	0.03	2.3	<0.1	<0.05	6	<0.5
56600E 67400N	0.1	117	0.58	0.064	5	122	1.67	147	0.188	<20	2.36	0.035	0.22	<0.1	0.03	3.1	<0.1	<0.05	8	<0.5
56600E 67450N	0.1	102	0.55	0.06	6	117	1.5	163	0.2	<20	2.51	0.02	0.28	0.2	0.03	3	<0.1	<0.05	7	<0.5
56600E 67550N	0.1	66	0.21	0.102	4	39	0.57	72	0.129	<20	1.32	0.016	0.12	0.2	0.02	1.7	<0.1	<0.05	5	0.7
56600E 67600N	0.1	112	0.46	0.083	5	78	1.31	132	0.228	<20	2.19	0.035	0.31	0.2	0.02	3	<0.1	<0.05	7	<0.5
56600E 67650N	<0.1	100	0.45	0.043	6	84	1.15	110	0.21	<20	2.06	0.028	0.29	0.2	0.02	3.8	<0.1	<0.05	7	0.7
56600E 67700N	<0.1	105	0.47	0.094	7	88	1.31	126	0.2	<20	2.16	0.032	0.36	0.2	0.02	3.4	0.1	<0.05	6	<0.5
56600E 67750N	<0.1	97	0.87	0.038	5	86	0.98	135	0.19	<20	1.93	0.029	0.23	0.2	0.03	2.8	<0.1	<0.05	6	1.3
56600E 67800N	0.1	87	0.39	0.041	9	83	0.89	123	0.153	<20	1.52	0.023	0.23	0.4	0.02	3.8	0.1	<0.05	4	<0.5
56600E 67900N	<0.1	134	0.61	0.16	7	251	2.79	400	0.256	<20	3.89	0.027	0.94	0.2	<0.01	1.5	<0.1	<0.05	9	<0.5
56600E 67950N	<0.1	144	0.37	0.072	3	272	2.71	225	0.269	<20	4.56	0.019	0.64	0.5	0.03	2.6	<0.1	<0.05	9	<0.5
56600E 68000N	<0.1	101	0.78	0.098	9	108	1.43	179	0.199	<20	2.1	0.044	0.48	0.6	0.02	5	0.2	<0.05	6	<0.5
56400E 66500N	0.3	96	0.32	0.043	14	76	0.95	161	0.179	<20	2.03	0.021	0.25	0.3	0.02	4.8	0.2	<0.05	6	<0.5
56400E 66750N	0.3	115	0.36	0.041	6	51	0.89	152	0.241	<20	1.63	0.021	0.32	0.4	0.02	3.4	0.2	<0.05	5	<0.5
56400E 66800N	0.2	116	0.23	0.051	4	43	0.88	128	0.232	<20	1.72	0.016	0.37	0.4	<0.01	2.8	0.3	<0.05	5	0.6
56400E 66850N	0.1	127	0.24	0.082	4	45	0.96	200	0.222	<20	1.69	0.017	0.26	0.5	0.01	3.3	0.2	0.05	6	<0.5
56400E 66950N	0.1	42	0.08	0.04	1	11	0.21	61	0.13	<20	0.43	0.015	0.08	<0.1	<0.01	0.8	<0.1	<0.05	4	<0.5
56400E 67000N	0.1	148	0.2	0.078	4	53	1.37	235	0.313	<20	2.89	0.014	0.25	0.4	0.03	4.6	0.2	<0.05	9	<0.5
56400E 67050N	0.1	107	0.47	0.072	8	82	1.2	180	0.227	<20	2.04	0.025	0.37	0.2	0.01	4.6	0.1	<0.05	6	<0.5
56400E 67100N	<0.1	84	0.34	0.108	4	128	1.48	188	0.206	<20	2.82	0.023	0.22	0.1	0.02	3.5	0.1	<0.05	7	<0.5
56400E 67150N	0.2	65	0.1	0.073	3	56	0.34	57	0.178	<20	1.57	0.012	0.05	0.1	0.04	1.5	<0.1	<0.05	8	<0.5
56400E 67200N	0.2	101	0.21	0.126	3	169	0.9	101	0.209	<20	2.47	0.014	0.1	0.2	0.07	3.8	<0.1	<0.05	8	0.7
56400E 67250N	0.1	91	0.31	0.222	3	47	0.41	86	0.157	<20	2.54	0.014	0.04	0.2	0.1	2.1	<0.1	<0.05	8	0.6
56400E 67300N	0.1	163	0.22	0.156	2	298	2.34	343	0.377	<20	2.81	0.024	0.57	0.2	0.03	3.2	<0.1	<0.05	10	<0.5
56400E 67350N	0.2	80	0.28	0.162	6	65	0.57	134	0.141	<20	1.9	0.014	0.08	0.3	0.03	2.1	<0.1	<0.05	5	<0.5
56400E 67400N	0.1	84	0.38	0.253	8	60	0.67	122	0.125	<20	1.59	0.016	0.14	0.3	0.01	2.2	<0.1	<0.05	4	<0.5
56400E 67450N	0.1	83	0.24	0.102	6	177	1.79	175	0.204	<20	2.82	0.029	0.27	0.3	0.04	2.3	0.2	<0.05	6	<0.5
56400E 67500N	0.1	108	0.34	0.096	8	78	1.11	112	0.176	<20	1.96	0.021	0.23	0.3	0.02	3.3	0.1	<0.05	6	<0.5
56400E 67550N	0.1	150	0.46	0.098	4	174	2.27	189	0.251	<20	2.68	0.032	0.37	0.2	0.02	2.9	<0.1	0.1	8	<0.5
56400E 67600N	0.2	97	0.69	0.056	7	85	0.91	175	0.17	<20	2.13	0.021	0.25	0.2	0.03	4.3	<0.1	<0.05	7	<0.5
56400E 67650N	0.1	107	0.37	0.161	5	66	0.97	148	0.185	<20	2.06	0.024	0.21	0.3	0.02	3	<0.1	<0.05	7	<0.5
56400E 67700N	0.1	85	0.38	0.128	6	52	0.71	104	0.148	<20	1.49	0.021	0.16	0.3	0.02	2.4	<0.1	<0.05	5	<0.5
56400E 67750N	0.1	83	0.33	0.109	7	52	0.75	94	0.161	<20	1.54	0.024	0.15	0.2	0.02	2.6	<0.1	<0.05	5	<0.5
56400E 67800N	<0.1	101	0.34	0.107	5	44	0.89	164	0.18	<20	1.96	0.028	0.25	0.2	0.02	3.4	<0.1	<0.05	5	<0.5
56400E 67850N	<0.1	83	0.37	0.145	4	164	1.52	183	0.17	<20	2.62	0.047	0.11	0.3	0.03	2.5	<0.1	<0.05	6	<0.5
56400E 67900N	0.2	83	0.39	0.12	4	115	1.48	213	0.174	<20	2.06	0.04	0.32	0.2	0.02	2.6	<0.1	<0.05	6	<0.5
56400E 67950N	<0.1	129	0.6	0.13	4	108	2.37	276	0.251	<20	3.68	0.05	0.92	0.3	0.02	2.7	0.1	<0.05	9	<0.5

Hen Soil Geochemical Samples

Sample	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
56400E 68000N	0.2	109	0.6	0.046	9	92	1.06	143	0.183	<20	2.22	0.021	0.25	0.3	0.03	4	0.1	<0.05	7	0.5
56200E 66500N	<0.1	43	0.09	0.076	3	17	0.23	48	0.094	<20	1.09	0.017	0.05	0.1	0.02	1.3	<0.1	<0.05	3	<0.5
56200E 66550N	0.2	142	0.75	0.112	9	157	2.38	139	0.203	<20	2.87	0.03	0.23	5.1	0.02	4.8	<0.1	<0.05	9	<0.5
56200E 66600N	<0.1	90	0.38	0.186	3	101	1.91	283	0.273	<20	3.08	0.037	0.4	<0.1	0.01	1.9	<0.1	<0.05	9	<0.5
56200E 66650N	<0.1	88	0.22	0.116	3	63	0.88	137	0.175	<20	2	0.013	0.18	0.2	0.02	2.2	<0.1	<0.05	6	<0.5
56200E 66700N	<0.1	82	0.34	0.154	4	62	0.85	178	0.165	<20	2.15	0.023	0.16	0.3	0.02	2.5	<0.1	<0.05	6	<0.5
56200E 66750N	0.2	81	0.24	0.257	4	45	0.72	170	0.198	<20	2.11	0.015	0.18	0.2	0.03	2.5	<0.1	<0.05	8	<0.5
56200E 66800N	0.1	79	0.27	0.136	4	48	0.69	144	0.177	<20	1.55	0.021	0.17	1.4	0.02	2.4	<0.1	<0.05	5	<0.5
56200E 66850N	0.2	98	0.29	0.111	4	60	0.88	169	0.206	<20	1.92	0.018	0.18	0.7	0.01	2.2	<0.1	<0.05	7	<0.5
56200E 66900N	0.2	101	0.35	0.123	8	63	0.8	128	0.16	<20	1.47	0.02	0.31	0.5	<0.01	2.6	0.1	<0.05	4	<0.5
56200E 66950N	0.2	105	0.44	0.117	8	76	1.04	166	0.179	<20	1.62	0.026	0.44	0.5	<0.01	3.3	0.2	<0.05	5	<0.5
56200E 67000N	0.2	86	0.23	0.156	4	61	0.77	219	0.221	<20	2.07	0.016	0.28	0.4	0.02	2.8	0.1	<0.05	8	<0.5
56200E 67050N	0.1	58	0.15	0.077	3	52	0.71	151	0.189	<20	1.5	0.017	0.13	0.2	0.03	2	<0.1	<0.05	6	<0.5
56200E 67100N	0.1	76	0.26	0.107	4	69	0.93	179	0.211	<20	1.91	0.021	0.25	0.4	0.02	2.7	<0.1	<0.05	6	<0.5
56200E 67150N	0.1	110	0.33	0.12	5	75	1.12	166	0.22	<20	2.68	0.028	0.18	0.3	0.02	3.6	0.1	0.07	8	1.5
56200E 67200N	0.1	138	0.24	0.219	5	111	1.17	159	0.24	<20	3.3	0.019	0.11	0.4	0.03	4.5	<0.1	<0.05	9	1.8
56200E 67250N	0.1	85	0.28	0.115	4	128	0.86	149	0.21	<20	2.03	0.022	0.11	0.2	0.03	2.3	<0.1	<0.05	8	1.6
56200E 67300N	0.1	119	0.23	0.147	4	121	0.96	167	0.216	<20	2.84	0.022	0.07	0.2	0.04	2.8	0.1	<0.05	9	2
56200E 67350N	0.1	132	0.23	0.094	5	169	1.54	178	0.235	<20	3.57	0.021	0.16	0.4	0.04	3.8	0.1	<0.05	9	1.8
56200E 67400N	<0.1	116	0.28	0.12	3	344	2.48	384	0.299	<20	3.59	0.032	0.58	0.2	0.02	2.1	<0.1	<0.05	9	1.5
56200E 67450N	0.1	110	0.26	0.128	5	175	1.64	174	0.216	<20	3.47	0.021	0.13	0.2	0.02	3	<0.1	<0.05	8	1.2
56200E 67500N	<0.1	185	0.38	0.162	3	200	1.91	299	0.275	<20	3.3	0.029	0.39	0.2	0.03	2.6	<0.1	<0.05	10	2.5
56200E 67550N	<0.1	104	0.33	0.141	5	156	1.64	216	0.201	<20	2.89	0.026	0.22	0.3	0.01	2.1	<0.1	<0.05	7	1.5
56200E 67600N	0.1	100	0.45	0.046	8	101	1.15	196	0.145	<20	2.04	0.019	0.4	0.3	0.02	5	0.2	<0.05	6	2.1
56200E 67650N	0.1	120	0.68	0.058	8	131	1.52	277	0.203	<20	2.41	0.042	0.59	0.2	0.02	5.7	0.2	<0.05	7	1.6
56200E 67700N	0.1	113	0.56	0.069	9	98	1.19	229	0.178	<20	2.33	0.031	0.41	0.2	0.02	4.1	0.1	<0.05	7	2.1
56200E 67750N	0.1	121	0.65	0.111	8	113	1.4	207	0.189	<20	2.61	0.038	0.46	0.3	0.02	3.9	0.2	<0.05	7	1.6
56200E 67800N	0.1	96	0.35	0.093	5	102	1.13	117	0.158	<20	1.98	0.036	0.17	0.3	0.02	2.7	<0.1	<0.05	5	1.3
56200E 67850N	0.1	155	0.22	0.11	3	50	1.7	198	0.263	<20	3.04	0.018	0.39	0.4	0.02	3.2	0.1	<0.05	10	<0.5
56200E 67900N	0.1	90	0.32	0.061	7	60	0.8	138	0.16	<20	2.24	0.015	0.12	0.4	0.03	3.2	<0.1	<0.05	7	0.6
56200E 67950N	0.1	66	0.17	0.086	4	48	0.59	98	0.143	<20	1.58	0.016	0.08	0.3	0.02	1.9	<0.1	<0.05	7	<0.5
56200E 68000N	0.1	97	0.27	0.035	5	57	0.94	98	0.186	<20	2.09	0.014	0.13	0.4	0.03	3.5	<0.1	<0.05	8	<0.5
56000E 66500N	0.2	90	0.39	0.041	3	65	0.67	184	0.19	<20	1.46	0.013	0.23	0.2	0.03	1.3	<0.1	<0.05	7	<0.5
56000E 66550N	0.2	53	0.36	0.145	3	39	0.43	183	0.122	<20	0.95	0.008	0.09	0.4	0.03	1.1	<0.1	<0.05	5	<0.5
56000E 66600N	0.2	61	0.19	0.333	3	29	0.52	145	0.172	<20	1.81	0.021	0.08	0.1	0.02	2.2	<0.1	<0.05	8	<0.5
56000E 66650N	0.1	78	0.19	0.144	3	60	0.54	83	0.133	<20	1.35	0.012	0.07	0.2	0.02	1.7	<0.1	<0.05	6	<0.5
56000E 66750N	0.1	61	0.26	0.138	3	55	0.7	173	0.149	<20	1.56	0.015	0.13	0.3	0.01	1.7	<0.1	<0.05	6	<0.5
56000E 66800N	0.3	85	0.23	0.071	3	53	0.82	138	0.174	<20	1.79	0.016	0.22	0.9	0.01	2.2	0.1	<0.05	6	<0.5
56000E 66850N	0.2	64	0.23	0.104	4	35	0.54	93	0.142	<20	1.16	0.014	0.12	0.2	0.01	1.5	<0.1	<0.05	5	<0.5
56000E 66900N	0.2	85	0.35	0.08	6	49	0.86	128	0.188	<20	1.71	0.02	0.36	0.3	0.01	3.8	0.2	<0.05	5	<0.5
56000E 66950N	0.3	104	0.37	0.05	15	74	0.86	150	0.178	<20	1.81	0.015	0.32	0.6	0.02	5.2	0.2	<0.05	6	<0.5
56000E 67000N	0.1	91	0.35	0.059	6	67	0.97	143	0.171	<20	1.64	0.016	0.34	0.2	0.01	2.8	0.2	<0.05	5	<0.5
56000E 67050N	0.1	86	0.26	0.062	6	71	0.86	105	0.152	<20	1.61	0.016	0.18	0.3	0.01	2.4	<0.1	<0.05	5	<0.5
56000E 67100N	0.1	82	0.3	0.12	4	59	0.86	126	0.173	<20	2	0.02	0.15	0.3	0.02	2.7	<0.1	<0.05	7	<0.5
56000E 67150N	0.2	94	0.47	0.107	10	64	0.88	125	0.168	<20	1.46	0.04	0.36	1	0.02	4	0.2	<0.05	5	0.7
56000E 67200N	0.2	88	0.43	0.033	21	63	0.57	144	0.138	<20	2.24	0.017	0.23	4.9	0.07	6.4	0.2	<0.05	6	0.9
56000E 67250N	0.1	73	0.3	0.181	6	52	0.74	104	0.137	<20	1.79	0.013	0.14	1	0.03	2.3	<0.1	<0.05	5	<0.5
56000E 67300N	0.1	61	0.24	0.145	4	38	0.47	142	0.139	<20	1.3	0.014	0.11	0.7	0.02	1.6	<0.1	<0.05	6	<0.5
56000E 67350N	0.1	83	0.2	0.118	4	43	0.64	121	0.172	<20	2.03	0.014	0.12	0.4	0.02	2.6	<0.1	<0.05	7	<0.5

Hen Soil Geochemical Samples

Sample	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
56000E 67400N	0.1	78	0.24	0.138	3	65	0.7	123	0.149	<20	1.89	0.012	0.11	0.6	0.03	1.9	<0.1	<0.05	6	<0.5
56000E 67450N	<0.1	55	0.19	0.053	3	71	0.66	114	0.133	<20	1.18	0.013	0.19	0.1	0.02	1.4	0.1	<0.05	5	<0.5
56000E 67500N	0.2	77	0.21	0.182	4	57	0.69	115	0.154	<20	2.06	0.015	0.1	0.6	0.02	2.3	<0.1	<0.05	7	<0.5
56000E 67550N	0.1	71	0.26	0.148	4	51	0.69	136	0.155	<20	1.8	0.015	0.12	0.2	0.02	2.5	<0.1	<0.05	6	<0.5
56000E 67600N	0.1	82	0.22	0.105	4	51	0.9	123	0.167	<20	2.48	0.018	0.16	0.2	0.03	3.7	<0.1	<0.05	7	<0.5
56000E 67650N	0.2	69	0.18	0.168	4	42	0.59	117	0.137	<20	1.62	0.015	0.13	0.2	0.02	2.3	<0.1	<0.05	6	<0.5
56000E 67700N	0.1	74	0.32	0.105	4	60	0.77	200	0.142	<20	1.67	0.019	0.14	0.3	0.02	2.3	<0.1	<0.05	6	<0.5
56000E 67750N	0.1	85	0.25	0.098	4	63	0.8	151	0.162	<20	2.78	0.014	0.17	0.3	0.03	3.2	0.1	<0.05	7	0.7
56000E 67800N	0.1	58	0.17	0.221	4	33	0.56	157	0.16	<20	3.04	0.018	0.07	0.2	0.05	3.1	<0.1	<0.05	11	1
56000E 67850N	0.2	71	0.18	0.135	3	23	0.35	184	0.157	<20	2.04	0.022	0.05	0.2	0.03	3.6	<0.1	<0.05	8	0.8
56000E 67900N	0.2	84	0.17	0.335	4	19	0.62	359	0.213	<20	2.65	0.026	0.1	0.2	0.03	4.1	<0.1	<0.05	13	0.8
56000E 67950N	<0.1	101	0.2	0.101	4	58	1.01	151	0.205	<20	1.98	0.012	0.2	0.2	0.02	2.3	<0.1	<0.05	7	0.5
56000E 68000N	0.2	70	0.21	0.232	5	39	0.61	168	0.179	<20	3.46	0.026	0.08	0.2	0.04	3.5	<0.1	<0.05	12	0.6
L63000E 67000N	0.1	82	0.30	0.211	2	129	0.99	148	0.237	<20	2.26	0.011	0.11	0.4	0.03	3.2	<0.1	<0.05	9	0.7
L63000E 67050N	0.1	86	0.30	0.192	3	101	1.01	170	0.195	<20	1.85	0.015	0.09	1.1	0.02	3.0	<0.1	<0.05	7	<0.5
L63000E 67100N	0.1	118	0.29	0.038	4	102	1.36	150	0.309	<20	2.81	0.024	0.38	0.3	0.01	5.2	0.2	<0.05	8	<0.5
L63000E 67150N	0.1	60	0.20	0.134	3	64	0.61	118	0.178	<20	1.52	0.014	0.08	0.2	0.02	2.1	<0.1	<0.05	7	0.8
L63000E 67200N	0.1	54	0.11	0.104	3	41	0.35	74	0.168	<20	1.05	0.015	0.03	0.2	0.02	1.7	<0.1	<0.05	6	<0.5
L63000E 67250N	<0.1	85	0.18	0.155	3	167	1.28	106	0.192	<20	2.77	0.015	0.07	0.2	0.03	2.3	<0.1	<0.05	7	0.5
L63000E 67300N	0.1	112	0.19	0.177	2	198	1.14	136	0.228	<20	3.74	0.011	0.09	0.2	0.06	2.5	<0.1	<0.05	8	0.7
L63000E 67350N	0.1	88	0.17	0.143	2	166	1.35	141	0.223	<20	2.43	0.017	0.08	0.2	0.02	2.2	<0.1	<0.05	8	<0.5
L67000E 67400N	<0.1	153	0.18	0.080	3	360	2.30	321	0.353	<20	3.25	0.014	0.77	0.2	0.03	2.8	0.1	<0.05	9	0.5
L67000E 67450N	0.1	82	0.18	0.063	3	110	0.88	122	0.157	<20	1.98	0.013	0.09	0.3	0.04	1.8	<0.1	<0.05	6	0.6
L67000E 67500N	<0.1	77	0.35	0.111	1	263	3.11	171	0.219	<20	3.41	0.054	0.37	0.1	0.04	1.5	<0.1	<0.05	8	<0.5
L57300E 67000N	<0.1	89	0.35	0.138	4	76	1.00	120	0.148	<20	1.64	0.019	0.16	0.2	0.03	2.4	<0.1	<0.05	7	<0.5
L57300E 66950N	<0.1	122	0.31	0.070	4	78	0.65	79	0.179	<20	1.91	0.010	0.21	0.4	0.05	2.1	<0.1	0.05	8	0.8
L57300E 66900N	0.1	155	0.59	0.069	6	159	1.74	259	0.199	<20	3.58	0.017	0.62	0.1	0.03	5.4	0.3	<0.05	10	1.0
L57300E 66850N	<0.1	108	0.44	0.162	4	74	1.05	169	0.167	<20	2.26	0.016	0.17	0.3	0.05	2.8	<0.1	<0.05	7	0.5
L57300E 66800N	<0.1	98	0.29	0.078	3	55	0.79	130	0.178	<20	1.63	0.014	0.14	0.2	0.02	2.3	<0.1	<0.05	7	<0.5
L57300E 66750N	<0.1	133	0.27	0.100	3	78	1.12	138	0.211	<20	2.67	0.014	0.22	0.2	0.03	3.1	<0.1	<0.05	8	<0.5
L57300E 66700N	0.3	113	0.32	0.118	6	70	0.96	172	0.198	<20	2.37	0.010	0.25	0.5	0.04	2.8	0.1	<0.05	7	0.6
L57300E 66650N	0.2	69	0.12	0.027	3	26	0.23	45	0.179	<20	0.67	0.009	0.06	0.3	0.01	1.0	<0.1	<0.05	7	<0.5
L57300E 66600N	0.5	99	0.27	0.161	3	70	0.73	114	0.219	<20	2.98	0.008	0.13	1.6	0.08	2.3	<0.1	<0.05	9	0.6
L57300E 66550N	0.7	45	0.07	0.064	4	25	0.12	63	0.152	<20	0.58	0.007	0.04	0.3	0.02	0.6	<0.1	<0.05	6	<0.5
L57300E 66500N	0.3	87	0.29	0.089	6	66	0.84	130	0.155	<20	1.72	0.014	0.24	0.3	0.02	2.8	0.1	<0.05	6	0.6
L16N: 17E	0.1	71	0.16	0.080	5	55	0.57	85	0.099	<20	2.29	0.013	0.07	0.2	0.04	2.0	<0.1	<0.05	7	<0.5
L16N: 17 + 50E	<0.1	72	0.20	0.075	4	42	0.39	67	0.096	<20	1.97	0.010	0.05	0.2	0.04	2.1	<0.1	<0.05	6	<0.5
L16N: 18E	0.1	122	0.34	0.087	8	59	0.82	107	0.095	<20	2.06	0.016	0.13	0.1	0.03	3.2	<0.1	<0.05	5	<0.5
L16N: 18 + 50E	0.1	80	0.17	0.037	4	49	0.60	81	0.105	<20	2.56	0.012	0.04	0.2	0.05	2.6	<0.1	0.06	5	0.7
L16N: 19E	0.1	70	0.12	0.057	5	47	0.45	65	0.100	<20	2.55	0.010	0.04	0.1	0.05	2.4	<0.1	<0.05	5	<0.5
L16N: 19 + 50E	0.1	74	0.16	0.149	2	30	0.36	70	0.071	<20	1.44	0.010	0.05	<0.1	0.03	1.2	<0.1	0.05	6	<0.5
L18N: 17E	0.1	88	0.23	0.140	3	39	0.57	89	0.063	<20	1.65	0.009	0.06	0.1	0.03	1.5	<0.1	<0.05	5	<0.5
L18N: 17 + 50E	0.1	90	0.25	0.051	5	46	0.67	73	0.103	<20	1.92	0.011	0.07	<0.1	0.03	2.4	<0.1	<0.05	6	0.5
L18N: 18E																				
L18N: 18 + 50E	0.1	100	0.15	0.031	4	44	0.44	63	0.113	<20	2.55	0.013	0.03	0.2	0.04	2.6	<0.1	0.05	8	0.8
L18N: 19E	0.1	62	0.09	0.098	3	40	0.36	62	0.072	<20	1.95	0.008	0.04	0.4	0.05	1.3	<0.1	<0.05	6	<0.5
L18N: 19 + 50E	0.1	80	0.25	0.045	7	38	0.50	92	0.091	<20	2.15	0.013	0.05	<0.1	0.06	2.1	<0.1	<0.05	7	<0.5
L20N: 17E	<0.1	100	0.44	0.092	6	51	0.84	108	0.084	<20	1.86	0.017	0.10	<0.1	0.03	2.4	<0.1	<0.05	5	0.5
L20N: 17 + 50E	0.1	89	0.30	0.038	7	54	0.76	121	0.119	<20	2.21	0.017	0.09	<0.1	0.03	3.2	<0.1	0.07	7	<0.5

Hen Soil Geochemical Samples

Sample	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
L20N: 18E	0.1	114	0.38	0.032	8	56	0.78	83	0.127	<20	2.61	0.020	0.08	0.1	0.06	3.4	<0.1	0.06	8	0.6
L20N: 18 + 50E	<0.1	101	0.30	0.107	4	53	0.75	134	0.106	<20	2.94	0.018	0.07	0.2	0.06	2.6	<0.1	<0.05	7	0.7
L20N: 19E	0.1	86	0.23	0.168	4	44	0.54	108	0.100	<20	2.66	0.012	0.06	0.1	0.07	2.3	<0.1	0.05	9	0.6
L20N: 19 + 50E	<0.1	88	0.34	0.086	4	44	0.60	153	0.096	<20	2.13	0.013	0.07	0.1	0.05	2.4	<0.1	<0.05	7	0.8
L22N: 17E	0.1	78	0.27	0.140	4	46	0.56	106	0.100	<20	1.94	0.009	0.07	0.1	0.04	1.7	<0.1	<0.05	9	0.7
L22N: 17 + 50E	0.2	83	0.47	0.061	7	45	0.61	125	0.096	<20	1.74	0.013	0.07	0.1	0.03	2.1	<0.1	0.05	8	0.6
L22N: 18E	<0.1	73	0.22	0.044	6	42	0.55	100	0.086	<20	2.05	0.009	0.04	0.1	0.03	2.0	<0.1	<0.05	6	<0.5
L22N: 18 + 50E	0.2	69	0.10	0.169	4	49	0.62	75	0.106	<20	3.72	0.011	0.05	0.1	0.05	2.9	<0.1	<0.05	9	0.6
L22N: 19E	0.1	78	0.16	0.242	3	42	0.55	102	0.084	<20	2.71	0.011	0.05	0.1	0.07	2.2	<0.1	<0.05	9	<0.5
L22N: 19 + 50E	0.1	80	0.25	0.219	3	49	0.69	83	0.103	<20	3.41	0.015	0.06	0.2	0.07	2.5	<0.1	<0.05	8	<0.5
L24N: 17E	0.1	79	0.63	0.052	9	56	0.80	169	0.094	<20	2.52	0.014	0.08	0.1	0.04	2.8	<0.1	<0.05	8	0.7
L24N: 17 + 50E	0.1	76	0.33	0.034	6	47	0.55	77	0.119	<20	2.49	0.013	0.05	0.2	0.05	2.4	<0.1	<0.05	7	0.6
L24N: 18E	<0.1	81	0.24	0.030	4	47	0.57	116	0.122	<20	2.24	0.013	0.05	0.5	0.04	2.3	<0.1	<0.05	7	<0.5
L24N: 18 + 50E	0.2	106	0.55	0.050	8	89	1.26	228	0.124	<20	3.60	0.022	0.14	<0.1	0.04	3.5	<0.1	<0.05	9	0.5
L24N: 19E	<0.1	64	0.15	0.028	5	40	0.47	76	0.079	<20	2.01	0.009	0.03	0.1	0.04	2.0	<0.1	<0.05	5	<0.5
L24N: 19 + 50E	0.1	95	0.12	0.139	5	54	0.68	85	0.131	<20	3.96	0.009	0.07	0.2	0.10	3.3	<0.1	<0.05	9	0.8

2008 Hen Reconnaissance Silt Samples

Sample	Easting	Northing	Notes	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
HEN08BKS-1	654896	5769451	qtz float;	0.6	61.5	0.0	4.2	38	0.1	48.8	17.2	405	3.38	12.1	0.8	2.3	0.0	0.7	65	0.2
HEN08BKS-2	655044	5769491	granite and volc float	1.0	56.2	0.0	4.0	36	0.1	51.3	17.1	375	3.31	10.4	0.6	1.1	0.0	0.7	59	0.2
HEN08BKS-3	654905	5769084		0.7	62.3	0.0	4.6	44	0.2	49.7	20.1	506	4.00	17.5	0.5	2.4	0.0	0.9	57	0.3
HEN08BKS-4	654781	5769940		0.9	87.1	0.0	6.0	50	0.3	58.5	21.9	614	4.00	13.5	1.0	3.3	0.0	1.4	73	0.2
HEN08BKS-5	654719	5770056		0.6	66.7	0.0	4.3	40	0.1	49.9	18.8	508	3.75	9.0	0.6	2.3	0.0	1.1	76	0.1
HEN08BKS-6	654428	5770450		0.7	68.8	0.0	3.8	48	<0.1	47.0	22.5	553	4.27	12.6	0.5	5.3	0.0	1.3	48	0.1
HEN08BKS-7	653937	5770910		0.4	45.3	0.0	3.2	42	<0.1	35.5	14.7	342	3.28	9.9	0.8	1.7	0.0	2.9	33	0.2
HEN08BKS-8	653963	5771039		0.6	41.7	0.0	3.2	40	<0.1	37.5	14.4	329	3.33	9.0	0.5	2.0	0.0	1.3	30	0.1
HEN08BKS-9	654022	5771171		0.5	44.7	0.0	3.3	41	<0.1	35.9	14.8	351	3.47	10.1	0.5	4.4	0.0	1.2	30	0.2
HEN08BKS-10	652031	5767451		4.7	52.4	0.0	6.9	58	0.3	42.8	47.2	5310	3.73	62.0	0.9	1.5	0.0	0.3	39	0.5
HEN08BKS-11	651957	5768778		9.1	84.1	0.0	9.1	117	0.4	46.4	43.9	4153	4.74	62.2	0.9	3.8	0.0	0.8	31	2.4
HEN08BKS-12	651780	5767748		1.9	59.0	0.0	7.5	82	0.3	45.7	24.6	2421	3.50	18.9	0.7	2.7	0.0	0.4	42	0.7
HEN08BKS-13	651565	5768276		0.7	55.1	0.0	5.9	57	0.1	51.5	20.6	606	2.99	13.0	0.5	2.4	0.0	0.9	26	0.2
HEN08BKS-14	651178	5768887		1.1	129.0	0.0	9.7	88	0.5	68.3	19.1	653	3.01	11.9	1.4	8.3	0.0	0.3	39	0.7
HEN08BKS-15	654211	5771234		0.6	51.8	0.0	3.9	48	<0.1	40.5	16.2	423	3.45	12.0	0.6	2.3	0.0	1.2	37	0.2
HEN08BKS-16	654355	5771367		0.5	47.8	0.0	3.6	46	<0.1	37.6	15.3	381	3.61	11.0	1.3	3.8	0.0	5.8	36	0.2
HEN08BKS-17	654521	5771452		0.7	50.2	0.0	3.8	48	<0.1	41.5	16.4	408	3.78	11.9	0.5	3.0	0.0	1.4	40	0.3
HEN08BKS-18	655346	5768552		0.8	46.7	0.0	4.0	57	<0.1	39.6	16.6	621	2.97	19.2	0.7	1.6	0.0	0.9	49	0.4
HEN08BKS-19	655647	5768547		0.9	54.8	0.0	4.1	63	<0.1	49.2	18.8	721	3.69	22.3	0.9	1.2	0.0	3.3	50	0.3
HEN08BKS-20	657086	5769738		0.6	64.5	0.0	5.3	57	0.2	50.1	23.1	651	4.86	12.4	0.6	2.1	0.0	0.3	68	0.3
HEN08BKS-21	656646	5769896		1.1	64.6	0.0	4.9	53	0.1	55.1	23.9	582	5.21	11.0	0.6	1.9	0.0	0.4	59	0.3
HEN08BKS-22	656440	5768307		1.0	65.6	0.0	5.8	69	0.2	61.7	21.0	659	3.50	23.0	0.6	3.7	0.0	1.1	53	0.3
HEN08BKS-23	656527	5768548		0.8	63.2	0.0	5.4	74	0.2	60.4	20.7	611	3.71	26.5	0.6	1.6	0.0	0.8	61	0.3
HEN08BKS-24	656850	5769058		0.6	81.6	0.0	5.7	52	0.2	58.1	24.1	599	4.15	21.3	0.6	4.7	0.0	0.4	85	0.3
HEN08BKS-25	656809	5769014		1.0	60.5	0.0	4.8	81	<0.1	62.9	25.1	1045	4.05	24.2	0.5	3.0	0.0	1.0	105	0.4
HEN08BKS-26	656712	5768999		0.6	92.4	0.0	5.8	51	0.3	60.5	24.4	540	4.28	31.2	0.8	2.2	0.0	0.5	87	0.3
HEN08BKS-27	656470	5768612		1.0	54.5	0.0	4.2	74	<0.1	55.3	20.7	798	4.10	21.4	0.5	1.6	0.0	1.2	60	0.4
HEN08BKS-28	656567	5769163		0.7	67.8	0.0	4.8	49	0.1	56.3	22.7	521	4.11	20.5	0.5	2.7	0.0	0.7	71	0.3
HEN08BKS-29	655528	5769711		0.5	66.1	0.0	4.6	40	0.1	55.2	20.5	500	4.50	12.9	0.6	1.7	0.0	0.5	77	0.1
HEN08BKS-30	656845	5769217		0.8	72.0	0.0	5.5	60	0.1	57.1	24.5	627	4.46	15.7	0.6	2.0	0.0	0.5	77	0.3
HEN08BKS-31	656192	5769109		1.1	71.1	0.0	5.2	50	0.2	52.7	22.1	576	4.01	18.9	0.5	2.1	0.0	0.4	80	0.3
HEN08BKS-32	654898	5774901	repeat HEN07BKS-43	1.5	73.7	0.0	6.4	93	<0.1	57.3	24.4	858	4.35	8.9	0.6	2.6	0.0	1.2	44	0.7
HEN08BKS-33	655997	5774329	repeat HEN07BKS-41	1.1	80.0	0.0	6.1	96	0.1	67.1	23.9	860	4.13	9.3	0.6	2.3	0.0	1.2	45	0.6
HEN08BKS-34	656247	5773712	repeat HEN07BKS-40	0.9	70.7	0.0	6.4	77	0.4	44.2	20.5	920	3.94	7.2	0.9	2.9	0.0	0.5	60	0.7
HEN08BKS-35	655689	5773264		0.9	82.7	0.0	9.2	87	0.5	28.5	20.8	989	4.32	6.8	1.2	3.4	0.0	0.2	84	0.8
HEN08BKS-36	655688	5773432		0.9	85.2	0.0	7.9	72	0.3	39.7	31.5	1355	4.57	6.0	1.1	2.0	0.0	0.9	62	0.6
HEN08BKS-37	656229	5773601		1.0	86.2	0.0	6.7	77	0.2	63.0	27.7	1013	4.50	9.5	1.1	3.3	0.0	1.0	61	0.5
HEN08BKS-38	656290	5773617		1.1	79.7	0.0	6.8	85	0.2	67.6	27.7	975	4.67	11.9	0.7	4.1	0.0	1.2	65	0.5
HEN08BKS-39	655928	5774674		1.4	79.2	0.0	6.2	101	0.2	61.6	25.1	1153	4.34	19.5	0.8	2.5	0.0	0.6	50	0.6
HEN08BKS-40	654386	5775287		1.1	68.0	0.0	6.2	81	0.1	45.8	25.7	1150	4.15	7.4	0.6	1.6	0.0	0.8	40	0.5
HEN08BKS-41	655537	5773176		1.0	97.9	0.0	8.4	94	1.1	32.5	18.4	1458	3.28	4.6	1.8	3.7	0.0	0.1	98	1.9
HEN08BKS-42	655180	5773284		0.9	64.0	0.0	7.8	109	0.6	39.2	15.7	1072	3.47	6.7	0.9	2.2	0.0	0.1	60	1.1
HEN08BKS-43	654704	5773384		0.2	27.0	0.0	4.1	46	0.1	16.0	8.0	477	1.92	1.9	0.7	0.8	0.0	0.3	36	0.2
HEN08BKS-44	655034	5773754		1.5	60.4	0.0	8.3	91	0.3	28.5	21.1	1569	3.53	4.4	0.9	1.3	0.0	0.3	54	1.3
HEN08BKS-45	655382	5773944		0.9	71.7	0.0	7.1	85	0.4	34.1	17.4	900	3.66	4.6	1.0	1.7	0.0	0.4	73	1.2
HEN08BKS-46	655757	5773731		1.0	79.3	0.0	7.3	83	0.5	34.0	19.4	984	4.01	5.4	1.2	1.6	0.0	0.4	72	0.8
HEN08BKS-47	656127	5773296		1.1	91.1	0.0	8.9	84	1.0	32.5	18.0	1155	4.00	8.0	1.5	3.5	0.0	0.2	80	1.3
HEN08BKS-48	656169	5773312		1.1	105.5	0.0	8.2	74	1.2	30.4	17.4	1164	3.81	11.0	2.8	6.5	0.0	0.3	89	1.2
HEN08BKS-49	654924	5774475		1.3	69.6	0.0	7.0	93	0.4	48.6	18.9	808	3.56	7.4	0.9	1.8	0.0	0.3	60	1.0
HEN08TRS-1	654144	5770484		0.7	67.4	0.0	4.0	37	0.2	37.6	12.9	406	2.68	9.6	1.1	2.5	0.0	0.9	44	0.3
HEN08TRS-2	648158	5769138		1.1	64.7	0.0	5.6	50	0.1	32.8	16.9	653	3.96	5.7	0.8	2.9	0.0	0.7	32	0.2
HEN08TRS-3	649641	5769494		0.7	109.4	0.0	22.7	81	0.3	30.9	30.5	3082	5.06	17.2	1.1	3.0	0.0	0.6	43	0.7
HEN08TRS-4	649654	5769581		0.5	146.5	0.0	12.2	88	0.3	65.3	23.6	1057	4.47	16.9	0.7	2.0	0.0	0.4	45	0.5
HEN08TRS-5	657394	5769403		0.7	86.2	0.0	4.2	53	0.2	93.6	25.7	569	4.20	25.4	0.5	38.6	0.0	0.5	61	0.1
HEN08TRS-6	656764	5768166		1.2	119.1	0.0	8.0	90	0.6	77.8	24.9	819	3.50	29.1	1.8	3.3	0.0	0.4	75	1.1
HEN08TRS-7	565862	5767739		3.4	53.7	0.0	5.5	99	<0.1	53.4	58.6	4157	6.24	86.1	0.5	1.6	0.0	0.8	55	0.3
HEN08TRS-8	656818	5767158		1.0	81.2	0.0	5.2	90	0.2	55.5	25.0	970	4.25	41.6	0.9	3.6	0.0	1.1	43	0.3
HEN08TRS-9	654985	5768752		0.9	52.2	0.0	4.3	60	0.1	44.0	17.3	595	3.28	21.7	0.7	5.4	0.0	0.8	46	0.3
HEN08TRS-10	655175	5768600																		

2008 Hen Reconnaissance Silt Samples

Sample	Easting	Northing	Notes	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
HEN08DS-1	655955	5767190	road ditch just below 6303 km	0.5	36.7	0.0	2.5	30	<0.1	30.0	12.2	306	2.80	13.2	0.7	3.4	0.0	3.4	22	<0.1
HEN08DS-2	655857	5767370		0.8	54.8	0.0	3.4	39	<0.1	34.1	14.0	458	3.06	20.2	0.7	4.1	0.0	3.7	31	0.1
HEN08DS-3	655727	5767605		0.8	85.3	0.0	4.0	50	<0.1	51.2	20.9	518	3.55	21.5	0.6	5.2	0.0	2.8	30	0.2
HEN08DS-4	655619	5767893		0.6	43.6	0.0	2.5	30	<0.1	33.7	13.5	344	2.87	11.9	0.5	3.3	0.0	1.9	24	<0.1
HEN08DS-5	655689	5768380		0.9	98.2	0.0	6.3	54	0.5	70.5	21.8	516	3.54	12.5	1.0	2.3	0.0	1.1	41	0.3
HEN08DS-6	655969	5769469		0.7	47.3	0.0	3.4	44	<0.1	37.0	16.6	497	3.20	15.8	0.6	6.7	0.0	1.6	35	0.2
HEN08DS-7	655777	5772984		1.2	89.7	0.0	8.3	94	0.6	32.4	20.7	1737	3.39	4.6	1.8	2.1	0.0	0.2	50	1.1
HEN08DS-8	656499	5772004		1.4	45.8	0.0	8.1	86	0.2	36.7	21.0	1486	2.96	9.7	0.5	2.2	0.0	0.2	34	0.5

2008 Hen Reconnaissance Silt Samples

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
HEN08BKS-1	0.7	<0.1	81	0.79	0.073	6	146	0.97	116	0.106	<20	1.30	0.013	0.23	0.2	0.03	3.4	<0.1	<0.05	4	1.1
HEN08BKS-2	0.5	<0.1	78	0.64	0.067	5	145	0.95	104	0.108	<20	1.21	0.011	0.22	2.1	0.02	3.0	<0.1	<0.05	4	<0.5
HEN08BKS-3	1.0	<0.1	97	0.55	0.077	6	145	1.04	139	0.122	<20	1.54	0.013	0.29	0.2	0.04	3.6	0.1	<0.05	4	<0.5
HEN08BKS-4	0.6	0.1	104	0.68	0.055	8	119	1.11	145	0.146	<20	2.19	0.015	0.27	0.2	0.02	5.5	0.1	<0.05	6	<0.5
HEN08BKS-5	0.6	<0.1	93	0.73	0.084	6	154	1.09	86	0.108	<20	1.31	0.012	0.26	0.2	0.03	3.3	<0.1	<0.05	4	0.6
HEN08BKS-6	0.6	<0.1	108	0.62	0.107	6	128	1.16	87	0.127	<20	1.43	0.012	0.29	0.4	0.02	3.1	0.1	<0.05	5	0.9
HEN08BKS-7	0.8	<0.1	92	0.53	0.088	7	99	0.82	69	0.107	<20	1.08	0.014	0.19	0.2	0.01	2.4	<0.1	<0.05	4	0.7
HEN08BKS-8	0.9	<0.1	93	0.48	0.087	5	103	0.83	66	0.108	<20	1.03	0.014	0.18	0.2	0.01	2.2	<0.1	<0.05	4	<0.5
HEN08BKS-9	0.7	<0.1	97	0.53	0.085	6	106	0.80	67	0.105	<20	1.05	0.014	0.18	0.2	<0.01	2.4	<0.1	<0.05	4	0.6
HEN08BKS-10	0.5	<0.1	106	0.59	0.095	10	59	0.75	154	0.058	<20	2.21	0.015	0.08	<0.1	0.10	3.5	0.2	<0.05	5	0.6
HEN08BKS-11	0.6	0.1	126	0.44	0.098	11	60	0.71	341	0.079	<20	2.49	0.015	0.08	0.1	0.09	4.9	0.5	<0.05	5	<0.5
HEN08BKS-12	0.4	<0.1	114	0.62	0.089	8	64	0.92	117	0.081	<20	2.13	0.014	0.08	<0.1	0.06	3.8	<0.1	<0.05	5	<0.5
HEN08BKS-13	0.5	6.2	92	0.38	0.055	6	79	0.94	104	0.117	<20	1.92	0.016	0.12	0.3	0.03	3.3	<0.1	<0.05	6	<0.5
HEN08BKS-14	0.5	0.1	76	0.59	0.066	10	87	0.91	133	0.069	<20	2.14	0.017	0.08	<0.1	0.06	3.8	<0.1	0.11	5	1.7
HEN08BKS-15	0.9	<0.1	90	0.60	0.101	7	95	0.96	87	0.113	<20	1.26	0.015	0.23	0.3	0.01	2.6	<0.1	0.08	4	1.1
HEN08BKS-16	0.8	<0.1	96	0.56	0.102	8	101	0.89	78	0.113	<20	1.19	0.016	0.21	0.2	0.01	2.4	<0.1	0.07	4	1.6
HEN08BKS-17	0.9	0.2	101	0.61	0.104	7	113	0.96	87	0.124	<20	1.26	0.018	0.24	0.2	0.02	2.7	<0.1	0.08	4	1.6
HEN08BKS-18	1.0	<0.1	78	0.58	0.101	7	78	0.93	123	0.110	<20	1.34	0.015	0.23	0.1	0.02	2.9	0.1	0.06	4	1.0
HEN08BKS-19	1.0	0.1	99	0.68	0.121	7	110	1.04	138	0.136	<20	1.43	0.020	0.29	0.2	0.02	3.1	0.1	0.08	5	2.1
HEN08BKS-20	1.1	<0.1	121	0.77	0.093	6	171	1.24	113	0.109	<20	1.67	0.010	0.29	<0.1	0.04	4.0	<0.1	0.10	5	1.0
HEN08BKS-21	1.9	<0.1	128	0.75	0.081	5	188	1.31	70	0.130	<20	1.62	0.010	0.19	<0.1	0.03	3.8	<0.1	0.10	5	1.3
HEN08BKS-22	1.7	<0.1	94	0.84	0.101	8	95	1.09	189	0.139	<20	1.89	0.028	0.34	0.2	0.03	3.9	0.1	0.07	5	1.1
HEN08BKS-23	1.0	<0.1	93	0.96	0.087	6	135	1.18	191	0.137	<20	2.00	0.032	0.34	0.1	0.03	3.8	0.1	0.08	6	2.0
HEN08BKS-24	0.9	0.1	101	0.80	0.101	6	156	1.50	173	0.113	<20	1.94	0.009	0.40	<0.1	0.05	4.0	<0.1	0.07	6	0.7
HEN08BKS-25	0.9	<0.1	95	0.61	0.116	6	128	1.27	150	0.125	<20	1.70	0.014	0.34	0.2	0.03	3.1	0.1	0.06	6	1.3
HEN08BKS-26	0.9	<0.1	99	0.71	0.103	8	150	1.39	185	0.127	<20	2.06	0.010	0.39	0.2	0.04	4.5	<0.1	0.07	5	0.9
HEN08BKS-27	0.9	<0.1	90	0.57	0.110	6	136	1.14	120	0.117	<20	1.52	0.015	0.27	0.2	0.02	3.0	0.1	0.06	5	0.8
HEN08BKS-28	0.9	<0.1	99	0.64	0.090	6	156	1.25	151	0.131	<20	1.74	0.014	0.34	0.1	0.02	3.3	0.1	0.06	5	<0.5
HEN08BKS-29	0.4	<0.1	95	0.79	0.073	5	199	1.16	121	0.123	<20	1.45	0.011	0.27	<0.1	0.02	3.3	<0.1	0.07	4	0.5
HEN08BKS-30	0.9	<0.1	114	0.76	0.090	6	162	1.60	155	0.151	<20	2.05	0.011	0.41	0.1	0.03	4.4	<0.1	0.06	6	0.8
HEN08BKS-31	0.9	<0.1	97	0.71	0.077	6	144	1.27	150	0.130	<20	1.83	0.012	0.30	0.1	0.04	4.3	<0.1	<0.05	6	0.5
HEN08BKS-32	1.2	<0.1	124	0.83	0.097	7	85	1.24	74	0.148	<20	2.38	0.012	0.09	0.1	0.03	6.5	<0.1	<0.05	8	1.2
HEN08BKS-33	1.3	<0.1	121	0.89	0.101	7	100	1.31	64	0.152	<20	2.28	0.011	0.09	0.2	0.04	8.0	<0.1	<0.05	7	1.8
HEN08BKS-34	0.9	<0.1	124	1.00	0.090	10	85	1.06	61	0.123	<20	2.36	0.010	0.07	0.1	0.07	8.3	<0.1	<0.05	7	2.6
HEN08BKS-35	0.8	0.1	133	1.01	0.130	16	46	0.79	71	0.094	<20	2.85	0.013	0.06	0.2	0.09	6.8	<0.1	0.08	8	2.0
HEN08BKS-36	0.8	0.1	135	0.82	0.094	13	66	1.05	74	0.133	<20	2.77	0.010	0.07	0.2	0.05	10.3	<0.1	<0.05	9	1.4
HEN08BKS-37	1.1	<0.1	132	0.95	0.114	11	113	1.35	69	0.154	<20	2.68	0.013	0.10	0.1	0.05	13.4	<0.1	<0.05	9	2.4
HEN08BKS-38	1.2	<0.1	143	0.91	0.103	8	107	1.52	65	0.169	<20	2.72	0.013	0.10	0.1	0.04	7.8	<0.1	<0.05	9	1.0
HEN08BKS-39	1.2	<0.1	122	1.03	0.101	8	87	1.30	60	0.148	<20	2.48	0.012	0.08	0.2	0.06	6.6	<0.1	<0.05	7	2.1
HEN08BKS-40	0.9	<0.1	135	0.86	0.090	7	77	1.07	81	0.144	<20	2.24	0.010	0.08	0.2	0.03	6.6	<0.1	<0.05	8	0.8
HEN08BKS-41	0.7	0.1	118	1.11	0.227	19	64	0.67	70	0.030	<20	2.68	0.011	0.06	0.1	0.18	5.2	<0.1	0.14	7	3.0
HEN08BKS-42	0.6	0.1	121	1.04	0.162	9	75	0.94	94	0.045	<20	2.51	0.010	0.08	<0.1	0.10	3.9	<0.1	0.09	7	1.2
HEN08BKS-43	0.4	<0.1	70	0.62	0.072	5	82	0.51	44	0.081	<20	1.03	0.008	0.08	<0.1	0.03	2.8	<0.1	<0.05	4	1.3
HEN08BKS-44	0.4	0.1	139	0.79	0.098	12	49	0.80	73	0.093	<20	2.23	0.010	0.05	<0.1	0.06	5.6	<0.1	<0.05	8	1.0
HEN08BKS-45	0.5	<0.1	112	1.22	0.107	14	55	0.76	66	0.102	<20	2.28	0.012	0.06	0.1	0.09	6.3	<0.1	0.09	7	2.0
HEN08BKS-46	0.7	<0.1	126	1.19	0.110	19	57	0.83	65	0.113	<20	2.67	0.011	0.06	0.2	0.09	9.2	<0.1	0.07	7	2.4
HEN08BKS-47	1.0	0.1	127	1.29	0.134	23	61	0.91	46	0.091	<20	2.64	0.011	0.06	0.1	0.15	10.7	<0.1	0.10	8	4.0
HEN08BKS-48	0.9	<0.1	130	1.30	0.155	29	73	0.79	57	0.077	<20	3.54	0.013	0.07	0.2	0.22	21.4	<0.1	0.11	8	3.7
HEN08BKS-49	1.0	<0.1	120	1.13	0.086	10	76	1.09	53	0.116	<20	2.23	0.011	0.07	0.1	0.08	6.4	<0.1	0.05	7	2.1
HEN08TRS-1	0.7	0.1	84	0.85	0.075	9	67	0.77	119	0.102	<20	1.30	0.016	0.21	0.2	0.04	3.1	<0.1	<0.05	4	0.8
HEN08TRS-2	0.4	<0.1	160	0.56	0.103	8	47	0.66	102	0.104	<20	1.75	0.012	0.10	0.2	0.03	4.7	<0.1	<0.05	5	<0.5
HEN08TRS-3	1.8	<0.1	230	0.64	0.180	9	45	0.82	128	0.110	<20	2.15	0.009	0.15	<0.1	0.04	7.3	<0.1	<0.05	7	<0.5
HEN08TRS-4	1.8	<0.1	142	0.59	0.102	6	121	1.25	159	0.110	<20	2.77	0.013	0.17	<0.1	0.04	7.7	<0.1	<0.05	8	<0.5
HEN08TRS-5	0.8	<0.1	103	0.69	0.112	6	209	1.91	136	0.129	<20	2.00	0.012	0.42	0.1	0.03	4.2	0.1	<0.05	6	<0.5
HEN08TRS-6	2.3	0.1	103	1.53	0.089	10	155	1.20	262	0.092	<20	2.75	0.018	0.25	0.3	0.08	4.4	0.1	0.06	6	2.0
HEN08TRS-7	2.2	<0.1	160	0.79	0.165	6	108	1.58	270	0.170	<20	2.29	0.037	0.39	0.2	0.04	4.4	0.1	<0.05	7	<0.5
HEN08TRS-8	1.8	0.1	132	0.73	0.122	8	87	1.24	202	0.163	<20	2.25	0.029	0.44	0.2	0.03	5.7	0.2	<0.05	7	<0.5
HEN08TRS-9	0.8	<0.1	90	0.61	0.103	7	92	0.99	121	0.105	<20	1.42	0.016	0.24	0.2	0.02	3.0	<0.1	<0.05	4	0.8
HEN08TRS-10	0.8	<0.1	86	0.50	0.095	6	88	0.88	107	0.104	<20	1.14	0.017	0.22	0.2	0.02	2.4	<0.1	<0.05	4	<0.5
HEN08TRS-11	0.9	<0.1	113	0.79	0.099	8	77	1.08	69	0.141	<20	2.18	0.014	0.09	0.1	0.04	7.8	<0.1	<0.05	7	<0.5

2008 Hen Reconnaissance Silt Samples

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
HEN08DS-1	1.5	0.1	101	0.43	0.109	11	69	0.55	76	0.091	<20	0.71	0.015	0.18	0.7	<0.01	2.5	<0.1	<0.05	3	<0.5
HEN08DS-2	1.6	0.2	100	0.50	0.122	13	75	0.74	96	0.130	<20	1.02	0.027	0.28	7.8	0.01	2.7	0.2	0.05	4	<0.5
HEN08DS-3	1.6	0.1	120	0.63	0.122	10	89	1.11	158	0.160	<20	1.42	0.035	0.47	0.4	<0.01	5.5	0.2	<0.05	5	<0.5
HEN08DS-4	1.4	<0.1	104	0.49	0.100	8	74	0.69	101	0.102	<20	0.84	0.020	0.28	0.3	<0.01	2.5	<0.1	<0.05	3	<0.5
HEN08DS-5	2.8	<0.1	102	1.06	0.059	9	101	1.07	148	0.156	<20	2.10	0.023	0.24	0.2	0.06	4.1	0.1	<0.05	6	2.0
HEN08DS-6	0.8	<0.1	101	0.54	0.108	9	84	0.86	111	0.120	<20	1.15	0.019	0.25	0.2	0.01	2.7	<0.1	<0.05	4	<0.5
HEN08DS-7	0.5	0.1	137	0.75	0.128	17	71	0.66	53	0.051	<20	2.62	0.010	0.05	<0.1	0.09	7.0	<0.1	<0.05	8	0.6
HEN08DS-8	1.2	<0.1	82	0.49	0.091	5	71	0.85	72	0.080	<20	1.98	0.007	0.06	0.1	0.05	2.6	<0.1	<0.05	5	0.7

2008 Rock Geochemical Results - Hen Property

Sample Number	Easting	Northing	Rock Sample	Lithology Code	Alteration Code	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)
BK1HEN05	656905	5767664	Float	Unk	Car	0.4	81.6	5.5	12	0.1	35.6	8.6	357	0.94	5.5	0.1	1.4	0.1	436
BK2HEN05	656975	5767116	Float	Hf	Sil	1.9	103.4	5.1	109	0.3	62.3	36.8	1200	5.97	68.2	0.4	1.8	0.9	356
41526	658470	5766683	Float	Sk	Unk	1.9	289.7	6.1	58	0.3	30.5	40.8	355	5.57	8.2	0.7	38.0	1.6	101
41527	658445	5766683	Subcrop	Ap	Pot	0.6	144.8	2.8	46	0.1	12.7	22.5	433	3.61	17.5	0.4	21.0	1.8	1349
41528	658438	5766683	Float	Unk	Sil	12.7	165.5	4	42	0.2	22.2	36.2	415	6.34	2.6	0.9	2.3	1.7	68
41529	658045	5766765	Subcrop	Vc	Car	1.8	69.4	1.7	41	<.1	2.8	16.7	430	4.84	14.9	0.2	2.0	0.5	71
41530	656378	5767075	Float	Hf	Unk	0.9	704.7	8.2	37	1.1	49	36.5	238	3.78	23.7	0.6	97.5	1.5	240
41531	656378	5767087	Float	Sk	Sil	5.6	313.8	1.3	10	0.2	213.9	27.5	130	2.57	16.7	1.7	9.3	7.1	303
41532	656962	5767205	Float	Hf	Prp	0.6	90.8	11.2	75	0.3	26.1	23.9	742	4.79	8.5	0.2	13.0	1	107
41533	657088	5766880	Float	Hf	Unk	2	167.8	2.8	82	0.1	22.8	33.6	705	5.75	7.1	0.8	4.1	1.1	58
41534	656980	5766869	Subcrop	Hf	Car	1.3	148.7	2.2	54	0.1	43.5	29.9	598	4.86	12.6	0.6	1.7	0.8	115
41535	656980	5766893	Subcrop	Hf	Car	2.5	138	1.7	50	0.1	63	35.3	511	4.93	6.8	0.7	3.3	0.7	181
41536	656970	5766893	Outcrop	Hf	Car	2.8	108.3	2	35	0.1	40.2	30.1	331	4.4	9	0.6	1.6	0.7	114
41537	656661	5767853	Float	Hf	Unk	3.3	142.6	3.5	68	0.1	26.7	33.3	517	5.8	36.8	0.8	9.0	1.3	61
41538	656906	5767644	Float	Unk	Unk	1.7	145.4	7.2	66	0.1	91.5	57.5	336	7.61	22	1	3.0	1.8	44
41539	659027	5767064	Float	Hf	Prp	1.1	172.7	2.4	51	0.3	17.3	29.8	517	4.12	3899.4	0.5	840.6	2.1	46
41540	658748	5767130	Float	Ap	Car	1.1	98.9	33.2	40	0.2	13.9	19.4	549	2.59	129.3	0.4	22.8	1.2	291
41541	658997	5767052	Outcrop	Hf	Car	2.6	84.5	7.3	76	0.2	15.9	15.5	709	2.73	184.3	0.5	8.4	2	45
41542	658976	5767077	Subcrop	Hf	Unk	0.4	27.2	4.4	45	0.1	18.7	15.3	425	1.88	264.4	0.4	8.7	1.6	29
41543	658943	5767064	Float	Hf	Car	1.8	145.6	6.8	61	0.1	33.1	43.3	380	6.62	14.8	0.5	4.3	1.8	90
41544	658980	5766978	Float	Sk	Car	0.8	167	8.4	81	0.1	28.6	47	626	7.3	8	1	7.7	1.9	53
41545	659104	5767030	Float	Ap	Prp	0.9	114.4	1.9	58	0.2	16	16.1	560	4.55	20.9	0.5	4.7	2	79
41546	659181	5766967	Subcrop	Sk	Car	1	113.3	4.6	67	0.1	97.6	49.3	890	7.21	9.9	0.6	<.5	1.5	134
41547	659322	5766989	Float	Vc	Car	4.3	31.5	1.4	20	<.1	15.1	24.6	372	3.97	17	0.8	2.5	1.4	111
41548	659746	5767127	Float	Vc	Prp	0.4	140.9	22.4	42	0.6	15.4	25.9	427	3.94	64.5	0.3	17.1	1.4	65
41549	659494	5766970	Float	Ap	Prp	1.9	111.5	3.3	28	0.1	35.8	31.5	326	4.09	20.6	0.5	17.3	1.3	40
41550	659423	5767022	Float	Vb	Car	2.4	108.9	4.2	13	0.1	409.5	49.9	363	3.14	5.2	0.2	1.5	0.5	234
41590	656846	5767847	Subcrop	Unk	Unk	1.4	32.2	1.6	13	<.1	26.4	7.5	167	0.95	0.9	0.3	0.6	1.4	78
41591	656905	5767674	Float	Unk	Unk	0.7	132.1	3.8	61	0.1	21.1	26.4	567	4.68	7.2	0.8	1.7	2.5	70
41592	656905	5767664	Float	Ap	Prp	1	130.2	3.6	48	0.1	28.7	34.9	309	4.75	12.6	0.9	3.4	2	88
41593	656931	5766854	Float	Ap	Car	2.9	148	2.4	34	0.1	46.3	37.2	336	6.15	11.7	0.3	4.0	0.6	205
41594	656853	5766823	Subcrop	Hf	Car	94.2	102	1.7	621	0.5	111.4	10	287	2.45	129.1	4.9	9.0	1.5	80
151559	655176	5768589	Float	Hf	Sil	0.3	149.1	2.1	41	<0.1	43.1	30.8	298	4.05	11.6	1.1	1.2	2.1	152
151560	655193	5768593	Float	Unk	Sil	0.3	90.5	2.7	31	<0.1	15.8	14.1	294	2.24	1.8	0.4	19.1	0.8	124
151561	655640	5768497	Float	Unk	Sil	0.9	136.6	3.9	67	0.2	18.6	21.1	525	3.84	12.7	0.6	12.9	1.2	44
151562	656527	5768548	Float	Unk	Prp	3.5	194.0	1.6	19	0.1	23.8	11.8	194	2.46	3.3	0.4	9.8	0.8	43
151563	656887	5769110	Float	Vc	Sil	0.2	173.1	3.7	49	<0.1	32.4	27.0	565	3.72	11.5	0.4	2.5	1.6	294
151568	655623	5768517	Float	Unk	Sil	0.3	86.7	1.5	21	<0.1	7.8	10.5	270	1.35	13.5	0.4	3.8	1.1	93
151569	655623	5768517	Float	Vc	Sil	25.3	80.0	3.1	17	0.2	33.1	11.0	76	1.08	24.8	0.9	2.8	1.6	201
151570	655669	5768509	Float	Unk	Sil	5.4	122.9	3.9	42	0.1	44.2	30.7	340	3.88	9.4	32.1	2.9	1.1	191
151599	653924	5764370	Subcrop	Vol	Unk	0.9	57.1	1.4	31	<0.1	58.0	19.9	311	1.96	7.0	0.3	8.3	0.9	44
151600	653990	5764338	Subcrop	Unk	Sil	0.1	220.6	4.0	27	0.2	73.3	35.6	298	2.40	4.3	0.3	3.6	0.9	51
175561	656956	5766923	Outcrop	Hf	Car	1.2	199.2	2	67	0.1	6.8	14.3	741	4.1	4.5	1.4	1.0	2.3	53
175562	656853	5766820	Outcrop	Sk	Car	27.6	158.3	1.4	59	0.3	54.4	14.7	89	2.28	18.3	1.4	20.3	2.3	17
175563	656788	5766820	Outcrop	Sk	Car	3.2	60.1	1.3	25	0.2	21	12.2	170	2.10	11.1	0.6	2.2	1.1	17

2008 Rock Geochemical Results - Hen Property

Sample Number	Easting	Northing	Rock Sample	Lithology Code	Alteration Code	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)
175564	659399	5766366	Outcrop	Sk	Car	6	119.6	25.8	53	0.5	18.1	14.4	230	3.72	20.3	1	41.3	2.4	73
175565	659420	5766366	Outcrop	Sk	Car	5.5	195.8	19.5	91	1.3	21.1	17.2	296	3.57	31.7	1.2	59.0	2.5	99
175566	656934	5767671	Outcrop	At	Oxi	0.7	93.9	5.5	56	0.1	12.4	18.5	493	3.36	41.1	0.1	3.3	0.4	127
175567	657238	5767422	Float	Unk	Prp	6.1	177.5	6.7	240	0.4	28.2	29.1	534	5.21	2.8	0.5	2.9	1.2	109
175568	656684	5766875	Float	Sk	Unk	0.3	99	2.2	33	0.1	31.7	21.6	220	3.04	4.4	1.3	3.8	1.5	187
175570	656174	5767092	Float	Sk	Car	13.5	137.9	1.6	41	0.3	24.1	17.7	149	2.62	12.3	1.3	21.2	2	48
175571	657384	5766744	Outcrop	Unk	Car	2.5	83.1	2	28	2.8	32.5	17.9	204	2.5	101.5	0.5	2166.5	0.9	90
175572	657394	5766695	Outcrop	Ap	Car	3.7	106.6	1.7	24	0.2	12.5	8.6	322	1.8	7	0.8	16.4	1.5	35
175573	657400	5766695	Outcrop	Ap	Oxi	1.6	78	3.5	15	0.2	8.8	5.4	574	1.54	15	0.6	11.8	1.6	44
175574	657479	5766750	Outcrop	Sk	Oxi	5.4	128	4	36	0.2	21	19.3	319	3.39	9.4	0.6	5.1	0.8	178
175575	657585	5766847	Outcrop	Unk	Car	2.6	105.4	1.3	61	0.1	6.3	11.2	323	3.19	16.7	0.3	2.0	0.5	47
175576	657402	5766659	Outcrop	Unk	Car	2.7	144	1.1	25	0.1	84.5	23	530	3.06	16.2	0.7	0.6	1.6	151
175577	660040	5767017	Outcrop	Sk	Car	0.7	115.4	7.7	62	0.2	15.4	24.9	463	3.68	562.4	0.2	8.9	1.3	77
175578	657370	5766729	Float	Sk	Car	1.1	105.7	2.1	26	0.1	45.8	15.9	217	2.29	17.1	0.4	84.9	0.8	84
175579	657386	5766761	Outcrop	Unk	Prp	1.8	148	2	38	0.1	35.8	22.3	290	2.86	10.3	0.4	3.3	0.7	70
175580	657452	5766660	Outcrop	Unk	Car	0.8	508.7	2.3	34	0.5	7	19	329	2.38	2.1	0.5	12.9	0.8	63
175581	657342	5766697	Outcrop	Hf	Unk	1	89.2	1.8	30	0.1	7.8	14.3	375	2.22	7	0.3	0.7	1.1	54
175582	657382	5766724	Outcrop	Unk	Sil	12.8	84	2.1	17	6.2	13.6	14.4	122	2.25	469.1	0.3	31037.6	0.5	66
184251	659423	5767063	Float	Ap	Prp	70.5	59.6	1.7	7	0.1	24	202.4	98	8.57	7.4	0.5	34.0	1.1	79
184252	659347	5767129	Float	Ap	Prp	1.8	102.8	2.9	28	0.1	132.3	24.9	458	2.45	1.2	0.1	<.5	0.2	132
184253	659448	5767110	Float	Ap	Prp	1	101.1	2.3	26	0.1	30.6	33	336	5.8	20	0.3	5.0	1.2	68
184254	659908	5767014	Outcrop	Unk	Car	5.7	119.8	4.4	22	0.4	26.9	51.9	250	2.23	>10000	0.3	1007.7	2	92
184255	656956	5766917	Float	Hf	Car	3.7	268	2	46	0.1	29.5	22.5	396	3.62	38.3	1	6.9	1.8	90
184256	656855	5766820	Subcrop	Hf	Car	214.2	89.6	3.3	61	0.5	53.9	13.4	713	2.44	38.7	1.6	8.1	1.8	183
184257	659399	5766369	Float	Hf	Sil	4.8	115.5	9.5	64	1.9	19.7	15.4	490	3.46	278.4	0.8	989.5	1.8	123
184258	658995	5767052	Outcrop	Hf	Prp	3.2	79.9	3.9	69	0.1	20.6	16.1	612	3.04	174.6	0.4	14.7	1.6	37
184259	657628	5767912	Float	Hf	Prp	2.4	111.4	2.6	55	0.2	51	27.6	364	3.54	142.2	0.3	18.9	1	120
184260	657597	5767640	Subcrop	Hf	Prp	2.2	87.9	6	34	0.1	34	20.5	294	3.54	25.8	0.3	8.8	0.8	91
184261	657550	5767644	Subcrop	Unk	Prp	2.1	125.6	3.8	34	0.1	21.5	25.1	352	4.16	18	0.2	7.5	0.6	101
184262	657512	5767620	Subcrop	Hf	Prp	3.5	128	5.3	48	0.2	31.5	24.7	380	4.78	133	0.2	5.0	0.6	108
184263	657174	5767408	Float	Hf	Prp	0.9	52.3	1.8	70	0.1	18.5	16.5	554	2.98	78.5	0.5	4.9	1.7	41
184264	656918	5767044	Subcrop	Vc	Prp	3.8	124.5	11.7	40	0.2	20.4	20	484	3.64	78.6	0.7	13.1	2	76
184265	657367	5767558	Float	Hf	Prp	9.5	253.4	6.1	29	0.3	26.6	23.9	244	3.83	143.8	0.3	13.9	0.8	126
184266	657184	5766933	Float	Unk	Unk	4.9	141.3	8.1	25	0.5	30.3	29.3	213	3.28	42	0.4	7.9	1	50
184401	657416	5766720	Float	Hf	Unk	0.6	97.9	2.2	32	<.1	15.1	16	350	2.84	7.6	0.6	<.5	0.9	85
184402	657475	5766750	Subcrop	Hf	Unk	1.6	160.3	5	41	0.1	29.8	26.1	407	3.95	7.3	1.1	2.7	1	80
185309	658480	5766721	Outcrop	Hf	Prp	2.3	111.1	3.8	43	0.1	29.5	32.7	432	4.99	3.9	0.9	<.5	1.7	121
185310	658487	5766721	Outcrop	Ap	Pot	1	75.2	2.1	56	<.1	12.7	18	477	3.54	2.4	0.7	<.5	2.6	78
185311	658487	5766736	Outcrop	Ap	Pot	0.6	76.7	2.5	70	<.1	13	22.8	623	4.01	8.1	1.1	<.5	3.2	108
185312	658045	5766780	Float	Hf	Unk	0.9	66.4	4.9	60	0.2	2.6	14.2	427	4.01	7.2	0.3	<.5	0.7	40
185317	656920	5766922	Float	Hf	Unk	0.7	17.2	2.8	72	0.2	25.3	28.4	557	3.19	481.9	0.4	8.6	2	34
185318	657030	5767001	Float	Hf	Car	0.4	187.8	1.5	75	0.1	21.6	25.3	804	4.12	16.9	0.2	0.5	0.4	64
185319	656995	5767072	Float	Hf	Car	1.8	27.1	2	62	0.1	21.8	24.6	556	5.12	17.7	0.3	2.4	1	113
185320	657605	5767578	Float	Hf	Prp	3.6	123.3	5.6	19	0.1	123.1	38.6	254	2.67	23.1	0.3	8.9	0.5	225
185321	657605	5766933	Float	Unk	Prp	3.1	200	6.2	46	0.2	67.3	34.1	308	4.46	1	0.3	<.5	0.6	75

2008 Rock Geochemical Results - Hen Property

Sample Number	Easting	Northing	Rock Sample	Lithology Code	Alteration Code	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)
185322	657890	5766948	Outcrop	Unk	Pot	2.6	100.8	4	60	0.1	4.4	15.3	473	3.43	8.3	0.3	1.2	0.6	37
185323	658520	5766966	Float	Unk	Pot	52	130.2	4.1	65	0.1	16.2	29.4	565	5.35	61.9	0.4	5.1	0.8	99
185324	658739	5766970	Float	Unk	Pot	0.5	101.7	4	28	<.1	9.6	12	498	2.21	15.2	0.6	3.2	1.8	348
185325	657555	5767518	Float	Unk	Unk	0.9	77.4	2.8	29	0.1	5.5	9.1	460	1.6	17.4	0.3	3.2	0.7	115
185326	657555	5767518	Float	Unk	Unk	11.7	127.3	6.6	40	0.2	30.8	27.4	329	4.24	17.1	0.3	6.5	0.6	98
185327	659572	5766957	Float	Sk	Unk	2.5	143.6	17.6	55	0.2	17	23.9	567	4.47	57.5	0.3	3.9	0.9	110
185328	657605	5767572	Float	Unk	Unk	2.6	70.5	4.5	54	0.1	47.5	26.7	453	5.03	22.2	0.2	0.6	0.6	107
185329	659053	5766953	Float	Unk	Unk	1.3	43.6	3.2	20	0.1	116.2	42	606	3.33	14.7	0.4	<.5	0.5	76
185330	659093	5766988	Float	Hf	Prp	0.9	141.6	4.8	55	0.1	124.2	52.3	488	6.39	6.5	0.5	4.9	1.2	56
185331	658916	5767107	Subcrop	Hf	Prp	0.8	121.3	2.4	117	0.2	23.2	23.2	897	4.33	15.4	0.5	4.4	1.2	64
185332	658802	5766957	Float	Hf	Unk	2	132	4.7	122	0.4	48.8	23.5	985	4.39	140	0.5	33.3	1.5	52
185333	658932	5767004	Float	Unk	Unk	0.9	207.2	2.9	117	0.9	28.7	13.4	721	3.86	493.7	0.4	36.8	1.3	49
185334	659191	5767051	Float	Hf	Unk	1.2	219.9	3.7	102	0.4	96.9	40.8	1498	5.69	44.4	0.6	12.6	0.6	319
185335	659209	5767160	Float	Unk	Sil	9.1	101.3	25.8	9	0.8	12.2	39.5	66	6.6	26.3	0.4	73.3	1.4	38
185336	659449	5767148	Float	Ap	Prp	4	264.7	1.7	21	0.2	28	51.9	390	4.55	12.1	0.8	44.2	1.2	53
185337	657056	5767998	Subcrop	Ap	Prp	2.5	92.3	4.3	26	0.2	7.7	11.9	392	3.02	7.9	0.5	24.8	1.3	102
185338	657150	5768010	Float	Unk	Sil	1	110.5	2.7	18	0.1	179.3	32.8	309	2.5	17.2	0.3	13.4	0.7	144
185339	657056	5768261	Float	Unk	Sil	0.9	94.2	1.7	56	<.1	38.6	19.5	426	3.06	2	0.2	4.2	0.6	94
185340	656993	5768136	Float	Unk	Prp	2.3	168.5	9.7	45	0.3	216.9	50.2	406	4.37	28.6	0.3	6.7	0.7	154
185341	657398	5766651	Float	Hf	Unk	1.3	33	0.5	17	<.1	5.7	5.2	196	1.25	2.8	0.2	<.5	0.4	29
493145	656986	5766883	Float	Hf	Car	1.5	170.8	1.9	35	0.1	60.0	29.8	359	3.77	2.4	0.9	1.7	0.8	45
493146	657027	5766819	Float	Unk	Sil	0.5	9.8	5.0	3	<0.1	2.1	1.1	42	0.31	18.1	0.9	1.1	11.7	4
493147	656870	5766815	Subcrop	Hf	Sil	4.1	88.2	1.5	23	0.3	25.3	9.4	130	1.34	142.9	2.0	3.0	2.5	16
493148	656898	5766824	Float	Hf	Car	4.1	26.1	1.9	36	0.2	14.7	7.9	401	1.86	8.7	0.9	3.2	1.1	99
493149	656885	5766828	Outcrop	Hf	Sil	4.8	32.6	2.8	40	0.3	12.8	10.0	416	2.80	15.1	0.4	4.4	0.5	40
493150	655934	5767177	Outcrop	Vc	Car	5.5	51.4	2.4	72	0.5	30.4	9.7	698	3.54	3.0	0.3	1.6	0.8	117
493351	652462	5767234	Float	Vc	Unk	0.3	394.4	1.9	27	0.3	79.4	33.5	247	5.35	0.8	0.3	1.7	0.8	26
493352	652460	5767245	Float	Vc	Sil	0.6	145.4	1.1	26	0.1	31.2	21.6	240	3.35	1.5	0.2	<0.5	0.3	81
493353	652442	5767256	Outcrop	Ap	Sil	1.1	177.9	1.7	47	<0.1	93.9	25.8	345	2.92	2.1	0.2	<0.5	0.7	41
493354	656542	5767995	Outcrop	Ar	Car	0.1	82.1	1.3	28	<0.1	52.5	15.4	493	2.77	1.6	<0.1	4.0	0.2	99
493355	656433	5767995	Outcrop	Unk	Car	0.3	140.2	0.9	57	<0.1	9.2	14.3	620	4.03	1.9	0.3	0.5	0.8	36
493356	656869	5767730	Float	Unk	Car	2.7	60.0	9.5	25	<0.1	18.2	8.4	207	1.67	19.1	0.2	14.1	0.5	101
493357	656903	5767674	Float	Ap	Car	2.0	95.5	2.0	57	<0.1	33.4	20.9	581	4.75	2.4	0.5	1.9	0.5	39
493358	655689	5768380	Float	Unk	Car	0.7	113.7	1.5	52	<0.1	22.7	15.3	373	3.42	12.4	0.4	4.0	0.5	53
493359	655697	5768394	Float	Unk	Sil	0.8	55.0	4.4	55	<0.1	14.5	12.7	624	4.02	3.3	0.5	<0.5	1.2	19
493360	659026	5767063	Subcrop	Unk	Sil	0.4	168.6	2.7	33	0.5	15.0	17.4	341	2.96	4990.4	0.3	959.3	1.3	28
493361	658787	5767049	Float	Unk	Unk	1.6	183.9	4.7	41	0.4	15.7	10.9	759	3.24	15.6	0.4	15.2	1.2	16
493362	659000	5767025	Float	At	Car	0.6	77.9	3.0	39	0.3	108.6	35.1	314	4.36	44.5	0.4	21.7	0.8	52
493363	657351	5767246	Float	At	Unk	0.3	26.5	8.1	21	0.1	13.4	10.0	214	2.64	26.7	0.3	8.4	1.4	40
493364	659399	5766880	Float	Sk	Unk	3.5	94.6	11.1	29	0.6	11.6	7.6	425	1.74	20.3	0.6	53.0	1.5	624
493487	654774	5769236	Float	Unk	Sil	3.2	173.0	4.8	36	0.3	7.3	13.2	287	3.49	8.1	0.3	15.3	0.5	64
493488	654765	5769201	Float	Unk	Sil	0.5	45.1	0.9	31	<0.1	19.9	16.7	425	4.84	3.4	0.2	3.6	0.6	77
493489	654859	5769165	Float	Unk	Sil	1.5	71.9	1.4	16	0.2	3.8	5.3	226	2.17	3.4	0.4	1.0	0.9	68
493490	655010	5768882	Float	Unk	Sil	0.6	280.0	1.0	28	0.1	7.2	11.8	274	2.34	51.4	0.2	5.3	0.3	25
493491	655072	5768900	Float	Unk	Car	266.4	15.5	22.0	66	<0.1	95.9	16.9	915	2.14	91.2	<0.1	4.1	0.4	207

2008 Rock Geochemical Results - Hen Property

Sample Number	Easting	Northing	Rock Sample	Lithology Code	Alteration Code	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)
493492	654816	5769715	Float	Unk	Unk	0.8	33.8	3.9	50	<0.1	21.3	17.2	402	3.44	566.4	0.3	5.0	0.7	31
493493	654634	5769879	Float	Unk	Unk	1.8	403.6	1.9	20	0.4	11.2	20.6	142	2.53	277.3	0.2	344.2	0.4	70
493494	653937	5770910	Float	Vc	Sil	0.9	147.8	11.2	38	0.3	11.1	10.6	379	2.31	4.1	0.2	4.3	0.4	305
493495	651565	5768276	Float	Gd	Unk	0.3	85.0	0.3	23	<0.1	55.2	13.1	352	1.96	4.0	0.1	3.5	0.3	21
493496	654163	5770700	Float	Unk	Sil	0.7	66.8	3.1	22	<0.1	47.0	24.0	317	3.56	7.8	0.2	1.0	0.7	78
493500	654930	5768718	Float	Hf	Sil	1.4	74.4	25.0	107	0.3	28.4	17.9	372	3.41	13.7	0.2	1.8	1.0	50
659660	653232	5764319	Outcrop	Gd	Pot	1.8	663.7	1.8	102	0.3	9.2	18.0	1180	5.51	0.6	1.1	1.3	1.4	37
659661	654559	5763806	Outcrop	Ap	Car	0.8	175.8	2.0	52	0.1	31.0	20.8	563	3.69	2.4	0.1	3.0	0.2	90
659662	654259	5764639	Outcrop	Ap	Unk	0.3	145.3	21.5	116	0.2	26.8	29.1	466	3.77	11.6	0.3	0.9	0.8	230
659663	652612	5767251	Outcrop	At	Sil	0.4	157.3	1.6	26	<0.1	37.2	18.7	271	2.06	2.6	0.5	3.4	1.9	74
659664	655083	5765081	Outcrop	Ap	Car	0.3	114.4	2.1	28	<0.1	67.0	23.4	478	2.55	1.2	0.5	1.3	1.2	122
659665	658980	5767888	Outcrop	Sa	Oxi	0.7	78.6	30.4	150	0.2	21.2	21.5	362	4.44	5	0.3	6.1	0.8	65
708651	654645	5764164	Subcrop	Unk	Sil	0.2	96.9	1.5	29	<0.1	15.0	11.9	388	2.10	0.5	0.3	0.7	0.6	119
708652	656288	5767181	Float	Unk	Sil	0.5	47.2	6.2	54	0.3	18.2	16.1	785	2.80	43.3	0.4	23.1	1.7	133
708653	657326	5766755	Outcrop	Dike	Unk	0.8	46.3	2.4	22	0.1	36.7	8.8	169	1.40	7.8	0.5	33.1	1.7	47
826522	653596	5765763	Outcrop	Gd	Prp	0.8	157.8	1.3	33	<0.1	20.6	21.9	387	2.80	1.8	0.7	1.2	2.5	81
826523	652965	5765335	Outcrop	Gd	Unk	0.4	852.3	2.7	50	0.7	7.8	13.1	460	2.85	3.1	0.7	32.8	2.2	44
828501	652309	5767095	Outcrop	At	Sil	1.5	193.1	3.7	27	<0.1	21.9	20.2	271	3.13	2.3	0.3	1.0	0.6	75
828502	652730	5766851	Outcrop	At	Prp	0.4	142.5	4.5	42	0.2	28.9	19.3	311	2.96	1.9	0.4	3.2	0.9	105
828503	659497	5766027	Float	Ap	Car	1.5	102.6	2.6	68	<0.1	134.5	26.7	337	3.44	0.5	0.5	1.5	0.6	78
828504	655120	5767922	Outcrop	Sl	Sil	1.0	53.8	2.6	66	0.1	17.4	15.1	599	4.13	2.1	0.3	1.8	1.6	73
828505	655044	5768079	Outcrop			0.6	45.4	1.7	48	0.1	9.7	10.4	346	2.64	2.1	0.2	2.1	1.0	25
853904	654124	5764268	Subcrop	Unk	Sil	<0.1	108.7	56.4	139	0.4	49.6	20.5	480	1.69	29.0	<0.1	1.0	0.2	38
853905	654643	5764177	Outcrop	Unk	Sil	0.2	62.1	1.5	59	<0.1	11.3	13.7	554	3.04	<0.5	0.3	0.8	0.6	132
853906	656288	5767184	Subcrop	Unk	Sil	0.4	47.1	1.2	49	<0.1	15.1	13.7	397	3.17	3.5	0.6	1.1	2.5	91

2008 Rock Geochemical Results - Hen Property

Sample Number	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)
BK1HEN05	0.2	3.1	0.1	31	10.55	0.101	1	93.3	0.78	132	0.042	6	0.9	0.099	0.12	0.4	<.01	2.1	<.1	0.07	1	0.5
BK2HEN05	0.4	3.1	0.1	141	5.51	0.157	5	95.1	2.49	191	0.083	3	1.76	0.025	0.59	0.3	<.01	17.7	0.5	0.55	6	3
41526	<.1	0.9	0.4	130	1.32	0.178	9	59.5	1.13	101	0.234	5	2.03	0.221	0.91	0.2	<.01	3.4	0.1	2.34	8	0.8
41527	0.1	0.7	<.1	143	2.54	0.181	8	22.4	0.99	317	0.269	11	2.67	0.15	0.93	1.3	<.01	4.2	0.1	0.49	10	<.5
41528	0.1	0.6	0.5	152	1.23	0.198	9	31.4	1.23	48	0.268	5	1.77	0.19	0.87	1.2	<.01	3.2	0.1	2.51	6	4.2
41529	0.1	1.9	0.1	29	1.61	0.108	5	6.5	0.34	44	0.094	5	1.46	0.583	0.38	0.2	0.02	1.2	<.1	2.96	4	<.5
41530	0.3	1.8	1	62	2.37	0.131	6	59.7	0.31	109	0.089	5	2.08	0.451	0.11	1.4	<.01	3.3	0.1	1.81	4	1
41531	0.2	0.7	0.3	34	2.42	0.07	11	93.9	0.23	135	0.052	4	2.51	0.122	0.09	48.6	0.02	2.5	0.1	0.96	4	0.9
41532	0.3	0.5	0.1	176	1.16	0.173	5	63.7	1.78	257	0.247	3	2.5	0.151	1.45	0.9	<.01	3.6	0.4	0.62	10	0.7
41533	0.1	1.9	<.1	179	1.28	0.218	8	31.6	2.03	276	0.369	2	2.66	0.331	1.94	0.3	<.01	5.8	0.2	0.78	9	0.6
41534	0.1	1.6	0.1	116	1.75	0.168	7	59.5	1.65	77	0.175	8	3.68	1.334	1.67	0.9	<.01	2.7	0.1	1.58	7	<.5
41535	0.2	1.4	0.1	89	2.72	0.17	7	86.4	1.49	150	0.238	6	3.66	1.023	1.37	0.1	<.01	2.3	0.1	1.71	7	0.7
41536	0.2	1.9	<.1	59	2.71	0.157	6	41.8	0.74	50	0.144	8	3.93	1.823	1.21	1.1	<.01	1.5	<.1	1.99	7	0.9
41537	0.1	1.5	0.1	203	1.25	0.179	7	37.4	1.67	223	0.387	5	2.09	0.098	1.37	0.4	0.01	5.7	0.1	1	9	0.6
41538	0.3	5	<.1	150	1.53	0.204	9	110.1	1.39	36	0.203	4	1.44	0.055	0.39	1.1	0.03	8.9	0.1	4.69	8	0.9
41539	0.1	8.8	0.2	176	1.01	0.22	7	13.1	1.29	167	0.235	2	1.56	0.117	1.12	3.7	0.02	4.8	0.5	0.69	8	1.5
41540	0.3	6.4	0.3	105	4.19	0.191	6	22.8	0.45	86	0.126	11	2.39	0.205	0.45	2.5	<.01	4	0.1	0.27	6	<.5
41541	0.3	3.4	<.1	147	3.33	0.145	5	22.5	0.87	99	0.161	7	2.19	0.051	0.46	4	0.02	8.2	0.2	0.18	10	0.8
41542	0.2	3	<.1	94	0.81	0.136	4	41.9	0.66	177	0.17	2	0.94	0.072	0.49	3.3	0.04	3.9	0.1	0.08	5	0.5
41543	0.1	2.1	<.1	129	2.25	0.202	8	40.9	1.35	44	0.198	3	1.41	0.131	0.62	0.3	0.01	4.7	0.1	3.43	6	<.5
41544	0.1	2.5	0.1	197	1.69	0.223	8	31.8	2.58	49	0.336	2	2.13	0.08	1.68	0.9	0.01	4.5	0.1	2.37	8	0.5
41545	0.1	2.8	<.1	210	1.13	0.191	7	28.1	1.42	254	0.298	3	1.82	0.106	1.31	0.2	0.02	4.5	0.2	0.11	8	0.5
41546	0.2	0.6	<.1	96	4.86	0.161	8	133.2	1.61	59	0.168	4	1.24	0.052	0.33	0.8	0.04	6.1	0.1	3.56	6	<.5
41547	0.1	3.2	0.1	161	1.85	0.204	5	17.7	0.64	179	0.157	3	1.2	0.088	0.5	0.5	<.01	2.5	0.1	0.87	6	1
41548	0.3	6.9	0.1	156	1.07	0.179	6	21.1	0.99	148	0.21	2	1.43	0.16	0.86	1.4	<.01	6.1	0.3	<.05	7	0.6
41549	0.1	2.7	0.2	170	0.96	0.18	5	64.1	1.83	191	0.267	7	1.71	0.109	1.32	0.4	<.01	3.6	0.3	1.11	7	1.6
41550	0.2	0.5	<.1	37	6.17	0.094	2	215	1.17	94	0.092	1	0.86	0.127	0.23	0.9	<.01	2	0.1	1.32	2	0.5
41590	<.1	0.7	<.1	30	0.87	0.106	7	84.2	0.69	156	0.146	<.1	0.53	0.091	0.23	0.1	<.01	2.4	<.1	<.05	1	<.5
41591	0.1	4.4	<.1	179	1.15	0.178	11	52.1	1.46	255	0.313	2	2.05	0.054	1.57	0.7	0.01	3.4	0.1	0.2	8	0.7
41592	<.1	2.8	<.1	152	1.57	0.207	9	41.5	1.22	111	0.222	5	1.64	0.168	0.76	0.3	<.01	5.2	0.1	1.56	6	1.1
41593	0.1	1.9	0.1	41	2.03	0.167	6	33	0.46	76	0.099	11	4.93	2.825	1.21	1.1	0.01	1.6	0.1	3.22	10	0.5
41594	14.4	4	0.1	594	2.83	0.061	9	43.7	0.34	37	0.152	4	1.4	0.094	0.24	0.4	<.01	4.1	0.5	1.16	4	23.1
151559	<.01	0.4	<.01	195	1.03	0.162	8	106	1.66	214	0.337	<.20	2.49	0.124	1.67	0.1	<.01	2.7	<.01	<.05	8	<.05
151560	<.01	0.5	<.01	109	3.73	0.151	5	31	0.93	111	0.185	<.20	2.10	0.253	0.51	0.2	<.01	3.2	<.01	<.05	6	<.05
151561	0.1	0.5	0.2	179	1.41	0.186	5	19	1.28	121	0.243	<.20	1.75	0.179	1.09	0.3	<.01	4.4	0.6	0.62	7	<.05
151562	0.1	0.4	<.01	65	0.53	0.110	4	38	0.50	44	0.125	<.20	0.78	0.072	0.29	0.3	0.01	1.3	0.1	1.20	4	1.9
151563	<.01	0.3	<.01	116	2.71	0.149	5	85	1.55	518	0.230	<.20	2.04	0.055	1.55	0.1	<.01	1.7	<.01	<.05	7	<.05
151568	<.01	6.3	<.01	61	2.59	0.099	6	17	0.34	109	0.179	<.20	2.45	0.229	0.29	0.4	<.01	2.0	<.01	<.05	9	<.05
151569	0.2	1.6	<.01	18	2.80	0.108	10	10	0.12	51	0.115	<.20	3.46	0.294	0.06	0.2	<.01	0.5	<.01	0.53	7	1.9
151570	<.01	0.6	<.01	156	2.53	0.132	6	55	0.99	293	0.264	<.20	2.78	0.221	0.81	0.2	<.01	1.5	<.01	1.02	7	3.6
151599	0.1	<.01	<.01	49	1.60	0.072	4	77	1.09	105	0.104	<.20	1.42	0.116	0.23	<.01	<.01	3.3	<.01	0.07	4	<.05
151600	0.2	0.3	<.01	47	1.47	0.096	4	57	0.54	55	0.122	<.20	1.27	0.076	0.15	0.1	<.01	1.6	<.01	0.68	3	0.6
175561	<.1	0.9	<.1	220	1.87	0.323	15	7.5	1.41	100	0.266	4	2.2	0.163	1.49	0.2	<.01	5.2	0.1	0.66	8	<.5
175562	1.2	2.8	0.1	92	0.45	0.11	11	33.6	0.28	70	0.088	2	0.4	0.065	0.17	2.9	0.01	2.1	0.1	1.25	1	6.1
175563	0.1	1.3	0.1	48	0.64	0.095	8	27.2	0.4	68	0.12	1	0.98	0.114	0.22	0.4	<.01	2.4	0.1	0.82	2	1.6

2008 Rock Geochemical Results - Hen Property

Sample Number	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)
175564	0.2	3.7	0.3	127	1.66	0.134	7	21.4	0.14	58	0.117	1	0.31	0.054	0.15	2.1	0.01	3.1	0.1	3.55	2	3.2
175565	1.2	3.8	0.7	87	2	0.14	8	15.7	0.19	58	0.122	2	0.43	0.057	0.14	0.6	0.03	2.2	0.1	2.41	3	3.5
175566	0.2	6	<.1	151	1.42	0.111	3	31.5	1.37	431	0.166	4	3.08	0.309	0.85	1.9	<.01	8	0.1	0.18	9	<.5
175567	3.3	0.9	0.1	166	0.82	0.21	5	59	1.62	97	0.183	3	1.82	0.112	1.24	0.2	0.02	3.1	0.3	2.31	8	7.9
175568	<.1	0.6	<.1	187	1.03	0.151	5	85.4	1.3	292	0.245	2	1.31	0.071	0.97	0.7	<.01	3.3	0.1	<.05	5	<.5
175570	0.2	3.6	0.1	102	1.11	0.137	9	32.8	0.79	158	0.192	2	1.2	0.128	0.43	1.3	<.01	3.2	0.1	0.9	4	2.5
175571	0.1	0.8	0.1	85	1.54	0.122	4	69.8	0.76	340	0.165	2	2.05	0.167	0.6	3.6	0.01	2.4	0.1	0.65	5	0.5
175572	0.1	1.1	2.7	56	2.04	0.139	10	24.1	0.34	98	0.126	4	1.28	0.059	0.21	68.8	<.01	2	<.1	0.2	5	0.6
175573	0.1	2.2	23.1	33	2.83	0.151	11	22.3	0.16	79	0.073	4	1.17	0.038	0.05	13.8	0.01	1.5	<.1	0.17	5	0.8
175574	0.2	0.7	0.3	72	2.71	0.163	6	24.3	0.56	115	0.135	10	2.5	0.161	0.27	1.2	0.01	2.1	<.1	1.68	6	1
175575	0.1	0.7	0.2	156	0.69	0.102	3	28.4	0.96	432	0.277	3	1.45	0.096	0.9	0.2	<.01	4.8	0.1	0.43	5	<.5
175576	0.1	0.6	0.2	70	2.8	0.142	7	175.8	0.76	275	0.097	2	2.08	0.099	0.49	16.6	0.01	4.1	0.1	0.31	6	<.5
175577	0.2	4	0.1	189	0.99	0.218	6	25.6	1.35	188	0.243	1	1.88	0.126	1.28	0.6	0.01	7.5	0.3	<.05	8	0.5
175578	0.1	0.6	0.3	89	1.32	0.153	6	99.4	0.64	193	0.129	3	1.65	0.091	0.33	1.2	0.01	2.9	0.1	0.3	5	0.6
175579	<.1	0.4	0.2	106	1.97	0.111	4	49.4	0.88	273	0.174	5	2.31	0.11	0.64	0.7	0.01	3.2	0.1	0.54	6	<.5
175580	0.3	0.4	1	76	1.6	0.11	4	10.4	0.5	44	0.095	5	1.61	0.241	0.15	21.9	<.01	4.8	<.1	0.76	5	0.6
175581	0.1	0.7	<.1	66	0.9	0.185	6	14.8	0.88	35	0.143	33	1.23	0.059	0.13	0.5	0.01	2.2	<.1	0.13	4	0.9
175582	0.1	4.6	0.4	65	0.99	0.092	3	18.6	0.4	48	0.123	3	1.09	0.135	0.28	7.6	0.02	2.7	0.1	1.1	3	1.1
184251	<.1	1.9	0.4	158	0.57	0.165	2	43	0.16	28	0.16	2	0.54	0.021	0.26	2.7	0.02	13	0.1	7.56	4	35.9
184252	0.1	0.1	0.1	51	4.45	0.079	1	103.3	1.64	218	0.101	3	1.9	0.195	0.35	0.1	<.01	2.6	<.1	0.46	5	<.5
184253	<.1	3.1	0.2	183	1.1	0.163	4	51.2	1.58	123	0.254	4	1.73	0.09	1.26	1.1	0.01	5	0.3	2.09	9	4.9
184254	0.1	16.4	1.1	65	1.49	0.242	8	13.7	0.39	76	0.08	2	1.35	0.577	0.2	1.1	<.01	3.3	<.1	0.5	4	3
184255	0.1	0.9	0.1	113	1.83	0.281	12	66.1	0.94	102	0.176	6	1.3	0.252	0.73	1.5	0.01	2.4	<.1	1.83	3	0.7
184256	1.6	1.2	0.2	39	5.86	0.099	14	15.7	0.11	40	0.108	15	3.32	0.235	0.04	0.8	0.01	1.8	<.1	1.21	5	3.8
184257	0.2	11.1	0.1	98	1.76	0.147	8	15	0.41	56	0.105	2	1.02	0.283	0.29	2.2	0.05	2	0.6	2.89	3	2.2
184258	0.1	2.8	<.1	170	1.16	0.192	5	29.2	1.33	163	0.186	20	1.75	0.097	0.71	2.1	0.02	6.5	0.2	0.24	9	0.5
184259	0.1	3	0.1	101	1.41	0.156	5	105.2	0.94	80	0.19	4	1.87	0.238	0.78	0.4	<.01	5.8	0.2	1.11	6	0.8
184260	0.2	8.4	0.1	92	1.25	0.143	4	64.5	0.78	66	0.174	88	1.73	0.182	0.7	1.3	0.01	3	0.2	1.73	7	1.1
184261	0.2	3.9	<.1	126	1.4	0.216	3	33.5	0.83	27	0.166	7	1.6	0.238	0.65	0.3	0.01	4.9	0.2	1.78	6	1.4
184262	0.2	6.5	<.1	143	1.06	0.147	5	92.6	1.57	127	0.223	4	2.05	0.216	1.34	0.6	<.01	4.4	0.4	1.89	8	1.2
184263	0.1	2.6	<.1	192	0.76	0.196	6	25.1	1.39	246	0.254	1	1.51	0.1	1.19	0.4	0.03	5.5	0.3	0.16	9	<.5
184264	0.1	5.7	0.1	161	0.83	0.165	7	30.4	1.78	82	0.191	3	1.69	0.116	1.3	1.1	0.01	3.4	0.9	1.76	8	2.3
184265	0.2	13.5	0.2	95	1.54	0.161	5	41.6	0.89	69	0.182	7	1.57	0.292	0.62	0.4	<.01	3.1	0.2	1.91	5	3.8
184266	0.4	5	0.2	55	1.25	0.163	4	18.4	0.32	47	0.136	14	0.98	0.164	0.16	1.6	0.01	2.5	0.2	2.2	3	6.2
184401	<.1	0.5	0.1	123	1.23	0.15	6	41.5	0.81	391	0.225	4	1.81	0.123	0.6	0.1	0.01	2.7	0.1	0.32	5	<.5
184402	<.1	0.3	0.1	119	2.64	0.205	8	53	0.99	83	0.193	9	2.95	0.071	0.31	0.2	<.01	2.3	<.1	1.25	8	1.6
185309	<.1	0.7	0.1	140	1.44	0.209	9	57.3	1.3	114	0.214	6	2.08	0.161	0.78	1.2	0.01	4.5	0.1	1.79	7	<.5
185310	<.1	0.4	<.1	144	1.35	0.209	10	24	1.13	307	0.265	5	1.86	0.098	0.99	0.3	<.01	3.7	0.1	<.05	7	<.5
185311	0.1	0.6	<.1	182	1.19	0.22	11	27	1.29	623	0.33	21	2.14	0.109	1.58	0.3	<.01	4	0.1	<.05	9	<.5
185312	0.2	1.8	0.2	74	0.86	0.111	5	6	0.94	73	0.159	7	1.17	0.121	0.53	1.4	0.01	1.6	<.1	2.34	5	<.5
185317	0.1	2.6	0.2	159	0.57	0.159	8	60.9	1.39	286	0.256	2	1.6	0.082	1.56	0.2	<.01	3.5	0.6	0.06	8	<.5
185318	0.3	1.5	<.1	105	1.4	0.146	3	33	1.86	96	0.33	2	2.42	0.054	0.73	1	0.01	2.8	0.1	<.05	6	<.5
185319	<.1	4.8	0.2	212	1.18	0.211	6	41.8	1.46	262	0.292	4	2.08	0.111	1.38	0.3	<.01	5.8	0.3	0.76	11	0.8
185320	0.2	3.6	0.1	57	1.49	0.16	2	142.8	0.72	64	0.09	4	0.99	0.128	0.18	1.1	0.01	3.5	0.1	1.11	3	1.3
185321	0.1	0.7	0.2	136	2.85	0.227	7	118.4	1.2	144	0.194	10	2.8	0.235	0.77	0.2	<.01	3.3	0.1	1.47	8	0.5

2008 Rock Geochemical Results - Hen Property

Sample Number	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)
185322	0.2	1.9	0.4	122	2.49	0.132	5	6.9	0.48	139	0.178	9	1.88	0.103	0.24	1.4	0.05	6.1	<.1	0.69	7	<.5
185323	<.1	2.5	0.1	253	2.28	0.184	5	10.2	1.18	245	0.423	4	2.37	0.147	1.22	0.4	0.01	5.3	0.1	0.95	9	0.5
185324	0.1	5.6	<.1	137	2.3	0.186	9	21.4	0.51	125	0.136	25	1.89	0.343	0.33	1.7	0.01	3.7	<.1	<.05	6	<.5
185325	0.2	5.7	0.2	63	5.87	0.267	9	10.8	0.38	195	0.129	10	1.91	0.238	0.21	0.3	<.01	2.3	<.1	0.06	6	<.5
185326	0.2	4	0.1	126	1.27	0.175	5	52.7	1.31	122	0.214	5	1.9	0.189	1.02	0.9	<.01	4.2	0.2	1.79	7	2.2
185327	0.3	6.9	0.2	169	1.76	0.213	4	33.1	1.42	99	0.199	5	2.17	0.198	0.93	0.2	<.01	6.6	0.2	0.68	8	<.5
185328	0.1	5	0.1	123	1.18	0.155	5	112.3	1.86	70	0.209	6	2.29	0.17	1.45	0.7	0.01	4.2	0.3	1.97	9	1.4
185329	0.1	3.7	0.1	48	4.1	0.05	3	155.6	0.96	121	0.082	7	1.03	0.074	0.04	0.1	<.01	7.8	<.1	0.26	2	<.5
185330	0.1	2.8	0.1	105	2.05	0.2	8	215.2	2.13	53	0.185	3	1.55	0.119	0.98	0.8	0.01	4.3	0.1	2.97	5	<.5
185331	0.3	3	<.1	178	1.34	0.192	6	54.7	1.71	186	0.255	10	2.12	0.08	1.45	0.4	0.01	5.8	0.2	<.05	8	<.5
185332	0.3	2.8	0.1	169	0.96	0.205	9	68.5	2.03	509	0.333	2	2.32	0.106	2.24	2.4	0.02	5.3	0.4	0.07	9	<.5
185333	0.9	4.2	2.5	191	0.94	0.207	8	51.4	1.66	442	0.338	2	1.99	0.121	1.75	0.9	0.01	5.9	0.6	0.14	10	0.6
185334	0.5	52.9	<.1	90	7.07	0.218	9	67.8	2.07	134	0.057	12	1.41	0.013	0.66	0.6	0.08	10	0.2	0.16	4	<.5
185335	<.1	1.2	2	149	0.18	0.121	5	39.5	0.16	35	0.101	<.1	0.36	0.048	0.45	0.4	0.08	13.2	0.2	6.5	3	14.5
185336	0.1	2.2	0.3	167	1.07	0.182	5	51.2	1.32	74	0.196	3	1.36	0.056	0.76	1.3	<.01	4.7	0.2	2.61	8	22.5
185337	0.1	1.5	0.1	100	1.21	0.16	7	15.7	0.55	87	0.17	4	0.91	0.129	0.35	0.4	0.02	4.9	0.1	0.89	4	1.2
185338	0.1	1.7	<.1	47	1.84	0.158	2	208.9	1.41	125	0.076	4	1.36	0.243	0.29	1.1	<.01	4.1	0.1	0.85	3	1
185339	0.2	0.7	<.1	72	1.41	0.138	3	89.6	1.28	19	0.317	8	1.93	0.042	0.13	0.5	0.01	3.1	0.1	<.05	5	<.5
185340	0.2	2.6	0.2	113	1.39	0.173	3	333.3	1.27	164	0.164	3	1.64	0.252	0.94	0.8	<.01	4.1	0.2	1.24	5	0.5
185341	0.1	0.3	<.1	62	0.36	0.089	4	15.6	0.33	107	0.093	1	0.5	0.08	0.22	0.1	0.01	1.7	<.1	<.05	2	<.5
493145	<.01	0.5	<.01	108	1.30	0.162	5	67	1.60	245	0.216	<.20	2.04	0.313	0.98	0.1	<.01	3.8	<.01	1.05	5	0.5
493146	<.01	3.1	<.01	6	0.04	0.004	9	7	0.02	21	0.018	<.20	0.11	0.047	0.05	0.9	<.01	0.4	<.01	<.005	<.1	<.05
493147	0.1	1.9	<.01	28	0.24	0.044	6	16	0.22	68	0.068	<.20	0.39	0.055	0.12	0.6	<.01	2.3	<.01	0.29	1	2.0
493148	0.6	2.7	<.01	32	3.16	0.082	7	14	0.34	52	0.077	<.20	1.70	0.156	0.27	0.5	0.01	2.0	0.2	0.87	4	1.2
493149	0.4	3.4	<.01	34	1.35	0.060	4	7	0.42	44	0.106	<.20	0.54	0.080	0.29	0.7	<.01	2.0	0.3	1.83	2	2.3
493150	0.3	0.7	<.01	59	2.31	0.043	5	16	0.40	75	0.125	<.20	2.51	0.160	0.24	0.3	<.01	3.9	0.1	1.50	6	4.1
493351	0.3	<.01	<.01	32	1.65	0.087	3	63	0.61	52	0.065	<.20	0.76	0.041	0.16	0.2	<.01	1.4	<.01	2.45	2	3.5
493352	<.01	<.01	<.01	58	1.28	0.107	3	29	1.10	146	0.122	<.20	1.68	0.125	0.76	0.2	<.01	1.7	0.2	1.14	4	1.0
493353	0.1	<.01	<.01	32	1.15	0.089	3	73	0.96	144	0.071	<.20	1.29	0.057	0.35	<.01	<.01	1.6	<.01	0.74	3	0.9
493354	<.01	0.8	<.01	75	4.91	0.078	1	183	1.15	177	0.155	<.20	1.62	0.049	1.23	0.2	<.01	1.0	<.01	<.005	5	<.05
493355	<.01	0.8	<.01	141	0.84	0.142	6	15	1.36	303	0.265	<.20	2.03	0.066	1.85	0.3	<.01	1.9	<.01	<.005	9	<.05
493356	0.2	0.4	<.01	21	1.42	0.080	3	3	0.41	220	0.063	<.20	0.74	0.073	0.09	0.3	<.01	0.7	<.01	0.35	2	<.05
493357	0.1	0.3	<.01	149	2.00	0.194	5	48	1.70	159	0.210	<.20	1.73	0.086	1.33	0.2	<.01	2.0	<.01	1.87	7	0.6
493358	<.01	0.8	<.01	136	1.87	0.216	4	46	1.43	317	0.234	<.20	2.10	0.108	1.35	0.1	0.02	2.6	<.01	0.15	8	<.05
493359	0.2	0.2	<.01	112	3.24	0.073	4	30	1.27	16	0.154	<.20	3.55	0.007	0.01	0.2	0.02	4.7	<.01	0.34	13	2.0
493360	0.1	8.6	0.1	95	0.94	0.191	4	6	0.77	105	0.130	<.20	1.04	0.094	0.55	4.8	0.02	1.8	0.3	0.80	5	1.6
493361	<.01	1.0	0.2	160	0.64	0.084	4	11	0.99	103	0.161	<.20	1.19	0.053	0.50	0.5	0.01	3.3	0.2	1.01	10	2.7
493362	0.1	3.5	0.5	56	1.55	0.114	3	180	1.44	209	0.123	<.20	1.29	0.042	0.79	0.3	<.01	2.2	0.2	1.42	6	<.05
493363	0.1	2.9	0.2	102	0.79	0.123	4	10	0.37	38	0.116	<.20	0.69	0.081	0.33	0.3	<.01	1.3	0.1	0.79	4	0.9
493364	0.3	1.4	0.4	49	3.88	0.111	5	6	0.15	107	0.050	<.20	0.95	0.247	0.16	1.9	0.02	1.5	<.01	0.89	3	1.4
493487	0.2	0.9	0.2	82	0.93	0.149	3	5	0.94	141	0.086	<.20	1.19	0.082	0.60	0.2	<.01	2.2	0.3	1.29	6	1.1
493488	<.01	0.3	<.01	161	1.28	0.109	4	46	1.39	140	0.183	<.20	2.41	0.129	1.09	0.3	<.01	3.2	0.4	1.35	11	<.05
493489	0.3	0.6	0.2	41	0.67	0.096	5	5	0.29	36	0.072	<.20	0.72	0.109	0.17	0.2	0.01	1.1	<.01	1.04	4	1.0
493490	<.01	1.0	<.01	60	0.96	0.093	2	9	0.40	50	0.139	<.20	1.00	0.128	0.25	0.3	<.01	1.5	<.01	0.70	4	0.8
493491	0.2	14.0	<.01	86	2.16	0.086	6	120	2.40	47	0.012	<.20	1.16	0.027	0.22	0.1	0.02	10.1	0.1	<.05	4	0.6

2008 Rock Geochemical Results - Hen Property

Sample Number	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)
493492	<0.1	4.9	<0.1	131	0.82	0.122	4	28	1.36	316	0.191	<20	1.72	0.085	0.95	1.7	0.02	4.2	0.4	0.55	9	1.1
493493	0.1	2.2	<0.1	71	2.67	0.099	3	3	0.22	27	0.091	<20	3.30	0.322	0.27	1.5	0.03	2.4	<0.1	1.02	9	<0.5
493494	0.3	4.0	<0.1	94	2.22	0.138	5	22	0.93	141	0.139	<20	2.16	0.457	0.59	0.6	0.03	3.2	<0.1	<0.05	6	<0.5
493495	<0.1	<0.1	<0.1	41	0.83	0.109	2	59	1.04	57	0.070	<20	1.18	0.079	0.12	0.2	0.02	2.2	<0.1	0.22	3	0.9
493496	<0.1	1.5	<0.1	59	2.38	0.100	4	31	1.08	135	0.106	<20	0.89	0.104	0.41	0.3	<0.01	2.3	<0.1	1.45	3	<0.5
493500	0.7	2.2	<0.1	116	0.88	0.133	6	65	0.76	160	0.206	<20	1.46	0.113	0.94	0.2	<0.01	1.4	0.4	0.77	6	0.7
659660	0.1	0.2	<0.1	180	1.49	0.253	17	8	1.41	247	0.145	<20	1.83	0.034	1.04	<0.1	<0.01	7.6	<0.1	<0.05	7	<0.5
659661	0.1	0.1	<0.1	118	2.14	0.128	2	57	1.71	211	0.202	<20	2.41	0.111	1.50	0.1	<0.01	3.0	0.3	0.16	6	<0.5
659662	0.2	<0.1	<0.1	120	2.13	0.074	3	35	1.49	414	0.222	<20	4.32	0.373	1.34	<0.1	<0.01	3.3	0.2	0.63	9	0.7
659663	<0.1	0.1	<0.1	61	1.31	0.128	7	72	0.83	88	0.152	<20	1.36	0.112	0.55	<0.1	0.01	2.7	<0.1	0.14	4	<0.5
659664	0.1	0.2	<0.1	67	5.79	0.083	4	84	1.41	233	0.184	<20	2.04	0.163	0.85	<0.1	<0.01	3.4	0.1	0.10	5	<0.5
659665	0.6	3.3	0.1	126	0.88	0.123	4	51	1.35	71	0.155	<20	1.73	0.099	0.89	0.2	0.02	2.5	0.4	2.45	8	<0.5
708651	<0.1	<0.1	<0.1	56	2.75	0.181	4	55	0.96	290	0.109	<20	1.77	0.181	0.61	<0.1	<0.01	2.4	0.1	<0.05	5	<0.5
708652	0.2	2.8	<0.1	97	4.97	0.124	8	21	0.96	467	0.287	24	1.66	0.107	0.91	0.3	<0.01	3.9	0.3	0.37	5	1.1
708653	<0.1	0.3	<0.1	73	1.00	0.112	7	108	0.69	374	0.140	<20	1.45	0.110	0.45	0.4	<0.01	1.4	<0.1	<0.05	4	<0.5
826522	<0.1	<0.1	<0.1	82	1.65	0.161	11	22	0.97	169	0.152	<20	2.31	0.237	0.74	<0.1	<0.01	2.8	0.1	0.17	6	0.7
826523	<0.1	0.3	<0.1	102	0.87	0.135	5	9	1.03	83	0.104	<20	1.52	0.047	0.32	0.2	0.01	2.0	<0.1	0.09	6	<0.5
828501	<0.1	0.7	<0.1	69	1.29	0.091	4	33	0.76	141	0.215	<20	1.61	0.189	0.42	0.1	<0.01	3.0	<0.1	0.80	5	1.7
828502	<0.1	0.4	0.1	84	1.74	0.105	3	37	1.52	162	0.188	<20	3.04	0.342	0.50	<0.1	<0.01	3.4	0.2	0.14	7	<0.5
828503	1.7	<0.1	<0.1	73	1.96	0.135	3	184	2.10	253	0.183	<20	1.80	0.138	0.98	<0.1	<0.01	2.3	<0.1	0.89	5	0.5
828504	<0.1	0.7	<0.1	138	0.94	0.109	7	34	1.43	530	0.325	<20	2.99	0.279	1.58	0.1	<0.01	5.4	0.3	0.13	9	2.1
828505	<0.1	0.7	<0.1	79	1.01	0.078	4	35	0.74	298	0.172	<20	1.88	0.136	0.56	0.3	<0.01	3.9	<0.1	0.14	7	1.5
853904	0.8	0.6	<0.1	48	1.27	0.074	1	92	0.99	54	0.075	<20	1.61	0.100	0.15	<0.1	<0.01	3.0	<0.1	0.06	4	<0.5
853905	0.2	<0.1	<0.1	85	3.51	0.117	2	7	0.86	424	0.170	<20	2.32	0.157	0.72	<0.1	<0.01	2.8	0.1	<0.05	5	<0.5
853906	<0.1	1.1	<0.1	119	1.52	0.158	14	20	1.06	386	0.393	<20	2.49	0.203	1.18	<0.1	<0.01	3.1	0.2	<0.05	8	<0.5

APPENDIX H
GEOCHEMICAL SURVEY SOIL, SILT AND ROCK ACME LAB
CERTIFICATES

ALLNORTH CONSULTANTS LIMITED



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: August 01, 2008
 Page: 1 of 17

CERTIFICATE OF ANALYSIS

VAN08007341.1

CLIENT JOB INFORMATION

Project: Hen
 Shipment ID:
 P.O. Number
 Number of Samples: 475

SAMPLE DISPOSAL

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
SS80	454	Dry at 60C sieve 100g to -80 mesh		
Dry at 60C	454	Dry at 60C		
RJSV	454	Save all or part of soil reject fraction		
1DX	454	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed
DIS-RJT	454	Warehouse handling / Disposition of reject		

ADDITIONAL COMMENTS

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

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

CC: Bob Lane
 D. Ridley



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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

2 of 17

Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	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
59000E 66600N	Soil	1.0	68.0	4.0	71	0.2	172.8	33.8	707	4.79	12.8	0.6	2.8	0.6	36	0.4	0.4	<0.1	106	0.58	0.062		
59000E 66650N	Soil	1.3	91.6	6.5	79	0.2	67.0	26.1	662	5.31	20.6	0.6	3.2	0.7	33	0.3	1.3	0.1	158	0.53	0.129		
59000E 66700N	Soil	0.6	96.7	3.4	78	0.1	54.8	31.6	548	5.65	10.2	0.6	2.8	1.1	23	0.2	0.5	<0.1	176	0.58	0.167		
59000E 66750N	Soil	1.5	74.7	7.0	73	0.3	62.7	18.4	440	4.34	19.4	0.6	2.5	0.4	20	0.9	1.0	0.1	116	0.29	0.079		
59000E 66800N	Soil	1.3	70.9	5.7	75	0.2	78.2	23.8	591	4.82	17.6	0.5	5.8	0.5	21	0.4	1.2	0.2	126	0.33	0.079		
59000E 66850N	Soil	1.6	85.5	6.9	81	0.4	62.3	23.8	869	5.38	21.8	0.7	3.7	0.7	33	0.5	1.5	0.1	169	0.65	0.064		
59000E 66900N	Soil	2.5	287.5	8.4	80	0.9	231.3	30.8	866	5.24	41.5	2.5	7.6	0.8	46	1.2	2.5	0.1	128	0.78	0.052		
59000E 66950N	Soil	1.5	56.0	8.0	55	0.3	30.9	10.0	377	3.67	19.1	0.5	3.5	0.3	14	0.3	1.1	0.1	100	0.16	0.144		
59000E 67000N	Soil	1.6	84.4	6.9	63	0.1	92.5	37.5	648	5.81	17.7	0.5	2.6	0.6	32	0.2	2.8	0.1	106	0.49	0.131		
59000E 67050N	Soil	1.1	80.9	7.6	182	0.3	37.4	22.6	797	4.73	135.3	0.5	6.1	0.5	26	0.5	1.6	0.1	148	0.35	0.179		
59000E 67100N	Soil	1.9	95.5	7.6	113	0.4	59.9	24.7	801	5.08	115.8	0.7	8.1	0.6	35	1.1	1.6	0.1	145	0.37	0.062		
59000E 67150N	Soil	1.2	112.1	5.5	125	0.2	51.1	28.2	764	4.98	55.5	0.6	3.1	1.1	48	0.3	1.9	<0.1	159	0.57	0.097		
59000E 67200N	Soil	1.4	48.4	6.0	145	0.3	31.7	20.4	453	5.58	13.6	0.3	1.7	0.5	22	0.6	1.3	<0.1	171	0.32	0.095		
59000E 67250N	Soil	1.5	43.2	7.1	89	0.2	27.8	16.6	407	3.52	11.6	0.4	3.4	0.9	15	0.2	0.5	0.1	106	0.20	0.105		
59000E 67300N	Soil	1.3	54.3	8.6	131	0.1	44.9	19.3	486	4.00	16.2	0.4	4.5	0.9	19	0.9	0.8	<0.1	109	0.22	0.139		
59000E 67350N	Soil	1.4	49.9	8.0	139	0.4	41.2	19.2	451	4.23	13.0	0.6	3.5	0.7	34	0.6	0.8	0.1	120	0.28	0.092		
59000E 67400N	Soil	1.3	36.0	7.7	340	0.2	35.9	14.8	477	3.64	12.5	0.4	9.1	0.7	24	1.1	0.8	0.1	100	0.26	0.071		
59000E 67450N	Soil	1.7	75.4	13.6	102	<0.1	51.9	16.8	405	4.18	19.1	0.5	4.8	1.4	21	0.3	0.9	<0.1	120	0.18	0.123		
59000E 67500N	Soil	1.6	42.4	7.1	104	0.2	39.5	14.4	474	4.00	10.2	0.5	2.7	0.5	24	0.3	0.5	0.1	117	0.29	0.058		
59000E 67550N	Soil	1.5	66.7	7.1	79	<0.1	33.2	14.7	308	4.02	17.7	0.6	4.5	0.9	13	0.2	0.8	0.1	112	0.14	0.107		
59000E 67600N	Soil	1.6	46.4	7.8	106	0.2	35.8	14.9	581	3.58	23.2	0.5	1.3	0.2	37	0.3	0.7	0.1	94	0.32	0.072		
58800E 66450N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
58800E 66500N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
58800E 66550N	Soil	1.6	74.1	6.1	88	0.1	68.6	22.4	649	4.06	19.3	0.7	1.9	1.0	37	0.4	1.3	0.1	115	0.43	0.087		
58800E 66600N	Soil	0.9	61.0	4.8	96	0.1	161.6	33.9	749	5.17	15.4	0.5	9.1	0.7	39	0.3	1.1	<0.1	121	0.55	0.070		
58800E 66650N	Soil	1.3	90.3	6.3	96	0.2	71.2	24.9	543	4.81	22.6	0.6	5.5	0.9	30	0.5	1.2	0.1	126	0.36	0.166		
58800E 66700N	Soil	1.3	54.1	6.6	97	0.6	60.1	20.4	488	4.56	13.3	0.5	1.6	0.6	37	0.5	1.2	0.1	106	0.56	0.152		
58800E 66750N	Soil	0.6	127.5	4.9	92	<0.1	40.3	34.8	734	5.86	22.1	0.8	5.1	1.2	25	0.2	1.0	<0.1	198	0.58	0.157		
58800E 66800N	Soil	1.2	98.0	6.4	90	0.2	69.4	25.4	638	4.32	23.1	0.9	8.2	1.0	39	0.4	1.1	0.1	127	0.49	0.057		
58800E 66850N	Soil	1.3	86.7	5.3	64	<0.1	61.9	26.0	527	3.92	23.9	0.4	3.7	1.3	30	0.2	1.1	<0.1	116	0.36	0.118		



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

2 of 17

Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method Analyte Unit MDL	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	
59000E 66600N	Soil	5	353	3.66	168	0.222	<20	4.12	0.022	0.37	0.1	0.04	4.0	0.1	<0.05	10	0.8
59000E 66650N	Soil	6	125	1.64	198	0.215	<20	2.82	0.026	0.53	0.2	0.03	4.5	0.2	<0.05	9	<0.5
59000E 66700N	Soil	8	64	1.60	460	0.266	<20	2.23	0.023	0.78	0.2	0.02	2.8	<0.1	<0.05	7	<0.5
59000E 66750N	Soil	5	103	1.11	76	0.146	<20	2.42	0.014	0.18	0.2	0.07	2.9	0.1	<0.05	7	<0.5
59000E 66800N	Soil	5	156	1.68	117	0.178	<20	2.92	0.025	0.29	0.1	0.05	3.2	0.1	<0.05	8	<0.5
59000E 66850N	Soil	4	76	1.24	153	0.231	<20	2.47	0.014	0.31	0.2	0.05	4.1	0.1	<0.05	9	0.5
59000E 66900N	Soil	11	136	1.34	248	0.171	<20	2.94	0.017	0.41	0.3	0.08	7.4	0.2	<0.05	8	0.9
59000E 66950N	Soil	5	61	0.68	103	0.134	<20	1.91	0.011	0.15	0.2	0.05	2.0	<0.1	<0.05	9	<0.5
59000E 67000N	Soil	4	206	1.87	179	0.163	<20	2.57	0.033	0.16	0.3	0.03	3.1	<0.1	<0.05	7	<0.5
59000E 67050N	Soil	5	63	1.38	126	0.204	<20	2.60	0.016	0.17	0.8	0.05	3.6	0.1	<0.05	10	<0.5
59000E 67100N	Soil	7	92	1.37	125	0.211	<20	2.61	0.019	0.43	0.3	0.05	4.2	0.3	<0.05	10	0.7
59000E 67150N	Soil	5	75	1.72	137	0.236	<20	3.20	0.020	0.55	0.3	0.05	4.3	0.3	<0.05	10	<0.5
59000E 67200N	Soil	2	53	1.44	80	0.248	<20	2.95	0.012	0.24	0.2	0.04	2.9	0.1	<0.05	11	<0.5
59000E 67250N	Soil	4	48	0.78	65	0.174	<20	2.82	0.015	0.08	0.3	0.04	2.4	<0.1	<0.05	8	<0.5
59000E 67300N	Soil	4	75	1.21	95	0.152	<20	3.15	0.013	0.13	0.3	0.04	2.8	0.1	<0.05	9	<0.5
59000E 67350N	Soil	5	70	1.22	76	0.161	<20	3.07	0.012	0.13	0.2	0.05	3.1	0.1	<0.05	9	0.8
59000E 67400N	Soil	4	58	0.95	86	0.166	<20	2.61	0.014	0.09	0.2	0.05	2.8	<0.1	<0.05	9	<0.5
59000E 67450N	Soil	5	77	1.28	95	0.179	<20	3.76	0.013	0.16	0.3	0.06	3.8	0.1	<0.05	8	0.5
59000E 67500N	Soil	4	68	1.14	98	0.193	<20	2.54	0.015	0.11	0.2	0.06	2.7	<0.1	<0.05	9	<0.5
59000E 67550N	Soil	4	55	0.82	71	0.155	<20	3.21	0.011	0.10	0.3	0.06	2.8	0.1	<0.05	9	<0.5
59000E 67600N	Soil	4	65	0.95	127	0.129	<20	2.07	0.012	0.14	0.1	0.06	2.0	<0.1	<0.05	8	0.6
58800E 66450N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
58800E 66500N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
58800E 66550N	Soil	7	113	1.62	135	0.166	<20	2.70	0.022	0.35	0.1	0.03	4.2	0.3	<0.05	8	<0.5
58800E 66600N	Soil	5	371	3.24	166	0.199	<20	3.57	0.013	0.38	0.2	0.03	3.3	0.1	<0.05	10	<0.5
58800E 66650N	Soil	5	105	1.76	165	0.162	<20	3.30	0.015	0.36	0.3	0.04	4.3	0.2	<0.05	9	0.8
58800E 66700N	Soil	3	106	1.27	129	0.160	<20	2.37	0.014	0.17	0.3	0.08	2.6	<0.1	<0.05	9	<0.5
58800E 66750N	Soil	6	59	2.11	495	0.344	<20	3.26	0.017	1.27	0.2	0.02	3.1	<0.1	<0.05	10	<0.5
58800E 66800N	Soil	7	118	1.56	155	0.205	<20	2.75	0.018	0.37	0.2	0.03	4.3	0.2	<0.05	8	<0.5
58800E 66850N	Soil	6	101	1.57	160	0.162	<20	2.55	0.020	0.40	0.2	0.02	3.3	0.2	<0.05	7	<0.5

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client: **Happy Creek Minerals Ltd.**

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

Project: Hen

Report Date: August 01, 2008

Page: 3 of 17 Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

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	
58800E 66900N	Soil	0.9	115.9	4.6	61	<0.1	53.6	26.1	633	4.29	25.3	0.9	8.1	1.6	42	0.1	1.2	<0.1	139	0.61	0.100
58800E 66950N	Soil	1.0	62.1	7.2	91	0.2	54.6	25.4	452	4.74	28.6	0.5	3.0	0.6	29	0.3	1.2	<0.1	134	0.39	0.093
58800E 67000N	Soil	1.1	60.4	5.4	89	0.2	38.3	20.2	534	4.39	30.1	0.5	3.9	0.6	30	0.2	0.9	<0.1	126	0.44	0.081
58800E 67050N	Soil	1.0	65.6	6.7	118	<0.1	49.9	21.3	380	4.96	22.8	0.4	2.5	0.9	22	0.3	1.0	<0.1	130	0.30	0.134
58800E 67100N	Soil	1.1	83.9	6.4	98	0.1	49.8	22.8	551	4.29	39.9	0.5	3.9	0.7	26	0.3	1.4	<0.1	121	0.42	0.121
58800E 67150N	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.
58800E 67200N	Soil	1.2	57.5	11.9	157	0.2	22.8	16.4	571	3.75	11.5	0.3	5.3	0.7	19	0.8	0.6	0.1	104	0.29	0.174
58800E 67250N	Soil	1.1	52.1	13.2	116	0.2	27.6	14.4	545	3.92	16.7	0.4	4.1	0.5	28	0.5	0.8	0.1	104	0.35	0.137
58800E 67300N	Soil	0.9	55.1	7.2	253	0.3	39.5	18.8	454	3.62	17.8	0.3	2.5	0.6	18	1.4	0.8	<0.1	109	0.25	0.148
58800E 67350N	Soil	1.0	38.6	6.3	124	0.1	45.4	14.1	251	3.07	14.4	0.3	2.2	0.8	16	0.8	0.8	<0.1	88	0.18	0.100
58800E 67400N	Soil	1.5	89.0	8.3	105	0.3	59.0	23.0	644	4.03	24.9	0.8	4.4	0.7	23	0.8	1.0	<0.1	124	0.25	0.049
58800E 67450N	Soil	1.3	96.3	10.3	97	0.2	66.0	23.3	896	4.06	20.2	0.7	2.9	0.6	37	0.7	0.9	0.1	121	0.55	0.065
58800E 67500N	Soil	1.4	89.4	8.3	124	0.3	65.5	27.0	721	4.63	120.4	0.6	6.3	0.6	33	0.6	1.2	0.1	133	0.55	0.063
58800E 67550N	Soil	1.2	29.1	9.9	112	0.1	30.5	18.1	766	4.09	13.9	0.4	<0.5	0.4	18	0.3	0.6	0.1	112	0.22	0.094
58800E 67600N	Soil	1.2	56.2	13.7	116	0.2	41.8	23.7	835	4.32	43.0	0.5	2.7	0.6	28	0.6	1.0	0.1	120	0.33	0.068
58800E 67650N	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.
58800E 67700N	Soil	1.6	28.8	9.8	86	0.1	18.0	8.5	319	4.21	37.3	0.5	1.0	0.4	20	0.2	1.4	0.2	108	0.19	0.071
58800E 67750N	Soil	1.6	48.9	9.8	76	<0.1	32.7	12.4	284	5.06	17.2	0.5	1.9	0.5	29	0.3	2.1	0.2	122	0.21	0.132
58800E 67800N	Soil	1.3	38.3	8.4	79	0.2	16.4	10.8	297	4.55	26.4	0.5	1.2	0.5	18	0.2	0.7	0.1	127	0.17	0.095
58600E 66500N	Soil	2.0	50.9	7.6	75	0.2	58.1	28.4	905	4.56	26.5	0.5	0.8	0.8	29	0.5	0.9	0.1	142	0.38	0.038
58600E 66550N	Soil	1.3	47.9	6.0	132	0.2	39.7	16.5	415	4.33	21.9	0.5	1.5	1.1	27	0.8	0.9	<0.1	117	0.31	0.234
58600E 66600N	Soil	1.4	87.7	7.3	114	0.2	82.1	29.1	1029	4.45	25.6	0.9	62.1	1.2	35	0.9	1.3	<0.1	132	0.52	0.048
58600E 66650N	Soil	1.0	102.2	3.1	86	0.2	25.3	17.6	435	5.72	14.6	1.1	<0.5	0.9	33	0.3	0.3	0.2	280	0.39	0.191
58600E 66700N	Soil	1.0	93.7	4.4	73	<0.1	55.1	25.5	393	4.58	19.8	0.6	3.1	1.7	42	0.2	1.0	<0.1	137	0.40	0.196
58600E 66750N	Soil	1.0	83.4	10.8	181	0.5	59.0	37.8	637	5.38	48.9	0.7	2.0	1.1	30	0.5	1.3	<0.1	152	0.39	0.145
58600E 66800N	Soil	0.9	57.4	20.6	240	0.3	31.8	29.7	723	5.61	50.2	0.4	1.4	1.2	22	0.6	2.1	<0.1	147	0.23	0.197
58600E 66850N	Soil	1.3	32.7	8.0	80	0.1	20.1	16.3	632	3.50	10.0	0.2	<0.5	0.6	23	0.2	0.6	<0.1	97	0.25	0.098
58600E 66900N	Soil	1.2	82.1	6.6	81	0.2	52.1	26.1	364	4.08	19.1	0.5	1.4	1.1	21	0.2	0.8	<0.1	106	0.31	0.104
58600E 66950N	Soil	1.6	77.4	5.1	92	<0.1	45.0	26.0	459	4.89	21.6	0.4	7.6	1.0	22	0.2	0.7	<0.1	132	0.32	0.115
58600E 67000N	Soil	1.6	50.7	6.0	78	0.1	40.6	17.6	358	5.03	23.2	0.5	2.1	0.9	24	0.5	0.9	<0.1	137	0.31	0.071

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client: **Happy Creek Minerals Ltd.**

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

Project: Hen

Report Date: August 01, 2008

Page: 3 of 17 Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method Analyte	Unit MDL	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	0.01	0.01	0.01	0.05	1	0.5	
58800E 66900N	Soil	8	112	1.68	237	0.210	<20	2.16	0.022	0.70	0.3	0.03	5.4	0.2	<0.05	7	<0.5
58800E 66950N	Soil	5	119	1.55	154	0.212	<20	2.70	0.018	0.32	0.3	0.05	2.9	0.1	<0.05	9	<0.5
58800E 67000N	Soil	4	75	1.41	150	0.201	<20	2.88	0.015	0.23	0.3	0.06	3.3	<0.1	<0.05	9	<0.5
58800E 67050N	Soil	4	86	1.47	200	0.199	<20	3.19	0.015	0.16	0.5	0.04	2.9	<0.1	<0.05	9	<0.5
58800E 67100N	Soil	5	90	1.45	120	0.165	<20	2.87	0.016	0.29	0.3	0.06	3.0	0.2	<0.05	8	0.9
58800E 67150N	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.
58800E 67200N	Soil	3	44	0.91	90	0.159	<20	2.44	0.012	0.10	0.3	0.04	1.9	<0.1	<0.05	8	<0.5
58800E 67250N	Soil	4	50	1.03	146	0.158	<20	2.14	0.013	0.15	0.3	0.06	2.1	<0.1	<0.05	9	<0.5
58800E 67300N	Soil	4	56	1.20	132	0.122	<20	2.84	0.012	0.17	0.3	0.04	2.6	0.1	0.05	8	0.6
58800E 67350N	Soil	4	70	0.94	110	0.118	<20	2.07	0.022	0.11	0.2	0.02	2.0	<0.1	<0.05	7	<0.5
58800E 67400N	Soil	6	83	1.33	97	0.149	<20	2.88	0.014	0.31	0.2	0.02	3.3	0.2	<0.05	9	0.5
58800E 67450N	Soil	6	89	1.49	151	0.135	<20	2.92	0.015	0.36	0.1	0.03	3.6	0.2	<0.05	8	0.8
58800E 67500N	Soil	5	76	1.42	131	0.140	<20	3.16	0.018	0.29	0.3	0.03	3.1	0.2	<0.05	10	0.6
58800E 67550N	Soil	3	58	0.85	123	0.127	<20	2.09	0.013	0.12	0.2	0.05	1.9	<0.1	<0.05	10	<0.5
58800E 67600N	Soil	5	60	1.04	106	0.140	<20	2.72	0.015	0.16	0.2	0.02	2.7	0.1	<0.05	10	<0.5
58800E 67650N	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.
58800E 67700N	Soil	3	44	0.57	92	0.142	<20	2.05	0.016	0.10	0.2	0.05	1.5	<0.1	<0.05	11	0.6
58800E 67750N	Soil	4	55	0.68	120	0.132	<20	2.48	0.012	0.14	0.4	0.10	1.9	<0.1	<0.05	11	0.6
58800E 67800N	Soil	3	36	0.73	72	0.138	<20	2.14	0.010	0.12	0.3	0.05	1.6	<0.1	<0.05	11	<0.5
58600E 66500N	Soil	4	108	1.58	160	0.181	<20	2.61	0.016	0.31	0.3	0.01	3.5	0.2	<0.05	9	<0.5
58600E 66550N	Soil	5	93	1.14	187	0.139	<20	2.80	0.013	0.26	0.3	0.03	3.1	0.1	<0.05	8	0.7
58600E 66600N	Soil	6	109	1.76	223	0.180	<20	2.53	0.020	0.70	0.2	0.01	5.0	0.3	<0.05	8	0.6
58600E 66650N	Soil	5	95	2.37	399	0.396	<20	3.13	0.016	1.41	<0.1	0.02	3.1	0.2	0.12	11	1.4
58600E 66700N	Soil	5	84	1.63	191	0.190	<20	2.62	0.021	0.58	0.2	0.01	3.7	0.1	<0.05	8	<0.5
58600E 66750N	Soil	5	83	1.40	197	0.258	<20	3.15	0.014	0.31	0.2	0.03	3.7	<0.1	<0.05	10	<0.5
58600E 66800N	Soil	3	64	1.29	258	0.277	<20	2.90	0.019	0.39	0.2	0.01	3.0	0.1	<0.05	11	<0.5
58600E 66850N	Soil	2	41	0.66	166	0.192	<20	1.41	0.015	0.15	0.2	0.03	1.5	<0.1	<0.05	9	<0.5
58600E 66900N	Soil	4	74	1.30	180	0.163	<20	2.71	0.016	0.22	0.2	0.02	2.4	<0.1	<0.05	8	<0.5
58600E 66950N	Soil	4	66	1.31	189	0.207	<20	3.03	0.027	0.18	0.3	0.03	3.3	<0.1	<0.05	9	<0.5
58600E 67000N	Soil	5	87	1.27	154	0.200	<20	3.19	0.013	0.17	0.4	0.04	3.0	<0.1	<0.05	9	0.5

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client: **Happy Creek Minerals Ltd.**

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

Project: Hen

Report Date: August 01, 2008

Page: 4 of 17 Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	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
58600E 67300N	Soil	1.9	77.1	7.5	102	0.2	50.2	21.5	830	3.95	18.5	0.5	2.7	0.5	16	0.5	0.8	<0.1	107	0.23	0.189		
58600E 67350N	Soil	2.0	77.6	8.3	136	0.4	57.7	25.4	733	4.25	85.3	0.6	2.6	0.7	34	0.9	1.6	0.1	137	0.72	0.095		
58600E 67400N	Soil	1.4	96.0	12.6	178	0.8	50.0	21.6	1098	3.62	110.4	0.6	1.7	0.5	41	3.5	1.4	<0.1	97	0.99	0.079		
58600E 67450N	Soil	1.6	53.1	27.6	199	0.4	34.8	18.8	736	4.43	18.9	0.4	1.7	0.9	47	0.6	1.4	0.1	112	0.42	0.166		
58600E 67500N	Soil	1.7	54.2	16.1	125	0.1	44.8	23.8	382	4.57	36.4	0.5	2.0	1.2	21	0.5	1.3	0.1	124	0.19	0.068		
58600E 67550N	Soil	1.4	52.1	10.0	128	0.1	51.2	25.3	497	4.54	35.7	0.4	1.0	0.6	20	0.3	0.8	0.1	131	0.17	0.100		
58600E 67600N	Soil	2.6	62.9	9.6	95	0.1	37.8	21.4	484	5.11	764.4	0.4	3.2	0.5	44	0.3	4.0	0.1	134	0.41	0.081		
58600E 67650N	Soil	2.6	63.0	6.7	51	0.1	14.2	8.2	339	4.94	12.7	0.3	5.8	0.4	26	0.2	1.9	<0.1	122	0.16	0.109		
58600E 67700N	Soil	2.4	53.3	9.4	63	0.2	26.4	10.6	350	4.04	21.6	0.5	4.2	0.3	17	0.5	1.3	0.1	120	0.14	0.059		
58400E 66500N	Soil	1.2	60.6	4.6	74	0.1	47.7	23.9	753	5.09	18.5	0.6	3.4	1.3	37	0.4	0.7	<0.1	164	0.59	0.070		
58400E 66550N	Soil	1.6	76.8	6.5	114	0.3	60.6	26.8	478	4.48	25.9	0.8	1.0	1.1	27	0.5	0.9	<0.1	135	0.44	0.089		
58400E 66600N	Soil	1.0	104.6	4.3	73	0.1	67.6	29.3	666	4.55	17.4	1.2	1.8	1.7	64	0.3	0.8	<0.1	150	0.72	0.138		
58400E 66650N	Soil	0.9	135.1	4.9	85	0.2	80.7	32.1	608	4.61	34.2	0.8	2.3	1.3	40	0.3	0.8	<0.1	151	0.46	0.082		
58400E 66700N	Soil	0.8	45.4	5.0	170	0.1	31.4	26.8	711	4.69	10.8	0.5	0.9	1.2	24	0.3	0.5	<0.1	149	0.38	0.293		
58400E 66750N	Soil	1.1	99.2	5.8	114	0.1	39.6	28.4	432	5.51	14.0	0.8	1.5	2.5	24	0.2	0.5	<0.1	188	0.38	0.237		
58400E 66800N	Soil	1.5	23.7	8.7	99	0.1	18.2	11.8	239	3.94	9.1	0.6	2.1	0.9	16	0.5	0.4	0.2	105	0.18	0.145		
58400E 66850N	Soil	1.0	51.1	5.0	46	0.1	49.7	18.6	285	2.78	24.1	0.4	3.7	1.2	29	<0.1	1.2	<0.1	80	0.33	0.102		
58400E 66900N	Soil	1.4	68.0	5.4	82	0.1	29.4	21.7	565	4.34	15.0	0.5	1.0	0.7	33	0.2	0.6	<0.1	139	0.31	0.185		
58400E 66950N	Soil	1.3	70.2	7.3	77	0.5	50.2	24.8	563	4.19	28.1	0.7	3.6	1.2	29	0.2	1.4	0.1	129	0.33	0.052		
58400E 67000N	Soil	1.1	47.7	6.8	103	0.2	33.9	20.4	374	4.90	33.7	0.3	1.3	0.7	34	0.1	0.8	0.1	155	0.26	0.203		
58400E 67050N	Soil	1.5	41.2	7.9	78	0.1	22.1	13.4	559	4.29	14.4	0.4	1.1	0.7	18	0.2	0.9	0.1	134	0.19	0.111		
58400E 67100N	Soil	1.5	24.7	6.8	70	0.2	40.0	11.0	344	3.30	9.8	0.4	2.6	0.6	27	0.2	0.5	0.1	78	0.28	0.189		
58400E 67150N	Soil	1.4	62.4	6.2	80	0.2	58.1	20.1	512	3.79	18.2	0.6	15.9	0.8	29	0.3	1.1	<0.1	105	0.32	0.099		
58400E 67200N	Soil	1.2	69.5	9.6	84	0.6	61.0	22.0	781	3.85	19.4	0.7	2.5	0.4	26	0.4	0.9	0.1	100	0.22	0.071		
58400E 67250N	Soil	1.8	109.4	8.3	103	0.7	68.6	27.3	812	4.53	16.6	0.9	2.1	0.6	32	0.9	0.9	0.1	118	0.26	0.071		
58400E 67300N	Soil	1.5	75.3	6.7	108	0.3	58.9	24.4	623	4.37	19.4	0.6	2.0	0.7	31	0.5	1.0	<0.1	128	0.33	0.085		
58400E 67350N	Soil	1.2	66.6	6.9	75	0.2	47.2	19.1	502	3.92	39.5	0.6	3.0	0.6	33	0.4	1.2	<0.1	120	0.51	0.063		
58400E 67400N	Soil	1.2	75.2	6.7	79	0.3	57.7	22.2	732	3.68	31.8	0.6	40.0	0.7	42	0.5	1.2	<0.1	117	0.80	0.091		
58400E 67450N	Soil	1.0	85.5	8.0	97	0.5	61.5	24.5	780	4.02	24.1	0.6	2.0	0.5	40	0.9	1.0	0.1	120	0.62	0.095		
58400E 67500N	Soil	1.4	53.4	10.5	119	0.2	41.4	20.7	660	4.10	23.7	0.5	1.9	0.5	31	0.4	1.0	0.1	117	0.31	0.098		

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

4 of 17

Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	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	0.05	1	0.5	
58600E 67300N	Soil			5	81	1.13	90	0.101	<20	2.65	0.015	0.31	0.2	0.03	2.8	0.2	<0.05	8	0.6
58600E 67350N	Soil			6	79	1.27	117	0.139	<20	2.51	0.019	0.31	0.4	0.02	4.0	0.1	<0.05	10	0.7
58600E 67400N	Soil			9	62	0.82	87	0.124	<20	1.97	0.018	0.15	1.1	0.02	3.9	<0.1	<0.05	8	<0.5
58600E 67450N	Soil			4	55	0.69	141	0.143	<20	2.88	0.020	0.15	2.2	0.05	2.2	0.1	<0.05	9	<0.5
58600E 67500N	Soil			4	75	1.02	110	0.183	<20	3.01	0.016	0.13	1.2	0.02	2.8	<0.1	<0.05	10	<0.5
58600E 67550N	Soil			3	70	0.89	100	0.170	<20	2.28	0.016	0.12	0.7	0.03	2.4	<0.1	<0.05	10	<0.5
58600E 67600N	Soil			4	74	1.05	135	0.138	<20	2.41	0.015	0.15	5.4	0.02	3.3	<0.1	0.07	10	<0.5
58600E 67650N	Soil			3	47	0.80	84	0.115	<20	2.38	0.014	0.10	0.4	0.04	2.0	0.1	0.08	9	0.5
58600E 67700N	Soil			4	61	0.75	97	0.136	<20	2.09	0.014	0.11	0.3	0.03	2.0	<0.1	0.05	9	0.7
58400E 66500N	Soil			6	74	1.93	333	0.208	<20	3.25	0.029	0.55	0.3	<0.01	7.0	0.2	<0.05	11	0.6
58400E 66550N	Soil			6	92	1.40	180	0.180	<20	2.71	0.016	0.40	0.4	0.01	4.0	0.1	<0.05	8	<0.5
58400E 66600N	Soil			7	93	1.84	276	0.243	<20	2.70	0.050	0.73	0.2	<0.01	4.2	0.2	<0.05	8	<0.5
58400E 66650N	Soil			5	132	1.91	213	0.218	<20	2.78	0.023	0.56	0.3	<0.01	4.0	0.2	<0.05	8	<0.5
58400E 66700N	Soil			5	60	1.26	316	0.235	<20	2.50	0.016	0.46	0.2	0.02	3.0	0.1	<0.05	9	<0.5
58400E 66750N	Soil			7	63	1.53	225	0.329	<20	3.23	0.013	0.47	0.6	0.01	3.3	0.1	<0.05	9	<0.5
58400E 66800N	Soil			5	47	0.48	120	0.190	<20	2.41	0.009	0.11	0.3	0.04	2.3	<0.1	<0.05	10	<0.5
58400E 66850N	Soil			7	65	0.80	95	0.131	<20	2.04	0.015	0.18	0.2	0.03	2.9	<0.1	<0.05	5	<0.5
58400E 66900N	Soil			4	50	0.93	144	0.229	<20	2.41	0.018	0.29	0.2	0.04	2.9	0.1	<0.05	8	<0.5
58400E 66950N	Soil			6	91	1.19	97	0.220	<20	2.59	0.012	0.24	0.2	0.04	4.0	0.1	<0.05	9	<0.5
58400E 67000N	Soil			2	63	0.93	153	0.316	<20	2.38	0.011	0.25	0.2	0.03	2.8	0.1	<0.05	10	<0.5
58400E 67050N	Soil			4	47	0.74	120	0.280	<20	2.09	0.011	0.08	0.2	0.04	2.2	<0.1	<0.05	10	<0.5
58400E 67100N	Soil			4	56	0.56	93	0.162	<20	2.21	0.010	0.06	0.2	0.06	2.0	<0.1	<0.05	8	<0.5
58400E 67150N	Soil			7	95	1.27	110	0.148	<20	2.43	0.020	0.22	0.4	0.03	3.6	0.1	<0.05	7	<0.5
58400E 67200N	Soil			7	105	1.20	133	0.133	<20	2.70	0.013	0.19	0.2	0.05	3.6	0.1	<0.05	9	0.7
58400E 67250N	Soil			6	118	1.60	157	0.152	<20	3.05	0.013	0.36	0.2	0.04	3.8	0.2	<0.05	9	0.6
58400E 67300N	Soil			6	94	1.41	126	0.158	<20	2.97	0.016	0.26	0.2	0.03	3.8	0.2	<0.05	8	<0.5
58400E 67350N	Soil			6	73	1.30	109	0.162	<20	2.74	0.025	0.26	0.2	0.03	3.7	0.2	<0.05	8	0.5
58400E 67400N	Soil			6	86	1.26	150	0.132	<20	2.28	0.023	0.41	0.2	0.04	3.8	0.2	<0.05	8	<0.5
58400E 67450N	Soil			7	86	1.20	139	0.131	<20	2.64	0.014	0.33	0.2	0.04	3.4	0.2	<0.05	8	<0.5
58400E 67500N	Soil			5	67	1.04	114	0.137	<20	2.61	0.016	0.15	0.2	0.04	2.7	<0.1	<0.05	9	<0.5



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

5 of 17

Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	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
58400E 67550N	Soil	1.5	53.4	10.7	116	0.2	39.0	20.4	639	4.03	25.9	0.4	1.9	0.5	31	0.4	1.0	0.1	115	0.30	0.086		
58400E 67600N	Soil	1.3	56.3	11.4	118	0.2	36.9	20.0	664	4.11	22.6	0.4	1.1	0.5	30	0.5	1.0	0.1	118	0.32	0.099		
58400E 67650N	Soil	2.0	65.4	13.7	141	0.1	59.4	17.9	399	4.73	28.7	0.7	1.8	0.6	27	0.4	1.7	0.1	119	0.35	0.072		
58400E 67700N	Soil	1.5	92.1	8.9	87	<0.1	50.5	26.1	453	5.00	31.3	0.4	2.8	1.0	279	0.2	2.8	<0.1	166	0.29	0.072		
58400E 67750N	Soil	0.8	52.1	8.1	65	0.1	42.2	19.4	255	3.87	160.7	0.6	<0.5	1.2	28	0.2	1.6	<0.1	97	0.33	0.124		
58400E 67800N	Soil	2.2	38.3	9.2	86	0.3	27.8	9.9	271	3.93	18.6	0.6	1.4	0.7	28	0.8	0.9	0.1	109	0.25	0.193		
58200E 66350N	Soil	0.7	107.8	5.0	72	0.1	62.6	30.1	580	4.97	20.0	0.5	4.8	1.1	34	0.3	1.2	0.1	173	0.36	0.048		
58200E 66400N	Soil	0.8	57.7	4.6	58	<0.1	43.0	19.9	452	3.25	14.7	0.5	7.6	1.6	36	0.3	1.0	<0.1	117	0.46	0.107		
58200E 66450N	Soil	1.3	68.9	5.9	71	<0.1	54.8	23.3	584	3.68	22.6	0.6	75.7	1.6	33	0.3	1.5	<0.1	116	0.39	0.119		
58200E 66500N	Soil	1.8	141.8	8.6	130	0.4	79.5	56.7	1309	5.15	30.7	1.1	5.7	1.1	27	1.3	1.4	0.2	149	0.39	0.089		
58200E 66550N	Soil	1.0	84.1	4.2	71	0.1	63.6	28.3	585	4.90	36.0	0.9	6.4	1.6	49	0.1	1.1	<0.1	165	0.75	0.137		
58200E 66600N	Soil	1.5	136.0	8.2	107	0.5	85.9	31.3	969	5.27	40.6	1.1	4.0	1.2	33	0.9	1.7	0.1	157	0.61	0.060		
58200E 66650N	Soil	1.3	73.0	5.7	74	<0.1	56.7	23.2	613	3.91	22.6	0.6	10.5	1.4	35	0.2	1.2	<0.1	127	0.47	0.109		
58200E 66700N	Soil	1.2	111.6	6.7	131	0.3	64.3	28.9	818	4.44	26.6	0.8	2.5	1.2	36	1.0	1.2	0.1	140	0.50	0.076		
58200E 66775N	Soil	2.3	86.4	9.1	90	<0.1	63.5	27.9	576	4.34	58.9	0.7	7.3	1.2	30	0.4	1.9	<0.1	139	0.42	0.112		
58200E 66800N	Soil	1.5	47.7	10.7	63	<0.1	29.3	22.0	711	4.80	48.7	0.5	2.1	1.1	36	0.1	2.6	<0.1	183	0.61	0.052		
58200E 66850N	Soil	1.0	86.5	4.2	103	0.1	38.6	27.1	794	4.01	24.2	0.5	2.0	0.8	21	0.3	1.2	<0.1	127	0.24	0.079		
58200E 66900N	Soil	0.7	49.5	6.9	112	0.1	32.7	15.6	562	3.61	13.5	0.4	1.2	0.6	18	0.3	0.8	0.1	101	0.25	0.144		
58200E 66950N	Soil	0.8	87.2	5.7	63	0.2	81.0	23.1	405	4.37	54.9	0.5	2.1	0.6	29	0.2	1.1	<0.1	118	0.48	0.068		
58200E 67000N	Soil	1.1	77.6	7.8	105	0.3	54.9	23.0	743	3.92	22.3	0.7	7.8	1.0	22	0.5	1.2	<0.1	113	0.27	0.137		
58200E 67050N	Soil	0.6	86.9	4.0	80	<0.1	35.6	24.3	723	5.74	21.4	0.4	1.4	0.7	54	0.2	2.6	<0.1	184	0.63	0.093		
58200E 67100N	Soil	1.5	51.0	6.5	83	<0.1	15.2	14.4	340	3.65	8.0	0.3	1.2	0.7	12	0.1	0.5	<0.1	107	0.16	0.111		
58200E 67150N	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.	I.S.	I.S.
58200E 67200N	Soil	1.5	43.7	5.7	63	<0.1	16.4	12.4	360	3.18	7.7	0.5	1.4	0.7	11	0.1	0.4	0.1	99	0.12	0.103		
58200E 67250N	Soil	1.1	63.8	4.9	113	<0.1	40.3	20.3	452	4.16	18.3	0.5	1.4	0.9	28	0.2	0.6	<0.1	126	0.34	0.249		
58200E 67300N	Soil	0.9	55.1	12.9	104	<0.1	37.1	21.1	313	3.93	34.5	0.5	2.1	1.2	25	0.3	1.4	<0.1	116	0.21	0.118		
58200E 67350N	Soil	1.1	73.3	7.2	78	0.1	56.0	24.8	467	4.16	30.1	0.5	2.6	1.4	38	0.2	1.0	<0.1	123	0.30	0.114		
58200E 67400N	Soil	1.0	94.9	5.6	100	0.2	37.5	27.4	401	4.46	52.0	0.4	2.1	1.0	28	0.2	1.4	<0.1	141	0.25	0.139		
58200E 67450N	Soil	1.5	44.4	9.0	106	0.1	32.1	18.4	322	5.05	79.4	0.5	2.0	1.0	27	0.2	1.4	0.2	139	0.24	0.122		
58200E 67500N	Soil	1.2	58.4	7.7	83	<0.1	39.5	18.3	313	3.99	20.3	0.6	5.9	1.5	22	0.2	1.0	0.1	119	0.17	0.125		

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

5 of 17

Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	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
MDL			ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
			1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	
58400E 67550N	Soil		4	65	1.01	110	0.138	<20	2.50	0.013	0.16	0.2	0.04	2.7	0.1	<0.05	9	0.5
58400E 67600N	Soil		4	62	1.02	116	0.144	<20	2.47	0.012	0.16	0.2	0.03	2.6	<0.1	<0.05	9	<0.5
58400E 67650N	Soil		5	86	1.04	101	0.132	<20	3.25	0.012	0.14	0.3	0.06	2.8	0.1	<0.05	10	0.6
58400E 67700N	Soil		4	107	1.67	234	0.191	<20	4.00	0.016	0.38	0.6	0.03	4.0	0.2	<0.05	10	0.7
58400E 67750N	Soil		7	66	0.91	154	0.115	<20	2.24	0.035	0.11	0.2	0.04	3.0	<0.1	<0.05	7	<0.5
58400E 67800N	Soil		5	67	0.76	119	0.122	<20	2.74	0.013	0.13	0.3	0.07	2.7	<0.1	<0.05	8	0.6
58200E 66350N	Soil		5	112	1.64	221	0.248	<20	2.66	0.018	0.69	0.3	0.02	5.2	0.2	<0.05	8	0.6
58200E 66400N	Soil		8	79	1.17	135	0.170	<20	1.84	0.034	0.41	0.2	0.01	4.9	0.2	<0.05	5	<0.5
58200E 66450N	Soil		9	87	1.38	157	0.164	<20	2.14	0.036	0.46	0.2	0.01	5.2	0.2	<0.05	6	0.8
58200E 66500N	Soil		7	126	1.76	242	0.198	<20	3.44	0.013	0.46	0.2	0.03	5.3	0.2	<0.05	9	0.7
58200E 66550N	Soil		7	146	1.83	250	0.260	<20	2.37	0.028	0.73	0.3	0.01	6.0	0.2	<0.05	8	<0.5
58200E 66600N	Soil		8	127	1.71	246	0.187	<20	3.26	0.019	0.60	0.2	0.03	8.5	0.3	<0.05	9	0.6
58200E 66650N	Soil		8	94	1.51	173	0.183	<20	2.38	0.026	0.48	0.3	0.01	5.5	0.2	<0.05	7	<0.5
58200E 66700N	Soil		8	96	1.57	242	0.210	<20	2.70	0.029	0.46	0.2	0.03	6.0	0.2	<0.05	8	<0.5
58200E 66775N	Soil		8	106	1.47	136	0.192	<20	2.71	0.018	0.40	0.3	0.02	4.5	0.2	<0.05	8	0.6
58200E 66800N	Soil		4	63	1.79	162	0.273	<20	2.25	0.018	0.41	0.2	0.01	6.2	0.1	<0.05	9	0.5
58200E 66850N	Soil		5	61	1.20	177	0.217	<20	2.76	0.016	0.48	0.4	0.03	4.2	0.1	<0.05	7	<0.5
58200E 66900N	Soil		3	64	0.94	222	0.181	<20	2.03	0.013	0.14	0.2	0.03	2.6	<0.1	<0.05	9	<0.5
58200E 66950N	Soil		8	139	1.50	170	0.185	<20	2.52	0.011	0.23	0.3	0.03	2.6	<0.1	<0.05	9	<0.5
58200E 67000N	Soil		8	94	1.05	94	0.154	<20	2.57	0.013	0.25	0.1	0.04	4.0	0.2	<0.05	8	0.5
58200E 67050N	Soil		3	45	1.06	322	0.134	<20	3.02	0.015	0.69	0.3	0.02	12.9	0.3	<0.05	8	<0.5
58200E 67100N	Soil		3	35	0.68	83	0.196	<20	2.43	0.014	0.05	0.1	0.04	2.2	<0.1	<0.05	9	<0.5
58200E 67150N	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.
58200E 67200N	Soil		3	31	0.59	81	0.178	<20	2.49	0.014	0.08	0.3	0.05	2.1	<0.1	<0.05	9	<0.5
58200E 67250N	Soil		3	84	1.13	146	0.190	<20	3.84	0.013	0.13	0.4	0.07	3.0	<0.1	<0.05	9	<0.5
58200E 67300N	Soil		5	66	1.07	135	0.173	<20	3.40	0.015	0.16	1.7	0.03	3.8	<0.1	<0.05	8	<0.5
58200E 67350N	Soil		4	72	1.24	167	0.210	<20	3.35	0.018	0.21	0.3	0.05	3.8	0.1	<0.05	8	0.8
58200E 67400N	Soil		3	61	1.45	199	0.203	<20	3.79	0.019	0.20	0.6	0.04	4.0	<0.1	<0.05	9	<0.5
58200E 67450N	Soil		3	64	1.04	118	0.195	<20	2.74	0.016	0.14	0.7	0.05	3.1	<0.1	<0.05	11	<0.5
58200E 67500N	Soil		5	58	0.93	119	0.163	<20	3.57	0.015	0.13	0.4	0.04	3.3	<0.1	<0.05	9	<0.5

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

6 of 17

Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		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
58200E 67550N	Soil	1.5	40.5	8.5	79	0.2	26.0	15.1	365	4.07	22.7	0.5	3.2	0.9	25	0.2	1.0	0.1	119	0.22	0.097		
58200E 67600N	Soil	1.7	30.4	11.0	91	0.2	32.3	12.2	277	4.09	28.3	0.5	6.7	0.9	19	0.2	1.3	0.1	116	0.22	0.125		
58200E 67650N	Soil	1.7	46.9	8.4	92	0.2	40.1	17.1	407	3.60	19.2	0.5	2.0	1.0	28	0.4	1.2	<0.1	100	0.34	0.123		
58200E 67700N	Soil	3.2	123.9	22.9	82	0.2	33.1	53.2	1511	9.95	34.5	0.5	1.8	1.5	59	0.7	8.3	0.1	191	0.69	0.212		
58200E 67750N	Soil	5.7	120.9	11.4	108	0.3	78.7	29.0	1051	5.12	21.6	2.9	7.5	1.6	54	1.0	1.2	0.1	133	0.56	0.048		
58200E 67800N	Soil	1.9	71.1	7.8	100	0.3	66.3	25.5	472	4.14	15.8	0.7	3.2	1.0	28	0.5	1.2	0.1	108	0.25	0.066		
58000E 66325N	Soil	1.0	48.1	5.0	67	<0.1	33.6	16.7	299	3.96	19.0	0.7	4.1	1.2	23	0.3	1.0	0.1	127	0.35	0.086		
58000E 66350N	Soil	0.7	61.8	4.5	61	<0.1	36.8	24.3	374	3.83	19.2	0.5	5.3	1.3	17	0.3	1.0	0.1	131	0.25	0.116		
58000E 66400N	Soil	0.8	65.5	5.6	77	0.4	37.3	23.1	425	4.12	14.7	0.6	4.0	1.0	25	0.5	0.9	0.2	136	0.37	0.085		
58000E 66450N	Soil	0.8	47.0	6.3	101	0.3	34.8	17.8	298	3.76	11.9	0.4	2.4	1.6	20	0.2	0.7	0.1	118	0.28	0.149		
58000E 66500N	Soil	2.7	140.5	6.1	67	<0.1	58.5	22.3	504	4.58	23.8	1.2	6.9	2.7	27	<0.1	1.1	0.5	162	0.33	0.080		
58000E 66550N	Soil	1.2	70.4	6.1	83	0.1	45.8	20.8	389	4.55	15.9	0.7	1.9	1.8	29	0.2	1.0	0.2	139	0.35	0.196		
58000E 66600N	Soil	1.2	50.9	6.3	91	0.1	46.0	20.6	331	4.38	16.2	0.4	2.1	1.2	28	0.2	0.9	<0.1	126	0.31	0.162		
58000E 66650N	Soil	1.7	72.8	11.7	83	<0.1	26.0	16.5	542	3.44	9.8	0.7	3.9	1.5	10	0.2	0.6	0.3	113	0.12	0.112		
58000E 66700N	Soil	1.2	73.8	5.3	88	<0.1	49.8	23.2	354	3.95	21.4	0.5	4.1	1.2	20	0.3	1.1	<0.1	126	0.24	0.099		
58000E 66750N	Soil	1.9	120.5	7.1	92	0.1	69.6	22.4	488	3.93	32.3	1.7	6.1	1.6	31	0.3	1.5	0.1	126	0.44	0.072		
58000E 66800N	Soil	1.7	144.0	7.2	97	0.3	62.8	23.5	684	4.59	63.3	1.0	3.4	1.2	28	0.7	2.8	0.2	143	0.52	0.035		
58000E 66850N	Soil	1.3	65.6	2.2	63	<0.1	57.4	29.3	1001	5.20	49.0	0.4	1.9	1.0	23	0.1	1.2	<0.1	180	0.71	0.055		
58000E 66900N	Soil	1.8	189.6	8.1	82	0.4	103.6	30.9	720	4.77	51.4	1.3	4.5	1.4	28	0.6	2.1	0.1	147	0.66	0.038		
58000E 66950N	Soil	0.8	88.3	5.2	135	0.2	39.1	22.3	595	4.45	23.7	0.5	3.0	0.8	21	0.5	0.8	<0.1	145	0.34	0.060		
58000E 67000N	Soil	0.8	67.1	5.2	92	<0.1	54.3	22.8	562	3.81	29.3	0.5	18.1	1.3	30	0.3	1.1	<0.1	121	0.49	0.075		
58000E 67050N	Soil	1.0	238.5	6.6	133	0.5	90.2	26.0	580	4.23	104.8	2.0	13.3	1.7	30	0.6	2.3	0.1	127	0.67	0.042		
58000E 67100N	Soil	0.7	68.9	5.2	58	0.1	58.6	24.2	629	4.25	29.1	0.6	5.6	2.0	36	0.2	1.7	<0.1	134	0.69	0.100		
58000E 67150N	Soil	0.7	66.9	6.0	92	0.2	70.4	22.0	415	3.67	22.9	0.5	8.3	1.7	27	0.3	1.1	<0.1	106	0.39	0.052		
58000E 67200N	Soil	0.7	91.1	6.7	89	0.1	43.6	23.6	430	4.08	29.6	0.4	1.7	1.2	23	0.2	1.0	<0.1	120	0.20	0.105		
58000E 67250N	Soil	1.4	77.0	6.8	91	<0.1	50.7	21.1	383	4.19	19.7	0.6	3.2	1.9	21	0.2	0.9	<0.1	117	0.15	0.091		
58000E 67300N	Soil	1.6	66.9	6.7	75	<0.1	40.5	20.4	390	4.02	16.8	0.6	2.3	1.3	21	0.2	0.8	<0.1	126	0.23	0.056		
58000E 67350N	Soil	1.1	111.8	9.0	77	0.1	71.3	29.4	823	4.10	41.2	1.1	5.2	2.1	35	0.4	1.8	<0.1	122	0.68	0.085		
58000E 67400N	Soil	0.9	70.7	6.5	83	0.2	48.1	20.9	560	3.94	21.4	0.6	3.6	0.6	41	0.2	1.1	<0.1	109	0.54	0.088		
58000E 67450N	Soil	1.0	55.6	6.2	59	0.1	37.6	16.5	327	3.74	25.8	0.5	1.6	1.1	37	0.2	0.8	<0.1	111	0.38	0.183		



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

6 of 17

Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	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	0.01	0.01	0.05	1	0.5		
58200E 67550N	Soil			4	59	0.83	91	0.151	<20	2.85	0.016	0.10	0.3	0.05	2.9	<0.1	<0.05	10	<0.5
58200E 67600N	Soil			4	89	0.94	98	0.168	<20	2.56	0.017	0.12	0.5	0.04	2.7	<0.1	<0.05	10	0.6
58200E 67650N	Soil			6	64	0.87	144	0.126	<20	2.87	0.016	0.21	0.3	0.05	3.2	0.1	<0.05	7	0.6
58200E 67700N	Soil			13	38	1.63	140	0.117	<20	2.72	0.007	0.48	0.1	0.02	8.0	0.3	<0.05	8	0.8
58200E 67750N	Soil			12	130	1.46	204	0.158	<20	3.37	0.020	0.41	0.2	0.04	8.3	0.3	<0.05	9	<0.5
58200E 67800N	Soil			8	99	1.15	127	0.142	<20	3.16	0.019	0.20	0.2	0.05	3.9	0.2	<0.05	7	<0.5
58000E 66325N	Soil			7	74	0.91	95	0.152	<20	2.00	0.014	0.17	0.3	0.04	3.0	0.1	<0.05	6	<0.5
58000E 66350N	Soil			5	70	0.90	89	0.158	<20	2.01	0.010	0.21	0.4	0.02	3.2	0.1	<0.05	6	<0.5
58000E 66400N	Soil			5	71	0.91	100	0.173	<20	2.24	0.011	0.18	0.3	0.03	3.2	0.1	<0.05	8	<0.5
58000E 66450N	Soil			5	69	0.97	146	0.185	<20	2.28	0.015	0.20	0.3	0.02	2.9	0.1	<0.05	7	<0.5
58000E 66500N	Soil			7	105	1.58	158	0.240	<20	2.79	0.017	0.65	0.6	0.02	5.2	0.3	<0.05	8	<0.5
58000E 66550N	Soil			6	82	1.40	216	0.221	<20	3.24	0.017	0.29	0.3	0.03	4.7	0.2	<0.05	8	<0.5
58000E 66600N	Soil			4	75	1.11	192	0.177	<20	2.74	0.012	0.13	0.3	0.04	4.0	<0.1	<0.05	8	0.6
58000E 66650N	Soil			4	46	0.80	116	0.210	<20	2.48	0.010	0.13	0.3	0.04	3.6	0.1	<0.05	8	<0.5
58000E 66700N	Soil			5	77	1.26	174	0.206	<20	3.12	0.015	0.23	0.3	0.04	3.9	0.1	<0.05	7	<0.5
58000E 66750N	Soil			11	101	1.43	202	0.182	<20	2.37	0.018	0.42	0.2	0.04	6.6	0.4	<0.05	7	<0.5
58000E 66800N	Soil			8	92	1.34	218	0.212	<20	2.58	0.016	0.34	0.2	0.04	6.5	0.2	<0.05	9	<0.5
58000E 66850N	Soil			3	179	2.30	280	0.275	<20	2.89	0.015	0.63	0.1	0.01	4.5	<0.1	<0.05	9	<0.5
58000E 66900N	Soil			11	112	1.26	284	0.191	<20	3.29	0.017	0.44	0.3	0.06	6.5	0.2	<0.05	9	0.6
58000E 66950N	Soil			6	63	1.26	307	0.246	<20	2.58	0.015	0.41	0.2	0.02	4.5	0.1	<0.05	9	<0.5
58000E 67000N	Soil			7	85	1.35	198	0.203	<20	2.33	0.031	0.37	0.2	0.02	4.7	0.2	<0.05	7	<0.5
58000E 67050N	Soil			12	123	1.40	167	0.195	<20	2.56	0.031	0.40	0.3	0.07	9.3	0.2	<0.05	7	<0.5
58000E 67100N	Soil			8	81	1.48	144	0.207	<20	1.99	0.040	0.46	0.3	0.01	6.1	0.2	<0.05	7	<0.5
58000E 67150N	Soil			9	88	1.16	149	0.194	<20	2.37	0.024	0.22	0.2	0.02	4.6	0.1	<0.05	7	<0.5
58000E 67200N	Soil			4	52	0.99	187	0.199	<20	3.35	0.015	0.18	0.2	0.04	3.0	<0.1	<0.05	10	<0.5
58000E 67250N	Soil			5	60	0.99	128	0.210	<20	4.32	0.011	0.14	0.4	0.06	3.9	0.1	<0.05	9	0.6
58000E 67300N	Soil			5	58	1.13	132	0.199	<20	3.39	0.017	0.15	0.3	0.05	4.0	<0.1	<0.05	9	<0.5
58000E 67350N	Soil			8	81	1.41	208	0.180	<20	2.62	0.027	0.39	0.3	0.03	5.3	0.2	<0.05	8	0.6
58000E 67400N	Soil			6	69	1.36	148	0.150	<20	2.58	0.023	0.35	0.2	0.02	3.4	0.2	<0.05	8	0.8
58000E 67450N	Soil			5	61	1.02	146	0.154	<20	2.96	0.024	0.22	0.3	0.04	3.1	<0.1	<0.05	7	0.7

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

7 of 17

Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	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
58000E 67500N	Soil	1.4	63.1	7.6	88	0.1	38.5	18.0	422	4.25	22.4	0.5	0.8	0.7	26	0.1	0.8	<0.1	120	0.29	0.142		
58000E 67550N	Soil	1.3	73.6	8.0	86	0.1	54.3	17.7	343	3.98	28.5	0.6	5.2	0.6	25	0.3	1.2	<0.1	110	0.24	0.128		
58000E 67600N	Soil	1.6	50.3	8.6	112	0.1	34.1	12.5	322	3.84	18.0	0.6	3.1	0.8	23	0.3	0.9	0.1	102	0.22	0.119		
58000E 67650N	Soil	1.3	79.0	20.8	94	<0.1	34.3	22.5	787	5.68	26.2	0.6	0.9	1.0	21	0.2	4.2	0.2	187	0.40	0.097		
58000E 67700N	Soil	8.4	108.2	7.5	106	0.1	27.2	28.3	602	7.37	27.3	1.1	1.9	1.1	34	0.1	3.2	0.1	216	0.31	0.107		
58000E 67750N	Soil	1.4	62.1	7.6	92	0.1	31.0	18.4	684	4.13	20.5	0.5	1.7	0.5	25	0.3	1.0	0.1	112	0.22	0.140		
58000E 67800N	Soil	2.0	35.4	7.9	75	0.1	21.9	9.6	250	3.60	16.7	0.6	1.3	0.4	17	0.3	0.7	0.1	87	0.16	0.115		
57800E 66300N	Soil	0.9	54.2	3.9	51	<0.1	54.0	20.2	532	3.69	14.6	0.9	7.8	2.2	31	0.1	1.0	0.4	116	0.54	0.091		
57800E 66350N	Soil	1.1	88.5	5.0	58	0.3	57.1	23.1	585	4.12	16.8	1.2	2.5	1.9	33	0.2	0.9	0.9	138	0.58	0.053		
57800E 66400N	Soil	0.9	60.5	4.7	52	0.2	33.5	18.7	272	3.63	18.5	0.6	5.1	1.8	18	0.2	1.0	0.2	122	0.23	0.070		
57800E 66450N	Soil	1.0	73.4	4.7	95	0.2	45.1	22.8	381	4.31	15.5	0.7	3.3	3.2	22	0.3	0.7	0.2	129	0.34	0.165		
57800E 66500N	Soil	1.0	47.7	5.2	86	<0.1	44.5	20.8	265	3.53	11.0	0.7	0.6	2.9	21	0.1	0.7	0.6	99	0.21	0.202		
57800E 66550N	Soil	0.8	65.7	4.8	83	<0.1	56.6	21.5	309	3.44	13.1	0.5	1.4	2.1	23	0.2	0.9	1.0	98	0.27	0.135		
57800E 66600N	Soil	1.0	54.5	5.8	62	<0.1	33.7	16.6	302	3.61	17.0	0.5	1.1	1.0	43	0.2	0.7	0.2	112	0.51	0.152		
57800E 66650N	Soil	1.4	53.5	6.6	87	0.1	38.4	16.7	356	3.56	15.8	0.8	2.8	1.3	22	0.2	0.9	0.3	102	0.21	0.070		
57800E 66700N	Soil	0.8	80.9	4.3	73	<0.1	39.8	22.3	493	3.85	25.5	0.6	4.1	1.0	20	0.2	1.0	0.2	134	0.27	0.116		
57800E 66750N	Soil	1.0	31.7	6.0	81	0.3	22.6	11.7	303	3.37	15.8	0.5	53.3	0.9	17	0.3	0.7	0.1	101	0.19	0.157		
57800E 66800N	Soil	1.1	73.5	5.1	67	<0.1	48.7	19.6	513	3.78	23.9	0.4	3.0	1.1	31	0.2	1.3	<0.1	123	0.32	0.025		
57800E 66850N	Soil	1.0	115.0	3.6	59	0.1	49.4	20.1	435	4.28	24.7	0.9	2.2	0.8	30	0.2	0.8	<0.1	143	0.48	0.038		
57800E 66900N	Soil	0.7	52.9	4.8	51	<0.1	47.7	20.8	486	3.28	19.6	0.5	2.4	1.3	39	0.2	1.0	<0.1	105	0.47	0.112		
57800E 66950N	Soil	0.8	98.9	7.3	104	0.5	71.8	24.0	659	4.06	23.2	0.9	2.7	0.6	32	0.7	1.0	0.1	112	0.33	0.070		
57800E 67000N	Soil	1.0	72.0	5.5	63	0.4	84.9	20.9	535	3.66	24.2	1.0	3.1	1.1	33	0.4	1.6	0.1	103	0.55	0.043		
57800E 67050N	Soil	0.8	63.1	5.2	60	0.3	63.8	18.1	504	3.50	34.5	0.7	0.9	1.1	35	0.4	1.8	<0.1	106	0.60	0.049		
57800E 67100N	Soil	0.8	116.0	8.5	87	0.7	76.1	24.5	743	4.31	34.4	0.9	2.6	0.8	38	0.9	2.1	0.1	128	0.79	0.071		
57800E 67150N	Soil	0.7	38.7	6.1	80	0.2	43.9	18.2	282	3.13	16.5	0.4	2.8	1.0	22	0.3	0.9	<0.1	89	0.30	0.145		
57800E 67200N	Soil	0.9	52.2	7.1	114	0.2	39.3	18.4	356	3.62	16.0	0.6	12.7	1.2	22	0.3	0.8	0.1	97	0.30	0.223		
57800E 67250N	Soil	0.7	56.6	6.4	108	<0.1	85.3	28.1	349	3.79	9.3	0.4	8.6	1.1	25	0.3	0.5	0.1	95	0.32	0.090		
57800E 67300N	Soil	0.9	41.3	7.8	90	0.2	31.1	15.6	360	3.65	17.8	0.5	2.7	1.0	23	0.3	0.7	0.1	107	0.24	0.141		
57800E 67350N	Soil	1.3	51.4	7.8	97	0.4	42.4	18.6	391	4.29	18.1	0.5	2.0	0.5	26	0.2	0.9	<0.1	125	0.31	0.097		
57800E 67400N	Soil	1.3	63.1	7.3	91	<0.1	38.6	17.6	338	4.43	20.5	0.5	0.9	0.9	24	0.2	0.8	0.1	131	0.31	0.138		

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

7 of 17

Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method Analyte	Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		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
58000E 67500N	Soil	5	64	1.04	169	0.170	<20	2.92	0.024	0.16	0.3	0.03	2.9	0.1	<0.05	10	0.7
58000E 67550N	Soil	5	77	1.14	126	0.150	<20	3.74	0.019	0.17	0.4	0.06	3.0	0.1	<0.05	8	0.7
58000E 67600N	Soil	6	65	0.94	103	0.162	<20	3.60	0.016	0.13	0.3	0.07	3.1	0.1	<0.05	8	0.9
58000E 67650N	Soil	6	84	1.74	91	0.206	<20	4.27	0.020	0.24	0.4	0.03	4.9	0.1	<0.05	11	1.0
58000E 67700N	Soil	4	39	1.46	108	0.375	<20	4.75	0.027	0.19	0.9	0.05	7.7	<0.1	0.06	13	1.1
58000E 67750N	Soil	4	69	1.02	118	0.179	<20	3.17	0.018	0.11	0.3	0.06	2.4	<0.1	<0.05	9	0.6
58000E 67800N	Soil	5	56	0.64	68	0.143	<20	2.72	0.014	0.08	0.2	0.08	2.2	<0.1	<0.05	9	<0.5
57800E 66300N	Soil	9	95	1.54	142	0.193	<20	1.86	0.025	0.36	0.5	0.02	5.2	0.2	<0.05	6	0.8
57800E 66350N	Soil	11	109	1.39	220	0.236	<20	2.33	0.020	0.41	0.7	0.02	5.3	0.2	<0.05	7	0.9
57800E 66400N	Soil	7	69	0.91	104	0.197	<20	1.76	0.013	0.33	0.6	0.02	2.8	0.2	<0.05	6	0.6
57800E 66450N	Soil	6	87	1.27	162	0.208	<20	2.71	0.017	0.25	0.4	0.03	3.5	0.1	<0.05	7	0.8
57800E 66500N	Soil	8	64	1.06	189	0.234	<20	2.89	0.017	0.22	0.5	0.02	3.5	0.2	<0.05	7	0.5
57800E 66550N	Soil	7	77	1.23	173	0.217	<20	2.60	0.018	0.17	0.6	0.02	3.4	<0.1	<0.05	7	0.7
57800E 66600N	Soil	4	59	0.96	181	0.206	<20	2.73	0.016	0.14	1.1	0.03	3.1	<0.1	<0.05	6	0.9
57800E 66650N	Soil	7	70	1.01	124	0.223	<20	2.62	0.016	0.16	0.3	0.03	3.5	0.1	<0.05	9	0.8
57800E 66700N	Soil	5	55	1.21	214	0.259	<20	2.47	0.016	0.37	0.2	0.02	3.2	0.1	<0.05	6	0.6
57800E 66750N	Soil	4	47	0.76	181	0.199	<20	2.04	0.014	0.14	0.2	0.04	2.5	<0.1	<0.05	7	<0.5
57800E 66800N	Soil	5	80	1.42	185	0.256	<20	2.13	0.019	0.44	0.2	<0.01	3.9	0.2	<0.05	7	<0.5
57800E 66850N	Soil	5	57	1.34	279	0.305	<20	2.15	0.018	0.53	0.2	0.02	5.3	0.1	<0.05	7	<0.5
57800E 66900N	Soil	8	75	1.28	156	0.197	<20	1.82	0.023	0.43	0.3	<0.01	2.9	0.1	<0.05	6	<0.5
57800E 66950N	Soil	9	102	1.25	155	0.207	<20	2.56	0.022	0.33	0.2	0.03	4.1	0.2	<0.05	8	0.9
57800E 67000N	Soil	9	113	1.37	191	0.198	<20	2.51	0.028	0.34	0.2	0.03	5.2	0.2	<0.05	7	1.3
57800E 67050N	Soil	7	89	1.29	134	0.184	<20	2.03	0.032	0.31	0.4	0.02	4.7	0.2	<0.05	6	0.9
57800E 67100N	Soil	10	110	1.42	179	0.195	<20	2.90	0.024	0.35	0.2	0.03	5.7	0.2	<0.05	10	1.3
57800E 67150N	Soil	7	63	0.85	101	0.152	<20	2.41	0.020	0.11	0.2	0.03	2.9	<0.1	<0.05	6	0.6
57800E 67200N	Soil	5	56	0.91	149	0.183	<20	3.08	0.021	0.12	0.2	0.04	2.9	<0.1	<0.05	8	0.7
57800E 67250N	Soil	4	126	1.61	135	0.214	<20	3.61	0.023	0.12	0.2	0.03	2.8	<0.1	<0.05	8	0.5
57800E 67300N	Soil	5	57	0.91	127	0.199	<20	2.40	0.019	0.15	0.3	0.05	3.0	<0.1	<0.05	8	0.6
57800E 67350N	Soil	5	69	1.09	120	0.193	<20	2.92	0.020	0.14	0.3	0.04	3.0	<0.1	<0.05	9	0.6
57800E 67400N	Soil	4	66	1.13	93	0.201	<20	3.27	0.018	0.13	0.3	0.04	3.3	<0.1	<0.05	9	0.6

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

8 of 17

Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	0.1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
57800E 67450N	Soil	1.1	70.8	7.2	72	0.1	35.9	21.4	390	4.38	23.6	0.5	1.5	0.7	25	0.2	0.7	0.1	130	0.35	0.109		
57800E 67500N	Soil	0.9	64.2	8.1	65	0.2	34.5	19.9	484	3.82	35.1	0.6	2.1	0.5	31	0.3	1.0	0.1	124	0.39	0.054		
57800E 67550N	Soil	0.9	51.2	8.0	77	0.2	33.8	17.4	386	3.96	30.0	0.4	6.1	0.5	32	0.2	1.1	<0.1	124	0.38	0.159		
57800E 67600N	Soil	1.0	32.5	9.4	111	0.2	29.7	14.2	508	3.92	20.2	0.4	1.2	0.3	34	0.5	1.0	0.1	106	0.37	0.140		
57800E 67650N	Soil	1.4	48.3	7.3	98	<0.1	38.0	20.0	446	4.32	23.8	0.5	1.7	0.6	22	0.5	1.0	<0.1	115	0.24	0.192		
57800E 67700N	Soil	1.1	30.7	8.0	99	0.2	33.5	17.8	534	3.70	11.8	0.4	82.7	0.3	32	0.4	0.5	0.1	88	0.28	0.129		
57800E 67750N	Soil	1.4	35.8	8.4	111	0.2	36.4	18.3	610	4.09	12.3	0.4	2.1	0.3	24	0.5	0.6	0.1	102	0.21	0.100		
57800E 67800N	Soil	1.5	33.3	7.7	80	0.2	31.2	11.7	303	3.59	11.1	0.5	4.7	0.3	27	0.3	0.4	<0.1	87	0.22	0.159		
57600E 66300N	Soil	1.0	51.4	4.9	146	0.1	44.2	29.3	338	4.63	11.4	0.6	2.5	1.7	15	0.4	0.4	0.5	134	0.27	0.167		
57600E 66350N	Soil	0.8	42.4	5.0	104	<0.1	39.5	18.8	255	3.61	12.1	0.5	3.5	2.2	18	0.2	0.6	0.3	106	0.27	0.193		
57600E 66400N	Soil	1.5	44.8	4.8	82	0.2	34.1	17.0	261	4.11	9.7	0.7	2.9	2.2	24	0.2	0.5	0.7	116	0.32	0.179		
57600E 66450N	Soil	1.2	79.1	4.5	82	0.1	41.0	21.4	363	4.24	14.2	0.5	1.5	1.6	26	0.2	0.6	0.7	128	0.34	0.124		
57600E 66500N	Soil	1.9	61.8	6.4	181	0.1	49.9	25.0	714	4.43	12.9	0.9	3.1	1.9	30	0.3	0.7	1.8	122	0.39	0.099		
57600E 66550N	Soil	1.7	58.0	5.9	85	<0.1	37.8	15.7	329	4.15	18.3	0.8	3.4	1.1	15	0.2	0.7	0.4	114	0.19	0.094		
57600E 66600N	Soil	1.5	60.4	6.5	89	<0.1	38.6	20.4	318	4.26	17.2	0.6	3.2	1.6	13	0.2	0.7	0.4	124	0.14	0.096		
57600E 66650N	Soil	0.9	92.9	5.2	89	<0.1	46.3	26.3	383	4.12	17.0	0.6	11.5	1.6	15	0.2	0.8	0.2	136	0.18	0.098		
57600E 66700N	Soil	1.0	94.8	5.5	85	<0.1	67.5	24.0	403	4.60	28.8	0.6	3.3	1.4	19	0.2	0.8	<0.1	141	0.28	0.166		
57600E 66750N	Soil	0.8	53.0	4.6	69	<0.1	33.2	16.4	328	3.73	18.7	0.4	1.7	0.9	14	0.2	0.6	<0.1	109	0.20	0.108		
57600E 66800N	Soil	0.8	65.7	5.1	57	<0.1	53.0	17.6	470	3.32	19.1	0.4	7.4	1.6	25	<0.1	0.9	<0.1	112	0.39	0.072		
57600E 66850N	Soil	0.3	80.6	1.4	70	<0.1	10.7	18.5	505	4.08	7.6	0.3	0.7	0.7	8	<0.1	0.2	<0.1	193	0.25	0.103		
57600E 66900N	Soil	1.4	122.3	7.7	83	<0.1	86.9	29.6	844	5.36	47.8	0.6	4.8	2.3	40	0.2	1.5	<0.1	177	0.78	0.137		
57600E 66950N	Soil	0.8	59.2	5.7	80	0.1	48.6	25.0	426	4.13	10.4	0.4	<0.5	0.8	13	0.2	0.4	<0.1	127	0.28	0.161		
57600E 67000N	Soil	0.7	97.5	4.3	96	0.2	98.7	30.6	433	4.60	19.1	0.4	0.7	0.8	17	0.2	0.8	<0.1	143	0.41	0.100		
57600E 67050N	Soil	0.9	23.0	8.2	56	0.1	17.1	9.7	214	2.90	5.8	0.2	0.6	0.4	9	0.2	0.3	<0.1	89	0.15	0.098		
57600E 67100N	Soil	0.9	65.9	5.8	132	0.1	45.4	21.6	375	4.11	28.9	0.4	1.9	1.0	12	0.3	0.6	<0.1	120	0.18	0.096		
57600E 67150N	Soil	1.2	101.4	7.3	118	<0.1	43.9	27.4	588	4.41	17.8	0.5	1.7	1.2	20	0.2	0.6	0.1	137	0.26	0.146		
57600E 67200N	Soil	1.0	94.7	6.7	95	0.1	71.0	22.3	376	4.11	10.4	0.5	1.3	0.8	23	0.2	0.4	<0.1	117	0.40	0.175		
57600E 67250N	Soil	1.4	53.0	8.7	127	0.1	32.3	16.1	476	4.38	20.6	0.5	2.1	0.9	14	0.2	0.7	<0.1	127	0.21	0.227		
57600E 67300N	Soil	1.1	73.7	7.8	82	0.1	61.8	24.4	498	4.45	26.3	0.5	5.0	1.2	27	0.3	1.0	<0.1	134	0.34	0.100		
57600E 67350N	Soil	1.3	40.5	7.4	63	<0.1	19.5	10.6	265	3.15	18.3	0.4	0.8	0.6	16	0.2	0.7	<0.1	95	0.26	0.228		

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.
 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: Hen
 Report Date: August 01, 2008

Page: 8 of 17 Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX Ti	1DX S	1DX Ga	1DX Se
		ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
57800E 67450N	Soil	4	80	1.48	109	0.252	<20	3.07	0.039	0.20	0.2	0.03	3.1	<0.1	<0.05	10	0.5		
57800E 67500N	Soil	6	63	1.06	105	0.201	<20	2.47	0.028	0.17	0.4	0.02	3.2	<0.1	<0.05	8	0.5		
57800E 67550N	Soil	6	67	1.05	132	0.172	<20	2.63	0.033	0.22	0.3	0.03	2.9	<0.1	<0.05	8	<0.5		
57800E 67600N	Soil	5	63	0.88	130	0.151	<20	2.19	0.021	0.14	0.3	0.05	2.0	<0.1	<0.05	9	0.9		
57800E 67650N	Soil	4	68	0.99	128	0.101	<20	2.84	0.014	0.14	0.3	0.04	2.3	<0.1	0.08	8	0.8		
57800E 67700N	Soil	3	83	0.85	188	0.106	<20	1.79	0.022	0.12	0.2	0.03	1.5	<0.1	<0.05	8	<0.5		
57800E 67750N	Soil	3	90	0.93	135	0.122	<20	2.07	0.019	0.12	0.3	0.02	1.6	<0.1	0.05	9	<0.5		
57800E 67800N	Soil	4	92	0.79	133	0.099	<20	1.79	0.019	0.10	0.1	0.04	1.4	<0.1	<0.05	8	<0.5		
57600E 66300N	Soil	4	78	1.13	141	0.202	<20	3.19	0.012	0.16	0.7	0.03	2.8	<0.1	<0.05	8	<0.5		
57600E 66350N	Soil	6	73	0.93	104	0.146	<20	2.17	0.014	0.17	0.6	0.02	2.5	<0.1	<0.05	6	<0.5		
57600E 66400N	Soil	7	70	0.92	126	0.169	<20	2.63	0.013	0.15	0.9	0.03	2.2	<0.1	<0.05	8	<0.5		
57600E 66450N	Soil	5	60	1.42	193	0.239	<20	3.16	0.014	0.26	0.4	0.03	3.6	<0.1	<0.05	8	<0.5		
57600E 66500N	Soil	7	79	1.20	187	0.221	<20	2.63	0.011	0.22	0.7	0.01	2.8	0.2	<0.05	10	<0.5		
57600E 66550N	Soil	6	63	0.99	121	0.175	<20	2.95	0.011	0.11	0.7	0.06	2.6	0.1	<0.05	9	0.5		
57600E 66600N	Soil	5	65	0.92	130	0.200	<20	3.29	0.010	0.12	0.6	0.04	3.0	0.1	<0.05	9	<0.5		
57600E 66650N	Soil	5	64	1.14	173	0.243	<20	3.16	0.017	0.19	0.5	0.04	3.9	0.2	<0.05	8	0.7		
57600E 66700N	Soil	5	95	1.28	243	0.203	<20	3.96	0.014	0.21	0.3	0.04	3.6	0.1	<0.05	9	<0.5		
57600E 66750N	Soil	3	50	1.08	149	0.195	<20	2.54	0.017	0.16	0.2	0.02	2.1	<0.1	<0.05	8	<0.5		
57600E 66800N	Soil	8	84	1.34	118	0.164	<20	2.10	0.028	0.33	0.2	<0.01	4.0	0.2	<0.05	6	<0.5		
57600E 66850N	Soil	3	18	1.16	437	0.365	<20	1.82	0.009	0.81	0.1	<0.01	4.4	<0.1	<0.05	6	<0.5		
57600E 66900N	Soil	8	134	2.03	247	0.209	<20	2.78	0.039	0.76	0.4	0.02	7.9	0.4	<0.05	9	<0.5		
57600E 66950N	Soil	3	86	1.31	149	0.227	<20	2.68	0.016	0.14	0.2	0.01	2.7	<0.1	<0.05	9	<0.5		
57600E 67000N	Soil	3	175	1.73	187	0.232	<20	3.03	0.015	0.24	0.4	0.03	2.7	<0.1	<0.05	9	<0.5		
57600E 67050N	Soil	2	32	0.52	120	0.185	<20	1.29	0.012	0.08	0.2	0.02	1.3	<0.1	<0.05	8	<0.5		
57600E 67100N	Soil	4	65	1.06	164	0.192	<20	3.10	0.012	0.15	0.3	0.05	2.7	<0.1	<0.05	8	<0.5		
57600E 67150N	Soil	4	67	1.07	179	0.193	<20	3.60	0.015	0.13	0.3	0.05	3.4	<0.1	<0.05	9	0.6		
57600E 67200N	Soil	3	129	1.30	173	0.177	<20	2.90	0.013	0.15	3.8	0.09	1.6	<0.1	<0.05	9	0.5		
57600E 67250N	Soil	4	61	0.85	112	0.161	<20	3.02	0.018	0.10	0.3	0.05	2.6	<0.1	<0.05	10	<0.5		
57600E 67300N	Soil	6	77	1.27	173	0.203	<20	2.87	0.031	0.30	0.3	0.02	3.7	0.1	<0.05	9	0.5		
57600E 67350N	Soil	3	38	0.63	101	0.123	<20	1.90	0.018	0.10	0.3	0.05	2.1	<0.1	<0.05	7	<0.5		

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.
 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: Hen

Report Date: August 01, 2008

Page: 9 of 17 Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P	
		ppm		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	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	
57600E 67400N	Soil	1.1	71.8	8.0	79	0.3	38.0	19.3	456	4.42	22.6	0.7	2.6	1.1	20	0.4	0.7	<0.1	149	0.31	0.080			
57600E 67450N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
57600E 67500N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
57600E 67550N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
57600E 67600N	Soil	1.2	79.9	6.7	84	<0.1	71.2	23.7	473	4.64	33.4	0.5	2.7	0.8	29	0.3	1.2	<0.1	122	0.39	0.110			
57600E 67650N	Soil	2.0	63.6	8.1	91	0.1	50.8	16.4	356	4.62	24.0	0.5	3.5	0.8	26	0.3	1.1	<0.1	120	0.30	0.161			
57600E 67700N	Soil	1.8	56.9	7.8	65	0.4	35.0	12.7	285	4.30	22.6	0.7	4.5	1.0	21	0.3	1.2	<0.1	116	0.21	0.089			
57600E 67750N	Soil	2.0	85.7	8.1	108	0.2	67.2	25.7	646	4.53	24.4	0.6	1.3	1.0	27	0.3	1.3	<0.1	119	0.24	0.056			
57600E 67800N	Soil	1.6	103.8	9.5	91	0.3	78.3	31.3	843	4.59	22.2	0.7	3.6	1.2	40	0.6	6.7	0.1	120	0.51	0.057			
57400E 66300N	Soil	1.3	49.0	3.5	46	0.1	51.8	14.7	282	2.68	10.1	1.2	5.8	1.8	18	0.2	0.9	0.2	87	0.31	0.063			
57400E 66350N	Soil	0.7	46.7	4.1	59	0.1	44.8	15.8	243	3.02	11.6	0.5	2.6	2.2	21	0.2	0.7	0.1	94	0.34	0.126			
57400E 66400N	Soil	0.8	36.1	4.8	53	0.1	35.0	17.4	234	2.94	10.3	0.5	4.2	2.3	15	0.2	0.6	0.2	100	0.24	0.075			
57400E 66450N	Soil	1.0	64.4	5.1	53	0.1	46.6	20.3	298	3.36	14.1	0.4	1.8	1.8	20	<0.1	0.8	0.1	116	0.23	0.083			
57400E 66500N	Soil	1.5	72.2	4.8	56	<0.1	38.1	17.1	323	3.39	14.0	0.6	1.4	2.2	21	0.1	0.9	0.6	111	0.27	0.146			
57400E 66550N	Soil	2.4	99.8	5.5	56	<0.1	38.7	16.6	289	4.01	14.4	1.0	5.3	2.0	23	0.2	0.6	3.4	125	0.25	0.185			
57400E 66600N	Soil	1.3	56.2	7.0	95	<0.1	44.4	22.0	325	3.84	14.3	0.7	4.1	1.5	14	0.1	0.6	0.4	114	0.18	0.137			
57400E 66650N	Soil	1.1	70.0	6.6	96	<0.1	51.8	20.5	323	3.94	21.4	0.6	6.8	1.4	19	0.3	0.9	0.2	124	0.28	0.089			
57400E 66700N	Soil	1.3	109.0	3.1	75	<0.1	11.6	16.3	357	3.97	4.8	0.4	2.9	0.8	7	<0.1	0.2	<0.1	161	0.16	0.114			
57400E 66750N	Soil	0.9	114.0	3.7	68	<0.1	36.6	20.4	323	4.58	12.9	0.4	1.4	0.9	12	<0.1	0.6	<0.1	190	0.15	0.087			
57400E 66800N	Soil	1.0	55.4	5.7	97	<0.1	59.8	24.6	313	3.74	22.6	0.5	3.2	1.0	16	0.2	0.8	<0.1	109	0.29	0.090			
57400E 66850N	Soil	1.2	97.3	20.2	103	0.1	68.2	23.0	431	4.67	33.4	0.4	3.0	0.8	22	0.8	0.9	0.3	137	0.47	0.096			
57400E 66900N	Soil	0.9	60.4	4.6	59	0.1	53.0	17.9	563	3.40	19.6	0.5	4.1	1.1	24	0.2	1.0	<0.1	108	0.47	0.036			
57400E 66950N	Soil	0.8	68.3	7.1	89	0.1	59.6	25.2	366	4.00	24.6	0.4	2.3	1.3	20	0.3	0.7	0.1	121	0.40	0.132			
57400E 67000N	Soil	0.6	77.8	5.6	74	<0.1	48.5	26.0	422	3.91	13.4	0.5	1.4	1.8	18	0.2	0.5	<0.1	125	0.49	0.140			
57400E 67050N	Soil	1.0	62.7	5.1	84	<0.1	55.2	22.7	378	4.13	16.3	0.4	7.2	1.1	18	0.1	0.7	<0.1	119	0.37	0.140			
57400E 67100N	Soil	1.2	77.5	6.7	67	0.1	84.2	24.0	616	3.76	27.5	0.8	10.5	2.0	33	0.4	1.3	<0.1	118	0.67	0.103			
57400E 67150N	Soil	1.2	49.8	5.7	67	0.2	42.3	18.6	590	3.62	168.8	1.9	1.4	0.6	37	0.2	1.2	<0.1	137	0.68	0.061			
57400E 67200N	Soil	0.9	40.0	4.6	58	<0.1	42.0	16.4	455	3.04	51.5	0.5	2.0	1.0	27	0.3	0.8	<0.1	101	0.44	0.071			
57400E 67250N	Soil	1.1	68.7	8.6	174	0.2	52.0	21.9	460	4.70	20.1	0.4	1.9	1.2	21	0.4	0.6	<0.1	134	0.31	0.163			
57400E 67300N	Soil	1.2	61.6	5.4	75	0.1	39.2	25.1	657	4.75	96.1	2.9	5.1	1.3	41	0.1	1.7	<0.1	201	0.81	0.118			

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

9 of 17

Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method Analyte Unit MDL	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	
57600E 67400N	Soil	7	70	1.11	135	0.190	<20	3.16	0.022	0.23	0.3	0.04	4.4	0.1	<0.05	10	<0.5
57600E 67450N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
57600E 67500N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
57600E 67550N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
57600E 67600N	Soil	7	94	1.39	151	0.184	<20	2.89	0.023	0.34	0.5	0.04	3.4	0.1	<0.05	9	<0.5
57600E 67650N	Soil	6	89	1.20	102	0.121	<20	2.83	0.018	0.18	0.4	0.04	2.9	0.1	<0.05	9	<0.5
57600E 67700N	Soil	6	72	0.78	86	0.154	<20	2.94	0.016	0.12	0.4	0.06	3.2	0.1	0.06	9	0.8
57600E 67750N	Soil	7	92	1.35	93	0.140	<20	2.68	0.010	0.21	0.4	0.02	3.5	0.2	<0.05	8	<0.5
57600E 67800N	Soil	8	113	1.34	147	0.149	<20	2.65	0.015	0.25	0.2	0.01	4.4	0.2	<0.05	8	0.5
57400E 66300N	Soil	9	80	0.89	89	0.127	<20	1.46	0.020	0.16	0.9	0.01	3.1	<0.1	<0.05	4	<0.5
57400E 66350N	Soil	8	74	0.87	85	0.125	<20	1.70	0.022	0.16	0.3	<0.01	2.8	0.1	<0.05	5	<0.5
57400E 66400N	Soil	7	70	0.76	90	0.146	<20	1.85	0.014	0.10	0.6	0.02	2.4	<0.1	<0.05	5	<0.5
57400E 66450N	Soil	5	68	1.12	141	0.184	<20	2.32	0.019	0.23	0.7	0.02	3.1	0.1	<0.05	6	<0.5
57400E 66500N	Soil	6	65	1.15	140	0.174	<20	2.38	0.021	0.22	1.3	0.03	2.7	<0.1	0.06	6	<0.5
57400E 66550N	Soil	7	76	1.16	160	0.196	<20	3.23	0.014	0.18	5.6	0.04	3.0	0.1	<0.05	8	<0.5
57400E 66600N	Soil	6	75	0.91	116	0.178	<20	2.91	0.015	0.13	0.7	0.05	3.3	0.1	<0.05	8	<0.5
57400E 66650N	Soil	6	89	1.24	129	0.188	<20	2.86	0.020	0.21	0.5	0.04	3.7	0.1	<0.05	8	<0.5
57400E 66700N	Soil	2	17	0.93	256	0.356	<20	2.16	0.012	0.26	0.2	0.02	1.7	<0.1	<0.05	7	<0.5
57400E 66750N	Soil	3	47	1.35	189	0.331	<20	2.86	0.012	0.36	0.2	0.02	3.6	0.1	<0.05	8	<0.5
57400E 66800N	Soil	4	78	1.06	125	0.153	<20	3.14	0.017	0.12	0.3	0.05	2.6	<0.1	<0.05	7	<0.5
57400E 66850N	Soil	5	83	1.26	162	0.166	<20	2.90	0.019	0.21	0.2	0.04	3.2	<0.1	<0.05	9	<0.5
57400E 66900N	Soil	5	82	1.30	134	0.157	<20	1.94	0.026	0.33	0.2	0.01	3.4	0.2	<0.05	6	<0.5
57400E 66950N	Soil	5	89	1.25	138	0.170	<20	2.66	0.028	0.23	0.2	0.03	3.1	0.1	<0.05	8	<0.5
57400E 67000N	Soil	4	78	1.28	123	0.192	<20	2.98	0.035	0.28	0.2	0.03	3.3	<0.1	<0.05	7	<0.5
57400E 67050N	Soil	5	81	1.26	155	0.168	<20	3.07	0.026	0.18	0.2	0.04	3.0	<0.1	<0.05	9	<0.5
57400E 67100N	Soil	9	124	1.40	162	0.158	<20	2.07	0.035	0.48	0.3	0.01	5.0	0.2	<0.05	7	<0.5
57400E 67150N	Soil	4	97	1.26	153	0.129	<20	2.23	0.032	0.42	0.6	0.03	4.0	0.1	<0.05	7	0.6
57400E 67200N	Soil	6	81	1.22	100	0.139	<20	2.10	0.028	0.31	0.2	0.01	3.0	0.1	<0.05	6	<0.5
57400E 67250N	Soil	4	84	1.44	144	0.158	<20	3.35	0.014	0.20	0.3	0.06	3.6	<0.1	<0.05	10	<0.5
57400E 67300N	Soil	6	96	1.60	197	0.219	<20	2.34	0.034	0.60	0.6	0.01	5.8	0.2	<0.05	9	0.7

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

10 of 17

Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	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
57400E 67350N	Soil	1.4	79.4	9.5	63	0.2	67.6	28.9	532	4.94	80.7	1.0	5.8	0.9	34	0.2	1.3	<0.1	163	0.48	0.053		
57400E 67400N	Soil	0.7	67.3	6.8	137	0.1	38.4	27.3	698	4.48	16.2	0.5	2.2	0.9	25	0.4	0.5	<0.1	142	0.49	0.165		
57400E 67450N	Soil	1.5	85.5	6.9	123	0.1	59.6	26.5	743	5.25	62.5	0.7	2.3	0.8	52	0.3	2.4	<0.1	155	0.86	0.061		
57400E 67500N	Soil	1.6	68.4	6.5	49	<0.1	54.4	20.6	386	4.44	27.6	0.7	2.5	0.9	30	0.1	1.2	<0.1	143	0.47	0.024		
57400E 67550N	Soil	2.4	78.2	8.2	75	<0.1	28.0	17.3	447	5.75	49.2	0.5	2.5	0.6	21	0.2	2.9	<0.1	180	0.47	0.108		
57400E 67600N	Soil	1.5	48.8	8.3	65	0.2	37.6	12.2	308	3.77	16.4	0.6	2.5	1.0	21	0.1	0.9	<0.1	107	0.21	0.056		
57400E 67650N	Soil	1.2	68.8	7.7	72	0.2	42.4	16.0	374	4.12	21.4	0.5	8.0	0.8	23	0.3	0.8	<0.1	126	0.28	0.074		
57400E 67700N	Soil	1.3	126.5	8.7	92	0.4	57.9	29.7	668	4.86	36.5	0.9	5.2	1.0	29	0.5	1.3	<0.1	140	0.37	0.093		
57400E 67750N	Soil	1.2	73.2	7.0	84	0.2	51.4	19.2	487	4.16	34.5	0.6	5.7	1.0	27	0.3	1.2	<0.1	119	0.29	0.079		
57400E 67800N	Soil	1.4	72.3	6.5	74	0.1	50.0	18.2	398	4.04	29.7	0.6	5.5	1.1	21	0.2	1.6	<0.1	107	0.26	0.096		
57200E 66300N	Soil	1.0	59.7	4.9	63	0.2	48.2	21.0	668	3.66	13.0	0.8	3.8	1.3	25	0.3	0.9	0.2	121	0.35	0.064		
57200E 66350N	Soil	1.2	74.8	4.8	93	0.1	58.8	23.7	537	4.11	16.1	0.7	4.3	1.2	16	0.3	0.8	0.2	130	0.25	0.056		
57200E 66400N	Soil	0.9	83.1	4.3	64	0.2	64.0	23.1	593	3.71	13.0	1.5	7.2	1.5	29	0.2	0.7	0.2	123	0.44	0.054		
57200E 66450N	Soil	1.0	50.9	4.3	44	<0.1	39.3	18.0	424	2.73	11.4	0.9	6.3	2.2	26	<0.1	0.5	0.2	94	0.38	0.065		
57200E 66500N	Soil	1.1	63.8	5.2	77	<0.1	51.9	20.6	682	3.62	15.6	0.7	3.9	1.5	29	0.2	0.9	0.1	118	0.45	0.104		
57200E 66550N	Soil	1.0	51.0	6.3	124	0.3	39.9	20.0	334	3.55	14.8	0.5	2.3	1.3	16	0.4	0.7	0.5	102	0.23	0.111		
57200E 66600N	Soil	0.9	61.9	5.0	68	<0.1	50.3	20.2	379	3.68	21.3	0.4	3.3	1.5	24	0.2	0.9	<0.1	110	0.36	0.179		
57200E 66650N	Soil	0.9	66.1	4.4	92	0.2	52.6	21.8	441	3.82	19.4	0.5	32.1	1.2	24	0.3	1.0	<0.1	114	0.37	0.145		
57200E 66700N	Soil	0.9	53.9	5.0	69	0.4	41.4	19.0	486	3.53	17.9	0.4	88.2	0.8	25	0.4	0.9	<0.1	111	0.33	0.091		
57200E 66750N	Soil	1.3	69.9	6.5	72	<0.1	53.3	26.9	754	4.00	27.0	0.6	4.2	1.4	29	0.2	1.8	<0.1	125	0.36	0.124		
57200E 66800N	Soil	1.4	77.9	6.6	79	<0.1	55.1	24.8	672	4.06	25.9	0.5	35.0	1.3	33	0.2	1.9	<0.1	122	0.37	0.095		
57200E 66850N	Soil	1.2	83.6	6.8	72	0.2	50.9	22.6	505	3.81	23.2	0.5	12.1	0.6	38	0.3	1.2	0.1	110	0.45	0.065		
57200E 66900N	Soil	1.4	94.9	6.1	72	0.2	77.0	28.3	737	4.59	32.7	1.6	3.5	1.4	39	0.3	1.5	<0.1	137	0.74	0.113		
57200E 66950N	Soil	1.2	75.9	6.7	69	0.2	63.6	26.4	597	4.08	29.4	0.6	6.8	1.0	37	0.4	1.3	<0.1	120	0.62	0.099		
57200E 67000N	Soil	13.1	137.3	12.0	96	0.5	152.6	48.1	1555	9.51	250.0	4.1	5.5	2.3	64	0.3	1.4	0.2	213	0.93	0.100		
57200E 67050N	Soil	1.7	166.1	9.4	102	0.7	151.4	32.6	970	5.30	62.8	3.2	4.2	1.0	47	1.2	1.7	0.2	134	0.73	0.059		
57200E 67100N	Soil	1.7	121.2	9.1	76	0.4	99.4	33.5	816	5.14	122.8	4.7	7.9	1.0	58	0.7	2.2	0.1	177	0.73	0.057		
57200E 67150N	Soil	0.8	39.7	6.9	112	0.2	26.3	15.7	315	3.48	12.8	0.4	1.8	0.7	23	0.3	0.8	0.1	96	0.30	0.217		
57200E 67200N	Soil	0.8	64.0	7.2	78	0.2	47.5	16.4	368	3.59	22.1	0.6	2.8	0.5	40	0.2	0.9	0.1	104	0.44	0.046		
57200E 67250N	Soil	0.8	34.8	6.2	65	0.2	39.2	13.4	267	2.87	9.6	0.3	2.0	0.6	29	0.2	0.7	<0.1	77	0.40	0.103		

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.
 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: Hen

Report Date: August 01, 2008

Page: 10 of 17 Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX Ti	1DX S	1DX Ga	1DX Se
		ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
57400E 67350N	Soil	5	122	1.54	135	0.213	<20	3.43	0.037	0.31	0.7	0.03	4.3	0.1	<0.05	10	0.5		
57400E 67400N	Soil	6	69	1.33	186	0.166	<20	3.00	0.034	0.36	0.1	0.04	3.3	<0.1	<0.05	10	<0.5		
57400E 67450N	Soil	5	84	1.60	141	0.176	<20	2.99	0.029	0.36	0.2	0.02	4.8	0.1	<0.05	11	0.6		
57400E 67500N	Soil	5	115	1.36	82	0.204	<20	3.19	0.023	0.13	0.3	0.03	2.7	<0.1	<0.05	10	0.5		
57400E 67550N	Soil	5	108	1.77	92	0.177	<20	2.62	0.024	0.28	0.3	0.04	3.1	<0.1	<0.05	11	0.6		
57400E 67600N	Soil	5	80	1.00	92	0.172	<20	2.27	0.017	0.14	0.4	0.04	2.4	<0.1	<0.05	10	<0.5		
57400E 67650N	Soil	5	80	1.32	104	0.190	<20	2.83	0.024	0.25	0.3	0.05	3.0	<0.1	<0.05	10	<0.5		
57400E 67700N	Soil	8	99	1.36	144	0.189	<20	3.37	0.022	0.34	0.4	0.05	4.8	0.1	0.05	11	<0.5		
57400E 67750N	Soil	7	82	1.18	121	0.139	<20	2.66	0.015	0.24	0.8	0.04	3.5	0.1	<0.05	9	<0.5		
57400E 67800N	Soil	7	79	1.14	95	0.126	<20	2.90	0.016	0.20	0.4	0.05	3.4	0.1	<0.05	7	0.8		
57200E 66300N	Soil	8	96	1.20	145	0.146	<20	2.02	0.018	0.32	0.2	0.02	3.7	0.1	<0.05	7	<0.5		
57200E 66350N	Soil	6	98	1.36	140	0.193	<20	2.52	0.017	0.37	0.3	0.02	3.5	0.2	0.05	8	0.5		
57200E 66400N	Soil	10	108	1.46	151	0.213	<20	2.30	0.022	0.52	0.6	0.01	4.0	0.2	<0.05	7	<0.5		
57200E 66450N	Soil	9	73	1.10	125	0.156	<20	1.68	0.025	0.33	0.2	<0.01	3.7	0.2	<0.05	5	<0.5		
57200E 66500N	Soil	8	86	1.40	169	0.166	<20	2.22	0.022	0.39	0.3	0.02	3.6	0.2	<0.05	7	<0.5		
57200E 66550N	Soil	5	72	1.04	98	0.165	<20	2.56	0.016	0.18	0.2	0.03	2.9	<0.1	<0.05	9	<0.5		
57200E 66600N	Soil	5	73	1.30	143	0.151	<20	2.47	0.025	0.35	0.4	0.02	3.0	0.1	<0.05	7	<0.5		
57200E 66650N	Soil	5	80	1.30	155	0.142	<20	2.35	0.019	0.28	0.2	0.01	3.0	0.1	<0.05	7	<0.5		
57200E 66700N	Soil	5	69	1.19	130	0.143	<20	1.99	0.016	0.29	0.2	0.01	2.6	0.2	<0.05	7	<0.5		
57200E 66750N	Soil	6	96	1.54	154	0.184	<20	2.55	0.020	0.47	0.4	0.01	4.9	0.2	<0.05	7	0.8		
57200E 66800N	Soil	6	87	1.63	146	0.190	<20	2.36	0.025	0.45	0.2	0.01	4.1	0.2	<0.05	7	0.6		
57200E 66850N	Soil	6	77	1.25	115	0.181	<20	2.15	0.020	0.28	0.2	0.03	3.1	0.1	<0.05	7	<0.5		
57200E 66900N	Soil	8	118	1.71	208	0.213	<20	2.55	0.025	0.63	0.3	0.02	7.0	0.3	<0.05	8	<0.5		
57200E 66950N	Soil	5	94	1.49	160	0.196	<20	2.34	0.022	0.46	0.3	0.02	3.5	0.2	<0.05	7	<0.5		
57200E 67000N	Soil	11	223	2.34	328	0.208	<20	4.17	0.026	0.75	2.2	0.05	10.5	0.4	<0.05	10	1.1		
57200E 67050N	Soil	9	195	1.91	233	0.174	<20	3.99	0.019	0.53	0.3	0.03	6.4	0.3	<0.05	10	0.7		
57200E 67100N	Soil	8	166	1.66	196	0.179	<20	3.48	0.022	0.46	2.5	0.04	7.2	0.2	<0.05	10	0.8		
57200E 67150N	Soil	3	47	0.81	124	0.158	<20	2.39	0.016	0.12	0.2	0.05	2.2	<0.1	<0.05	8	<0.5		
57200E 67200N	Soil	5	75	1.22	96	0.189	<20	2.18	0.020	0.23	0.1	0.03	2.7	<0.1	<0.05	8	<0.5		
57200E 67250N	Soil	4	77	0.85	157	0.179	<20	1.53	0.019	0.10	0.2	0.03	1.8	<0.1	<0.05	7	<0.5		

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.
 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: Hen

Report Date: August 01, 2008

Page: 11 of 17 Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	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
57200E 67300N	Soil	0.6	61.6	5.7	51	<0.1	54.5	19.1	414	3.09	22.4	0.4	11.2	1.6	34	0.2	1.3	<0.1	95	0.43	0.137		
57200E 67350N	Soil	0.9	51.6	5.3	59	<0.1	43.8	17.0	271	3.36	18.4	0.4	7.4	1.1	23	0.2	0.9	<0.1	98	0.30	0.098		
57200E 67400N	Soil	0.9	67.7	6.0	67	0.2	65.7	18.0	328	3.70	19.1	0.5	3.3	1.2	20	0.1	1.0	<0.1	101	0.25	0.072		
57200E 67450N	Soil	0.6	96.9	5.9	118	0.2	42.6	28.1	568	5.44	14.3	0.5	2.1	1.3	22	0.2	0.8	<0.1	141	0.61	0.226		
57200E 67500N	Soil	0.8	57.1	6.3	77	<0.1	67.0	19.0	454	3.67	18.8	0.4	2.0	1.4	32	0.2	1.1	<0.1	109	0.41	0.092		
57200E 67550N	Soil	1.5	69.8	6.2	120	0.3	53.7	30.5	1621	4.52	67.4	0.9	2.3	0.6	63	0.5	3.8	0.1	124	0.88	0.136		
57200E 67600N	Soil	1.1	78.0	6.6	72	0.2	60.6	24.7	575	4.93	29.1	0.5	4.4	0.7	23	0.3	1.5	0.1	136	0.35	0.106		
57200E 67650N	Soil	1.0	73.9	6.7	69	0.2	59.7	20.7	443	3.80	24.0	0.6	6.0	1.0	48	0.3	1.3	0.1	108	0.62	0.132		
57200E 67700N	Soil	1.1	71.3	6.6	65	0.4	51.2	19.7	373	3.93	23.0	0.6	5.7	0.5	64	0.4	2.2	<0.1	98	0.52	0.130		
57200E 67750N	Soil	0.9	59.1	6.4	85	0.1	59.8	23.9	468	4.98	27.8	0.6	2.1	0.6	56	0.2	2.4	0.1	118	0.44	0.147		
57200E 67800N	Soil	0.9	63.2	6.1	54	<0.1	46.0	17.8	371	3.72	24.4	0.7	3.7	1.1	53	0.2	2.2	<0.1	110	0.42	0.091		
57200E 67850N	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.	I.S.	I.S.
57200E 67900N	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.	I.S.	I.S.
57200E 67950N	Soil	1.2	103.2	9.6	79	0.8	49.0	25.4	880	3.64	19.6	1.0	5.1	0.3	33	0.7	2.2	0.1	97	0.23	0.081		
57200E 68000N	Soil	1.3	93.6	7.2	53	0.4	30.3	16.2	525	4.00	14.6	0.8	3.1	0.5	29	0.3	2.5	<0.1	138	0.30	0.098		
57000E 66300N	Soil	1.0	48.7	5.3	78	<0.1	39.1	17.3	481	2.64	7.0	0.7	1.5	1.5	24	0.2	0.6	0.7	84	0.26	0.031		
57000E 66350N	Soil	1.1	15.5	8.2	60	<0.1	14.6	8.0	177	2.71	5.0	0.6	1.6	2.4	13	0.1	0.5	0.7	73	0.12	0.192		
57000E 66400N	Soil	1.1	28.6	7.2	98	<0.1	29.5	14.4	288	3.20	6.4	0.6	1.5	3.0	21	0.2	0.6	0.5	83	0.27	0.185		
57000E 66450N	Soil	1.3	47.3	5.9	78	0.2	41.6	16.0	300	3.50	14.0	0.6	2.2	1.7	23	0.2	0.9	0.6	100	0.24	0.139		
57000E 66500N	Soil	1.5	80.4	6.4	50	0.2	43.5	19.5	405	3.41	17.0	0.9	8.2	1.5	27	0.1	1.0	0.9	110	0.26	0.036		
57000E 66550N	Soil	1.4	45.8	6.6	78	0.1	35.5	15.3	295	2.88	10.3	0.6	1.5	1.7	18	0.3	0.8	1.2	82	0.19	0.082		
57000E 66600N	Soil	1.0	50.2	5.4	73	0.2	38.5	18.1	271	3.32	12.9	0.5	3.2	1.4	24	0.4	0.9	1.9	94	0.31	0.165		
57000E 66650N	Soil	1.3	49.4	5.8	72	0.3	45.1	20.1	295	3.92	17.2	0.5	2.8	1.6	25	0.2	1.2	0.5	113	0.27	0.137		
57000E 66700N	Soil	1.4	38.5	6.3	73	<0.1	30.8	15.1	351	2.78	10.3	0.5	6.6	1.4	21	0.1	0.6	0.6	73	0.27	0.131		
57000E 66750N	Soil	1.4	33.5	7.0	87	<0.1	26.8	15.2	356	3.54	14.2	0.5	2.5	1.4	23	0.2	0.8	0.7	96	0.32	0.429		
57000E 66800N	Soil	0.8	67.8	5.7	135	0.2	29.1	26.7	496	4.25	13.9	0.5	1.8	0.9	23	0.5	0.5	2.8	122	0.37	0.209		
57000E 66850N	Soil	0.7	52.3	4.3	43	<0.1	33.6	16.9	413	3.33	16.3	0.7	3.9	1.7	22	<0.1	1.1	0.2	121	0.41	0.092		
57000E 66900N	Soil	0.5	43.9	3.3	38	<0.1	31.0	14.1	315	2.52	11.1	0.6	19.8	1.3	32	<0.1	0.8	0.1	91	0.47	0.108		
57000E 66950N	Soil	1.4	69.9	5.5	56	0.2	60.9	22.0	593	3.87	104.2	1.6	2.5	0.5	48	0.2	2.2	<0.1	132	0.77	0.064		
57000E 67000N	Soil	0.9	55.6	7.4	100	0.2	55.7	20.7	531	4.21	34.4	0.5	2.8	0.6	29	0.3	1.2	0.1	123	0.44	0.164		

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

11 of 17 Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
	La ppm 1	Cr ppm 1	Mg % 0.01	Ba ppm 1	Ti % 0.001	B ppm 20	Al % 0.01	Na % 0.001	K % 0.01	W ppm 0.1	Hg ppm 0.01	Sc ppm 0.1	Tl ppm 0.1	S % 0.05	Ga ppm 1	Se ppm 0.5	
57200E 67300N	Soil	8	77	1.19	132	0.170	<20	1.90	0.024	0.32	0.2	0.01	3.2	0.2	<0.05	5	<0.5
57200E 67350N	Soil	5	65	1.00	168	0.194	<20	2.15	0.018	0.16	0.2	0.03	2.4	<0.1	<0.05	7	<0.5
57200E 67400N	Soil	6	99	1.20	145	0.203	<20	2.53	0.016	0.18	0.2	0.02	2.9	<0.1	<0.05	8	<0.5
57200E 67450N	Soil	6	57	1.72	183	0.310	<20	3.56	0.041	0.34	0.3	0.03	3.5	<0.1	<0.05	11	<0.5
57200E 67500N	Soil	7	104	1.49	131	0.210	<20	2.40	0.018	0.24	0.1	0.02	3.6	<0.1	<0.05	7	<0.5
57200E 67550N	Soil	7	84	1.16	204	0.144	<20	2.39	0.036	0.36	0.2	0.06	4.0	0.2	0.07	6	1.2
57200E 67600N	Soil	5	102	1.75	96	0.177	<20	2.81	0.019	0.32	1.5	0.03	3.2	0.1	<0.05	8	0.6
57200E 67650N	Soil	6	88	1.19	179	0.196	<20	2.29	0.018	0.30	0.2	0.05	3.4	0.1	<0.05	7	<0.5
57200E 67700N	Soil	5	120	1.26	152	0.136	<20	2.19	0.027	0.24	0.6	0.05	2.1	<0.1	<0.05	7	0.5
57200E 67750N	Soil	6	140	1.41	145	0.154	<20	2.42	0.024	0.26	0.1	0.04	2.4	<0.1	<0.05	8	<0.5
57200E 67800N	Soil	7	88	1.18	114	0.173	<20	2.49	0.026	0.25	0.3	0.02	3.4	0.1	<0.05	7	0.8
57200E 67850N	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.
57200E 67900N	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.
57200E 67950N	Soil	11	92	0.88	104	0.127	<20	2.43	0.018	0.21	0.2	0.05	4.2	0.1	<0.05	8	<0.5
57200E 68000N	Soil	6	66	1.38	98	0.184	<20	2.61	0.024	0.39	0.2	0.05	4.2	<0.1	<0.05	10	<0.5
57000E 66300N	Soil	7	64	0.85	98	0.183	<20	1.56	0.017	0.17	0.6	<0.01	2.7	0.1	<0.05	5	<0.5
57000E 66350N	Soil	5	43	0.43	123	0.169	<20	1.38	0.011	0.07	2.9	0.02	1.6	<0.1	<0.05	8	<0.5
57000E 66400N	Soil	6	61	0.77	168	0.203	<20	1.73	0.013	0.11	4.3	0.02	2.0	<0.1	<0.05	8	<0.5
57000E 66450N	Soil	6	71	1.07	133	0.170	<20	2.15	0.014	0.22	1.0	0.02	2.8	0.1	<0.05	7	0.5
57000E 66500N	Soil	9	81	1.23	162	0.194	<20	2.04	0.020	0.31	2.3	0.02	3.3	0.2	<0.05	6	<0.5
57000E 66550N	Soil	6	63	0.86	95	0.171	<20	1.67	0.015	0.15	2.2	0.01	2.4	<0.1	<0.05	6	<0.5
57000E 66600N	Soil	5	66	1.02	124	0.178	<20	2.14	0.014	0.19	0.8	0.03	2.4	<0.1	<0.05	7	<0.5
57000E 66650N	Soil	5	76	1.15	168	0.175	<20	2.63	0.017	0.14	0.9	0.04	3.3	<0.1	<0.05	6	<0.5
57000E 66700N	Soil	4	54	0.65	103	0.140	<20	2.29	0.013	0.06	0.8	0.04	2.1	<0.1	<0.05	5	<0.5
57000E 66750N	Soil	4	65	0.85	139	0.167	<20	1.96	0.016	0.15	1.1	0.04	2.4	<0.1	<0.05	7	<0.5
57000E 66800N	Soil	4	73	1.30	168	0.254	<20	2.25	0.018	0.38	0.3	0.03	2.2	0.1	<0.05	9	<0.5
57000E 66850N	Soil	7	66	0.96	101	0.177	<20	1.58	0.024	0.32	0.5	<0.01	2.9	0.1	<0.05	5	<0.5
57000E 66900N	Soil	7	60	0.91	125	0.153	<20	1.36	0.027	0.28	0.2	<0.01	3.2	0.1	<0.05	4	<0.5
57000E 66950N	Soil	6	101	1.31	141	0.168	<20	2.22	0.026	0.32	0.5	0.02	4.2	0.2	<0.05	7	1.1
57000E 67000N	Soil	5	92	1.33	155	0.200	<20	2.39	0.019	0.26	0.4	0.03	3.1	0.1	<0.05	9	0.5

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

12 of 17

Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P	
		ppm		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	ppm	1	ppm	ppm	ppm	ppm	2	%	%
57000E 67050N	Soil	0.7	75.8	5.1	84	0.1	73.2	24.3	511	3.79	19.2	0.5	10.5	0.9	34	0.4	0.9	<0.1	108	0.44	0.089			
57000E 67100N	Soil	0.9	128.0	6.5	58	0.3	79.7	24.2	512	4.00	36.7	1.3	4.5	1.0	32	0.4	1.3	0.1	130	0.38	0.044			
57000E 67150N	Soil	0.6	75.9	3.9	50	<0.1	40.5	19.0	442	3.71	21.5	0.6	6.0	1.0	44	0.1	1.2	<0.1	126	0.71	0.107			
57000E 67200N	Soil	0.8	91.2	5.6	73	0.2	65.7	25.4	647	4.23	22.7	0.8	24.3	0.9	38	0.3	1.2	0.1	123	0.52	0.081			
57000E 67250N	Soil	0.6	63.5	4.0	74	0.1	40.6	20.7	554	4.77	22.3	0.4	16.4	0.9	37	0.3	2.1	<0.1	166	0.76	0.174			
57000E 67300N	Soil	0.9	83.3	5.6	65	0.2	45.5	23.0	635	4.77	23.4	0.5	2.4	0.6	35	0.3	0.7	<0.1	170	0.50	0.091			
57000E 67350N	Soil	0.7	78.4	6.5	83	0.2	55.4	22.8	585	4.02	21.4	0.5	3.3	0.9	18	0.4	1.0	<0.1	116	0.29	0.083			
57000E 67400N	Soil	0.6	73.9	4.9	55	0.1	49.0	21.1	512	3.47	18.8	0.5	3.7	0.9	30	0.2	1.3	<0.1	103	0.41	0.060			
57000E 67450N	Soil	0.6	91.4	4.8	65	0.1	70.1	25.3	581	4.50	19.7	0.5	2.1	0.8	43	0.3	1.1	<0.1	126	0.51	0.061			
57000E 67500N	Soil	0.8	69.6	4.6	69	<0.1	59.3	19.0	381	3.19	16.9	0.5	2.6	1.2	37	0.3	1.4	<0.1	88	0.42	0.082			
57000E 67550N	Soil	0.7	36.4	5.9	74	<0.1	36.9	16.4	399	3.11	17.9	0.4	8.9	0.8	23	0.2	1.0	<0.1	90	0.37	0.162			
57000E 67600N	Soil	0.9	110.5	8.1	83	0.4	64.3	23.8	864	4.29	33.6	1.2	3.5	0.4	49	0.7	2.0	0.1	115	0.68	0.092			
57000E 67650N	Soil	1.1	101.2	8.0	62	0.2	62.7	24.7	566	4.68	34.1	0.8	2.1	1.0	45	0.3	1.7	0.1	136	0.60	0.073			
57000E 67700N	Soil	0.9	85.0	6.2	63	<0.1	64.2	23.9	638	3.93	36.7	0.6	6.5	2.3	40	0.2	1.6	0.1	119	0.59	0.132			
57000E 67750N	Soil	1.4	66.8	6.9	87	0.2	46.4	19.1	565	4.19	22.8	0.6	1.8	0.5	31	0.3	2.0	<0.1	118	0.36	0.096			
57000E 67800N	Soil	2.1	106.6	9.0	104	0.4	47.1	22.4	704	4.47	29.7	1.3	5.3	0.5	22	0.4	1.9	0.1	122	0.26	0.082			
57000E 67850N	Soil	1.7	115.9	9.8	85	0.5	55.6	21.5	542	3.66	20.0	1.6	4.4	0.3	24	0.4	1.6	0.1	104	0.23	0.090			
57000E 67900N	Soil	3.6	162.8	13.3	113	0.5	99.2	36.4	992	6.04	45.1	1.9	5.9	1.0	46	0.6	2.1	0.2	163	0.33	0.064			
57000E 67950N	Soil	1.4	74.5	7.8	78	0.2	54.3	20.3	581	4.16	26.1	0.8	2.8	1.0	28	0.3	2.2	0.1	119	0.31	0.079			
57000E 68000N	Soil	1.6	141.2	10.1	95	0.6	66.3	29.7	807	5.64	29.4	0.8	2.8	0.7	35	0.4	2.5	0.1	157	0.39	0.122			
56800E 66500N	Soil	1.5	69.3	5.0	53	0.2	44.0	18.2	469	3.20	18.0	1.0	6.2	1.3	34	0.2	1.1	0.4	104	0.42	0.087			
56800E 66550N	Soil	1.1	58.7	5.7	65	0.1	47.0	21.3	603	3.42	17.4	0.7	3.6	1.1	39	0.2	1.2	0.3	107	0.54	0.103			
56800E 66600N	Soil	1.0	43.4	5.9	56	0.1	35.3	16.3	318	3.32	18.9	0.4	2.5	0.7	30	0.2	1.0	0.3	108	0.42	0.132			
56800E 66650N	Soil	1.3	85.0	5.3	60	0.1	51.4	20.2	457	3.45	23.4	1.4	1.6	1.5	30	0.2	1.1	0.5	114	0.44	0.064			
56800E 66700N	Soil	0.8	55.5	6.7	84	0.2	43.6	17.9	388	3.23	16.9	0.7	1.9	0.5	29	0.5	0.8	0.3	94	0.39	0.086			
56800E 66750N	Soil	1.3	172.3	7.2	78	0.5	86.1	28.7	758	4.13	29.4	1.9	4.5	1.0	34	0.7	1.3	0.3	127	0.54	0.052			
56800E 66800N	Soil	0.7	48.7	6.2	82	0.1	42.8	19.0	432	3.27	18.0	0.4	0.8	0.9	26	0.3	0.9	0.1	95	0.36	0.109			
56800E 66850N	Soil	1.6	74.0	5.0	70	0.2	54.2	16.9	357	3.12	17.9	0.9	4.1	0.9	26	0.5	1.1	0.1	98	0.41	0.045			
56800E 66900N	Soil	1.1	22.9	6.1	77	0.2	23.0	11.5	399	2.79	8.4	0.4	4.5	0.6	20	0.3	0.6	0.2	82	0.28	0.140			
56800E 66950N	Soil	0.8	57.6	5.3	59	<0.1	44.1	18.6	470	3.40	16.7	0.6	12.0	1.1	26	0.2	1.0	0.1	109	0.41	0.103			

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

12 of 17

Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
	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	
57000E 67050N	Soil	6	107	1.54	140	0.189	<20	2.47	0.024	0.33	0.1	0.01	3.6	0.2	<0.05	7	0.6
57000E 67100N	Soil	9	129	1.50	159	0.215	<20	2.68	0.032	0.34	0.3	0.02	5.3	0.2	<0.05	8	<0.5
57000E 67150N	Soil	6	71	1.27	149	0.214	<20	1.79	0.025	0.43	0.3	0.02	3.6	0.1	<0.05	6	<0.5
57000E 67200N	Soil	7	106	1.59	161	0.209	<20	2.64	0.025	0.43	0.2	0.02	4.4	0.2	<0.05	8	<0.5
57000E 67250N	Soil	7	69	1.79	130	0.257	<20	2.35	0.021	0.44	0.4	0.01	3.9	0.2	<0.05	9	0.6
57000E 67300N	Soil	7	118	1.39	128	0.260	<20	2.30	0.025	0.33	0.1	0.01	4.0	<0.1	<0.05	8	<0.5
57000E 67350N	Soil	7	81	1.15	147	0.215	<20	2.58	0.023	0.28	0.2	0.03	3.8	<0.1	<0.05	8	<0.5
57000E 67400N	Soil	8	75	1.22	139	0.211	<20	2.04	0.028	0.35	0.2	0.01	3.6	0.1	<0.05	6	<0.5
57000E 67450N	Soil	6	153	1.81	162	0.227	<20	2.52	0.038	0.46	0.2	<0.01	4.0	0.1	<0.05	7	0.7
57000E 67500N	Soil	7	94	1.11	116	0.154	<20	1.71	0.022	0.23	0.4	0.02	3.2	<0.1	<0.05	5	0.6
57000E 67550N	Soil	6	63	0.86	123	0.154	<20	1.82	0.025	0.15	0.3	0.02	2.4	<0.1	<0.05	6	<0.5
57000E 67600N	Soil	13	95	1.10	195	0.144	<20	2.84	0.023	0.31	0.1	0.04	4.7	0.1	<0.05	8	1.0
57000E 67650N	Soil	7	102	1.42	178	0.198	<20	2.89	0.030	0.38	0.2	0.02	5.2	0.1	<0.05	8	0.7
57000E 67700N	Soil	8	93	1.50	195	0.206	<20	2.46	0.041	0.54	0.4	<0.01	5.7	0.2	<0.05	7	0.6
57000E 67750N	Soil	6	88	1.24	114	0.204	<20	2.45	0.030	0.35	0.2	0.03	3.3	0.1	<0.05	8	<0.5
57000E 67800N	Soil	8	88	1.06	95	0.205	<20	2.70	0.023	0.27	0.2	0.03	4.5	0.1	<0.05	10	0.8
57000E 67850N	Soil	10	104	1.18	120	0.159	<20	3.10	0.025	0.30	0.2	0.05	5.2	0.2	<0.05	9	0.7
57000E 67900N	Soil	12	179	1.80	205	0.221	<20	4.26	0.027	0.43	0.2	0.02	8.1	0.2	<0.05	11	0.7
57000E 67950N	Soil	8	96	1.37	111	0.214	<20	2.57	0.026	0.32	0.3	0.02	3.9	0.2	<0.05	8	0.5
57000E 68000N	Soil	7	133	2.06	176	0.199	<20	4.03	0.038	0.54	0.2	0.03	4.5	0.2	<0.05	11	<0.5
56800E 66500N	Soil	10	76	1.08	129	0.184	<20	1.85	0.023	0.34	0.5	0.02	3.3	0.2	<0.05	6	0.6
56800E 66550N	Soil	8	81	1.38	172	0.193	<20	1.99	0.021	0.37	0.4	0.01	3.8	0.2	<0.05	6	<0.5
56800E 66600N	Soil	5	72	1.10	140	0.184	<20	1.78	0.021	0.30	0.3	0.01	3.0	0.1	<0.05	6	<0.5
56800E 66650N	Soil	12	83	1.23	152	0.200	<20	2.03	0.023	0.34	1.0	0.01	4.9	0.2	<0.05	6	<0.5
56800E 66700N	Soil	6	71	0.95	144	0.174	<20	1.81	0.018	0.26	0.3	0.02	3.2	0.1	<0.05	7	<0.5
56800E 66750N	Soil	11	99	1.30	161	0.216	<20	2.22	0.022	0.42	0.5	0.02	6.2	0.2	<0.05	8	0.9
56800E 66800N	Soil	6	76	1.06	127	0.174	<20	1.81	0.021	0.24	0.8	<0.01	3.2	0.1	<0.05	6	<0.5
56800E 66850N	Soil	8	71	0.93	117	0.181	<20	1.77	0.021	0.26	0.2	0.01	4.3	0.2	<0.05	6	0.6
56800E 66900N	Soil	5	56	0.62	86	0.147	<20	1.42	0.017	0.09	0.3	0.03	1.8	<0.1	<0.05	6	<0.5
56800E 66950N	Soil	8	77	1.07	115	0.190	<20	1.95	0.022	0.29	0.3	0.01	3.3	0.1	<0.05	6	0.9

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

13 of 17

Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

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	
56800E 67000N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
56800E 67050N	Soil	0.9	64.5	6.4	54	0.1	46.1	15.6	354	3.26	16.4	1.0	5.0	1.3	41	0.2	1.1	0.1	91	0.36	0.053
56800E 67100N	Soil	0.6	50.9	3.5	47	<0.1	39.9	19.1	434	3.24	17.0	0.7	26.6	1.1	36	0.1	0.9	0.1	102	0.63	0.114
56800E 67150N	Soil	0.7	65.0	4.5	57	<0.1	41.3	22.7	635	4.16	20.1	0.7	4.7	1.0	34	0.2	0.8	0.1	138	0.60	0.092
56800E 67200N	Soil	0.5	52.4	4.1	45	<0.1	38.0	16.4	356	2.71	14.4	0.7	3.5	1.7	32	<0.1	0.8	<0.1	91	0.47	0.115
56800E 67250N	Soil	0.5	58.6	4.6	53	<0.1	44.5	18.1	342	3.35	18.9	0.6	3.7	1.5	29	0.2	1.1	0.1	106	0.48	0.130
56800E 67300N	Soil	0.8	49.0	4.8	35	<0.1	31.9	15.0	327	2.89	16.3	0.7	4.4	2.1	26	<0.1	1.0	0.1	97	0.29	0.045
56800E 67350N	Soil	0.9	53.1	5.8	57	<0.1	42.3	18.2	310	3.43	19.7	0.5	4.5	1.6	22	0.2	1.3	0.1	108	0.26	0.065
56800E 67400N	Soil	0.8	41.6	5.1	48	<0.1	32.1	15.3	358	3.00	12.2	0.6	2.5	1.7	33	0.2	1.5	0.2	96	0.48	0.096
56800E 67450N	Soil	1.4	98.8	5.4	69	0.2	61.2	24.4	1068	4.28	23.0	1.6	3.0	1.5	57	0.4	1.7	<0.1	129	0.66	0.093
56800E 67500N	Soil	0.7	61.9	4.5	48	<0.1	50.6	19.3	478	3.13	17.8	0.5	2.5	1.7	38	0.1	1.7	<0.1	100	0.38	0.035
56800E 67550N	Soil	0.7	88.9	5.9	59	<0.1	57.9	23.4	578	3.66	25.5	0.4	5.4	2.0	35	0.2	1.7	0.1	112	0.53	0.163
56800E 67600N	Soil	0.7	52.4	5.9	74	<0.1	36.7	19.2	774	3.24	14.4	0.3	8.7	0.6	30	0.2	1.1	<0.1	100	0.32	0.087
56800E 67650N	Soil	0.7	65.6	5.1	67	0.2	50.5	21.2	355	3.68	17.6	0.4	3.3	1.2	36	0.4	2.6	<0.1	108	0.48	0.084
56800E 67700N	Soil	0.6	109.5	4.9	87	<0.1	24.7	24.7	455	4.85	2.5	0.3	1.0	0.5	48	0.1	0.8	<0.1	151	0.54	0.168
56800E 67750N	Soil	0.3	91.1	3.5	68	<0.1	123.2	39.1	464	4.65	9.5	0.2	<0.5	0.5	52	<0.1	0.5	<0.1	123	0.46	0.114
56800E 67800N	Soil	0.9	72.0	5.3	52	0.2	62.6	22.4	332	3.46	20.5	0.5	1.2	1.9	29	0.2	1.5	<0.1	90	0.33	0.099
56800E 67850N	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.
56800E 67900N	Soil	1.7	78.1	6.1	97	0.2	68.3	22.5	342	4.23	19.8	0.5	17.4	1.2	33	0.3	2.1	<0.1	110	0.21	0.094
56800E 67950N	Soil	0.5	68.1	5.2	55	0.1	56.1	20.6	478	3.29	15.9	0.5	3.7	1.6	57	0.2	1.2	<0.1	103	0.42	0.112
56800E 68000N	Soil	1.0	72.4	6.0	68	0.2	52.9	21.8	356	4.01	19.7	0.6	7.2	1.2	35	0.4	1.5	0.1	112	0.32	0.074
56600E 66500N	Soil	1.4	101.8	7.5	85	0.4	69.1	30.8	1186	4.09	26.2	1.9	5.9	1.5	25	0.3	2.8	0.5	134	0.27	0.088
56600E 66550N	Soil	1.2	71.5	6.5	69	0.3	47.9	23.3	780	3.29	15.8	1.0	3.8	0.6	19	0.3	1.2	0.2	101	0.20	0.065
56600E 66600N	Soil	1.0	61.7	5.1	57	0.2	51.9	21.9	508	3.39	73.7	1.3	6.1	1.2	47	0.1	1.9	0.1	113	0.67	0.082
56600E 66650N	Soil	0.8	27.5	5.3	50	<0.1	34.4	14.3	195	2.90	10.4	0.3	1.8	1.6	22	0.2	0.8	0.3	95	0.25	0.035
56600E 66700N	Soil	1.3	46.4	6.2	58	0.1	48.2	20.6	294	3.88	36.6	0.6	2.5	1.7	28	0.1	1.0	0.2	121	0.31	0.021
56600E 66750N	Soil	0.8	37.1	4.3	40	<0.1	29.4	14.3	199	2.90	14.2	0.4	6.0	1.8	21	<0.1	0.8	0.2	100	0.24	0.044
56600E 66800N	Soil	1.1	64.5	5.6	60	0.2	53.9	20.5	479	3.79	63.7	1.4	3.2	1.2	49	0.1	1.8	0.1	120	0.69	0.055
56600E 66850N	Soil	1.5	39.7	6.2	51	0.2	37.7	18.0	237	3.72	23.3	0.4	2.2	1.0	22	0.3	0.9	0.2	118	0.22	0.022
56600E 66900N	Soil	0.7	98.0	3.1	60	<0.1	30.7	20.1	387	3.25	23.8	0.6	6.9	1.6	26	0.1	2.2	0.1	129	0.37	0.099

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

13 of 17

Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method Analyte Unit MDL	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	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
56800E 67000N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
56800E 67050N	Soil	10	84	1.03	95	0.183	<20	1.97	0.019	0.19	0.1	0.02	4.4	0.1	<0.05	6	0.7
56800E 67100N	Soil	7	76	1.25	142	0.199	<20	1.90	0.029	0.30	0.1	0.02	3.1	<0.1	<0.05	6	<0.5
56800E 67150N	Soil	6	79	1.41	154	0.241	<20	2.14	0.024	0.43	0.2	0.02	4.1	0.1	<0.05	7	<0.5
56800E 67200N	Soil	8	67	1.03	127	0.170	<20	1.50	0.030	0.34	0.2	<0.01	3.2	0.1	<0.05	5	<0.5
56800E 67250N	Soil	8	77	1.13	135	0.179	<20	1.98	0.030	0.31	0.3	0.02	3.2	0.1	<0.05	6	<0.5
56800E 67300N	Soil	9	60	0.86	100	0.174	<20	1.58	0.018	0.19	0.3	0.02	3.3	0.1	<0.05	5	<0.5
56800E 67350N	Soil	8	70	0.91	129	0.188	<20	2.12	0.019	0.22	0.4	0.03	3.2	<0.1	<0.05	7	<0.5
56800E 67400N	Soil	9	68	0.82	101	0.149	<20	1.39	0.021	0.27	0.2	0.01	2.5	0.1	<0.05	6	<0.5
56800E 67450N	Soil	7	97	1.55	195	0.208	<20	2.53	0.035	0.51	0.1	0.02	5.9	0.2	<0.05	8	<0.5
56800E 67500N	Soil	7	72	1.15	120	0.190	<20	1.65	0.029	0.39	0.2	<0.01	3.9	0.2	<0.05	5	<0.5
56800E 67550N	Soil	7	85	1.37	166	0.194	<20	2.38	0.026	0.49	0.2	<0.01	3.8	0.2	<0.05	6	<0.5
56800E 67600N	Soil	4	70	1.09	142	0.182	<20	1.96	0.023	0.14	0.2	0.02	2.4	<0.1	<0.05	7	<0.5
56800E 67650N	Soil	5	75	1.21	123	0.192	<20	2.40	0.021	0.22	0.3	0.01	2.8	<0.1	<0.05	7	<0.5
56800E 67700N	Soil	3	56	1.98	168	0.333	<20	3.29	0.045	0.35	0.2	0.04	3.2	<0.1	<0.05	11	<0.5
56800E 67750N	Soil	3	309	2.61	307	0.233	<20	3.33	0.032	0.78	0.2	<0.01	2.2	<0.1	<0.05	8	<0.5
56800E 67800N	Soil	7	102	1.22	164	0.148	<20	2.23	0.023	0.21	0.2	0.03	2.9	0.1	<0.05	6	<0.5
56800E 67850N	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.
56800E 67900N	Soil	6	121	1.34	141	0.170	<20	3.36	0.013	0.10	0.2	0.05	3.5	<0.1	<0.05	7	<0.5
56800E 67950N	Soil	8	77	1.27	143	0.205	<20	2.07	0.030	0.38	0.2	0.01	3.6	0.1	<0.05	6	<0.5
56800E 68000N	Soil	6	92	1.24	145	0.189	<20	2.68	0.023	0.25	0.3	0.04	3.3	<0.1	<0.05	8	<0.5
56600E 66500N	Soil	12	124	1.41	162	0.170	<20	2.60	0.015	0.45	0.3	0.04	9.2	0.3	<0.05	7	0.5
56600E 66550N	Soil	8	82	0.94	116	0.136	<20	1.92	0.013	0.32	0.3	0.03	3.7	0.1	<0.05	7	<0.5
56600E 66600N	Soil	8	85	1.15	142	0.137	<20	2.06	0.018	0.26	0.5	0.02	4.3	0.1	<0.05	6	0.6
56600E 66650N	Soil	5	63	0.77	97	0.192	<20	1.54	0.017	0.14	2.1	0.01	1.9	<0.1	<0.05	6	<0.5
56600E 66700N	Soil	5	85	0.97	96	0.208	<20	2.28	0.019	0.16	0.5	0.01	2.9	0.1	<0.05	7	<0.5
56600E 66750N	Soil	6	57	0.72	92	0.174	<20	1.48	0.016	0.15	0.8	<0.01	2.0	<0.1	<0.05	5	<0.5
56600E 66800N	Soil	8	87	1.16	155	0.168	<20	2.35	0.024	0.19	0.5	0.03	4.7	0.1	<0.05	7	<0.5
56600E 66850N	Soil	4	71	0.79	120	0.226	<20	1.95	0.011	0.17	0.3	0.02	2.5	<0.1	<0.05	7	<0.5
56600E 66900N	Soil	6	50	1.01	179	0.234	<20	1.71	0.012	0.48	0.6	0.01	4.6	0.2	<0.05	5	<0.5

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.
 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: Hen

Report Date: August 01, 2008

Page: 14 of 17 Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	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	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
56600E 66950N	Soil	0.7	149.1	1.0	54	<0.1	22.6	22.8	322	4.21	11.2	0.5	1.8	1.2	14	<0.1	1.4	<0.1	223	0.29	0.085		
56600E 67000N	Soil	1.3	54.9	6.5	136	0.3	48.4	24.5	1028	3.79	16.7	0.7	4.4	1.4	31	0.6	1.1	0.2	110	0.41	0.059		
56600E 67050N	Soil	0.8	59.3	5.1	54	0.2	43.8	16.8	509	3.04	14.6	0.8	5.7	1.3	34	0.4	1.0	0.1	97	0.54	0.084		
56600E 67100N	Soil	0.9	91.0	6.2	65	0.3	56.8	18.6	596	3.44	19.6	1.3	4.0	1.6	37	0.6	1.1	0.2	105	0.49	0.069		
56600E 67150N	Soil	0.7	52.7	5.4	57	0.2	44.9	16.4	440	3.17	15.1	0.6	6.1	1.4	35	0.2	1.2	0.2	88	0.50	0.084		
56600E 67200N	Soil	0.9	41.9	7.3	85	0.5	31.2	19.1	740	2.77	12.3	0.7	1.9	1.0	33	0.6	0.7	0.2	77	0.32	0.073		
56600E 67250N	Soil	0.9	47.9	4.3	68	0.2	47.3	18.9	405	3.58	17.5	0.5	3.0	1.0	39	0.3	1.5	0.1	83	0.30	0.100		
56600E 67300N	Soil	0.6	34.7	4.9	81	0.1	31.3	13.4	316	2.97	13.0	0.5	1.7	2.1	20	0.2	0.7	0.1	85	0.25	0.105		
56600E 67350N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
56600E 67400N	Soil	1.9	56.3	5.6	58	0.1	51.7	19.5	439	3.81	14.7	0.6	1.9	0.6	36	0.2	0.8	0.1	117	0.58	0.064		
56600E 67450N	Soil	1.6	76.8	5.3	70	0.1	58.0	28.4	547	3.58	14.2	0.9	26.9	0.8	36	0.3	0.7	0.1	102	0.55	0.060		
56600E 67500N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
56600E 67550N	Soil	0.7	29.3	6.0	40	0.2	20.2	9.4	234	2.25	10.7	0.3	4.5	0.9	16	0.1	0.7	0.1	66	0.21	0.102		
56600E 67600N	Soil	1.2	63.7	5.5	56	0.1	38.2	19.1	379	3.85	16.8	0.5	1.5	0.7	27	0.2	0.8	0.1	112	0.46	0.083		
56600E 67650N	Soil	0.7	75.4	5.1	66	0.1	48.8	18.0	350	3.30	16.7	0.5	2.5	1.0	33	0.2	1.2	<0.1	100	0.45	0.043		
56600E 67700N	Soil	0.6	69.7	5.0	56	0.1	52.0	21.1	459	3.47	18.0	0.5	5.8	0.9	39	0.2	1.1	<0.1	105	0.47	0.094		
56600E 67750N	Soil	1.3	58.8	5.5	49	0.2	50.9	17.9	369	3.53	46.0	0.6	4.3	0.4	52	0.3	3.8	<0.1	97	0.87	0.038		
56600E 67800N	Soil	0.7	68.7	4.9	44	0.1	59.1	17.2	295	2.96	29.8	0.8	3.6	2.0	26	0.2	4.2	0.1	87	0.39	0.041		
56600E 67850N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
56600E 67900N	Soil	0.2	155.5	6.7	60	<0.1	113.6	36.4	453	5.04	17.7	0.5	1.9	1.5	85	<0.1	0.6	<0.1	134	0.61	0.160		
56600E 67950N	Soil	0.5	121.4	6.4	65	0.2	111.0	44.8	456	5.40	42.8	0.3	2.2	0.8	88	0.1	1.2	<0.1	144	0.37	0.072		
56600E 68000N	Soil	0.5	93.4	7.2	52	0.3	75.6	24.0	614	3.55	81.2	0.6	4.0	1.9	59	0.2	3.3	<0.1	101	0.78	0.098		
56400E 66500N	Soil	0.9	83.4	6.1	53	0.2	53.5	22.9	658	2.90	18.5	1.9	1.8	1.7	29	0.2	0.6	0.3	96	0.32	0.043		
56400E 66550N	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.	I.S.	I.S.
56400E 66600N	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.	I.S.	I.S.
56400E 66650N	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.	I.S.	I.S.
56400E 66700N	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.	I.S.	I.S.
56400E 66750N	Soil	0.9	72.0	3.8	47	0.1	30.7	15.4	272	3.01	12.0	0.7	10.9	1.5	26	0.1	0.7	0.3	115	0.36	0.041		
56400E 66800N	Soil	1.2	115.0	2.3	39	<0.1	26.9	16.8	208	2.79	10.9	0.4	2.3	1.7	22	<0.1	1.2	0.2	116	0.23	0.051		
56400E 66850N	Soil	6.5	98.5	3.5	66	0.1	36.6	23.9	252	3.51	11.1	0.5	2.3	1.1	23	0.1	0.9	0.1	127	0.24	0.082		

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

14 of 17 Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX Ti	1DX S	1DX Ga	1DX Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.1	0.05	1	0.5
56600E 66950N	Soil	6	39	1.71	484	0.422	<20	2.06	0.009	1.20	0.3	<0.01	7.2	0.3	<0.05	7	<0.5		
56600E 67000N	Soil	7	70	1.09	147	0.175	<20	2.08	0.014	0.20	0.2	0.01	3.7	0.1	<0.05	7	<0.5		
56600E 67050N	Soil	8	69	0.94	133	0.154	<20	1.57	0.018	0.25	0.3	0.03	3.7	0.1	<0.05	6	<0.5		
56600E 67100N	Soil	11	86	1.04	150	0.170	<20	2.03	0.019	0.30	0.3	0.02	5.1	0.2	<0.05	6	0.9		
56600E 67150N	Soil	9	77	0.99	132	0.133	<20	1.73	0.017	0.28	0.2	0.03	4.5	0.1	<0.05	5	0.5		
56600E 67200N	Soil	11	58	0.64	118	0.132	<20	1.67	0.016	0.13	1.0	0.03	3.5	<0.1	<0.05	6	<0.5		
56600E 67250N	Soil	5	90	0.99	104	0.120	<20	1.76	0.014	0.17	0.2	0.03	2.8	<0.1	<0.05	5	<0.5		
56600E 67300N	Soil	6	56	0.77	120	0.148	<20	1.75	0.016	0.10	0.2	0.03	2.3	<0.1	<0.05	6	<0.5		
56600E 67350N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
56600E 67400N	Soil	5	122	1.67	147	0.188	<20	2.36	0.035	0.22	<0.1	0.03	3.1	<0.1	<0.05	8	<0.5		
56600E 67450N	Soil	6	117	1.50	163	0.200	<20	2.51	0.020	0.28	0.2	0.03	3.0	<0.1	<0.05	7	<0.5		
56600E 67500N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
56600E 67550N	Soil	4	39	0.57	72	0.129	<20	1.32	0.016	0.12	0.2	0.02	1.7	<0.1	<0.05	5	0.7		
56600E 67600N	Soil	5	78	1.31	132	0.228	<20	2.19	0.035	0.31	0.2	0.02	3.0	<0.1	<0.05	7	<0.5		
56600E 67650N	Soil	6	84	1.15	110	0.210	<20	2.06	0.028	0.29	0.2	0.02	3.8	<0.1	<0.05	7	0.7		
56600E 67700N	Soil	7	88	1.31	126	0.200	<20	2.16	0.032	0.36	0.2	0.02	3.4	0.1	<0.05	6	<0.5		
56600E 67750N	Soil	5	86	0.98	135	0.190	<20	1.93	0.029	0.23	0.2	0.03	2.8	<0.1	<0.05	6	1.3		
56600E 67800N	Soil	9	83	0.89	123	0.153	<20	1.52	0.023	0.23	0.4	0.02	3.8	0.1	<0.05	4	<0.5		
56600E 67850N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
56600E 67900N	Soil	7	251	2.79	400	0.256	<20	3.89	0.027	0.94	0.2	<0.01	1.5	<0.1	<0.05	9	<0.5		
56600E 67950N	Soil	3	272	2.71	225	0.269	<20	4.56	0.019	0.64	0.5	0.03	2.6	<0.1	<0.05	9	<0.5		
56600E 68000N	Soil	9	108	1.43	179	0.199	<20	2.10	0.044	0.48	0.6	0.02	5.0	0.2	<0.05	6	<0.5		
56400E 66500N	Soil	14	76	0.95	161	0.179	<20	2.03	0.021	0.25	0.3	0.02	4.8	0.2	<0.05	6	<0.5		
56400E 66550N	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.
56400E 66600N	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.
56400E 66650N	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.
56400E 66700N	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.
56400E 66750N	Soil	6	51	0.89	152	0.241	<20	1.63	0.021	0.32	0.4	0.02	3.4	0.2	<0.05	5	<0.5		
56400E 66800N	Soil	4	43	0.88	128	0.232	<20	1.72	0.016	0.37	0.4	<0.01	2.8	0.3	<0.05	5	0.6		
56400E 66850N	Soil	4	45	0.96	200	0.222	<20	1.69	0.017	0.26	0.5	0.01	3.3	0.2	0.05	6	<0.5		

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

15 of 17

Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	0.1	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
56400E 66900N	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.	I.S.	I.S.
56400E 66950N	Soil	0.9	8.4	7.0	35	<0.1	4.5	4.8	194	1.10	1.5	0.1	<0.5	0.4	7	0.1	0.2	0.1	42	0.08	0.040		
56400E 67000N	Soil	2.7	63.2	5.6	151	0.1	30.3	31.6	940	4.26	19.9	0.4	2.3	1.2	17	0.4	0.9	0.1	148	0.20	0.078		
56400E 67050N	Soil	1.0	77.2	4.3	61	0.2	47.2	18.2	555	3.23	15.9	0.9	2.0	0.8	35	0.2	1.0	0.1	107	0.47	0.072		
56400E 67100N	Soil	0.3	76.1	4.2	57	0.2	156.6	24.4	226	2.87	37.2	0.3	2.7	1.0	39	0.2	1.2	<0.1	84	0.34	0.108		
56400E 67150N	Soil	1.1	10.2	8.9	38	0.1	22.5	6.7	126	2.15	13.2	0.3	0.8	0.8	6	0.2	0.7	0.2	65	0.10	0.073		
56400E 67200N	Soil	1.2	42.5	8.1	64	0.2	73.2	17.7	317	3.31	22.4	0.3	1.5	0.7	16	0.2	1.9	0.2	101	0.21	0.126		
56400E 67250N	Soil	1.9	30.3	6.7	59	0.1	17.2	7.2	220	2.87	8.7	0.5	4.7	0.5	16	0.3	0.6	0.1	91	0.31	0.222		
56400E 67300N	Soil	2.0	75.1	4.1	82	0.1	68.9	20.7	217	4.28	9.9	0.4	3.1	0.4	16	0.2	2.3	0.1	163	0.22	0.156		
56400E 67350N	Soil	0.8	27.1	4.8	89	0.8	37.6	15.7	193	2.86	10.6	0.5	2648	1.2	20	0.3	0.7	0.2	80	0.28	0.162		
56400E 67400N	Soil	0.8	33.1	4.1	57	<0.1	35.2	16.3	270	2.82	12.2	0.5	10.9	1.5	22	0.3	0.8	0.1	84	0.38	0.253		
56400E 67450N	Soil	0.8	71.1	3.4	60	0.2	108.9	17.9	209	3.17	21.5	0.5	1.5	1.0	19	0.3	2.0	0.1	83	0.24	0.102		
56400E 67500N	Soil	1.1	57.2	4.3	66	0.2	40.3	17.1	402	3.39	14.4	0.6	7.4	1.3	26	0.2	1.0	0.1	108	0.34	0.096		
56400E 67550N	Soil	2.5	61.3	4.2	70	0.1	22.5	13.8	398	4.83	14.5	0.4	3.4	0.6	36	0.3	1.1	0.1	150	0.46	0.098		
56400E 67600N	Soil	1.0	81.5	7.8	70	0.4	50.8	21.8	903	3.68	20.7	0.8	2.9	0.9	41	0.8	2.1	0.2	97	0.69	0.056		
56400E 67650N	Soil	0.7	49.1	5.6	78	0.2	38.7	18.3	318	3.61	19.3	0.5	2.5	0.9	29	0.3	0.9	0.1	107	0.37	0.161		
56400E 67700N	Soil	0.6	35.8	4.4	47	0.1	26.2	13.2	239	2.66	12.2	0.4	6.0	1.0	26	0.2	0.7	0.1	85	0.38	0.128		
56400E 67750N	Soil	0.7	44.4	4.0	45	<0.1	26.3	12.6	254	2.74	12.2	0.5	1.2	0.9	24	0.1	0.5	0.1	83	0.33	0.109		
56400E 67800N	Soil	0.3	43.2	4.0	47	0.2	27.4	17.9	353	3.16	13.4	0.4	2.8	1.1	22	0.1	0.7	<0.1	101	0.34	0.107		
56400E 67850N	Soil	0.6	60.3	4.9	84	0.2	67.9	25.4	265	3.45	15.6	0.3	<0.5	0.8	37	0.2	1.4	<0.1	83	0.37	0.145		
56400E 67900N	Soil	0.5	79.6	6.4	53	0.1	52.6	19.7	278	3.54	40.8	0.3	1.3	0.6	61	0.2	5.4	0.2	83	0.39	0.120		
56400E 67950N	Soil	0.2	180.8	3.5	70	0.2	64.0	37.3	566	4.96	99.6	0.4	2.1	0.9	68	0.2	2.1	<0.1	129	0.60	0.130		
56400E 68000N	Soil	1.8	141.0	7.8	61	0.6	69.6	25.6	734	3.80	75.1	1.0	4.8	1.1	59	0.3	4.3	0.2	109	0.60	0.046		
56200E 66500N	Soil	0.6	14.5	4.4	39	0.2	11.6	7.5	183	1.45	2.5	0.3	<0.5	0.7	9	0.1	0.2	<0.1	43	0.09	0.076		
56200E 66550N	Soil	1.0	112.8	3.7	62	0.2	63.9	22.9	582	4.17	17.1	1.3	3.7	2.3	42	<0.1	0.5	0.2	142	0.75	0.112		
56200E 66600N	Soil	0.3	78.4	3.3	190	0.2	55.3	32.2	569	4.09	4.8	0.3	1.2	0.8	24	0.4	0.2	<0.1	90	0.38	0.186		
56200E 66650N	Soil	0.7	68.8	3.8	97	0.2	51.9	21.4	256	3.30	7.9	0.4	5.0	1.3	19	0.3	0.5	<0.1	88	0.22	0.116		
56200E 66700N	Soil	0.5	52.3	5.0	136	0.2	47.2	20.5	358	3.09	8.6	0.4	1.9	1.4	28	0.4	0.5	<0.1	82	0.34	0.154		
56200E 66750N	Soil	0.6	50.8	6.0	249	0.3	36.8	22.6	319	3.14	8.6	0.5	1.4	1.9	19	0.5	0.4	0.2	81	0.24	0.257		
56200E 66800N	Soil	0.5	40.5	4.2	88	0.2	32.3	15.4	282	2.56	8.8	0.3	2.3	1.4	22	0.2	0.6	0.1	79	0.27	0.136		

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

15 of 17 Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
	La ppm 1	Cr ppm 1	Mg % 0.01	Ba ppm 1	Ti % 0.001	B ppm 20	Al % 0.01	Na % 0.001	K % 0.01	W ppm 0.1	Hg ppm 0.01	Sc ppm 0.1	Tl ppm 0.1	S % 0.05	Ga ppm 1	Se ppm 0.5	
56400E 66900N	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.	
56400E 66950N	Soil	1	11	0.21	61	0.130	<20	0.43	0.015	0.08	<0.1	<0.01	0.8	<0.1	<0.05	4	<0.5
56400E 67000N	Soil	4	53	1.37	235	0.313	<20	2.89	0.014	0.25	0.4	0.03	4.6	0.2	<0.05	9	<0.5
56400E 67050N	Soil	8	82	1.20	180	0.227	<20	2.04	0.025	0.37	0.2	0.01	4.6	0.1	<0.05	6	<0.5
56400E 67100N	Soil	4	128	1.48	188	0.206	<20	2.82	0.023	0.22	0.1	0.02	3.5	0.1	<0.05	7	<0.5
56400E 67150N	Soil	3	56	0.34	57	0.178	<20	1.57	0.012	0.05	0.1	0.04	1.5	<0.1	<0.05	8	<0.5
56400E 67200N	Soil	3	169	0.90	101	0.209	<20	2.47	0.014	0.10	0.2	0.07	3.8	<0.1	<0.05	8	0.7
56400E 67250N	Soil	3	47	0.41	86	0.157	<20	2.54	0.014	0.04	0.2	0.10	2.1	<0.1	<0.05	8	0.6
56400E 67300N	Soil	2	298	2.34	343	0.377	<20	2.81	0.024	0.57	0.2	0.03	3.2	<0.1	<0.05	10	<0.5
56400E 67350N	Soil	6	65	0.57	134	0.141	<20	1.90	0.014	0.08	0.3	0.03	2.1	<0.1	<0.05	5	<0.5
56400E 67400N	Soil	8	60	0.67	122	0.125	<20	1.59	0.016	0.14	0.3	0.01	2.2	<0.1	<0.05	4	<0.5
56400E 67450N	Soil	6	177	1.79	175	0.204	<20	2.82	0.029	0.27	0.3	0.04	2.3	0.2	<0.05	6	<0.5
56400E 67500N	Soil	8	78	1.11	112	0.176	<20	1.96	0.021	0.23	0.3	0.02	3.3	0.1	<0.05	6	<0.5
56400E 67550N	Soil	4	174	2.27	189	0.251	<20	2.68	0.032	0.37	0.2	0.02	2.9	<0.1	0.10	8	<0.5
56400E 67600N	Soil	7	85	0.91	175	0.170	<20	2.13	0.021	0.25	0.2	0.03	4.3	<0.1	<0.05	7	<0.5
56400E 67650N	Soil	5	66	0.97	148	0.185	<20	2.06	0.024	0.21	0.3	0.02	3.0	<0.1	<0.05	7	<0.5
56400E 67700N	Soil	6	52	0.71	104	0.148	<20	1.49	0.021	0.16	0.3	0.02	2.4	<0.1	<0.05	5	<0.5
56400E 67750N	Soil	7	52	0.75	94	0.161	<20	1.54	0.024	0.15	0.2	0.02	2.6	<0.1	<0.05	5	<0.5
56400E 67800N	Soil	5	44	0.89	164	0.180	<20	1.96	0.028	0.25	0.2	0.02	3.4	<0.1	<0.05	5	<0.5
56400E 67850N	Soil	4	164	1.52	183	0.170	<20	2.62	0.047	0.11	0.3	0.03	2.5	<0.1	<0.05	6	<0.5
56400E 67900N	Soil	4	115	1.48	213	0.174	<20	2.06	0.040	0.32	0.2	0.02	2.6	<0.1	<0.05	6	<0.5
56400E 67950N	Soil	4	108	2.37	276	0.251	<20	3.68	0.050	0.92	0.3	0.02	2.7	0.1	<0.05	9	<0.5
56400E 68000N	Soil	9	92	1.06	143	0.183	<20	2.22	0.021	0.25	0.3	0.03	4.0	0.1	<0.05	7	0.5
56200E 66500N	Soil	3	17	0.23	48	0.094	<20	1.09	0.017	0.05	0.1	0.02	1.3	<0.1	<0.05	3	<0.5
56200E 66550N	Soil	9	157	2.38	139	0.203	<20	2.87	0.030	0.23	5.1	0.02	4.8	<0.1	<0.05	9	<0.5
56200E 66600N	Soil	3	101	1.91	283	0.273	<20	3.08	0.037	0.40	<0.1	0.01	1.9	<0.1	<0.05	9	<0.5
56200E 66650N	Soil	3	63	0.88	137	0.175	<20	2.00	0.013	0.18	0.2	0.02	2.2	<0.1	<0.05	6	<0.5
56200E 66700N	Soil	4	62	0.85	178	0.165	<20	2.15	0.023	0.16	0.3	0.02	2.5	<0.1	<0.05	6	<0.5
56200E 66750N	Soil	4	45	0.72	170	0.198	<20	2.11	0.015	0.18	0.2	0.03	2.5	<0.1	<0.05	8	<0.5
56200E 66800N	Soil	4	48	0.69	144	0.177	<20	1.55	0.021	0.17	1.4	0.02	2.4	<0.1	<0.05	5	<0.5

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client: **Happy Creek Minerals Ltd.**

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

Project: Hen

Report Date: August 01, 2008

Page: 16 of 17 Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	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	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
56200E 66850N	Soil	0.5	55.8	3.9	82	0.1	41.1	18.3	239	3.03	12.3	0.3	3.5	1.4	23	0.1	0.6	0.2	98	0.29	0.111		
56200E 66900N	Soil	0.6	50.1	3.6	42	<0.1	36.4	17.3	264	2.93	14.9	0.5	5.5	2.1	26	<0.1	0.9	0.2	101	0.35	0.123		
56200E 66950N	Soil	0.8	66.5	3.7	45	<0.1	43.5	17.3	371	2.97	17.5	0.6	7.5	3.1	29	<0.1	1.2	0.2	105	0.44	0.117		
56200E 67000N	Soil	0.8	57.9	6.5	93	0.2	45.4	20.8	503	3.26	14.7	0.4	2.4	0.6	22	0.4	0.8	0.2	86	0.23	0.156		
56200E 67050N	Soil	0.6	59.9	5.5	123	0.2	32.8	17.3	586	2.15	5.0	0.2	1.1	0.8	15	0.4	0.6	0.1	58	0.15	0.077		
56200E 67100N	Soil	0.3	100.7	3.9	98	0.1	45.7	18.1	198	2.62	7.8	0.2	1.9	1.2	21	0.2	0.7	0.1	76	0.26	0.107		
56200E 67150N	Soil	0.6	120.0	5.6	152	0.1	59.1	23.6	356	3.50	25.9	0.3	1413	1.7	31	0.4	1.1	0.1	110	0.33	0.120		
56200E 67200N	Soil	1.5	82.5	6.6	118	<0.1	61.1	23.0	390	4.26	26.3	0.4	6.5	1.5	20	0.3	1.6	0.1	138	0.24	0.219		
56200E 67250N	Soil	1.0	29.8	5.9	86	0.1	50.9	16.6	284	2.97	8.0	0.3	2.8	1.0	22	0.3	0.8	0.1	85	0.28	0.115		
56200E 67300N	Soil	2.4	51.7	6.8	171	<0.1	70.4	20.4	288	3.97	14.5	0.4	3.5	1.0	19	0.9	1.6	0.1	119	0.23	0.147		
56200E 67350N	Soil	3.3	101.4	4.1	80	<0.1	109.4	30.9	509	4.50	78.9	0.5	3.3	1.3	20	0.2	1.5	0.1	132	0.23	0.094		
56200E 67400N	Soil	0.7	101.1	2.7	61	<0.1	153.0	29.0	272	4.19	13.0	0.2	2.1	0.8	18	0.1	0.9	<0.1	116	0.28	0.120		
56200E 67450N	Soil	0.7	83.7	5.4	90	<0.1	105.2	26.4	300	3.83	25.2	0.4	10.7	1.3	21	0.2	1.8	0.1	110	0.26	0.128		
56200E 67500N	Soil	7.8	110.2	4.2	138	0.2	80.2	28.8	449	5.13	8.2	0.5	2.9	0.7	19	0.6	1.1	<0.1	185	0.38	0.162		
56200E 67550N	Soil	0.6	93.8	4.0	63	<0.1	85.1	24.9	294	3.66	16.7	0.3	3.3	1.0	26	0.1	1.7	<0.1	104	0.33	0.141		
56200E 67600N	Soil	1.1	189.0	4.6	55	0.3	162.9	29.8	565	3.47	22.2	1.1	13.4	1.3	33	0.4	3.4	0.1	100	0.45	0.046		
56200E 67650N	Soil	1.0	160.4	5.5	76	0.4	151.9	29.2	693	4.34	24.9	1.1	5.2	1.6	55	0.8	2.8	0.1	120	0.68	0.058		
56200E 67700N	Soil	1.4	111.2	6.2	69	0.3	78.8	24.6	439	3.87	26.6	0.9	8.4	1.0	43	0.5	2.7	0.1	113	0.56	0.069		
56200E 67750N	Soil	0.9	103.9	5.2	75	0.2	79.5	26.1	529	4.14	26.8	0.7	4.6	1.2	58	0.3	3.5	0.1	121	0.65	0.111		
56200E 67800N	Soil	0.9	80.4	4.0	40	0.1	56.4	17.5	252	3.25	22.0	0.4	4.6	1.3	34	0.1	2.2	0.1	96	0.35	0.093		
56200E 67850N	Soil	0.8	88.0	5.8	153	<0.1	32.6	24.3	670	4.60	21.3	0.2	1.3	0.9	44	0.2	1.9	0.1	155	0.22	0.110		
56200E 67900N	Soil	1.1	112.9	6.7	85	0.3	90.9	19.6	388	3.28	61.0	0.7	4.2	1.1	29	0.4	2.9	0.1	90	0.32	0.061		
56200E 67950N	Soil	1.0	27.9	6.9	51	0.1	28.2	11.1	246	2.44	12.9	0.3	1.7	0.7	21	0.2	1.2	0.1	66	0.17	0.086		
56200E 68000N	Soil	1.6	54.9	6.5	66	0.5	36.2	15.8	312	3.42	18.5	0.4	3.9	0.6	28	0.2	1.9	0.1	97	0.27	0.035		
56000E 66500N	Soil	1.0	53.9	6.7	41	0.2	47.0	14.0	203	2.81	7.7	0.5	2.0	1.1	27	0.3	0.3	0.2	90	0.39	0.041		
56000E 66550N	Soil	0.4	17.1	5.5	45	0.1	20.1	11.0	298	2.07	4.7	0.9	1.7	7.0	28	0.2	0.3	0.2	53	0.36	0.145		
56000E 66600N	Soil	0.4	21.6	6.2	109	0.1	18.9	11.5	263	2.55	8.2	0.4	1.3	2.3	18	0.4	0.3	0.2	61	0.19	0.333		
56000E 66650N	Soil	0.7	20.9	5.2	80	<0.1	28.1	15.4	234	2.96	5.8	0.3	1.0	1.4	15	0.3	0.5	0.1	78	0.19	0.144		
56000E 66700N	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.	I.S.	I.S.
56000E 66750N	Soil	0.3	32.3	5.4	106	<0.1	45.2	17.4	322	2.33	4.5	0.2	3.3	1.2	17	0.4	0.3	0.1	61	0.26	0.138		

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

16 of 17

Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
	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	
56200E 66850N	Soil	4	60	0.88	169	0.206	<20	1.92	0.018	0.18	0.7	0.01	2.2	<0.1	<0.05	7	<0.5
56200E 66900N	Soil	8	63	0.80	128	0.160	<20	1.47	0.020	0.31	0.5	<0.01	2.6	0.1	<0.05	4	<0.5
56200E 66950N	Soil	8	76	1.04	166	0.179	<20	1.62	0.026	0.44	0.5	<0.01	3.3	0.2	<0.05	5	<0.5
56200E 67000N	Soil	4	61	0.77	219	0.221	<20	2.07	0.016	0.28	0.4	0.02	2.8	0.1	<0.05	8	<0.5
56200E 67050N	Soil	3	52	0.71	151	0.189	<20	1.50	0.017	0.13	0.2	0.03	2.0	<0.1	<0.05	6	<0.5
56200E 67100N	Soil	4	69	0.93	179	0.211	<20	1.91	0.021	0.25	0.4	0.02	2.7	<0.1	<0.05	6	<0.5
56200E 67150N	Soil	5	75	1.12	166	0.220	<20	2.68	0.028	0.18	0.3	0.02	3.6	0.1	0.07	8	1.5
56200E 67200N	Soil	5	111	1.17	159	0.240	<20	3.30	0.019	0.11	0.4	0.03	4.5	<0.1	<0.05	9	1.8
56200E 67250N	Soil	4	128	0.86	149	0.210	<20	2.03	0.022	0.11	0.2	0.03	2.3	<0.1	<0.05	8	1.6
56200E 67300N	Soil	4	121	0.96	167	0.216	<20	2.84	0.022	0.07	0.2	0.04	2.8	0.1	<0.05	9	2.0
56200E 67350N	Soil	5	169	1.54	178	0.235	<20	3.57	0.021	0.16	0.4	0.04	3.8	0.1	<0.05	9	1.8
56200E 67400N	Soil	3	344	2.48	384	0.299	<20	3.59	0.032	0.58	0.2	0.02	2.1	<0.1	<0.05	9	1.5
56200E 67450N	Soil	5	175	1.64	174	0.216	<20	3.47	0.021	0.13	0.2	0.02	3.0	<0.1	<0.05	8	1.2
56200E 67500N	Soil	3	200	1.91	299	0.275	<20	3.30	0.029	0.39	0.2	0.03	2.6	<0.1	<0.05	10	2.5
56200E 67550N	Soil	5	156	1.64	216	0.201	<20	2.89	0.026	0.22	0.3	0.01	2.1	<0.1	<0.05	7	1.5
56200E 67600N	Soil	8	101	1.15	196	0.145	<20	2.04	0.019	0.40	0.3	0.02	5.0	0.2	<0.05	6	2.1
56200E 67650N	Soil	8	131	1.52	277	0.203	<20	2.41	0.042	0.59	0.2	0.02	5.7	0.2	<0.05	7	1.6
56200E 67700N	Soil	9	98	1.19	229	0.178	<20	2.33	0.031	0.41	0.2	0.02	4.1	0.1	<0.05	7	2.1
56200E 67750N	Soil	8	113	1.40	207	0.189	<20	2.61	0.038	0.46	0.3	0.02	3.9	0.2	<0.05	7	1.6
56200E 67800N	Soil	5	102	1.13	117	0.158	<20	1.98	0.036	0.17	0.3	0.02	2.7	<0.1	<0.05	5	1.3
56200E 67850N	Soil	3	50	1.70	198	0.263	<20	3.04	0.018	0.39	0.4	0.02	3.2	0.1	<0.05	10	<0.5
56200E 67900N	Soil	7	60	0.80	138	0.160	<20	2.24	0.015	0.12	0.4	0.03	3.2	<0.1	<0.05	7	0.6
56200E 67950N	Soil	4	48	0.59	98	0.143	<20	1.58	0.016	0.08	0.3	0.02	1.9	<0.1	<0.05	7	<0.5
56200E 68000N	Soil	5	57	0.94	98	0.186	<20	2.09	0.014	0.13	0.4	0.03	3.5	<0.1	<0.05	8	<0.5
56000E 66500N	Soil	3	65	0.67	184	0.190	<20	1.46	0.013	0.23	0.2	0.03	1.3	<0.1	<0.05	7	<0.5
56000E 66550N	Soil	3	39	0.43	183	0.122	<20	0.95	0.008	0.09	0.4	0.03	1.1	<0.1	<0.05	5	<0.5
56000E 66600N	Soil	3	29	0.52	145	0.172	<20	1.81	0.021	0.08	0.1	0.02	2.2	<0.1	<0.05	8	<0.5
56000E 66650N	Soil	3	60	0.54	83	0.133	<20	1.35	0.012	0.07	0.2	0.02	1.7	<0.1	<0.05	6	<0.5
56000E 66700N	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.
56000E 66750N	Soil	3	55	0.70	173	0.149	<20	1.56	0.015	0.13	0.3	0.01	1.7	<0.1	<0.05	6	<0.5

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

August 01, 2008

Page:

17 of 17

Part 1

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	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	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
56000E 66800N	Soil	0.5	44.5	4.1	78	<0.1	43.9	19.6	221	2.88	6.9	1.2	13.7	8.2	15	0.2	0.5	0.3	85	0.23	0.071		
56000E 66850N	Soil	0.5	25.0	5.2	48	<0.1	20.4	10.0	163	2.06	6.1	0.7	2.7	3.6	17	0.2	0.5	0.2	64	0.23	0.104		
56000E 66900N	Soil	0.6	74.2	2.8	52	0.1	36.5	13.4	269	2.61	11.9	0.5	4.2	2.2	26	0.1	0.9	0.2	85	0.35	0.080		
56000E 66950N	Soil	0.9	112.2	5.4	54	0.3	50.3	18.0	534	3.24	23.7	2.3	5.2	2.5	27	0.3	1.4	0.3	104	0.37	0.050		
56000E 67000N	Soil	0.7	71.0	3.6	52	<0.1	46.4	17.4	289	2.82	11.9	0.6	2.1	1.5	21	0.1	1.0	0.1	91	0.35	0.059		
56000E 67050N	Soil	0.5	61.5	3.5	49	0.1	42.8	16.1	224	2.76	13.8	0.4	4.1	1.7	19	0.2	0.7	0.1	86	0.26	0.062		
56000E 67100N	Soil	0.5	50.7	5.9	122	0.2	52.8	20.5	291	2.92	15.3	0.3	1.6	1.3	24	0.3	0.7	0.1	82	0.30	0.120		
56000E 67150N	Soil	0.6	78.3	4.4	56	0.1	43.9	16.8	391	2.94	18.8	0.7	71.7	2.6	29	0.1	1.9	0.2	94	0.47	0.107		
56000E 67200N	Soil	1.8	273.5	8.6	64	0.9	122.8	15.2	1245	2.80	47.3	2.4	10.5	1.8	23	0.3	2.3	0.2	88	0.43	0.033		
56000E 67250N	Soil	0.4	46.4	4.3	63	0.2	37.2	14.2	240	2.61	11.2	0.5	4.1	1.7	19	0.3	0.6	0.1	73	0.30	0.181		
56000E 67300N	Soil	0.5	21.8	6.1	90	0.1	24.7	14.9	362	2.21	7.1	0.3	1.5	1.2	17	0.3	0.4	0.1	61	0.24	0.145		
56000E 67350N	Soil	0.5	53.8	5.0	88	0.1	31.4	16.9	275	2.76	11.2	0.3	2.2	1.2	19	0.3	0.6	0.1	83	0.20	0.118		
56000E 67400N	Soil	0.4	31.9	5.4	120	0.1	34.9	18.1	338	2.74	8.2	0.3	3.3	1.1	17	0.4	0.5	0.1	78	0.24	0.138		
56000E 67450N	Soil	0.4	37.4	5.4	49	<0.1	25.5	10.4	200	1.86	8.1	0.2	1.6	0.6	18	0.1	0.5	<0.1	55	0.19	0.053		
56000E 67500N	Soil	0.7	29.0	5.2	121	0.2	36.3	17.4	297	2.99	12.3	0.4	5.1	1.3	15	0.3	0.5	0.2	77	0.21	0.182		
56000E 67550N	Soil	0.5	29.2	4.8	137	0.2	36.1	16.3	399	2.57	7.0	0.3	2.2	1.2	17	0.2	0.4	0.1	71	0.26	0.148		
56000E 67600N	Soil	1.0	44.4	5.6	123	0.1	47.2	17.4	412	3.09	10.1	0.4	3.0	1.2	18	0.4	0.7	0.1	82	0.22	0.105		
56000E 67650N	Soil	0.7	35.6	5.5	68	<0.1	25.3	13.0	327	2.46	10.7	0.3	1.4	1.1	15	0.4	0.6	0.2	69	0.18	0.168		
56000E 67700N	Soil	0.6	38.6	4.7	123	0.2	41.8	16.4	439	2.59	11.9	0.3	15.2	1.1	24	0.9	0.8	0.1	74	0.32	0.105		
56000E 67750N	Soil	0.8	64.5	5.8	152	0.1	81.2	17.9	353	3.23	16.5	0.4	1.9	1.3	20	0.6	0.9	0.1	85	0.25	0.098		
56000E 67800N	Soil	2.3	28.7	7.5	191	0.2	31.4	17.5	835	3.49	13.8	0.4	1.7	1.0	23	0.5	0.8	0.1	58	0.17	0.221		
56000E 67850N	Soil	2.0	34.2	9.0	186	0.1	34.8	13.4	563	2.78	8.0	0.3	3.2	1.0	18	0.5	0.5	0.2	71	0.18	0.135		
56000E 67900N	Soil	0.5	42.1	9.8	241	0.1	17.4	16.1	495	3.23	13.0	0.4	1.9	1.1	26	0.9	0.4	0.2	84	0.17	0.335		
56000E 67950N	Soil	1.0	55.1	4.5	81	0.1	37.1	18.7	280	3.34	15.2	0.3	2.0	0.7	20	0.3	0.8	<0.1	101	0.20	0.101		
56000E 68000N	Soil	2.3	30.0	9.0	207	0.2	35.8	20.0	904	3.83	13.6	0.4	4.2	1.3	23	0.7	0.7	0.2	70	0.21	0.232		



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: Hen

Report Date: August 01, 2008

Page: 17 of 17 Part 2

CERTIFICATE OF ANALYSIS

VAN08007341.1

Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
	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	
56000E 66800N	Soil	3	53	0.82	138	0.174	<20	1.79	0.016	0.22	0.9	0.01	2.2	0.1	<0.05	6	<0.5
56000E 66850N	Soil	4	35	0.54	93	0.142	<20	1.16	0.014	0.12	0.2	0.01	1.5	<0.1	<0.05	5	<0.5
56000E 66900N	Soil	6	49	0.86	128	0.188	<20	1.71	0.020	0.36	0.3	0.01	3.8	0.2	<0.05	5	<0.5
56000E 66950N	Soil	15	74	0.86	150	0.178	<20	1.81	0.015	0.32	0.6	0.02	5.2	0.2	<0.05	6	<0.5
56000E 67000N	Soil	6	67	0.97	143	0.171	<20	1.64	0.016	0.34	0.2	0.01	2.8	0.2	<0.05	5	<0.5
56000E 67050N	Soil	6	71	0.86	105	0.152	<20	1.61	0.016	0.18	0.3	0.01	2.4	<0.1	<0.05	5	<0.5
56000E 67100N	Soil	4	59	0.86	126	0.173	<20	2.00	0.020	0.15	0.3	0.02	2.7	<0.1	<0.05	7	<0.5
56000E 67150N	Soil	10	64	0.88	125	0.168	<20	1.46	0.040	0.36	1.0	0.02	4.0	0.2	<0.05	5	0.7
56000E 67200N	Soil	21	63	0.57	144	0.138	<20	2.24	0.017	0.23	4.9	0.07	6.4	0.2	<0.05	6	0.9
56000E 67250N	Soil	6	52	0.74	104	0.137	<20	1.79	0.013	0.14	1.0	0.03	2.3	<0.1	<0.05	5	<0.5
56000E 67300N	Soil	4	38	0.47	142	0.139	<20	1.30	0.014	0.11	0.7	0.02	1.6	<0.1	<0.05	6	<0.5
56000E 67350N	Soil	4	43	0.64	121	0.172	<20	2.03	0.014	0.12	0.4	0.02	2.6	<0.1	<0.05	7	<0.5
56000E 67400N	Soil	3	65	0.70	123	0.149	<20	1.89	0.012	0.11	0.6	0.03	1.9	<0.1	<0.05	6	<0.5
56000E 67450N	Soil	3	71	0.66	114	0.133	<20	1.18	0.013	0.19	0.1	0.02	1.4	0.1	<0.05	5	<0.5
56000E 67500N	Soil	4	57	0.69	115	0.154	<20	2.06	0.015	0.10	0.6	0.02	2.3	<0.1	<0.05	7	<0.5
56000E 67550N	Soil	4	51	0.69	136	0.155	<20	1.80	0.015	0.12	0.2	0.02	2.5	<0.1	<0.05	6	<0.5
56000E 67600N	Soil	4	51	0.90	123	0.167	<20	2.48	0.018	0.16	0.2	0.03	3.7	<0.1	<0.05	7	<0.5
56000E 67650N	Soil	4	42	0.59	117	0.137	<20	1.62	0.015	0.13	0.2	0.02	2.3	<0.1	<0.05	6	<0.5
56000E 67700N	Soil	4	60	0.77	200	0.142	<20	1.67	0.019	0.14	0.3	0.02	2.3	<0.1	<0.05	6	<0.5
56000E 67750N	Soil	4	63	0.80	151	0.162	<20	2.78	0.014	0.17	0.3	0.03	3.2	0.1	<0.05	7	0.7
56000E 67800N	Soil	4	33	0.56	157	0.160	<20	3.04	0.018	0.07	0.2	0.05	3.1	<0.1	<0.05	11	1.0
56000E 67850N	Soil	3	23	0.35	184	0.157	<20	2.04	0.022	0.05	0.2	0.03	3.6	<0.1	<0.05	8	0.8
56000E 67900N	Soil	4	19	0.62	359	0.213	<20	2.65	0.026	0.10	0.2	0.03	4.1	<0.1	<0.05	13	0.8
56000E 67950N	Soil	4	58	1.01	151	0.205	<20	1.98	0.012	0.20	0.2	0.02	2.3	<0.1	<0.05	7	0.5
56000E 68000N	Soil	5	39	0.61	168	0.179	<20	3.46	0.026	0.08	0.2	0.04	3.5	<0.1	<0.05	12	0.6

QUALITY CONTROL REPORT

VAN08007341.1

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	
Pulp Duplicates																					
59000E 67300N	Soil	1.3	54.3	8.6	131	0.1	44.9	19.3	486	4.00	16.2	0.4	4.5	0.9	19	0.9	0.8	<0.1	109	0.22	0.139
REP 59000E 67300N	QC	1.3	53.5	8.7	135	0.1	43.8	18.9	475	3.99	16.6	0.4	2.3	0.8	20	0.7	0.8	<0.1	111	0.23	0.141
58600E 67000N	Soil	1.6	50.7	6.0	78	0.1	40.6	17.6	358	5.03	23.2	0.5	2.1	0.9	24	0.5	0.9	<0.1	137	0.31	0.071
REP 58600E 67000N	QC	1.6	51.5	5.8	81	0.1	39.1	17.1	365	4.91	22.8	0.5	3.9	0.9	24	0.4	0.9	<0.1	140	0.31	0.067
58400E 67750N	Soil	0.8	52.1	8.1	65	0.1	42.2	19.4	255	3.87	160.7	0.6	<0.5	1.2	28	0.2	1.6	<0.1	97	0.33	0.124
REP 58400E 67750N	QC	0.9	52.3	8.0	66	<0.1	43.1	20.0	264	3.91	159.0	0.6	0.7	1.3	27	0.2	1.5	0.1	99	0.35	0.120
58000E 66350N	Soil	0.7	61.8	4.5	61	<0.1	36.8	24.3	374	3.83	19.2	0.5	5.3	1.3	17	0.3	1.0	0.1	131	0.25	0.116
REP 58000E 66350N	QC	0.8	63.7	4.4	60	<0.1	36.0	23.8	366	3.82	19.7	0.4	10.3	1.3	17	0.3	1.0	0.1	130	0.25	0.114
58000E 67500N	Soil	1.4	63.1	7.6	88	0.1	38.5	18.0	422	4.25	22.4	0.5	0.8	0.7	26	0.1	0.8	<0.1	120	0.29	0.142
REP 58000E 67500N	QC	1.4	70.1	8.1	91	0.1	39.2	19.4	446	4.33	22.9	0.5	1.6	0.7	27	0.2	0.9	0.1	127	0.31	0.152
57800E 67700N	Soil	1.1	30.7	8.0	99	0.2	33.5	17.8	534	3.70	11.8	0.4	82.7	0.3	32	0.4	0.5	0.1	88	0.28	0.129
REP 57800E 67700N	QC	1.1	32.5	8.0	103	0.2	33.9	17.9	535	3.77	12.2	0.4	1.9	0.3	33	0.6	0.5	0.1	88	0.29	0.138
57400E 66700N	Soil	1.3	109.0	3.1	75	<0.1	11.6	16.3	357	3.97	4.8	0.4	2.9	0.8	7	<0.1	0.2	<0.1	161	0.16	0.114
REP 57400E 66700N	QC	1.4	120.2	3.0	78	<0.1	11.4	17.7	360	4.19	4.8	0.4	2.7	0.8	7	<0.1	0.2	<0.1	171	0.16	0.112
57200E 67350N	Soil	0.9	51.6	5.3	59	<0.1	43.8	17.0	271	3.36	18.4	0.4	7.4	1.1	23	0.2	0.9	<0.1	98	0.30	0.098
REP 57200E 67350N	QC	0.8	57.0	5.6	66	<0.1	46.1	18.7	290	3.61	19.3	0.4	4.9	1.2	24	0.2	0.9	<0.1	104	0.32	0.107
56800E 66550N	Soil	1.1	58.7	5.7	65	0.1	47.0	21.3	603	3.42	17.4	0.7	3.6	1.1	39	0.2	1.2	0.3	107	0.54	0.103
REP 56800E 66550N	QC	1.0	57.4	5.2	63	0.1	44.2	21.1	561	3.34	17.1	0.7	2.0	1.1	39	0.3	1.1	0.3	105	0.51	0.099
56600E 67200N	Soil	0.9	41.9	7.3	85	0.5	31.2	19.1	740	2.77	12.3	0.7	1.9	1.0	33	0.6	0.7	0.2	77	0.32	0.073
REP 56600E 67200N	QC	0.9	44.1	7.5	83	0.5	31.3	18.6	740	2.71	12.3	0.7	3.8	1.1	33	0.6	0.8	0.2	78	0.32	0.073
56400E 67450N	Soil	0.8	71.1	3.4	60	0.2	108.9	17.9	209	3.17	21.5	0.5	1.5	1.0	19	0.3	2.0	0.1	83	0.24	0.102
REP 56400E 67450N	QC	0.8	73.0	3.5	57	0.2	107.8	17.8	211	3.11	20.6	0.6	4.4	1.2	19	0.3	2.2	0.1	83	0.24	0.103
56000E 66900N	Soil	0.6	74.2	2.8	52	0.1	36.5	13.4	269	2.61	11.9	0.5	4.2	2.2	26	0.1	0.9	0.2	85	0.35	0.080
REP 56000E 66900N	QC	0.5	74.7	2.8	48	0.1	37.7	13.3	264	2.61	11.7	0.5	2.3	2.1	24	<0.1	0.8	0.1	87	0.33	0.077
Reference Materials																					
STD DS7	Standard	22.1	111.4	69.2	397	0.8	56.2	9.9	593	2.29	49.2	4.9	69.2	4.2	65	5.9	5.0	4.2	85	0.90	0.071
STD DS7	Standard	21.3	108.4	71.7	396	0.8	57.5	10.0	619	2.38	48.4	5.3	55.5	4.3	64	5.9	5.3	4.3	92	0.89	0.072
STD DS7	Standard	22.4	109.7	71.0	390	0.8	57.4	9.9	614	2.31	47.6	5.2	53.0	4.1	62	6.2	5.3	4.3	89	0.88	0.070

QUALITY CONTROL REPORT

VAN08007341.1

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																	
59000E 67300N	Soil	4	75	1.21	95	0.152	<20	3.15	0.013	0.13	0.3	0.04	2.8	0.1	<0.05	9	<0.5
REP 59000E 67300N	QC	4	78	1.19	97	0.157	<20	3.08	0.012	0.13	0.2	0.03	2.8	<0.1	<0.05	9	0.7
58600E 67000N	Soil	5	87	1.27	154	0.200	<20	3.19	0.013	0.17	0.4	0.04	3.0	<0.1	<0.05	9	0.5
REP 58600E 67000N	QC	5	84	1.17	148	0.203	<20	3.06	0.013	0.17	0.3	0.03	3.2	<0.1	<0.05	9	0.8
58400E 67750N	Soil	7	66	0.91	154	0.115	<20	2.24	0.035	0.11	0.2	0.04	3.0	<0.1	<0.05	7	<0.5
REP 58400E 67750N	QC	7	65	0.92	151	0.114	<20	2.20	0.034	0.11	0.9	0.04	2.9	<0.1	<0.05	7	<0.5
58000E 66350N	Soil	5	70	0.90	89	0.158	<20	2.01	0.010	0.21	0.4	0.02	3.2	0.1	<0.05	6	<0.5
REP 58000E 66350N	QC	5	70	0.91	89	0.155	<20	2.01	0.010	0.21	0.4	0.02	3.2	0.1	<0.05	6	<0.5
58000E 67500N	Soil	5	64	1.04	169	0.170	<20	2.92	0.024	0.16	0.3	0.03	2.9	0.1	<0.05	10	0.7
REP 58000E 67500N	QC	5	67	1.12	177	0.173	<20	3.17	0.026	0.17	0.3	0.03	3.1	<0.1	<0.05	10	0.9
57800E 67700N	Soil	3	83	0.85	188	0.106	<20	1.79	0.022	0.12	0.2	0.03	1.5	<0.1	<0.05	8	<0.5
REP 57800E 67700N	QC	3	82	0.93	183	0.110	<20	2.04	0.021	0.12	0.6	0.03	1.5	<0.1	0.06	9	<0.5
57400E 66700N	Soil	2	17	0.93	256	0.356	<20	2.16	0.012	0.26	0.2	0.02	1.7	<0.1	<0.05	7	<0.5
REP 57400E 66700N	QC	2	16	0.95	251	0.386	<20	2.13	0.011	0.29	0.3	0.02	1.7	<0.1	<0.05	7	<0.5
57200E 67350N	Soil	5	65	1.00	168	0.194	<20	2.15	0.018	0.16	0.2	0.03	2.4	<0.1	<0.05	7	<0.5
REP 57200E 67350N	QC	5	70	1.02	172	0.201	<20	2.32	0.020	0.17	0.3	0.02	2.6	<0.1	<0.05	7	<0.5
56800E 66550N	Soil	8	81	1.38	172	0.193	<20	1.99	0.021	0.37	0.4	0.01	3.8	0.2	<0.05	6	<0.5
REP 56800E 66550N	QC	8	78	1.32	171	0.192	<20	1.98	0.022	0.37	0.3	0.01	3.8	0.2	<0.05	6	<0.5
56600E 67200N	Soil	11	58	0.64	118	0.132	<20	1.67	0.016	0.13	1.0	0.03	3.5	<0.1	<0.05	6	<0.5
REP 56600E 67200N	QC	11	57	0.65	116	0.129	<20	1.62	0.016	0.13	<0.1	0.03	3.6	<0.1	<0.05	6	<0.5
56400E 67450N	Soil	6	177	1.79	175	0.204	<20	2.82	0.029	0.27	0.3	0.04	2.3	0.2	<0.05	6	<0.5
REP 56400E 67450N	QC	6	175	1.78	174	0.207	<20	2.73	0.026	0.27	0.3	0.04	2.4	0.1	<0.05	7	<0.5
56000E 66900N	Soil	6	49	0.86	128	0.188	<20	1.71	0.020	0.36	0.3	0.01	3.8	0.2	<0.05	5	<0.5
REP 56000E 66900N	QC	6	50	0.86	129	0.187	<20	1.68	0.017	0.36	0.3	0.01	3.8	0.2	<0.05	5	<0.5
Reference Materials																	
STD DS7	Standard	11	193	1.01	376	0.113	37	0.98	0.088	0.44	3.5	0.19	2.9	4.2	0.19	5	3.4
STD DS7	Standard	12	197	1.03	383	0.116	34	1.01	0.089	0.45	3.4	0.19	2.8	4.3	0.20	5	3.4
STD DS7	Standard	11	191	1.00	376	0.108	42	1.01	0.095	0.45	3.4	0.19	4.2	4.3	0.13	4	3.6

QUALITY CONTROL REPORT

VAN08007341.1

		1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX U ppm 0.1	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01	1DX P % 0.001
STD DS7	Standard	22.4	112.7	72.1	405	0.8	58.9	10.6	634	2.40	51.6	5.0	76.0	4.4	69	6.2	5.4	4.2	92	0.94	0.073
STD DS7	Standard	20.4	101.9	72.9	400	0.9	55.6	8.9	611	2.27	47.3	4.9	49.9	4.4	74	6.1	5.5	4.9	85	0.91	0.078
STD DS7	Standard	19.7	101.1	71.1	391	0.8	53.2	9.0	589	2.25	48.1	4.8	83.9	4.2	75	5.7	5.2	4.7	81	0.89	0.080
STD DS7	Standard	19.2	100.3	73.8	386	0.8	54.0	8.8	603	2.30	47.4	5.0	56.7	4.4	76	5.8	5.1	4.8	85	0.89	0.073
STD DS7	Standard	20.3	105.9	74.8	392	0.9	55.2	9.3	606	2.32	50.8	5.1	62.2	4.3	73	6.1	5.6	4.9	82	0.91	0.075
STD DS7	Standard	19.4	103.5	70.0	383	0.7	52.2	8.9	571	2.23	49.5	5.0	53.5	4.3	72	5.5	5.3	4.8	81	0.87	0.075
STD DS7	Standard	20.4	101.6	72.1	370	0.8	51.8	8.5	576	2.19	51.6	4.9	47.5	4.5	71	6.1	5.3	4.8	82	0.88	0.069
STD DS7	Standard	20.6	115.3	77.0	407	0.8	55.9	9.9	623	2.36	48.1	5.2	62.0	4.2	75	6.2	5.7	4.8	81	0.87	0.074
STD DS7	Standard	19.6	112.4	78.1	409	0.9	56.4	10.1	624	2.35	50.6	5.1	98.9	4.6	73	6.1	5.7	5.0	86	0.91	0.076
STD DS7	Standard	20.8	107.6	72.9	397	0.8	56.9	9.3	631	2.47	54.3	4.8	65.9	4.4	61	6.2	4.2	3.6	86	0.90	0.070
STD DS7	Standard	21.4	111.3	74.8	410	0.9	58.1	9.9	624	2.43	51.4	5.0	75.2	4.2	62	5.7	4.2	3.5	92	0.91	0.070
STD DS7	Standard	22.0	133.1	74.7	425	0.9	61.5	10.3	671	2.55	50.2	5.1	119.1	4.3	63	6.4	4.5	3.9	93	0.97	0.075
STD DS7	Standard	21.5	108.5	75.8	411	0.8	57.7	9.8	658	2.47	53.2	5.1	71.5	4.6	64	6.3	4.5	3.8	90	0.97	0.077
STD DS7	Standard	22.0	109.7	72.0	406	0.9	58.0	9.6	640	2.38	51.6	5.2	56.8	4.6	62	6.0	4.5	3.6	87	0.92	0.074
STD DS7	Standard	19.7	104.5	69.7	391	0.9	54.1	9.5	617	2.28	47.1	5.1	68.2	4.2	59	5.6	4.6	3.4	87	0.87	0.073
STD DS7	Standard	20.6	103.6	74.8	395	0.8	55.0	9.5	590	2.29	51.5	5.0	66.8	4.4	73	5.7	5.8	4.9	82	0.87	0.074
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	21.5	120.5	76.7	428	0.8	58.0	10.1	679	2.49	60.3	5.2	66.4	4.9	75	7.1	6.2	4.9	95	0.99	0.083
STD DS7	Standard	22.5	156.0	75.8	442	0.8	57.8	9.7	638	2.49	56.2	5.4	99.9	4.7	75	7.7	6.6	5.0	93	0.96	0.084
STD DS7	Standard	20.2	112.5	69.0	403	1.5	52.9	8.5	613	2.25	47.3	4.9	57.8	3.8	70	5.8	5.2	4.3	86	0.94	0.071
STD DS7	Standard	20.3	100.1	69.5	405	0.8	53.0	9.0	606	2.34	50.1	4.5	69.3	3.7	70	5.9	4.9	4.1	81	0.92	0.073
STD DS7	Standard	20.0	104.4	71.7	387	0.8	55.7	8.9	590	2.23	49.5	4.6	58.4	3.9	64	5.6	5.3	4.3	80	0.83	0.073
STD DS7	Standard	19.7	105.1	68.5	381	0.9	53.0	8.9	570	2.23	47.7	4.5	51.0	3.8	61	5.7	4.9	4.1	77	0.81	0.072
STD DS7	Standard	22.8	110.2	74.1	394	0.8	58.6	9.9	657	2.47	48.5	4.9	56.7	4.4	70	5.8	5.1	3.9	92	0.95	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

QUALITY CONTROL REPORT

VAN08007341.1

		1DX La ppm 1	1DX Cr ppm 1	1DX Mg % 0.01	1DX Ba ppm 1	1DX Ti % 0.001	1DX B ppm 20	1DX Al % 0.01	1DX Na % 0.001	1DX K % 0.01	1DX W ppm 0.1	1DX Hg ppm 0.01	1DX Sc ppm 0.1	1DX Ti ppm 0.1	1DX S % 0.05	1DX Ga ppm 1	1DX Se ppm 0.5
STD DS7	Standard	12	199	1.06	394	0.119	41	1.05	0.112	0.47	3.6	0.21	3.7	4.3	0.17	5	3.9
STD DS7	Standard	12	184	1.02	383	0.126	39	1.00	0.088	0.44	3.3	0.18	2.4	4.3	0.21	5	4.0
STD DS7	Standard	11	176	1.00	372	0.120	46	0.96	0.088	0.41	3.6	0.18	2.2	3.9	0.18	4	3.6
STD DS7	Standard	12	183	0.99	380	0.123	41	0.99	0.090	0.42	3.3	0.18	2.3	4.3	0.19	5	3.2
STD DS7	Standard	12	187	1.04	387	0.120	40	0.97	0.092	0.43	3.5	0.19	2.4	4.3	0.19	5	4.1
STD DS7	Standard	11	174	0.98	364	0.119	34	0.97	0.087	0.41	3.4	0.19	2.3	4.1	0.18	4	3.3
STD DS7	Standard	12	183	1.00	375	0.125	36	0.95	0.085	0.40	3.1	0.19	2.3	4.0	0.18	4	4.5
STD DS7	Standard	12	190	1.05	392	0.122	41	1.01	0.090	0.44	3.5	0.19	2.3	4.3	0.19	5	4.2
STD DS7	Standard	12	199	1.05	399	0.125	42	1.01	0.085	0.45	3.7	0.20	2.3	4.6	0.21	5	3.4
STD DS7	Standard	11	186	1.00	402	0.104	34	0.96	0.085	0.45	3.4	0.20	2.2	4.3	0.23	5	3.8
STD DS7	Standard	11	198	1.04	397	0.107	38	0.98	0.089	0.43	3.6	0.20	2.4	4.4	0.21	5	4.0
STD DS7	Standard	11	208	1.07	420	0.111	33	1.06	0.100	0.50	3.6	0.20	2.2	4.5	0.18	5	4.1
STD DS7	Standard	12	203	1.08	424	0.111	42	1.03	0.098	0.50	3.4	0.20	2.4	4.5	0.22	5	3.7
STD DS7	Standard	11	203	1.03	396	0.106	34	1.00	0.094	0.46	3.5	0.20	2.2	4.4	0.20	5	4.1
STD DS7	Standard	11	190	1.02	386	0.102	33	0.99	0.091	0.43	3.4	0.18	2.1	4.2	0.22	5	3.6
STD DS7	Standard	11	188	1.01	389	0.119	28	0.96	0.081	0.43	3.4	0.19	2.2	4.2	0.20	5	3.6
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	12	179	1.08	422	0.128	37	1.06	0.100	0.48	3.5	0.22	2.7	4.5	0.21	5	6.2
STD DS7	Standard	12	177	1.07	418	0.120	30	1.00	0.092	0.49	3.6	0.19	2.4	4.3	0.23	5	6.2
STD DS7	Standard	11	184	1.00	373	0.117	28	0.97	0.085	0.45	3.6	0.22	2.4	4.2	0.17	5	3.3
STD DS7	Standard	12	193	1.03	378	0.116	41	1.04	0.094	0.46	3.4	0.20	2.3	4.4	0.18	5	3.7
STD DS7	Standard	10	178	0.97	367	0.108	38	0.91	0.077	0.44	3.4	0.18	2.3	4.0	0.17	5	3.3
STD DS7	Standard	10	174	0.96	346	0.104	39	0.91	0.080	0.42	3.6	0.18	2.0	3.8	0.17	4	4.1
STD DS7	Standard	12	210	1.03	400	0.130	34	1.00	0.088	0.46	3.4	0.20	2.4	4.3	0.19	5	3.1
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

QUALITY CONTROL REPORT

VAN08007341.1

		1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX U ppm 0.1	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01	1DX P % 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
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

QUALITY CONTROL REPORT

VAN08007341.1

		1DX La ppm 1	1DX Cr ppm 1	1DX Mg % 0.01	1DX Ba ppm 1	1DX Ti % 0.001	1DX B ppm 20	1DX Al % 0.01	1DX Na % 0.001	1DX K % 0.01	1DX W ppm 0.1	1DX Hg ppm 0.01	1DX Sc ppm 0.1	1DX Ti ppm 0.1	1DX S % 0.05	1DX Ga ppm 1	1DX Se ppm 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
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
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



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: September 26, 2008
 Report Date: October 09, 2008
 Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN08009763.1

CLIENT JOB INFORMATION

Project: Hen
 Shipment ID:
 P.O. Number
 Number of Samples: 31

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
 DISP-RJT-SOIL Immediate Disposal of Soil Reject

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	30	Dry at 60C sieve 100g to -80 mesh		
Dry at 60C	30	Dry at 60C		
RJSV	30	Save all or part of soil reject fraction		
RJSV	30	Saving all or part of Soil Reject		
1DX	30	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed
DIS-RJT	30	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: 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.



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: Hen

Report Date: October 09, 2008

Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

VAN08009763.1

Method	Analyte	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
Unit	MDL	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
L16N: 17E	Soil	1.0	34.1	7.4	78	0.2	28.7	10.7	376	2.74	15.0	0.4	0.8	0.3	11	0.1	0.2	0.1	71	0.16	0.080
L16N: 17 + 50E	Soil	0.7	24.4	5.0	42	0.2	17.6	8.9	198	2.55	8.9	0.4	0.9	0.6	13	0.3	0.2	<0.1	72	0.20	0.075
L16N: 18E	Soil	1.2	54.5	5.0	42	<0.1	31.1	17.6	642	3.29	14.4	0.6	1.9	0.5	24	0.1	0.5	0.1	122	0.34	0.087
L16N: 18 + 50E	Soil	1.3	38.9	6.0	35	<0.1	26.3	11.4	163	2.94	13.1	0.4	<0.5	1.0	13	0.2	0.4	0.1	80	0.17	0.037
L16N: 19E	Soil	0.9	39.5	5.6	43	0.2	23.0	10.6	171	2.56	11.7	0.4	<0.5	1.1	10	0.2	0.4	0.1	70	0.12	0.057
L16N: 19 + 50E	Soil	1.1	20.4	5.1	49	0.2	13.9	7.6	198	2.45	6.7	0.3	<0.5	0.2	13	0.2	0.2	0.1	74	0.16	0.149
L18N: 17E	Soil	0.8	33.4	4.1	74	0.2	22.6	12.1	473	2.75	9.1	0.3	1.3	0.3	14	0.3	0.4	0.1	88	0.23	0.140
L18N: 17 + 50E	Soil	1.0	46.3	4.3	49	<0.1	26.2	11.9	204	3.12	14.0	0.4	<0.5	0.6	17	0.2	0.4	0.1	90	0.25	0.051
L18N: 18E	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.
L18N: 18 + 50E	Soil	1.0	28.5	5.7	34	0.3	17.2	8.3	122	3.22	10.4	0.4	2.9	0.7	11	0.2	0.3	0.1	100	0.15	0.031
L18N: 19E	Soil	1.1	22.8	6.4	66	0.2	16.9	8.1	278	2.39	9.5	0.3	0.7	0.3	7	0.2	0.2	0.1	62	0.09	0.098
L18N: 19 + 50E	Soil	2.0	34.0	6.0	54	0.4	18.1	11.7	464	2.74	11.3	0.6	<0.5	0.3	19	0.4	0.2	0.1	80	0.25	0.045
L20N: 17E	Soil	0.6	60.0	3.7	61	0.2	32.0	13.8	340	3.22	15.8	0.4	<0.5	0.4	24	0.3	0.4	<0.1	100	0.44	0.092
L20N: 17 + 50E	Soil	0.8	49.1	6.9	81	0.2	30.7	14.8	351	3.41	15.4	0.6	1.2	1.0	22	0.7	0.3	0.1	89	0.30	0.038
L20N: 18E	Soil	1.2	60.3	5.8	57	0.6	26.7	11.9	218	3.98	17.2	0.8	2.4	0.8	27	0.5	0.4	0.1	114	0.38	0.032
L20N: 18 + 50E	Soil	1.1	42.1	5.3	77	0.3	29.3	14.2	250	3.69	16.3	0.4	4.3	0.7	18	0.3	0.4	<0.1	101	0.30	0.107
L20N: 19E	Soil	1.2	28.6	5.8	76	0.4	19.3	9.8	270	3.41	10.1	0.5	<0.5	0.6	16	0.3	0.4	0.1	86	0.23	0.168
L20N: 19 + 50E	Soil	0.8	34.0	5.5	42	0.2	21.0	9.6	218	2.90	15.1	0.4	<0.5	0.6	25	0.3	0.3	<0.1	88	0.34	0.086
L22N: 17E	Soil	1.3	26.0	6.9	103	0.2	22.1	9.3	240	3.57	12.6	0.4	0.9	0.4	17	0.5	0.3	0.1	78	0.27	0.140
L22N: 17 + 50E	Soil	1.0	35.5	7.1	95	0.3	20.4	11.0	341	3.30	17.1	0.5	2.1	0.3	28	0.3	0.3	0.2	83	0.47	0.061
L22N: 18E	Soil	0.6	41.3	4.5	48	0.4	24.0	10.4	178	2.74	10.1	0.4	0.5	0.7	17	0.3	0.2	<0.1	73	0.22	0.044
L22N: 18 + 50E	Soil	1.3	36.0	9.7	76	0.3	18.2	10.5	258	2.91	8.9	0.5	0.6	1.0	8	0.2	0.2	0.2	69	0.10	0.169
L22N: 19E	Soil	1.2	39.3	9.6	89	0.2	21.0	9.6	343	3.30	11.8	0.4	0.7	0.5	11	0.2	0.2	0.1	78	0.16	0.242
L22N: 19 + 50E	Soil	1.1	54.7	5.4	83	0.3	27.9	12.1	241	3.19	13.2	0.5	<0.5	0.9	15	0.2	0.3	0.1	80	0.25	0.219
L24N: 17E	Soil	1.2	75.2	9.2	107	0.3	33.8	15.6	381	3.31	19.4	0.9	<0.5	0.4	32	0.4	0.4	0.1	79	0.63	0.052
L24N: 17 + 50E	Soil	1.8	59.4	6.6	42	0.2	22.5	9.2	169	3.18	14.8	0.7	<0.5	0.4	22	0.8	0.3	0.1	76	0.33	0.034
L24N: 18E	Soil	1.4	44.7	6.6	67	0.2	24.1	10.2	170	3.30	13.9	0.4	0.5	0.5	20	0.7	0.3	<0.1	81	0.24	0.030
L24N: 18 + 50E	Soil	0.9	102.4	10.1	139	0.2	60.2	23.6	613	4.10	26.3	0.7	1.5	0.6	37	0.5	0.3	0.2	106	0.55	0.050
L24N: 19E	Soil	1.0	26.8	4.4	38	0.1	18.9	8.3	151	2.41	6.8	0.3	1.0	0.8	13	0.2	0.3	<0.1	64	0.15	0.028
L24N: 19 + 50E	Soil	1.2	88.5	7.7	80	0.1	28.6	13.0	336	3.59	20.2	0.7	2.0	1.2	9	0.1	0.3	0.1	95	0.12	0.139

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.
 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: Hen

Report Date: October 09, 2008

Page: 2 of 3 Part 2

CERTIFICATE OF ANALYSIS

VAN08009763.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX 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	0.05		1	0.5
L16N: 17E	Soil			5	55	0.57	85	0.099	<20	2.29	0.013	0.07	0.2	0.04	2.0	<0.1	<0.05	7	<0.5
L16N: 17 + 50E	Soil			4	42	0.39	67	0.096	<20	1.97	0.010	0.05	0.2	0.04	2.1	<0.1	<0.05	6	<0.5
L16N: 18E	Soil			8	59	0.82	107	0.095	<20	2.06	0.016	0.13	0.1	0.03	3.2	<0.1	<0.05	5	<0.5
L16N: 18 + 50E	Soil			4	49	0.60	81	0.105	<20	2.56	0.012	0.04	0.2	0.05	2.6	<0.1	0.06	5	0.7
L16N: 19E	Soil			5	47	0.45	65	0.100	<20	2.55	0.010	0.04	0.1	0.05	2.4	<0.1	<0.05	5	<0.5
L16N: 19 + 50E	Soil			2	30	0.36	70	0.071	<20	1.44	0.010	0.05	<0.1	0.03	1.2	<0.1	0.05	6	<0.5
L18N: 17E	Soil			3	39	0.57	89	0.063	<20	1.65	0.009	0.06	0.1	0.03	1.5	<0.1	<0.05	5	<0.5
L18N: 17 + 50E	Soil			5	46	0.67	73	0.103	<20	1.92	0.011	0.07	<0.1	0.03	2.4	<0.1	<0.05	6	0.5
L18N: 18E	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.
L18N: 18 + 50E	Soil			4	44	0.44	63	0.113	<20	2.55	0.013	0.03	0.2	0.04	2.6	<0.1	0.05	8	0.8
L18N: 19E	Soil			3	40	0.36	62	0.072	<20	1.95	0.008	0.04	0.4	0.05	1.3	<0.1	<0.05	6	<0.5
L18N: 19 + 50E	Soil			7	38	0.50	92	0.091	<20	2.15	0.013	0.05	<0.1	0.06	2.1	<0.1	<0.05	7	<0.5
L20N: 17E	Soil			6	51	0.84	108	0.084	<20	1.86	0.017	0.10	<0.1	0.03	2.4	<0.1	<0.05	5	0.5
L20N: 17 + 50E	Soil			7	54	0.76	121	0.119	<20	2.21	0.017	0.09	<0.1	0.03	3.2	<0.1	0.07	7	<0.5
L20N: 18E	Soil			8	56	0.78	83	0.127	<20	2.61	0.020	0.08	0.1	0.06	3.4	<0.1	0.06	8	0.6
L20N: 18 + 50E	Soil			4	53	0.75	134	0.106	<20	2.94	0.018	0.07	0.2	0.06	2.6	<0.1	<0.05	7	0.7
L20N: 19E	Soil			4	44	0.54	108	0.100	<20	2.66	0.012	0.06	0.1	0.07	2.3	<0.1	0.05	9	0.6
L20N: 19 + 50E	Soil			4	44	0.60	153	0.096	<20	2.13	0.013	0.07	0.1	0.05	2.4	<0.1	<0.05	7	0.8
L22N: 17E	Soil			4	46	0.56	106	0.100	<20	1.94	0.009	0.07	0.1	0.04	1.7	<0.1	<0.05	9	0.7
L22N: 17 + 50E	Soil			7	45	0.61	125	0.096	<20	1.74	0.013	0.07	0.1	0.03	2.1	<0.1	0.05	8	0.6
L22N: 18E	Soil			6	42	0.55	100	0.086	<20	2.05	0.009	0.04	0.1	0.03	2.0	<0.1	<0.05	6	<0.5
L22N: 18 + 50E	Soil			4	49	0.62	75	0.106	<20	3.72	0.011	0.05	0.1	0.05	2.9	<0.1	<0.05	9	0.6
L22N: 19E	Soil			3	42	0.55	102	0.084	<20	2.71	0.011	0.05	0.1	0.07	2.2	<0.1	<0.05	9	<0.5
L22N: 19 + 50E	Soil			3	49	0.69	83	0.103	<20	3.41	0.015	0.06	0.2	0.07	2.5	<0.1	<0.05	8	<0.5
L24N: 17E	Soil			9	56	0.80	169	0.094	<20	2.52	0.014	0.08	0.1	0.04	2.8	<0.1	<0.05	8	0.7
L24N: 17 + 50E	Soil			6	47	0.55	77	0.119	<20	2.49	0.013	0.05	0.2	0.05	2.4	<0.1	<0.05	7	0.6
L24N: 18E	Soil			4	47	0.57	116	0.122	<20	2.24	0.013	0.05	0.5	0.04	2.3	<0.1	<0.05	7	<0.5
L24N: 18 + 50E	Soil			8	89	1.26	228	0.124	<20	3.60	0.022	0.14	<0.1	0.04	3.5	<0.1	<0.05	9	0.5
L24N: 19E	Soil			5	40	0.47	76	0.079	<20	2.01	0.009	0.03	0.1	0.04	2.0	<0.1	<0.05	5	<0.5
L24N: 19 + 50E	Soil			5	54	0.68	85	0.131	<20	3.96	0.009	0.07	0.2	0.10	3.3	<0.1	<0.05	9	0.8

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.

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:

Hen

Report Date:

October 09, 2008

Page:

3 of 3

Part 1

CERTIFICATE OF ANALYSIS

VAN08009763.1

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	
HEN08TRS11	Silt	0.9	70.5	5.2	81	<0.1	46.3	23.3	989	3.89	7.0	0.5	3.0	1.2	42	0.7	0.9	<0.1	113	0.79	0.099



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:

Hen

Report Date:

October 09, 2008

Page:

3 of 3

Part 2

CERTIFICATE OF ANALYSIS

VAN08009763.1

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	
HEN08TRS11	Silt	8	77	1.08	69	0.141	<20	2.18	0.014	0.09	0.1	0.04	7.8	<0.1	<0.05	7	<0.5

QUALITY CONTROL REPORT

VAN08009763.1

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	
Reference Materials																					
STD DS7	Standard	19.0	94.2	61.5	385	0.8	53.0	9.3	626	2.29	53.8	4.5	53.1	3.7	63	6.1	4.7	4.1	82	0.91	0.085
STD DS7	Standard	18.6	113.6	63.2	399	0.8	55.4	9.3	627	2.39	50.5	4.1	65.3	3.4	66	6.4	4.7	4.1	83	0.91	0.079
STD DS7	Standard	18.8	111.2	62.6	401	1.0	52.0	9.2	634	2.29	54.0	3.9	60.2	3.1	58	6.4	4.9	4.0	79	0.84	0.081
STD DS7	Standard	18.9	102.2	61.6	402	0.8	52.9	9.5	591	2.19	53.9	4.0	67.4	3.1	60	6.6	4.8	3.9	77	0.87	0.080
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

QUALITY CONTROL REPORT

VAN08009763.1

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	
Reference Materials																	
STD DS7	Standard	11	178	0.99	391	0.105	41	0.98	0.100	0.49	3.1	0.20	2.4	4.1	0.19	5	3.5
STD DS7	Standard	11	182	1.01	402	0.106	36	0.95	0.093	0.50	3.2	0.20	2.3	4.2	0.12	5	3.2
STD DS7	Standard	10	183	1.02	399	0.094	38	0.92	0.093	0.47	3.2	0.20	1.9	4.2	0.22	4	3.7
STD DS7	Standard	10	175	0.99	409	0.093	35	0.92	0.089	0.48	3.4	0.20	2.0	4.1	0.18	5	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



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 15, 2008
 Report Date: October 22, 2008
 Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN08010221.1

CLIENT JOB INFORMATION

Project: Hen
 Shipment ID:
 P.O. Number
 Number of Samples: 22

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
 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
SS80	22	Dry at 60C sieve 100g to -80 mesh		
Dry at 60C	22	Dry at 60C		
RJSV	22	Save all or part of soil reject fraction		
RJSV	22	Saving all or part of Soil Reject		
1DX	22	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed
DIS-RJT	22	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: 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: Hen

Report Date: October 22, 2008

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN08010221.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX 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
L63000E 67000N	Soil			0.9	30.8	6.5	130	0.2	44.6	17.4	214	2.86	8.9	0.3	1.1	0.8	24	0.2	0.9	0.1	82	0.30	0.211
L63000E 67050N	Soil			0.8	34.5	5.6	91	0.1	46.2	17.9	695	2.87	12.7	0.2	<0.5	0.6	21	0.3	1.4	0.1	86	0.30	0.192
L63000E 67100N	Soil			0.8	60.2	4.2	66	0.1	68.6	21.7	302	3.44	15.9	0.2	0.5	1.1	27	<0.1	1.1	0.1	118	0.29	0.038
L63000E 67150N	Soil			0.7	34.8	6.7	99	0.1	40.6	16.5	338	2.28	15.0	0.2	<0.5	0.8	15	0.3	0.5	0.1	60	0.20	0.134
L63000E 67200N	Soil			0.6	14.5	9.4	84	<0.1	19.4	10.0	362	1.79	7.2	0.2	2.5	0.6	8	0.2	0.5	0.1	54	0.11	0.104
L63000E 67250N	Soil			0.7	53.2	4.1	78	0.1	94.8	21.0	175	3.08	10.7	0.3	7.9	0.9	11	0.2	0.9	<0.1	85	0.18	0.155
L63000E 67300N	Soil			1.1	63.4	4.5	75	0.2	100.9	25.6	188	3.91	10.1	0.5	<0.5	0.8	12	0.2	0.8	0.1	112	0.19	0.177
L63000E 67350N	Soil			0.9	50.8	5.2	77	0.1	104.9	23.2	184	3.16	7.1	0.3	0.5	0.7	9	0.2	1.0	0.1	88	0.17	0.143
L67000E 67400N	Soil			1.0	118.8	2.4	62	<0.1	162.4	29.0	359	4.45	9.1	0.2	<0.5	0.5	9	<0.1	0.6	<0.1	153	0.18	0.080
L67000E 67450N	Soil			0.8	41.1	4.3	54	0.1	73.3	18.8	169	2.78	7.5	0.3	<0.5	0.7	12	0.1	0.6	0.1	82	0.18	0.063
L67000E 67500N	Soil			0.6	92.3	3.3	53	0.1	209.4	27.3	222	3.58	23.7	0.2	<0.5	0.2	13	<0.1	2.6	<0.1	77	0.35	0.111
L57300E 67000N	Soil			1.1	42.4	5.8	67	0.1	45.1	13.4	330	3.02	12.3	0.3	0.9	0.6	23	0.2	0.9	<0.1	89	0.35	0.138
L57300E 66950N	Soil			2.6	71.3	7.3	42	0.5	39.4	10.0	213	3.80	24.4	0.8	<0.5	0.3	15	0.5	0.9	<0.1	122	0.31	0.070
L57300E 66900N	Soil			1.7	155.9	9.0	119	0.7	113.5	33.7	1043	5.46	33.8	1.1	2.3	0.4	33	0.8	1.4	0.1	155	0.59	0.069
L57300E 66850N	Soil			0.8	58.0	6.2	71	0.1	44.4	16.5	429	3.62	17.9	0.4	1.3	0.5	24	0.2	0.7	<0.1	108	0.44	0.162
L57300E 66800N	Soil			0.7	50.8	6.0	55	<0.1	33.4	14.6	297	3.00	17.3	0.3	24.3	0.5	19	0.1	0.7	<0.1	98	0.29	0.078
L57300E 66750N	Soil			0.9	77.3	5.6	69	0.1	53.3	19.9	339	3.91	18.6	0.3	2.2	0.9	18	0.1	0.8	<0.1	133	0.27	0.100
L57300E 66700N	Soil			1.7	86.0	8.1	64	<0.1	44.2	18.6	376	3.45	15.0	0.7	1.6	1.1	23	0.1	0.7	0.3	113	0.32	0.118
L57300E 66650N	Soil			1.5	11.3	9.2	20	<0.1	10.4	4.3	83	1.84	3.5	0.3	<0.5	0.5	13	<0.1	0.3	0.2	69	0.12	0.027
L57300E 66600N	Soil			1.5	46.8	8.1	77	<0.1	44.0	16.1	365	3.63	12.5	0.5	0.9	1.3	17	0.1	0.6	0.5	99	0.27	0.161
L57300E 66550N	Soil			1.3	10.3	9.7	21	<0.1	7.3	2.9	65	1.33	1.3	0.6	<0.5	1.2	7	<0.1	0.2	0.7	45	0.07	0.064
L57300E 66500N	Soil			0.9	46.9	6.0	55	<0.1	44.3	16.7	359	3.02	12.5	0.5	2.1	1.1	23	0.3	0.8	0.3	87	0.29	0.089



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: Hen

Report Date: October 22, 2008

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN08010221.1

Method	Analyte	Unit	MDL	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	TI	S	Ga	Se
				ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	
L63000E 67000N	Soil			2	129	0.99	148	0.237	<20	2.26	0.011	0.11	0.4	0.03	3.2	<0.1	<0.05	9	0.7
L63000E 67050N	Soil			3	101	1.01	170	0.195	<20	1.85	0.015	0.09	1.1	0.02	3.0	<0.1	<0.05	7	<0.5
L63000E 67100N	Soil			4	102	1.36	150	0.309	<20	2.81	0.024	0.38	0.3	0.01	5.2	0.2	<0.05	8	<0.5
L63000E 67150N	Soil			3	64	0.61	118	0.178	<20	1.52	0.014	0.08	0.2	0.02	2.1	<0.1	<0.05	7	0.8
L63000E 67200N	Soil			3	41	0.35	74	0.168	<20	1.05	0.015	0.03	0.2	0.02	1.7	<0.1	<0.05	6	<0.5
L63000E 67250N	Soil			3	167	1.28	106	0.192	<20	2.77	0.015	0.07	0.2	0.03	2.3	<0.1	<0.05	7	0.5
L63000E 67300N	Soil			2	198	1.14	136	0.228	<20	3.74	0.011	0.09	0.2	0.06	2.5	<0.1	<0.05	8	0.7
L63000E 67350N	Soil			2	166	1.35	141	0.223	<20	2.43	0.017	0.08	0.2	0.02	2.2	<0.1	<0.05	8	<0.5
L67000E 67400N	Soil			3	360	2.30	321	0.353	<20	3.25	0.014	0.77	0.2	0.03	2.8	0.1	<0.05	9	0.5
L67000E 67450N	Soil			3	110	0.88	122	0.157	<20	1.98	0.013	0.09	0.3	0.04	1.8	<0.1	<0.05	6	0.6
L67000E 67500N	Soil			1	263	3.11	171	0.219	<20	3.41	0.054	0.37	0.1	0.04	1.5	<0.1	<0.05	8	<0.5
L57300E 67000N	Soil			4	76	1.00	120	0.148	<20	1.64	0.019	0.16	0.2	0.03	2.4	<0.1	<0.05	7	<0.5
L57300E 66950N	Soil			4	78	0.65	79	0.179	<20	1.91	0.010	0.21	0.4	0.05	2.1	<0.1	0.05	8	0.8
L57300E 66900N	Soil			6	159	1.74	259	0.199	<20	3.58	0.017	0.62	0.1	0.03	5.4	0.3	<0.05	10	1.0
L57300E 66850N	Soil			4	74	1.05	169	0.167	<20	2.26	0.016	0.17	0.3	0.05	2.8	<0.1	<0.05	7	0.5
L57300E 66800N	Soil			3	55	0.79	130	0.178	<20	1.63	0.014	0.14	0.2	0.02	2.3	<0.1	<0.05	7	<0.5
L57300E 66750N	Soil			3	78	1.12	138	0.211	<20	2.67	0.014	0.22	0.2	0.03	3.1	<0.1	<0.05	8	<0.5
L57300E 66700N	Soil			6	70	0.96	172	0.198	<20	2.37	0.010	0.25	0.5	0.04	2.8	0.1	<0.05	7	0.6
L57300E 66650N	Soil			3	26	0.23	45	0.179	<20	0.67	0.009	0.06	0.3	0.01	1.0	<0.1	<0.05	7	<0.5
L57300E 66600N	Soil			3	70	0.73	114	0.219	<20	2.98	0.008	0.13	1.6	0.08	2.3	<0.1	<0.05	9	0.6
L57300E 66550N	Soil			4	25	0.12	63	0.152	<20	0.58	0.007	0.04	0.3	0.02	0.6	<0.1	<0.05	6	<0.5
L57300E 66500N	Soil			6	66	0.84	130	0.155	<20	1.72	0.014	0.24	0.3	0.02	2.8	0.1	<0.05	6	0.6

Client: Happy Creek Minerals Ltd.

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

Project: Hen

Report Date: October 22, 2008

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

VAN08010221.1

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	
Pulp Duplicates																					
L67000E 67400N	Soil	1.0	118.8	2.4	62	<0.1	162.4	29.0	359	4.45	9.1	0.2	<0.5	0.5	9	<0.1	0.6	<0.1	153	0.18	0.080
REP L67000E 67400N	QC	0.9	116.0	2.5	62	<0.1	166.0	29.7	356	4.50	9.4	0.2	<0.5	0.5	9	<0.1	0.7	<0.1	154	0.20	0.082
Reference Materials																					
STD DS7	Standard	19.4	108.9	67.2	378	0.8	59.0	9.7	582	2.27	49.3	4.5	52.4	3.9	58	5.5	4.7	4.3	84	0.84	0.069
STD DS7	Standard	20.0	108.2	67.5	392	0.8	56.7	9.4	576	2.25	44.5	4.6	49.6	4.1	61	5.8	4.6	4.3	86	0.87	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

QUALITY CONTROL REPORT

VAN08010221.1

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																	
L67000E 67400N	Soil	3	360	2.30	321	0.353	<20	3.25	0.014	0.77	0.2	0.03	2.8	0.1	<0.05	9	0.5
REP L67000E 67400N	QC	3	372	2.35	323	0.364	<20	3.41	0.017	0.80	0.2	0.02	2.7	0.1	<0.05	9	1.0
Reference Materials																	
STD DS7	Standard	10	174	0.95	375	0.109	41	0.87	0.083	0.39	4.0	0.18	2.7	4.0	0.18	4	3.4
STD DS7	Standard	10	174	0.98	381	0.111	43	0.91	0.080	0.41	3.5	0.17	2.8	3.9	0.17	4	3.3
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



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 4

CERTIFICATE OF ANALYSIS

VAN08007340.1

CLIENT JOB INFORMATION

Project: Hen
 Shipment ID:
 P.O. Number
 Number of Samples: 67

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
 DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

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

CC: D. Ridley
 Bob Lane

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
SS80	67	Dry at 60C sieve 100g to -80 mesh		
Dry at 60C	67	Dry at 60C		
1DX	67	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed
DIS-RJT	67	Warehouse handling / Disposition of reject		

ADDITIONAL COMMENTS



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.



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: Hen

Report Date: July 28, 2008

Page: 2 of 4 Part 1

CERTIFICATE OF ANALYSIS

VAN08007340.1

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	
HEN08 BKS 01	Silt	0.6	61.5	4.2	38	0.1	48.8	17.2	405	3.38	12.1	0.8	2.3	0.7	65	0.2	0.7	<0.1	81	0.79	0.073
HEN08 BKS 02	Silt	1.0	56.2	4.0	36	0.1	51.3	17.1	375	3.31	10.4	0.6	1.1	0.7	59	0.2	0.5	<0.1	78	0.64	0.067
HEN08 BKS 03	Silt	0.7	62.3	4.6	44	0.2	49.7	20.1	506	4.00	17.5	0.5	2.4	0.9	57	0.3	1.0	<0.1	97	0.55	0.077
HEN08 BKS 04	Silt	0.9	87.1	6.0	50	0.3	58.5	21.9	614	4.00	13.5	1.0	3.3	1.4	73	0.2	0.6	0.1	104	0.68	0.055
HEN08 BKS 05	Silt	0.6	66.7	4.3	40	0.1	49.9	18.8	508	3.75	9.0	0.6	2.3	1.1	76	0.1	0.6	<0.1	93	0.73	0.084
HEN08 BKS 06	Silt	0.7	68.8	3.8	48	<0.1	47.0	22.5	553	4.27	12.6	0.5	5.3	1.3	48	0.1	0.6	<0.1	108	0.62	0.107
HEN08 BKS 07	Silt	0.4	45.3	3.2	42	<0.1	35.5	14.7	342	3.28	9.9	0.8	1.7	2.9	33	0.2	0.8	<0.1	92	0.53	0.088
HEN08 BKS 08	Silt	0.6	41.7	3.2	40	<0.1	37.5	14.4	329	3.33	9.0	0.5	2.0	1.3	30	0.1	0.9	<0.1	93	0.48	0.087
HEN08 BKS 09	Silt	0.5	44.7	3.3	41	<0.1	35.9	14.8	351	3.47	10.1	0.5	4.4	1.2	30	0.2	0.7	<0.1	97	0.53	0.085
HEN08 BKS 10	Silt	4.7	52.4	6.9	58	0.3	42.8	47.2	5310	3.73	62.0	0.9	1.5	0.3	39	0.5	0.5	<0.1	106	0.59	0.095
HEN08 BKS 11	Silt	9.1	84.1	9.1	117	0.4	46.4	43.9	4153	4.74	62.2	0.9	3.8	0.8	31	2.4	0.6	0.1	126	0.44	0.098
HEN08 BKS 12	Silt	1.9	59.0	7.5	82	0.3	45.7	24.6	2421	3.50	18.9	0.7	2.7	0.4	42	0.7	0.4	<0.1	114	0.62	0.089
HEN08 BKS 13	Silt	0.7	55.1	5.9	57	0.1	51.5	20.6	606	2.99	13.0	0.5	2.4	0.9	26	0.2	0.5	6.2	92	0.38	0.055
HEN08 BKS 14	Silt	1.1	129.0	9.7	88	0.5	68.3	19.1	653	3.01	11.9	1.4	8.3	0.3	39	0.7	0.5	0.1	76	0.59	0.066
HEN08 BKS 15	Silt	0.6	51.8	3.9	48	<0.1	40.5	16.2	423	3.45	12.0	0.6	2.3	1.2	37	0.2	0.9	<0.1	90	0.60	0.101
HEN08 BKS 16	Silt	0.5	47.8	3.6	46	<0.1	37.6	15.3	381	3.61	11.0	1.3	3.8	5.8	36	0.2	0.8	<0.1	96	0.56	0.102
HEN08 BKS 17	Silt	0.7	50.2	3.8	48	<0.1	41.5	16.4	408	3.78	11.9	0.5	3.0	1.4	40	0.3	0.9	0.2	101	0.61	0.104
HEN08 BKS 18	Silt	0.8	46.7	4.0	57	<0.1	39.6	16.6	621	2.97	19.2	0.7	1.6	0.9	49	0.4	1.0	<0.1	78	0.58	0.101
HEN08 BKS 19	Silt	0.9	54.8	4.1	63	<0.1	49.2	18.8	721	3.69	22.3	0.9	1.2	3.3	50	0.3	1.0	0.1	99	0.68	0.121
HEN08 BKS 20	Silt	0.6	64.5	5.3	57	0.2	50.1	23.1	651	4.86	12.4	0.6	2.1	0.3	68	0.3	1.1	<0.1	121	0.77	0.093
HEN08 BKS 21	Silt	1.1	64.6	4.9	53	0.1	55.1	23.9	582	5.21	11.0	0.6	1.9	0.4	59	0.3	1.9	<0.1	128	0.75	0.081
HEN08 BKS 22	Silt	1.0	65.6	5.8	69	0.2	61.7	21.0	659	3.50	23.0	0.6	3.7	1.1	53	0.3	1.7	<0.1	94	0.84	0.101
HEN08 BKS 23	Silt	0.8	63.2	5.4	74	0.2	60.4	20.7	611	3.71	26.5	0.6	1.6	0.8	61	0.3	1.0	<0.1	93	0.96	0.087
HEN08 BKS 24	Silt	0.6	81.6	5.7	52	0.2	58.1	24.1	599	4.15	21.3	0.6	4.7	0.4	85	0.3	0.9	0.1	101	0.80	0.101
HEN08 BKS 25	Silt	1.0	60.5	4.8	81	<0.1	62.9	25.1	1045	4.05	24.2	0.5	3.0	1.0	105	0.4	0.9	<0.1	95	0.61	0.116
HEN08 BKS 26	Silt	0.6	92.4	5.8	51	0.3	60.5	24.4	540	4.28	31.2	0.8	2.2	0.5	87	0.3	0.9	<0.1	99	0.71	0.103
HEN08 BKS 27	Silt	1.0	54.5	4.2	74	<0.1	55.3	20.7	798	4.10	21.4	0.5	1.6	1.2	60	0.4	0.9	<0.1	90	0.57	0.110
HEN08 BKS 28	Silt	0.7	67.8	4.8	49	0.1	56.3	22.7	521	4.11	20.5	0.5	2.7	0.7	71	0.3	0.9	<0.1	99	0.64	0.090
HEN08 BKS 29	Silt	0.5	66.1	4.6	40	0.1	55.2	20.5	500	4.50	12.9	0.6	1.7	0.5	77	0.1	0.4	<0.1	95	0.79	0.073
HEN08 BKS 30	Silt	0.8	72.0	5.5	60	0.1	57.1	24.5	627	4.46	15.7	0.6	2.0	0.5	77	0.3	0.9	<0.1	114	0.76	0.090

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.
 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: Hen

Report Date: July 28, 2008

Page: 2 of 4 Part 2

CERTIFICATE OF ANALYSIS

VAN08007340.1

Method	Analyte	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
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	0.01	0.01	0.01	0.05	1	0.5	
HEN08 BKS 01	Silt	6	146	0.97	116	0.106	<20	1.30	0.013	0.23	0.2	0.03	3.4	<0.1	<0.05	4	1.1
HEN08 BKS 02	Silt	5	145	0.95	104	0.108	<20	1.21	0.011	0.22	2.1	0.02	3.0	<0.1	<0.05	4	<0.5
HEN08 BKS 03	Silt	6	145	1.04	139	0.122	<20	1.54	0.013	0.29	0.2	0.04	3.6	0.1	<0.05	4	<0.5
HEN08 BKS 04	Silt	8	119	1.11	145	0.146	<20	2.19	0.015	0.27	0.2	0.02	5.5	0.1	<0.05	6	<0.5
HEN08 BKS 05	Silt	6	154	1.09	86	0.108	<20	1.31	0.012	0.26	0.2	0.03	3.3	<0.1	<0.05	4	0.6
HEN08 BKS 06	Silt	6	128	1.16	87	0.127	<20	1.43	0.012	0.29	0.4	0.02	3.1	0.1	<0.05	5	0.9
HEN08 BKS 07	Silt	7	99	0.82	69	0.107	<20	1.08	0.014	0.19	0.2	0.01	2.4	<0.1	<0.05	4	0.7
HEN08 BKS 08	Silt	5	103	0.83	66	0.108	<20	1.03	0.014	0.18	0.2	0.01	2.2	<0.1	<0.05	4	<0.5
HEN08 BKS 09	Silt	6	106	0.80	67	0.105	<20	1.05	0.014	0.18	0.2	<0.01	2.4	<0.1	<0.05	4	0.6
HEN08 BKS 10	Silt	10	59	0.75	154	0.058	<20	2.21	0.015	0.08	<0.1	0.10	3.5	0.2	<0.05	5	0.6
HEN08 BKS 11	Silt	11	60	0.71	341	0.079	<20	2.49	0.015	0.08	0.1	0.09	4.9	0.5	<0.05	5	<0.5
HEN08 BKS 12	Silt	8	64	0.92	117	0.081	<20	2.13	0.014	0.08	<0.1	0.06	3.8	<0.1	<0.05	5	<0.5
HEN08 BKS 13	Silt	6	79	0.94	104	0.117	<20	1.92	0.016	0.12	0.3	0.03	3.3	<0.1	<0.05	6	<0.5
HEN08 BKS 14	Silt	10	87	0.91	133	0.069	<20	2.14	0.017	0.08	<0.1	0.06	3.8	<0.1	0.11	5	1.7
HEN08 BKS 15	Silt	7	95	0.96	87	0.113	<20	1.26	0.015	0.23	0.3	0.01	2.6	<0.1	0.08	4	1.1
HEN08 BKS 16	Silt	8	101	0.89	78	0.113	<20	1.19	0.016	0.21	0.2	0.01	2.4	<0.1	0.07	4	1.6
HEN08 BKS 17	Silt	7	113	0.96	87	0.124	<20	1.26	0.018	0.24	0.2	0.02	2.7	<0.1	0.08	4	1.6
HEN08 BKS 18	Silt	7	78	0.93	123	0.110	<20	1.34	0.015	0.23	0.1	0.02	2.9	0.1	0.06	4	1.0
HEN08 BKS 19	Silt	7	110	1.04	138	0.136	<20	1.43	0.020	0.29	0.2	0.02	3.1	0.1	0.08	5	2.1
HEN08 BKS 20	Silt	6	171	1.24	113	0.109	<20	1.67	0.010	0.29	<0.1	0.04	4.0	<0.1	0.10	5	1.0
HEN08 BKS 21	Silt	5	188	1.31	70	0.130	<20	1.62	0.010	0.19	<0.1	0.03	3.8	<0.1	0.10	5	1.3
HEN08 BKS 22	Silt	8	95	1.09	189	0.139	<20	1.89	0.028	0.34	0.2	0.03	3.9	0.1	0.07	5	1.1
HEN08 BKS 23	Silt	6	135	1.18	191	0.137	<20	2.00	0.032	0.34	0.1	0.03	3.8	0.1	0.08	6	2.0
HEN08 BKS 24	Silt	6	156	1.50	173	0.113	<20	1.94	0.009	0.40	<0.1	0.05	4.0	<0.1	0.07	6	0.7
HEN08 BKS 25	Silt	6	128	1.27	150	0.125	<20	1.70	0.014	0.34	0.2	0.03	3.1	0.1	0.06	6	1.3
HEN08 BKS 26	Silt	8	150	1.39	185	0.127	<20	2.06	0.010	0.39	0.2	0.04	4.5	<0.1	0.07	5	0.9
HEN08 BKS 27	Silt	6	136	1.14	120	0.117	<20	1.52	0.015	0.27	0.2	0.02	3.0	0.1	0.06	5	0.8
HEN08 BKS 28	Silt	6	156	1.25	151	0.131	<20	1.74	0.014	0.34	0.1	0.02	3.3	0.1	0.06	5	<0.5
HEN08 BKS 29	Silt	5	199	1.16	121	0.123	<20	1.45	0.011	0.27	<0.1	0.02	3.3	<0.1	0.07	4	0.5
HEN08 BKS 30	Silt	6	162	1.60	155	0.151	<20	2.05	0.011	0.41	0.1	0.03	4.4	<0.1	0.06	6	0.8

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.
 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: Hen

Report Date: July 28, 2008

Page: 3 of 4

Part 1

CERTIFICATE OF ANALYSIS

VAN08007340.1

Method	Analyte	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
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
HEN08 BKS 31	Silt	1.1	71.1	5.2	50	0.2	52.7	22.1	576	4.01	18.9	0.5	2.1	0.4	80	0.3	0.9	<0.1	97	0.71	0.077
HEN08 BKS 32	Silt	1.5	73.7	6.4	93	<0.1	57.3	24.4	858	4.35	8.9	0.6	2.6	1.2	44	0.7	1.2	<0.1	124	0.83	0.097
HEN08 BKS 33	Silt	1.1	80.0	6.1	96	0.1	67.1	23.9	860	4.13	9.3	0.6	2.3	1.2	45	0.6	1.3	<0.1	121	0.89	0.101
HEN08 BKS 34	Silt	0.9	70.7	6.4	77	0.4	44.2	20.5	920	3.94	7.2	0.9	2.9	0.5	60	0.7	0.9	<0.1	124	1.00	0.090
HEN08 BKS 35	Silt	0.9	82.7	9.2	87	0.5	28.5	20.8	989	4.32	6.8	1.2	3.4	0.2	84	0.8	0.8	0.1	133	1.01	0.130
HEN08 BKS 36	Silt	0.9	85.2	7.9	72	0.3	39.7	31.5	1355	4.57	6.0	1.1	2.0	0.9	62	0.6	0.8	0.1	135	0.82	0.094
HEN08 BKS 37	Silt	1.0	86.2	6.7	77	0.2	63.0	27.7	1013	4.50	9.5	1.1	3.3	1.0	61	0.5	1.1	<0.1	132	0.95	0.114
HEN08 BKS 38	Silt	1.1	79.7	6.8	85	0.2	67.6	27.7	975	4.67	11.9	0.7	4.1	1.2	65	0.5	1.2	<0.1	143	0.91	0.103
HEN08 BKS 39	Silt	1.4	79.2	6.2	101	0.2	61.6	25.1	1153	4.34	19.5	0.8	2.5	0.6	50	0.6	1.2	<0.1	122	1.03	0.101
HEN08 BKS 40	Silt	1.1	68.0	6.2	81	0.1	45.8	25.7	1150	4.15	7.4	0.6	1.6	0.8	40	0.5	0.9	<0.1	135	0.86	0.090
HEN08 BKS 41	Silt	1.0	97.9	8.4	94	1.1	32.5	18.4	1458	3.28	4.6	1.8	3.7	0.1	98	1.9	0.7	0.1	118	1.11	0.227
HEN08 BKS 42	Silt	0.9	64.0	7.8	109	0.6	39.2	15.7	1072	3.47	6.7	0.9	2.2	0.1	60	1.1	0.6	0.1	121	1.04	0.162
HEN08 BKS 43	Silt	0.2	27.0	4.1	46	0.1	16.0	8.0	477	1.92	1.9	0.7	0.8	0.3	36	0.2	0.4	<0.1	70	0.62	0.072
HEN08 BKS 44	Silt	1.5	60.4	8.3	91	0.3	28.5	21.1	1569	3.53	4.4	0.9	1.3	0.3	54	1.3	0.4	0.1	139	0.79	0.098
HEN08 BKS 45	Silt	0.9	71.7	7.1	85	0.4	34.1	17.4	900	3.66	4.6	1.0	1.7	0.4	73	1.2	0.5	<0.1	112	1.22	0.107
HEN08 BKS 46	Silt	1.0	79.3	7.3	83	0.5	34.0	19.4	984	4.01	5.4	1.2	1.6	0.4	72	0.8	0.7	<0.1	126	1.19	0.110
HEN08 BKS 47	Silt	1.1	91.1	8.9	84	1.0	32.5	18.0	1155	4.00	8.0	1.5	3.5	0.2	80	1.3	1.0	0.1	127	1.29	0.134
HEN08 BKS 48	Silt	1.1	105.5	8.2	74	1.2	30.4	17.4	1164	3.81	11.0	2.8	6.5	0.3	89	1.2	0.9	<0.1	130	1.30	0.155
HEN08 BKS 49	Silt	1.3	69.6	7.0	93	0.4	48.6	18.9	808	3.56	7.4	0.9	1.8	0.3	60	1.0	1.0	<0.1	120	1.13	0.086
HEN08 TRS- 01	Silt	0.7	67.4	4.0	37	0.2	37.6	12.9	406	2.68	9.6	1.1	2.5	0.9	44	0.3	0.7	0.1	84	0.85	0.075
HEN08 TRS- 02	Silt	1.1	64.7	5.6	50	0.1	32.8	16.9	653	3.96	5.7	0.8	2.9	0.7	32	0.2	0.4	<0.1	160	0.56	0.103
HEN08 TRS- 03	Silt	0.7	109.4	22.7	81	0.3	30.9	30.5	3082	5.06	17.2	1.1	3.0	0.6	43	0.7	1.8	<0.1	230	0.64	0.180
HEN08 TRS- 04	Silt	0.5	146.5	12.2	88	0.3	65.3	23.6	1057	4.47	16.9	0.7	2.0	0.4	45	0.5	1.8	<0.1	142	0.59	0.102
HEN08 TRS- 05	Silt	0.7	86.2	4.2	53	0.2	93.6	25.7	569	4.20	25.4	0.5	38.6	0.5	61	0.1	0.8	<0.1	103	0.69	0.112
HEN08 TRS- 06	Silt	1.2	119.1	8.0	90	0.6	77.8	24.9	819	3.50	29.1	1.8	3.3	0.4	75	1.1	2.3	0.1	103	1.53	0.089
HEN08 TRS- 07	Silt	3.4	53.7	5.5	99	<0.1	53.4	58.6	4157	6.24	86.1	0.5	1.6	0.8	55	0.3	2.2	<0.1	160	0.79	0.165
HEN08 TRS- 08	Silt	1.0	81.2	5.2	90	0.2	55.5	25.0	970	4.25	41.6	0.9	3.6	1.1	43	0.3	1.8	0.1	132	0.73	0.122
HEN08 TRS- 09	Silt	0.9	52.2	4.3	60	0.1	44.0	17.3	595	3.28	21.7	0.7	5.4	0.8	46	0.3	0.8	<0.1	90	0.61	0.103
HEN08 TRS- 10	Silt	0.6	46.0	3.9	50	<0.1	38.8	16.0	510	3.05	16.4	0.6	3.4	1.3	36	0.2	0.8	<0.1	86	0.50	0.095
HEN08 DSI- 01	Silt	0.5	36.7	2.5	30	<0.1	30.0	12.2	306	2.80	13.2	0.7	3.4	3.4	22	<0.1	1.5	0.1	101	0.43	0.109

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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

July 28, 2008

Page:

3 of 4

Part 2

CERTIFICATE OF ANALYSIS

VAN08007340.1

Method	Analyte	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
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	0.01	0.01	0.01	0.05	1	0.5	
HEN08 BKS 31	Silt	6	144	1.27	150	0.130	<20	1.83	0.012	0.30	0.1	0.04	4.3	<0.1	<0.05	6	0.5
HEN08 BKS 32	Silt	7	85	1.24	74	0.148	<20	2.38	0.012	0.09	0.1	0.03	6.5	<0.1	<0.05	8	1.2
HEN08 BKS 33	Silt	7	100	1.31	64	0.152	<20	2.28	0.011	0.09	0.2	0.04	8.0	<0.1	<0.05	7	1.8
HEN08 BKS 34	Silt	10	85	1.06	61	0.123	<20	2.36	0.010	0.07	0.1	0.07	8.3	<0.1	<0.05	7	2.6
HEN08 BKS 35	Silt	16	46	0.79	71	0.094	<20	2.85	0.013	0.06	0.2	0.09	6.8	<0.1	0.08	8	2.0
HEN08 BKS 36	Silt	13	66	1.05	74	0.133	<20	2.77	0.010	0.07	0.2	0.05	10.3	<0.1	<0.05	9	1.4
HEN08 BKS 37	Silt	11	113	1.35	69	0.154	<20	2.68	0.013	0.10	0.1	0.05	13.4	<0.1	<0.05	9	2.4
HEN08 BKS 38	Silt	8	107	1.52	65	0.169	<20	2.72	0.013	0.10	0.1	0.04	7.8	<0.1	<0.05	9	1.0
HEN08 BKS 39	Silt	8	87	1.30	60	0.148	<20	2.48	0.012	0.08	0.2	0.06	6.6	<0.1	<0.05	7	2.1
HEN08 BKS 40	Silt	7	77	1.07	81	0.144	<20	2.24	0.010	0.08	0.2	0.03	6.6	<0.1	<0.05	8	0.8
HEN08 BKS 41	Silt	19	64	0.67	70	0.030	<20	2.68	0.011	0.06	0.1	0.18	5.2	<0.1	0.14	7	3.0
HEN08 BKS 42	Silt	9	75	0.94	94	0.045	<20	2.51	0.010	0.08	<0.1	0.10	3.9	<0.1	0.09	7	1.2
HEN08 BKS 43	Silt	5	82	0.51	44	0.081	<20	1.03	0.008	0.08	<0.1	0.03	2.8	<0.1	<0.05	4	1.3
HEN08 BKS 44	Silt	12	49	0.80	73	0.093	<20	2.23	0.010	0.05	<0.1	0.06	5.6	<0.1	<0.05	8	1.0
HEN08 BKS 45	Silt	14	55	0.76	66	0.102	<20	2.28	0.012	0.06	0.1	0.09	6.3	<0.1	0.09	7	2.0
HEN08 BKS 46	Silt	19	57	0.83	65	0.113	<20	2.67	0.011	0.06	0.2	0.09	9.2	<0.1	0.07	7	2.4
HEN08 BKS 47	Silt	23	61	0.91	46	0.091	<20	2.64	0.011	0.06	0.1	0.15	10.7	<0.1	0.10	8	4.0
HEN08 BKS 48	Silt	29	73	0.79	57	0.077	<20	3.54	0.013	0.07	0.2	0.22	21.4	<0.1	0.11	8	3.7
HEN08 BKS 49	Silt	10	76	1.09	53	0.116	<20	2.23	0.011	0.07	0.1	0.08	6.4	<0.1	0.05	7	2.1
HEN08 TRS- 01	Silt	9	67	0.77	119	0.102	<20	1.30	0.016	0.21	0.2	0.04	3.1	<0.1	<0.05	4	0.8
HEN08 TRS- 02	Silt	8	47	0.66	102	0.104	<20	1.75	0.012	0.10	0.2	0.03	4.7	<0.1	<0.05	5	<0.5
HEN08 TRS- 03	Silt	9	45	0.82	128	0.110	<20	2.15	0.009	0.15	<0.1	0.04	7.3	<0.1	<0.05	7	<0.5
HEN08 TRS- 04	Silt	6	121	1.25	159	0.110	<20	2.77	0.013	0.17	<0.1	0.04	7.7	<0.1	<0.05	8	<0.5
HEN08 TRS- 05	Silt	6	209	1.91	136	0.129	<20	2.00	0.012	0.42	0.1	0.03	4.2	0.1	<0.05	6	<0.5
HEN08 TRS- 06	Silt	10	155	1.20	262	0.092	<20	2.75	0.018	0.25	0.3	0.08	4.4	0.1	0.06	6	2.0
HEN08 TRS- 07	Silt	6	108	1.58	270	0.170	<20	2.29	0.037	0.39	0.2	0.04	4.4	0.1	<0.05	7	<0.5
HEN08 TRS- 08	Silt	8	87	1.24	202	0.163	<20	2.25	0.029	0.44	0.2	0.03	5.7	0.2	<0.05	7	<0.5
HEN08 TRS- 09	Silt	7	92	0.99	121	0.105	<20	1.42	0.016	0.24	0.2	0.02	3.0	<0.1	<0.05	4	0.8
HEN08 TRS- 10	Silt	6	88	0.88	107	0.104	<20	1.14	0.017	0.22	0.2	0.02	2.4	<0.1	<0.05	4	<0.5
HEN08 DSI- 01	Silt	11	69	0.55	76	0.091	<20	0.71	0.015	0.18	0.7	<0.01	2.5	<0.1	<0.05	3	<0.5

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.
 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: Hen

Report Date: July 28, 2008

Page: 4 of 4 Part 1

CERTIFICATE OF ANALYSIS

VAN08007340.1

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	
HEN08 DSI- 02	Silt	0.8	54.8	3.4	39	<0.1	34.1	14.0	458	3.06	20.2	0.7	4.1	3.7	31	0.1	1.6	0.2	100	0.50	0.122
HEN08 DSI- 03	Silt	0.8	85.3	4.0	50	<0.1	51.2	20.9	518	3.55	21.5	0.6	5.2	2.8	30	0.2	1.6	0.1	120	0.63	0.122
HEN08 DSI- 04	Silt	0.6	43.6	2.5	30	<0.1	33.7	13.5	344	2.87	11.9	0.5	3.3	1.9	24	<0.1	1.4	<0.1	104	0.49	0.100
HEN08 DSI- 05	Silt	0.9	98.2	6.3	54	0.5	70.5	21.8	516	3.54	12.5	1.0	2.3	1.1	41	0.3	2.8	<0.1	102	1.06	0.059
HEN08 DSI- 06	Silt	0.7	47.3	3.4	44	<0.1	37.0	16.6	497	3.20	15.8	0.6	6.7	1.6	35	0.2	0.8	<0.1	101	0.54	0.108
HEN08 DSI- 07	Silt	1.2	89.7	8.3	94	0.6	32.4	20.7	1737	3.39	4.6	1.8	2.1	0.2	50	1.1	0.5	0.1	137	0.75	0.128
HEN08 DSI- 08	Silt	1.4	45.8	8.1	86	0.2	36.7	21.0	1486	2.96	9.7	0.5	2.2	0.2	34	0.5	1.2	<0.1	82	0.49	0.091



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: Hen

Report Date: July 28, 2008

Page: 4 of 4 Part 2

CERTIFICATE OF ANALYSIS

VAN08007340.1

Method	Analyte	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
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	0.05	1	0.5	
HEN08 DSI- 02	Silt	13	75	0.74	96	0.130	<20	1.02	0.027	0.28	7.8	0.01	2.7	0.2	0.05	4	<0.5
HEN08 DSI- 03	Silt	10	89	1.11	158	0.160	<20	1.42	0.035	0.47	0.4	<0.01	5.5	0.2	<0.05	5	<0.5
HEN08 DSI- 04	Silt	8	74	0.69	101	0.102	<20	0.84	0.020	0.28	0.3	<0.01	2.5	<0.1	<0.05	3	<0.5
HEN08 DSI- 05	Silt	9	101	1.07	148	0.156	<20	2.10	0.023	0.24	0.2	0.06	4.1	0.1	<0.05	6	2.0
HEN08 DSI- 06	Silt	9	84	0.86	111	0.120	<20	1.15	0.019	0.25	0.2	0.01	2.7	<0.1	<0.05	4	<0.5
HEN08 DSI- 07	Silt	17	71	0.66	53	0.051	<20	2.62	0.010	0.05	<0.1	0.09	7.0	<0.1	<0.05	8	0.6
HEN08 DSI- 08	Silt	5	71	0.85	72	0.080	<20	1.98	0.007	0.06	0.1	0.05	2.6	<0.1	<0.05	5	0.7

Client: Happy Creek Minerals Ltd.

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

Project: Hen

Report Date: July 28, 2008

www.acmelab.com

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

VAN08007340.1

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	
Pulp Duplicates																					
HEN08 BKS 39	Silt	1.4	79.2	6.2	101	0.2	61.6	25.1	1153	4.34	19.5	0.8	2.5	0.6	50	0.6	1.2	<0.1	122	1.03	0.101
REP HEN08 BKS 39	QC	1.4	74.4	6.0	94	0.2	60.7	24.3	1156	4.29	19.5	0.8	2.7	0.6	51	0.7	1.2	<0.1	126	1.09	0.104
Reference Materials																					
STD DS7	Standard	20.1	118.8	72.2	422	0.8	55.5	9.9	634	2.43	53.8	5.0	55.9	4.1	66	6.5	5.4	4.6	86	0.91	0.081
STD DS7	Standard	21.0	113.9	73.3	436	0.9	58.2	10.2	665	2.55	61.1	5.2	67.6	4.5	73	6.5	5.9	4.8	89	1.01	0.084
STD DS7	Standard	20.5	108.6	67.6	404	0.8	57.7	9.4	629	2.33	44.9	4.8	59.4	3.8	63	6.1	4.7	4.2	85	0.87	0.073
STD DS7	Standard	21.6	129.7	69.2	396	0.8	57.8	9.5	597	2.26	47.6	4.7	83.0	4.1	62	5.9	4.8	4.2	84	0.86	0.070
STD DS7	Standard	21.4	109.7	70.1	398	0.8	55.6	9.3	599	2.30	49.2	5.0	53.4	3.9	61	5.8	5.1	4.1	85	0.89	0.074
STD DS7	Standard	23.3	114.1	74.2	411	0.8	63.5	10.2	648	2.48	51.1	5.0	64.6	4.7	68	6.1	5.0	4.3	94	0.96	0.074
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 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

QUALITY CONTROL REPORT

VAN08007340.1

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																	
HEN08 BKS 39	Silt	8	87	1.30	60	0.148	<20	2.48	0.012	0.08	0.2	0.06	6.6	<0.1	<0.05	7	2.1
REP HEN08 BKS 39	QC	8	88	1.27	61	0.148	<20	2.47	0.012	0.09	0.2	0.07	6.8	<0.1	0.05	7	2.2
Reference Materials																	
STD DS7	Standard	11	192	1.02	391	0.113	31	0.98	0.086	0.47	3.7	0.18	2.2	4.3	0.27	5	4.6
STD DS7	Standard	12	195	1.06	397	0.122	40	1.03	0.088	0.47	3.9	0.20	2.5	4.4	0.25	5	4.4
STD DS7	Standard	11	195	1.04	378	0.116	42	0.98	0.088	0.43	3.8	0.22	2.3	4.4	0.16	5	3.7
STD DS7	Standard	11	190	0.99	377	0.117	33	0.95	0.084	0.43	3.6	0.19	2.4	4.1	0.18	4	4.2
STD DS7	Standard	11	186	1.01	367	0.108	31	0.96	0.083	0.42	4.1	0.20	2.6	4.1	0.18	5	3.5
STD DS7	Standard	13	200	1.08	394	0.119	42	1.03	0.092	0.46	3.6	0.21	2.7	4.4	0.19	5	3.5
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 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



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:

Allnorth Consultants Ltd.

PO Box 968
2011 PG Pulpmill Road
Prince George BC V2L 4V1 Canada

Submitted By:

Bob Lane

Receiving Lab:

Canada-Vancouver

Received:

July 09, 2008

Report Date:

July 16, 2008

Page:

1 of 2

CERTIFICATE OF ANALYSIS

VAN08007128.1

CLIENT JOB INFORMATION

Project: Hen-AC-AD
Shipment ID:
P.O. Number
Number of Samples: 24

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.

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

CC: Dave Ridley
Mark Ralph

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	24	Crush, split and pulverize rock to 200 mesh		
1DX	24	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed

ADDITIONAL COMMENTS



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.



AcmeLabs 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: Allnorth Consultants Ltd.

PO Box 968
 2011 PG Pulpmill Road
 Prince George BC V2L 4V1 Canada

Project: Hen-AC-AD
 Report Date: July 16, 2008

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN08007128.1

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	
659660	Rock	1.42	1.8	663.7	1.8	102	0.3	9.2	18.0	1180	5.51	0.6	1.1	1.3	1.4	37	0.1	0.2	<0.1	180	1.49
659661	Rock	2.18	0.8	175.8	2.0	52	0.1	31.0	20.8	563	3.69	2.4	0.1	3.0	0.2	90	0.1	0.1	<0.1	118	2.14
659662	Rock	1.26	0.3	145.3	21.5	116	0.2	26.8	29.1	466	3.77	11.6	0.3	0.9	0.8	230	0.2	<0.1	<0.1	120	2.13
659663	Rock	1.56	0.4	157.3	1.6	26	<0.1	37.2	18.7	271	2.06	2.6	0.5	3.4	1.9	74	<0.1	0.1	<0.1	61	1.31
659664	Rock	2.08	0.3	114.4	2.1	28	<0.1	67.0	23.4	478	2.55	1.2	0.5	1.3	1.2	122	0.1	0.2	<0.1	67	5.79
659665	Rock	1.45	0.7	78.6	30.4	150	0.2	21.2	21.5	362	4.44	5.0	0.3	6.1	0.8	65	0.6	3.3	0.1	126	0.88
659666	Rock	1.67	0.4	58.3	2.7	72	0.1	13.5	18.7	857	4.76	10.0	0.3	<0.5	0.9	36	0.2	0.5	<0.1	138	1.75
659667	Rock	1.80	1.4	128.0	4.3	46	0.2	17.2	11.5	305	2.65	4.8	0.3	1.6	1.7	50	<0.1	0.8	<0.1	106	0.39
659668	Rock	1.11	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	<0.1	123	1.33
659669	Rock	1.10	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	<0.1	79	2.01
828501	Rock	2.44	1.5	193.1	3.7	27	<0.1	21.9	20.2	271	3.13	2.3	0.3	1.0	0.6	75	<0.1	0.7	<0.1	69	1.29
828502	Rock	2.62	0.4	142.5	4.5	42	0.2	28.9	19.3	311	2.96	1.9	0.4	3.2	0.9	105	<0.1	0.4	0.1	84	1.74
828503	Rock	1.50	1.5	102.6	2.6	68	<0.1	134.5	26.7	337	3.44	0.5	0.5	1.5	0.6	78	1.7	<0.1	<0.1	73	1.96
828504	Rock	1.56	1.0	53.8	2.6	66	0.1	17.4	15.1	599	4.13	2.1	0.3	1.8	1.6	73	<0.1	0.7	<0.1	138	0.94
828505	Rock	2.17	0.6	45.4	1.7	48	0.1	9.7	10.4	346	2.64	2.1	0.2	2.1	1.0	25	<0.1	0.7	<0.1	79	1.01
828506	Rock	2.06	2.9	6.1	5.4	101	0.4	34.6	2.3	267	0.85	28.8	1.3	1.7	1.5	1642	3.1	0.9	<0.1	7	18.49
828507	Rock	1.57	2.5	139.1	7.2	52	<0.1	75.6	34.9	409	6.06	0.7	0.3	2.1	0.6	42	0.2	1.1	0.2	118	0.53
828508	Rock	1.44	0.9	74.1	1.7	26	<0.1	908.4	70.1	597	2.34	13.8	0.5	1.7	0.3	108	0.2	<0.1	<0.1	55	9.62
828509	Rock	1.37	0.3	54.5	4.0	65	<0.1	105.8	30.2	1374	5.96	22.3	0.2	2.2	0.7	646	0.2	4.2	<0.1	159	7.41
828510	Rock	1.67	0.6	51.0	9.3	183	0.1	37.9	14.7	281	7.42	1.4	0.5	1.2	7.6	13	0.3	0.3	0.2	34	0.13
828511	Rock	1.15	5.0	76.5	11.8	170	0.3	51.9	16.2	867	4.24	18.2	2.1	<0.5	5.7	23	1.0	0.8	0.1	30	0.20
828512	Rock	1.52	0.5	130.9	4.0	111	<0.1	6.8	31.0	1304	6.78	5.3	0.3	0.9	1.6	94	0.2	1.2	<0.1	199	1.25
826522	Rock	1.97	0.8	157.8	1.3	33	<0.1	20.6	21.9	387	2.80	1.8	0.7	1.2	2.5	81	<0.1	<0.1	<0.1	82	1.65
826523	Rock	2.60	0.4	852.3	2.7	50	0.7	7.8	13.1	460	2.85	3.1	0.7	32.8	2.2	44	<0.1	0.3	<0.1	102	0.87



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: **Allnorth Consultants Ltd.**

PO Box 968
 2011 PG Pulpmill Road
 Prince George BC V2L 4V1 Canada

Project: Hen-AC-AD

Report Date: July 16, 2008

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN08007128.1

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	
659660	Rock	0.253	17	8	1.41	247	0.145	<20	1.83	0.034	1.04	<0.1	<0.01	7.6	<0.1	<0.05	7	<0.5
659661	Rock	0.128	2	57	1.71	211	0.202	<20	2.41	0.111	1.50	0.1	<0.01	3.0	0.3	0.16	6	<0.5
659662	Rock	0.074	3	35	1.49	414	0.222	<20	4.32	0.373	1.34	<0.1	<0.01	3.3	0.2	0.63	9	0.7
659663	Rock	0.128	7	72	0.83	88	0.152	<20	1.36	0.112	0.55	<0.1	0.01	2.7	<0.1	0.14	4	<0.5
659664	Rock	0.083	4	84	1.41	233	0.184	<20	2.04	0.163	0.85	<0.1	<0.01	3.4	0.1	0.10	5	<0.5
659665	Rock	0.123	4	51	1.35	71	0.155	<20	1.73	0.099	0.89	0.2	0.02	2.5	0.4	2.45	8	<0.5
659666	Rock	0.109	5	34	2.64	59	0.174	<20	3.08	0.040	0.51	0.2	0.02	7.4	0.5	0.54	7	0.8
659667	Rock	0.110	8	40	0.79	278	0.204	<20	1.36	0.139	0.81	0.2	<0.01	3.5	0.3	0.17	6	1.0
659668	Rock	0.121	1	31	1.19	44	0.162	<20	1.29	0.143	0.41	<0.1	<0.01	4.8	<0.1	<0.05	4	<0.5
659669	Rock	0.198	2	9	0.22	31	0.100	<20	0.72	0.045	0.12	0.2	<0.01	1.8	<0.1	<0.05	3	<0.5
828501	Rock	0.091	4	33	0.76	141	0.215	<20	1.61	0.189	0.42	0.1	<0.01	3.0	<0.1	0.80	5	1.7
828502	Rock	0.105	3	37	1.52	162	0.188	<20	3.04	0.342	0.50	<0.1	<0.01	3.4	0.2	0.14	7	<0.5
828503	Rock	0.135	3	184	2.10	253	0.183	<20	1.80	0.138	0.98	<0.1	<0.01	2.3	<0.1	0.89	5	0.5
828504	Rock	0.109	7	34	1.43	530	0.325	<20	2.99	0.279	1.58	0.1	<0.01	5.4	0.3	0.13	9	2.1
828505	Rock	0.078	4	35	0.74	298	0.172	<20	1.88	0.136	0.56	0.3	<0.01	3.9	<0.1	0.14	7	1.5
828506	Rock	0.096	4	13	0.17	98	0.002	<20	0.14	0.004	0.06	<0.1	<0.01	2.2	<0.1	0.06	<1	7.6
828507	Rock	0.169	3	148	2.03	292	0.310	<20	2.25	0.091	1.59	0.3	<0.01	2.6	0.3	1.17	10	5.1
828508	Rock	0.099	2	223	1.30	192	0.147	46	1.62	0.067	0.82	<0.1	<0.01	1.5	0.1	<0.05	4	<0.5
828509	Rock	0.162	4	244	3.73	184	0.065	<20	2.23	0.042	0.58	<0.1	<0.01	16.4	<0.1	<0.05	7	0.8
828510	Rock	0.055	17	35	1.42	40	0.005	<20	3.21	0.014	0.07	<0.1	<0.01	3.0	<0.1	<0.05	10	1.7
828511	Rock	0.091	16	33	1.24	96	0.003	<20	1.64	0.016	0.17	<0.1	0.05	1.8	0.1	<0.05	4	5.1
828512	Rock	0.266	6	5	3.11	119	0.089	<20	3.51	0.022	0.65	0.1	<0.01	7.2	<0.1	0.13	12	<0.5
826522	Rock	0.161	11	22	0.97	169	0.152	<20	2.31	0.237	0.74	<0.1	<0.01	2.8	0.1	0.17	6	0.7
826523	Rock	0.135	5	9	1.03	83	0.104	<20	1.52	0.047	0.32	0.2	0.01	2.0	<0.1	0.09	6	<0.5

QUALITY CONTROL REPORT

VAN08007128.1

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	
Reference Materials																					
STD DS7	Standard	19.9	110.9	77.7	385	0.8	48.0	8.7	584	2.25	49.2	5.1	50.7	4.4	74	6.7	5.6	5.0	81	0.90	
STD DS7	Standard	19.3	107.5	71.1	362	0.9	49.0	8.5	550	2.15	43.9	4.9	79.6	4.4	65	6.4	5.4	4.7	75	0.87	
STD DS7	Standard	23.9	102.5	69.9	392	0.8	58.0	9.5	647	2.32	56.2	4.8	49.8	4.2	70	6.4	4.9	4.5	82	0.93	
STD DS7	Standard	21.2	103.4	69.4	407	0.8	57.1	9.2	621	2.29	51.3	4.4	51.4	4.0	65	6.3	4.9	4.6	86	0.89	
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	
Prep Wash																					
G1	Prep Blank	<0.01	0.6	19.2	3.2	47	<0.1	4.7	4.5	569	2.00	<0.5	2.3	0.6	4.0	67	<0.1	<0.1	0.1	42	0.56
G1	Prep Blank	<0.01	1.2	75.3	3.1	45	<0.1	6.8	4.3	530	2.03	0.6	2.5	0.8	4.3	73	<0.1	<0.1	0.1	38	0.66

QUALITY CONTROL REPORT

VAN08007128.1

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	TI	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	0.071	12	156	1.03	367	0.126	36	0.97	0.078	0.45	3.5	0.21	2.2	4.0	0.18	4	3.9
STD DS7	Standard	0.068	10	150	1.00	342	0.111	35	0.93	0.070	0.40	3.1	0.17	1.8	3.8	0.17	4	3.4
STD DS7	Standard	0.076	12	180	1.04	391	0.112	28	1.03	0.084	0.45	3.8	0.19	2.3	4.2	0.18	5	4.8
STD DS7	Standard	0.081	11	189	1.01	388	0.107	32	0.99	0.086	0.45	3.6	0.19	2.1	4.2	0.18	5	4.3
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	0.088	7	10	0.61	248	0.152	<20	1.07	0.095	0.56	<0.1	<0.01	2.0	0.4	<0.05	5	<0.5
G1	Prep Blank	0.080	8	13	0.60	219	0.145	<20	1.14	0.113	0.53	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: July 16, 2008
 Report Date: July 24, 2008
 Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN08007342.1

CLIENT JOB INFORMATION

Project: Hen
 Shipment ID:
 P.O. Number
 Number of Samples: 55

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
 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.

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

CC: D. Ridley
 Bob Lane

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	55	Crush, split and pulverize rock to 200 mesh		
1DX	55	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed
DIS-RJT	55	Warehouse handling / Disposition of reject		

ADDITIONAL COMMENTS



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.



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

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Happy Creek Minerals Ltd.

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

Project:

Hen

Report Date:

July 24, 2008

Page:

2 of 3

Part 1

CERTIFICATE OF ANALYSIS

VAN08007342.1

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	
151559	Rock	1.38	0.3	149.1	2.1	41	<0.1	43.1	30.8	298	4.05	11.6	1.1	1.2	2.1	152	<0.1	0.4	<0.1	195	1.03
151560	Rock	1.07	0.3	90.5	2.7	31	<0.1	15.8	14.1	294	2.24	1.8	0.4	19.1	0.8	124	<0.1	0.5	<0.1	109	3.73
151561	Rock	1.34	0.9	136.6	3.9	67	0.2	18.6	21.1	525	3.84	12.7	0.6	12.9	1.2	44	0.1	0.5	0.2	179	1.41
151562	Rock	1.13	3.5	194.0	1.6	19	0.1	23.8	11.8	194	2.46	3.3	0.4	9.8	0.8	43	0.1	0.4	<0.1	65	0.53
151563	Rock	1.17	0.2	173.1	3.7	49	<0.1	32.4	27.0	565	3.72	11.5	0.4	2.5	1.6	294	<0.1	0.3	<0.1	116	2.71
151564	Rock	1.07	15.5	71.0	5.7	58	<0.1	17.2	11.9	550	3.51	2.6	0.7	<0.5	1.7	18	0.4	0.5	<0.1	117	3.02
151565	Rock	0.94	3.8	55.4	5.9	71	<0.1	12.6	12.6	683	3.41	2.0	0.4	0.7	0.6	29	0.2	0.4	<0.1	93	0.96
151566	Rock	1.33	0.6	31.9	10.1	45	<0.1	10.4	14.2	772	3.06	2.8	0.7	<0.5	1.5	30	0.2	<0.1	<0.1	116	2.35
151567	Rock	1.30	0.4	45.3	5.5	73	<0.1	16.5	20.5	843	4.64	2.7	0.6	<0.5	1.7	19	0.2	<0.1	<0.1	174	4.01
151568	Rock	1.31	0.3	86.7	1.5	21	<0.1	7.8	10.5	270	1.35	13.5	0.4	3.8	1.1	93	<0.1	6.3	<0.1	61	2.59
151569	Rock	1.42	25.3	80.0	3.1	17	0.2	33.1	11.0	76	1.08	24.8	0.9	2.8	1.6	201	0.2	1.6	<0.1	18	2.80
151570	Rock	1.38	5.4	122.9	3.9	42	0.1	44.2	30.7	340	3.88	9.4	32.1	2.9	1.1	191	<0.1	0.6	<0.1	156	2.53
493145	Rock	1.44	1.5	170.8	1.9	35	0.1	60.0	29.8	359	3.77	2.4	0.9	1.7	0.8	45	<0.1	0.5	<0.1	108	1.30
493146	Rock	1.80	0.5	9.8	5.0	3	<0.1	2.1	1.1	42	0.31	18.1	0.9	1.1	11.7	4	<0.1	3.1	<0.1	6	0.04
493147	Rock	1.83	4.1	88.2	1.5	23	0.3	25.3	9.4	130	1.34	142.9	2.0	3.0	2.5	16	0.1	1.9	<0.1	28	0.24
493148	Rock	1.67	4.1	26.1	1.9	36	0.2	14.7	7.9	401	1.86	8.7	0.9	3.2	1.1	99	0.6	2.7	<0.1	32	3.16
493149	Rock	1.33	4.8	32.6	2.8	40	0.3	12.8	10.0	416	2.80	15.1	0.4	4.4	0.5	40	0.4	3.4	<0.1	34	1.35
493150	Rock	1.53	5.5	51.4	2.4	72	0.5	30.4	9.7	698	3.54	3.0	0.3	1.6	0.8	117	0.3	0.7	<0.1	59	2.31
493351	Rock	2.24	0.3	394.4	1.9	27	0.3	79.4	33.5	247	5.35	0.8	0.3	1.7	0.8	26	0.3	<0.1	<0.1	32	1.65
493352	Rock	1.77	0.6	145.4	1.1	26	0.1	31.2	21.6	240	3.35	1.5	0.2	<0.5	0.3	81	<0.1	<0.1	<0.1	58	1.28
493353	Rock	1.63	1.1	177.9	1.7	47	<0.1	93.9	25.8	345	2.92	2.1	0.2	<0.5	0.7	41	0.1	<0.1	<0.1	32	1.15
493354	Rock	1.45	0.1	82.1	1.3	28	<0.1	52.5	15.4	493	2.77	1.6	<0.1	4.0	0.2	99	<0.1	0.8	<0.1	75	4.91
493355	Rock	1.17	0.3	140.2	0.9	57	<0.1	9.2	14.3	620	4.03	1.9	0.3	0.5	0.8	36	<0.1	0.8	<0.1	141	0.84
493356	Rock	1.21	2.7	60.0	9.5	25	<0.1	18.2	8.4	207	1.67	19.1	0.2	14.1	0.5	101	0.2	0.4	<0.1	21	1.42
493357	Rock	2.10	2.0	95.5	2.0	57	<0.1	33.4	20.9	581	4.75	2.4	0.5	1.9	0.5	39	0.1	0.3	<0.1	149	2.00
493358	Rock	1.57	0.7	113.7	1.5	52	<0.1	22.7	15.3	373	3.42	12.4	0.4	4.0	0.5	53	<0.1	0.8	<0.1	136	1.87
493359	Rock	1.22	0.8	55.0	4.4	55	<0.1	14.5	12.7	624	4.02	3.3	0.5	<0.5	1.2	19	0.2	0.2	<0.1	112	3.24
493360	Rock	1.35	0.4	168.6	2.7	33	0.5	15.0	17.4	341	2.96	4990	0.3	959.3	1.3	28	0.1	8.6	0.1	95	0.94
493361	Rock	1.15	1.6	183.9	4.7	41	0.4	15.7	10.9	759	3.24	15.6	0.4	15.2	1.2	16	<0.1	1.0	0.2	160	0.64
493362	Rock	1.41	0.6	77.9	3.0	39	0.3	108.6	35.1	314	4.36	44.5	0.4	21.7	0.8	52	0.1	3.5	0.5	56	1.55

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.
 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: Hen

Report Date: July 24, 2008

Page: 2 of 3 Part 2

CERTIFICATE OF ANALYSIS

VAN08007342.1

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	Ti	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	
151559	Rock	0.162	8	106	1.66	214	0.337	<20	2.49	0.124	1.67	0.1	<0.01	2.7	<0.1	<0.05	8	<0.5
151560	Rock	0.151	5	31	0.93	111	0.185	<20	2.10	0.253	0.51	0.2	<0.01	3.2	<0.1	<0.05	6	<0.5
151561	Rock	0.186	5	19	1.28	121	0.243	<20	1.75	0.179	1.09	0.3	<0.01	4.4	0.6	0.62	7	<0.5
151562	Rock	0.110	4	38	0.50	44	0.125	<20	0.78	0.072	0.29	0.3	0.01	1.3	0.1	1.20	4	1.9
151563	Rock	0.149	5	85	1.55	518	0.230	<20	2.04	0.055	1.55	0.1	<0.01	1.7	<0.1	<0.05	7	<0.5
151564	Rock	0.066	4	41	1.15	5	0.161	<20	3.53	0.004	0.01	0.1	0.01	6.1	<0.1	0.05	10	1.4
151565	Rock	0.076	3	15	0.93	54	0.116	<20	1.76	0.052	0.09	0.1	0.01	3.9	<0.1	0.59	8	0.5
151566	Rock	0.064	5	18	0.93	16	0.242	334	2.41	0.030	0.02	<0.1	<0.01	5.2	<0.1	<0.05	9	<0.5
151567	Rock	0.089	5	29	1.44	13	0.274	<20	4.12	0.027	0.02	0.2	<0.01	7.0	<0.1	<0.05	13	<0.5
151568	Rock	0.099	6	17	0.34	109	0.179	<20	2.45	0.229	0.29	0.4	<0.01	2.0	<0.1	<0.05	9	<0.5
151569	Rock	0.108	10	10	0.12	51	0.115	<20	3.46	0.294	0.06	0.2	<0.01	0.5	<0.1	0.53	7	1.9
151570	Rock	0.132	6	55	0.99	293	0.264	<20	2.78	0.221	0.81	0.2	<0.01	1.5	<0.1	1.02	7	3.6
493145	Rock	0.162	5	67	1.60	245	0.216	<20	2.04	0.313	0.98	0.1	<0.01	3.8	<0.1	1.05	5	0.5
493146	Rock	0.004	9	7	0.02	21	0.018	<20	0.11	0.047	0.05	0.9	<0.01	0.4	<0.1	<0.05	<1	<0.5
493147	Rock	0.044	6	16	0.22	68	0.068	<20	0.39	0.055	0.12	0.6	<0.01	2.3	<0.1	0.29	1	2.0
493148	Rock	0.082	7	14	0.34	52	0.077	<20	1.70	0.156	0.27	0.5	0.01	2.0	0.2	0.87	4	1.2
493149	Rock	0.060	4	7	0.42	44	0.106	<20	0.54	0.080	0.29	0.7	<0.01	2.0	0.3	1.83	2	2.3
493150	Rock	0.043	5	16	0.40	75	0.125	<20	2.51	0.160	0.24	0.3	<0.01	3.9	0.1	1.50	6	4.1
493351	Rock	0.087	3	63	0.61	52	0.065	<20	0.76	0.041	0.16	0.2	<0.01	1.4	<0.1	2.45	2	3.5
493352	Rock	0.107	3	29	1.10	146	0.122	<20	1.68	0.125	0.76	0.2	<0.01	1.7	0.2	1.14	4	1.0
493353	Rock	0.089	3	73	0.96	144	0.071	<20	1.29	0.057	0.35	<0.1	<0.01	1.6	<0.1	0.74	3	0.9
493354	Rock	0.078	1	183	1.15	177	0.155	<20	1.62	0.049	1.23	0.2	<0.01	1.0	<0.1	<0.05	5	<0.5
493355	Rock	0.142	6	15	1.36	303	0.265	<20	2.03	0.066	1.85	0.3	<0.01	1.9	<0.1	<0.05	9	<0.5
493356	Rock	0.080	3	3	0.41	220	0.063	<20	0.74	0.073	0.09	0.3	<0.01	0.7	<0.1	0.35	2	<0.5
493357	Rock	0.194	5	48	1.70	159	0.210	<20	1.73	0.086	1.33	0.2	<0.01	2.0	<0.1	1.87	7	0.6
493358	Rock	0.216	4	46	1.43	317	0.234	<20	2.10	0.108	1.35	0.1	0.02	2.6	<0.1	0.15	8	<0.5
493359	Rock	0.073	4	30	1.27	16	0.154	<20	3.55	0.007	0.01	0.2	0.02	4.7	<0.1	0.34	13	2.0
493360	Rock	0.191	4	6	0.77	105	0.130	<20	1.04	0.094	0.55	4.8	0.02	1.8	0.3	0.80	5	1.6
493361	Rock	0.084	4	11	0.99	103	0.161	<20	1.19	0.053	0.50	0.5	0.01	3.3	0.2	1.01	10	2.7
493362	Rock	0.114	3	180	1.44	209	0.123	<20	1.29	0.042	0.79	0.3	<0.01	2.2	0.2	1.42	6	<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

Project: Hen

Report Date: July 24, 2008

Page: 3 of 3

Part 1

CERTIFICATE OF ANALYSIS

VAN08007342.1

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	
493363	Rock	1.04	0.3	26.5	8.1	21	0.1	13.4	10.0	214	2.64	26.7	0.3	8.4	1.4	40	0.1	2.9	0.2	102	0.79
493364	Rock	1.71	3.5	94.6	11.1	29	0.6	11.6	7.6	425	1.74	20.3	0.6	53.0	1.5	624	0.3	1.4	0.4	49	3.88
493365	Rock	1.34	0.7	87.4	4.0	62	<0.1	13.6	13.4	789	4.29	0.9	0.5	<0.5	1.5	71	0.1	<0.1	<0.1	118	1.92
493366	Rock	1.03	0.6	36.1	4.5	57	<0.1	10.1	8.4	777	3.35	3.2	0.3	1.0	0.5	20	0.2	0.1	<0.1	92	0.83
493367	Rock	1.54	0.5	48.7	3.9	64	<0.1	11.3	14.5	743	4.27	1.6	0.4	<0.5	1.3	32	0.2	<0.1	<0.1	127	2.93
493368	Rock	1.42	4.9	50.5	7.6	73	0.2	12.0	6.0	477	3.84	10.1	0.7	<0.5	1.4	50	0.4	0.8	0.1	120	0.73
493369	Rock	1.34	1.1	84.1	2.2	69	<0.1	52.1	24.3	904	6.00	0.6	0.4	1.0	0.8	19	<0.1	<0.1	<0.1	176	0.81
493370	Rock	1.38	1.8	56.4	7.7	65	0.1	11.8	7.2	658	4.63	4.4	0.5	<0.5	1.1	12	0.4	0.6	<0.1	189	0.96
493371	Rock	1.18	0.9	42.3	4.7	53	<0.1	12.8	12.9	624	4.26	1.2	0.5	<0.5	1.5	10	0.1	<0.1	<0.1	120	3.14
493372	Rock	1.09	0.6	32.4	3.6	50	<0.1	9.1	10.5	463	3.14	1.5	0.4	<0.5	1.2	12	0.1	<0.1	<0.1	89	3.28
493373	Rock	1.20	0.7	45.3	3.9	69	<0.1	12.7	14.7	746	4.73	1.3	0.5	<0.5	1.5	24	<0.1	<0.1	<0.1	127	1.50
493487	Rock	0.99	3.2	173.0	4.8	36	0.3	7.3	13.2	287	3.49	8.1	0.3	15.3	0.5	64	0.2	0.9	0.2	82	0.93
493488	Rock	1.18	0.5	45.1	0.9	31	<0.1	19.9	16.7	425	4.84	3.4	0.2	3.6	0.6	77	<0.1	0.3	<0.1	161	1.28
493489	Rock	1.13	1.5	71.9	1.4	16	0.2	3.8	5.3	226	2.17	3.4	0.4	1.0	0.9	68	0.3	0.6	0.2	41	0.67
493490	Rock	1.25	0.6	280.0	1.0	28	0.1	7.2	11.8	274	2.34	51.4	0.2	5.3	0.3	25	<0.1	1.0	<0.1	60	0.96
493491	Rock	1.13	266.4	15.5	33.0	66	<0.1	95.8	16.8	815	3.14	81.3	<0.1	4.1	0.4	202	0.3	14.0	<0.1	86	3.16
493492	Rock	1.06	0.8	33.8	3.9	50	<0.1	21.3	17.2	402	3.44	566.4	0.3	5.0	0.7	31	<0.1	4.9	<0.1	131	0.82
493493	Rock	1.07	1.8	403.6	1.9	20	0.4	11.2	20.6	142	2.53	277.3	0.2	344.2	0.4	70	0.1	2.2	<0.1	71	2.67
493494	Rock	1.26	0.9	147.8	11.2	38	0.3	11.1	10.6	379	2.31	4.1	0.2	4.3	0.4	305	0.3	4.0	<0.1	94	2.22
493495	Rock	1.00	0.3	85.0	0.3	23	<0.1	55.2	13.1	352	1.96	4.0	0.1	3.5	0.3	21	<0.1	<0.1	<0.1	41	0.83
493496	Rock	1.03	0.7	66.8	3.1	22	<0.1	47.0	24.0	317	3.56	7.8	0.2	1.0	0.7	78	<0.1	1.5	<0.1	59	2.38
493497	Rock	1.22	0.4	132.0	1.7	45	<0.1	19.0	19.7	440	3.30	4.3	0.4	4.2	1.3	56	<0.1	0.1	<0.1	89	1.70
493498	Rock	0.90	0.6	130.8	6.6	84	0.2	24.5	12.6	766	3.70	5.1	0.3	<0.5	1.7	23	0.1	0.6	0.2	134	0.38
493499	Rock	1.09	1.7	98.9	2.0	23	0.2	19.3	12.9	173	1.74	5.0	0.6	2.1	0.3	134	0.3	0.4	<0.1	41	4.21
493500	Rock	1.31	1.4	74.4	25.0	107	0.3	28.4	17.9	372	3.41	13.7	0.2	1.8	1.0	50	0.7	2.2	<0.1	116	0.88



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: Hen

Report Date: July 24, 2008

Page: 3 of 3 Part 2

CERTIFICATE OF ANALYSIS

VAN08007342.1

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	Ti	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	0.01	0.05	1	0.5	
493363	Rock	0.123	4	10	0.37	38	0.116	<20	0.69	0.081	0.33	0.3	<0.01	1.3	0.1	0.79	4	0.9
493364	Rock	0.111	5	6	0.15	107	0.050	<20	0.95	0.247	0.16	1.9	0.02	1.5	<0.1	0.89	3	1.4
493365	Rock	0.084	5	11	1.41	31	0.131	<20	2.89	0.076	0.07	<0.1	0.01	1.5	<0.1	<0.05	10	<0.5
493366	Rock	0.071	3	13	0.99	34	0.116	<20	1.91	0.046	0.05	0.1	<0.01	3.5	<0.1	0.11	10	<0.5
493367	Rock	0.081	6	11	1.47	22	0.191	<20	2.97	0.026	0.03	0.2	<0.01	3.6	<0.1	<0.05	10	<0.5
493368	Rock	0.087	5	16	1.04	81	0.166	<20	2.26	0.033	0.14	0.3	0.08	4.6	<0.1	0.27	8	3.2
493369	Rock	0.097	3	53	2.24	18	0.184	<20	2.15	0.023	0.04	0.2	0.02	4.1	<0.1	1.85	9	<0.5
493370	Rock	0.095	5	37	1.52	20	0.195	<20	2.41	0.027	0.06	0.4	0.09	6.6	<0.1	0.11	11	1.3
493371	Rock	0.078	5	19	1.31	6	0.208	<20	3.77	0.008	0.01	0.1	0.01	5.4	<0.1	<0.05	14	<0.5
493372	Rock	0.068	4	10	0.90	10	0.152	<20	3.20	0.013	0.03	0.2	<0.01	3.5	<0.1	<0.05	11	<0.5
493373	Rock	0.088	6	13	1.36	27	0.178	<20	2.70	0.039	0.09	0.2	<0.01	3.2	<0.1	<0.05	11	<0.5
493487	Rock	0.149	3	5	0.94	141	0.086	<20	1.19	0.082	0.60	0.2	<0.01	2.2	0.3	1.29	6	1.1
493488	Rock	0.109	4	46	1.39	140	0.183	<20	2.41	0.129	1.09	0.3	<0.01	3.2	0.4	1.35	11	<0.5
493489	Rock	0.096	5	5	0.29	36	0.072	<20	0.72	0.109	0.17	0.2	0.01	1.1	<0.1	1.04	4	1.0
493490	Rock	0.093	2	9	0.40	50	0.139	<20	1.00	0.128	0.25	0.3	<0.01	1.5	<0.1	0.70	4	0.8
493491	Rock	0.086	6	120	2.40	47	0.013	<20	1.16	0.027	0.23	0.1	0.03	10.1	0.1	<0.05	4	0.6
493492	Rock	0.122	4	28	1.36	316	0.191	<20	1.72	0.085	0.95	1.7	0.02	4.2	0.4	0.55	9	1.1
493493	Rock	0.099	3	3	0.22	27	0.091	<20	3.30	0.322	0.27	1.5	0.03	2.4	<0.1	1.02	9	<0.5
493494	Rock	0.138	5	22	0.93	141	0.139	<20	2.16	0.457	0.59	0.6	0.03	3.2	<0.1	<0.05	6	<0.5
493495	Rock	0.109	2	59	1.04	57	0.070	<20	1.18	0.079	0.12	0.2	0.02	2.2	<0.1	0.22	3	0.9
493496	Rock	0.100	4	31	1.08	135	0.106	<20	0.89	0.104	0.41	0.3	<0.01	2.3	<0.1	1.45	3	<0.5
493497	Rock	0.167	4	42	1.15	143	0.145	<20	1.31	0.036	1.12	0.2	<0.01	1.3	<0.1	<0.05	4	<0.5
493498	Rock	0.122	8	52	1.71	90	0.076	<20	2.23	0.025	0.07	0.2	0.03	7.1	<0.1	<0.05	11	0.7
493499	Rock	0.094	2	13	0.17	90	0.127	<20	1.74	0.173	0.24	<0.1	<0.01	1.1	<0.1	0.57	4	3.0
493500	Rock	0.133	6	65	0.76	160	0.206	<20	1.46	0.113	0.94	0.2	<0.01	1.4	0.4	0.77	6	0.7

Client: Happy Creek Minerals Ltd.

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

Project: Hen

Report Date: July 24, 2008

www.acmelab.com

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

VAN08007342.1

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	
Pulp Duplicates																					
151568	Rock	1.31	0.3	86.7	1.5	21	<0.1	7.8	10.5	270	1.35	13.5	0.4	3.8	1.1	93	<0.1	6.3	<0.1	61	2.59
REP 151568	QC		0.4	84.5	1.5	21	<0.1	8.5	10.4	266	1.33	13.6	0.4	4.2	1.1	95	<0.1	6.2	<0.1	60	2.55
493148	Rock	1.67	4.1	26.1	1.9	36	0.2	14.7	7.9	401	1.86	8.7	0.9	3.2	1.1	99	0.6	2.7	<0.1	32	3.16
REP 493148	QC		4.5	28.5	2.0	37	0.2	15.2	8.0	405	1.83	9.0	1.0	1.3	1.2	107	0.6	2.8	<0.1	32	3.17
Reference Materials																					
STD DS7	Standard		22.6	117.6	78.2	394	0.7	57.8	9.6	622	2.33	50.2	5.3	56.0	4.4	73	5.9	5.2	4.9	88	0.92
STD DS7	Standard		22.5	117.2	78.6	415	0.9	60.6	10.2	640	2.44	53.2	5.7	50.5	4.5	76	6.1	5.1	5.0	86	0.96
STD DS7	Standard		18.8	101.6	63.0	392	0.8	50.2	6.8	563	2.20	43.1	3.8	52.3	3.3	67	5.3	3.7	3.8	76	0.88
STD DS7	Standard		19.6	106.5	70.4	391	1.2	53.4	9.1	604	2.20	51.5	4.5	50.8	3.8	60	5.9	4.4	4.5	78	0.86
STD DS7	Standard		20.2	109.6	68.0	391	0.8	55.3	8.9	590	2.17	50.0	4.9	53.2	3.9	60	5.7	4.6	4.3	81	0.83
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	0.8	8.5	8.5	53	<0.1	5.3	4.8	560	2.01	0.7	2.9	<0.5	4.3	64	<0.1	<0.1	0.1	42	0.55
G1	Prep Blank	<0.01	1.0	6.9	5.6	54	<0.1	6.3	5.0	605	2.14	1.1	3.5	0.6	4.7	66	<0.1	<0.1	0.1	45	0.56



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:

Hen

Report Date:

July 24, 2008

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN08007342.1

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																			
151568	Rock	0.099	6	17	0.34	109	0.179	<20	2.45	0.229	0.29	0.4	<0.01	2.0	<0.1	<0.05	9	<0.5	
REP 151568	QC	0.092	6	22	0.32	109	0.173	<20	2.42	0.216	0.29	0.4	<0.01	2.2	<0.1	<0.05	9	<0.5	
493148	Rock	0.082	7	14	0.34	52	0.077	<20	1.70	0.156	0.27	0.5	0.01	2.0	0.2	0.87	4	1.2	
REP 493148	QC	0.079	7	14	0.33	54	0.077	<20	1.77	0.153	0.28	0.6	0.02	2.0	0.2	0.87	4	1.5	
Reference Materials																			
STD DS7	Standard	0.071	12	195	1.02	388	0.131	34	0.97	0.083	0.44	3.4	0.18	2.3	4.1	0.18	5	3.5	
STD DS7	Standard	0.076	12	204	1.07	397	0.134	39	1.01	0.084	0.46	3.5	0.20	2.3	4.2	0.19	5	3.6	
STD DS7	Standard	0.065	10	166	0.99	391	0.104	35	0.94	0.084	0.43	3.5	0.20	1.7	4.1	0.18	5	3.4	
STD DS7	Standard	0.074	10	164	0.99	375	0.110	33	0.91	0.069	0.43	3.5	0.18	2.2	4.4	0.19	4	4.4	
STD DS7	Standard	0.075	10	160	0.97	363	0.102	36	0.88	0.068	0.42	3.2	0.18	2.0	4.0	0.19	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	
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	0.078	7	12	0.62	229	0.154	<20	1.03	0.091	0.51	0.2	<0.01	2.0	0.3	<0.05	5	<0.5	
G1	Prep Blank	0.083	8	14	0.64	249	0.163	<20	1.06	0.089	0.56	<0.1	<0.01	2.2	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 15, 2008
 Report Date: October 22, 2008
 Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN08010222.1

CLIENT JOB INFORMATION

Project: Hen
 Shipment ID:
 P.O. Number
 Number of Samples: 8

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
 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.

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

CC: Bob Lane
 D. Ridley
 Mark Ralph

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	8	Crush, split and pulverize rock to 200 mesh		
1DX	8	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed
DIS-RJT	8	Warehouse handling / Disposition of reject		

ADDITIONAL COMMENTS



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: Hen

Report Date: October 22, 2008

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN08010222.1

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	
151599	Rock	2.04	0.9	57.1	1.4	31	<0.1	58.0	19.9	311	1.96	7.0	0.3	8.3	0.9	44	0.1	<0.1	<0.1	49	1.60
151600	Rock	1.79	0.1	220.6	4.0	27	0.2	73.3	35.6	298	2.40	4.3	0.3	3.6	0.9	51	0.2	0.3	<0.1	47	1.47
708651	Rock	1.18	0.2	96.9	1.5	29	<0.1	15.0	11.9	388	2.10	0.5	0.3	0.7	0.6	119	<0.1	<0.1	<0.1	56	2.75
708652	Rock	1.44	0.5	47.2	6.2	54	0.3	18.2	16.1	785	2.80	43.3	0.4	23.1	1.7	133	0.2	2.8	<0.1	97	4.97
708653	Rock	1.12	0.8	46.3	2.4	22	0.1	36.7	8.8	169	1.40	7.8	0.5	33.1	1.7	47	<0.1	0.3	<0.1	73	1.00
853904	Rock	1.13	<0.1	108.7	56.4	139	0.4	49.6	20.5	480	1.69	29.0	<0.1	1.0	0.2	38	0.8	0.6	<0.1	48	1.27
853905	Rock	1.10	0.2	62.1	1.5	59	<0.1	11.3	13.7	554	3.04	<0.5	0.3	0.8	0.6	132	0.2	<0.1	<0.1	85	3.51
853906	Rock	1.33	0.4	47.1	1.2	49	<0.1	15.1	13.7	397	3.17	3.5	0.6	1.1	2.5	91	<0.1	1.1	<0.1	119	1.52



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:

Hen

Report Date:

October 22, 2008

Page:

2 of 2

Part 2

CERTIFICATE OF ANALYSIS

VAN08010222.1

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	
151599	Rock	0.072	4	77	1.09	105	0.104	<20	1.42	0.116	0.23	<0.1	<0.01	3.3	<0.1	0.07	4	<0.5
151600	Rock	0.096	4	57	0.54	55	0.122	<20	1.27	0.076	0.15	0.1	<0.01	1.6	<0.1	0.68	3	0.6
708651	Rock	0.181	4	55	0.96	290	0.109	<20	1.77	0.181	0.61	<0.1	<0.01	2.4	0.1	<0.05	5	<0.5
708652	Rock	0.124	8	21	0.96	467	0.287	24	1.66	0.107	0.91	0.3	<0.01	3.9	0.3	0.37	5	1.1
708653	Rock	0.112	7	108	0.69	374	0.140	<20	1.45	0.110	0.45	0.4	<0.01	1.4	<0.1	<0.05	4	<0.5
853904	Rock	0.074	1	92	0.99	54	0.075	<20	1.61	0.100	0.15	<0.1	<0.01	3.0	<0.1	0.06	4	<0.5
853905	Rock	0.117	2	7	0.86	424	0.170	<20	2.32	0.157	0.72	<0.1	<0.01	2.8	0.1	<0.05	5	<0.5
853906	Rock	0.158	14	20	1.06	386	0.393	<20	2.49	0.203	1.18	<0.1	<0.01	3.1	0.2	<0.05	8	<0.5

Client: Happy Creek Minerals Ltd.

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

Project: Hen

Report Date: October 22, 2008

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

VAN08010222.1

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	
Reference Materials																					
STD DS7	Standard	19.6	96.8	70.5	392	0.8	55.9	8.6	593	2.27	46.0	4.1	53.3	3.8	69	5.8	4.4	4.1	73	0.89	
STD DS7	Standard	21.0	96.8	70.1	395	0.8	53.9	8.6	614	2.31	46.3	4.3	55.3	3.7	68	6.2	4.6	4.3	74	0.89	
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	<0.1	1.5	2.2	42	<0.1	3.6	3.9	523	1.87	<0.5	1.3	0.8	3.1	50	<0.1	<0.1	<0.1	35	0.46

QUALITY CONTROL REPORT

VAN08010222.1

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	10	173	1.00	397	0.098	33	0.94	0.082	0.43	3.4	0.20	1.8	4.0	0.18	4	3.4
STD DS7	Standard	0.071	10	177	1.01	398	0.097	32	0.94	0.083	0.43	3.5	0.19	1.8	4.0	0.19	4	3.6
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	0.070	5	7	0.57	220	0.115	<20	0.91	0.068	0.52	<0.1	<0.01	1.5	0.4	<0.05	4	<0.5

APPENDIX I
GEOPHYSICAL SURVEY REPORT

ALLNORTH CONSULTANTS LIMITED

LOGISTICS REPORT
FOR
HAPPY CREEK MINERALS LTD.

3D INDUCED POLARIZATION AND MAGNETIC SURVEYS
ON THE
HEN PROPERTY

100 Mile House, British Columbia, Canada

52.01° N 120.76° W (WGS84)

Mining Zone: Cariboo / Clinton

NTS map sheet: 093A02

BCGS TRIM map sheet: 093A007

SURVEY CONDUCTED BY
SJ GEOPHYSICS LTD.
JUNE 2008

REPORT WRITTEN BY
KERRY KO, JOHN LINDNER
S.J.V. CONSULTANTS LTD.
SEPTEMBER 2008

TABLE OF CONTENTS

1. Introduction.....	1
2. Location and line information.....	1
3. Field work and instrumentation.....	2
3.1. Field logistics.....	2
3.2. Survey parameters and instrumentation.....	4
4. Geophysical techniques.....	5
4.1. IP method.....	5
4.2. 3D IP method.....	5
4.3. Magnetic survey method.....	6
Appendix A: Statement of qualifications (Kerry Ko).....	7
Appendix B: Statement of qualifications (John Lindner).....	8
Appendix C: Survey summary tables.....	9
3D IP.....	9
Magnetic.....	9
Appendix D: Instrument specifications.....	11
SJ-24 full waveform digital IP receiver.....	11
GDD Tx II IP Transmitter.....	11
GEMS Systems GSM-19 Magnetometer / Gradiometer.....	11

LIST OF FIGURES

Figure 1: Regional map of central British Columbia.....	2
Figure 2: Location map of the Hen survey grid near 100 Mile House, BC.....	3

1. Introduction

Three-dimensional induced polarization (3D IP) and Magnetic surveys were conducted on the Hen property for Happy Creek Mineral Ltd. The ground geophysical program, totaling 15.75km of 3D IP and 26km of mag, was surveyed by SJ Geophysics Ltd. from June 22 to 29, 2008. The property is located 57km northeast of 100 Mile House, British Columbia, in the south Cariboo region of central BC. Initial data processing and some quality control were performed on site by the field crew. The final QC and inversion were completed by S.J.V. Consultants Ltd.

The Hen property has been extensively surveyed over the past 20 years with VLF-EM, geochemistry and drilling. Recent geochemical sampling suggests potential for a bulk tonnage copper/gold target. The 2008 3D IP survey was designed to determine the extent of the target in advance of potential drilling.

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

2. Location and line information

The Hen property is located 57 km northeast of 100 Mile House, British Columbia (Figure 1). The property is accessed from Highway 97 at 100 Mile House via the Canim-Hendrix road, approximately 2 kilometres north of town, to a bridge over Eagle Creek, and 27 kilometers along the Hendrix Lake (6000) road to the 6300 road. The 6300 road provides good access to the central and eastern portion of the property and showings. New road access to the western side of the property, where the 3D IP survey was conducted, leaves the 6000 road near the 15km mark.

The survey grid covered an area approximately 2.8 by 2.3km in size. The 16 east-west trending cross lines were spaced 200m apart and labeled L1600N to L4400N (see Figure 2). The lines varied in length from 0.7 to 2.1km with stations marked from 1300E to 3600E. Stations were marked at 50m intervals.

Gentle elevation changes were found on the grid with topographic relief of approximately 160m. The area is covered by dense mature stands of spruce, balsam, cedar, and pine with abundant ground cover including alder, willow, devil's club and buck brush. Several logging clear cuts occur in the area and all but the most recent have been replanted with varying degrees

of success.

The lines were put it by a line cutting crew contracted by Happy Creek Minerals Ltd. The SJ Geophysics Ltd. crew recorded locations using hand-held GPS units and inclinometer on all lines. The accuracy of the GPS measurements was $\pm 5\text{m}$ for all readings. All locations were defined in the UTM, Zone 10 projection with a datum of WGS84.

3. Field work and instrumentation

3.1. Field logistics

The SJ Geophysics Ltd. crew consisted of between 5 and 6 SJ Geophysics Ltd. employees during any one time of the survey. The initial crew consisted of Jay Watt (operator), Rene Poulin (logistics), Alexandre Jego (student geophysicist), William James, Dustin Walcer and Ben Witmer. Vernon Prince mobilized in when Jay and Dustin went on break. Crew meals and accommodations were provided by the client at Reynolds Resort on the Canim Hendrix Lake Road.

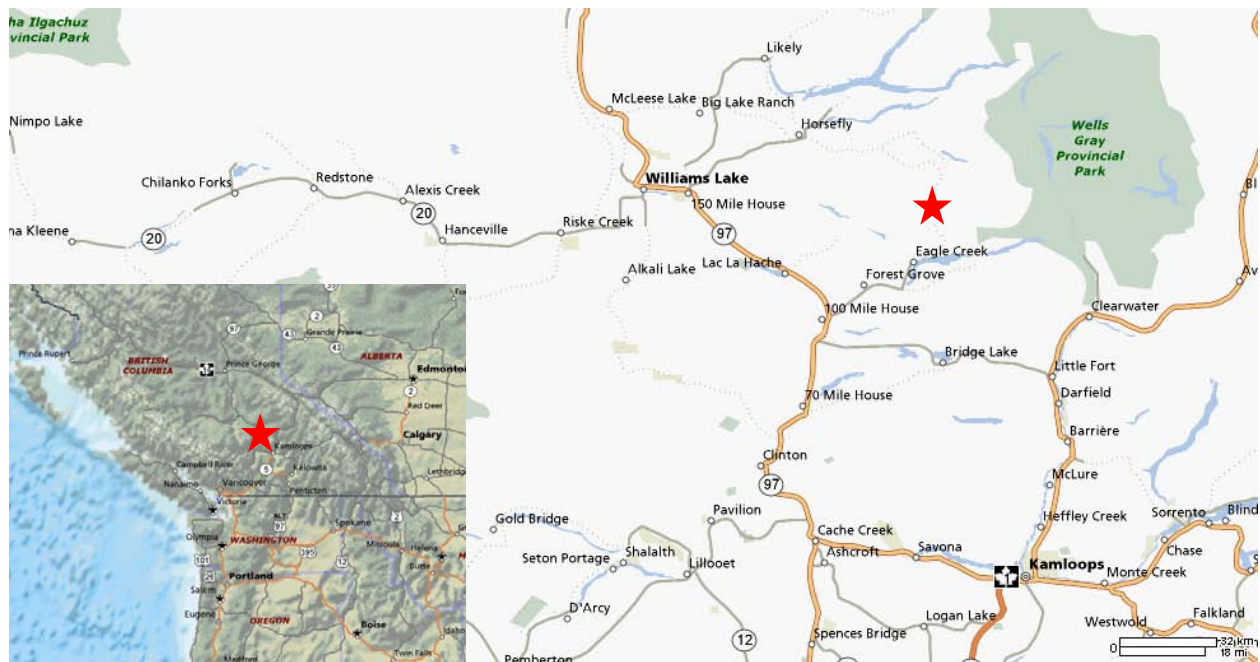


Figure 1: Regional map of central British Columbia.

The red star shows the location of the Hen property near 100 Mile House. (Base map from www.mapquest.com)

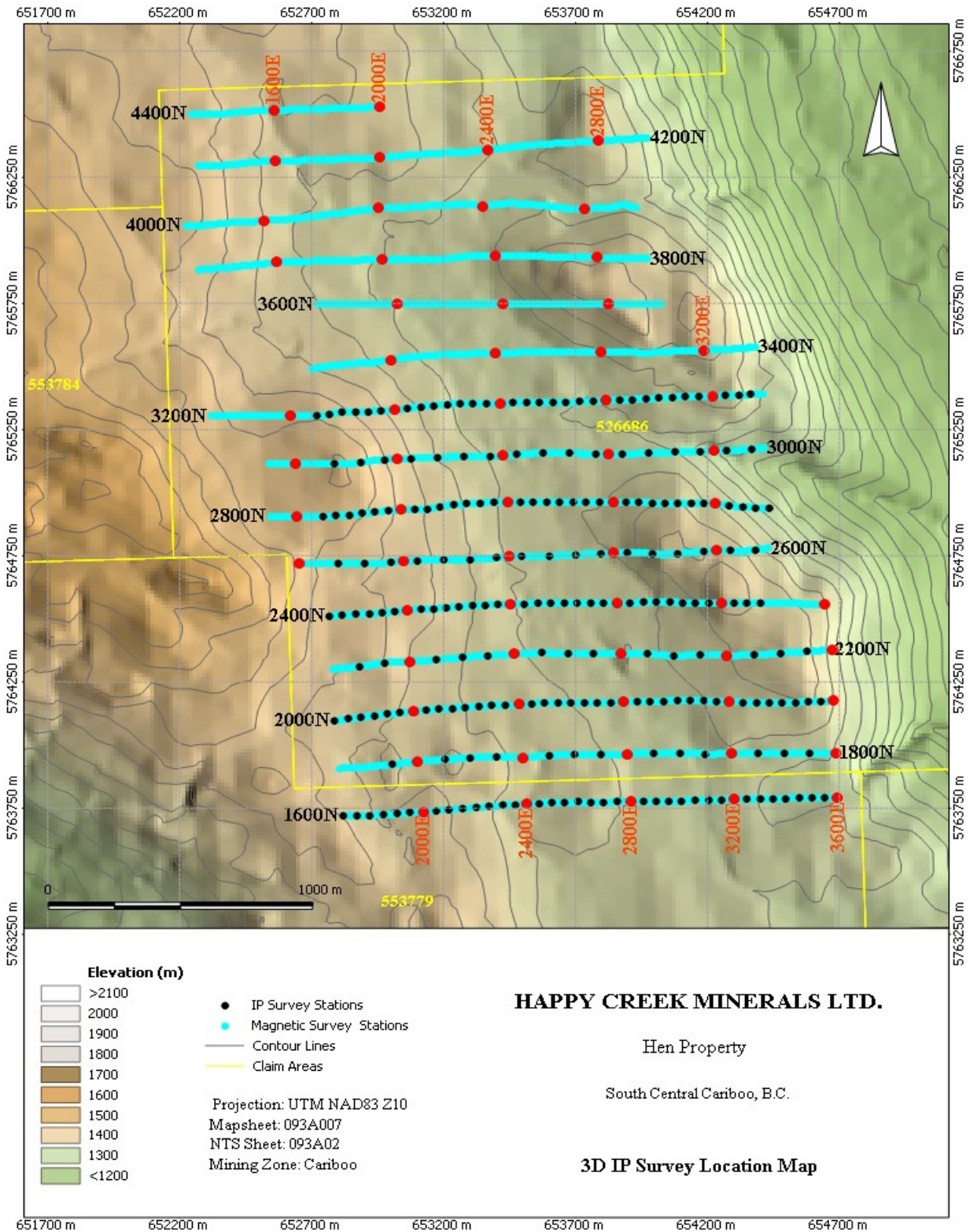


Figure 2: Location map of the Hen survey grid near 100 Mile House, BC.

Jay and Alexandre explored the site with the client on June 21, 2008, while the crew completed work on a site nearby. Magnetometer measurements began on the Hen grid on June 22. IP measurements began on the 23rd with crew working from south to north. All 16 lines from L1600N to L4400N were surveyed with magnetometer but only the 9 southern lines (L1600N to L3000N) were surveyed with 3D IP (at the request of Happy Creek Minerals Ltd.). All magnetometer and 3D IP readings were completed by June 29. The crew demobilized the following day.

Appendix C summarizes the field production on each grid for the duration of the survey.

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. One remote site was used for the entire survey and was located, in equivalent local coordinates, at approximately station 500E on L2300N.

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.

Appendix D summarizes the specifications of the instruments used in the field.

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, P.Phys., M.Sc., B.Sc.

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

Appendix A: Statement of qualifications (Kerry Ko)

I, Kerry Ko, of the city of Vancouver, British Columbia, hereby certify that:

1. I am a third year geological engineering student in the University of British Columbia.
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 _____

Kerry Ko

Summer student, S.J.V. Consultants 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)	Line type	Rx survey date(s)
1600N	1700E	3600E	1900	Tx	
1800N	1900E	3600E	1700	Rx	June 23, 2008
2000N	1700E	3600E	1900	Tx	
2200N	1800E	3600E	1800	Rx	June 25
2400N	1700E	3600E	1900	Tx	
2600N	1750E	3350E	1600	Rx	June 27
2800N	1700E	3400E	1700	Tx	
3000N	1750E	3350E	1600	Rx	June 28
3200N	1700E	3350E	1650	Tx	

Total linear meters = 15750

Magnetic

Line	Start station	End station	Survey length (m)	Survey date(s)
1600N	1700E	3600E	1900	June 22, 2008
1800N	1700E	3600E	1900	Jun 22
2000N	1700E	3600E	1900	Jun 22
2200N	1700E	3600E	1900	Jun 22
2400N	1700E	3600E	1900	Jun 22
2600N	1600E	3400E	1800	Jun 22
2800N	1500E	3400E	1900	Jun 22
3000N	1500E	3400E	1900	Jun 22, 29
3200N	1300E	3400E	2100	Jun 24
3400N	1700E	3400E	1700	Jun 24
3600N	1700E	3000E	1300	Jun 29
3800N	1300E	3000E	1700	Jun 26
4000N	1300E	3000E	1700	Jun 28, 29

4200N	1300E	3000E	1700	Jun 28 , 29
4400N	1300E	2000E	700	Jun 28

Total linear meters = 26000

Appendix D: Instrument specifications

SJ-24 full waveform digital IP receiver

Technical:

Input impedance:	10 M Ω
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 $R_s = 0$)
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 μ V – 10 V (24 bit) Resolution: 1 μ V Accuracy: typically <1.0%
Chargeability:	Resolution: 1 μ V/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

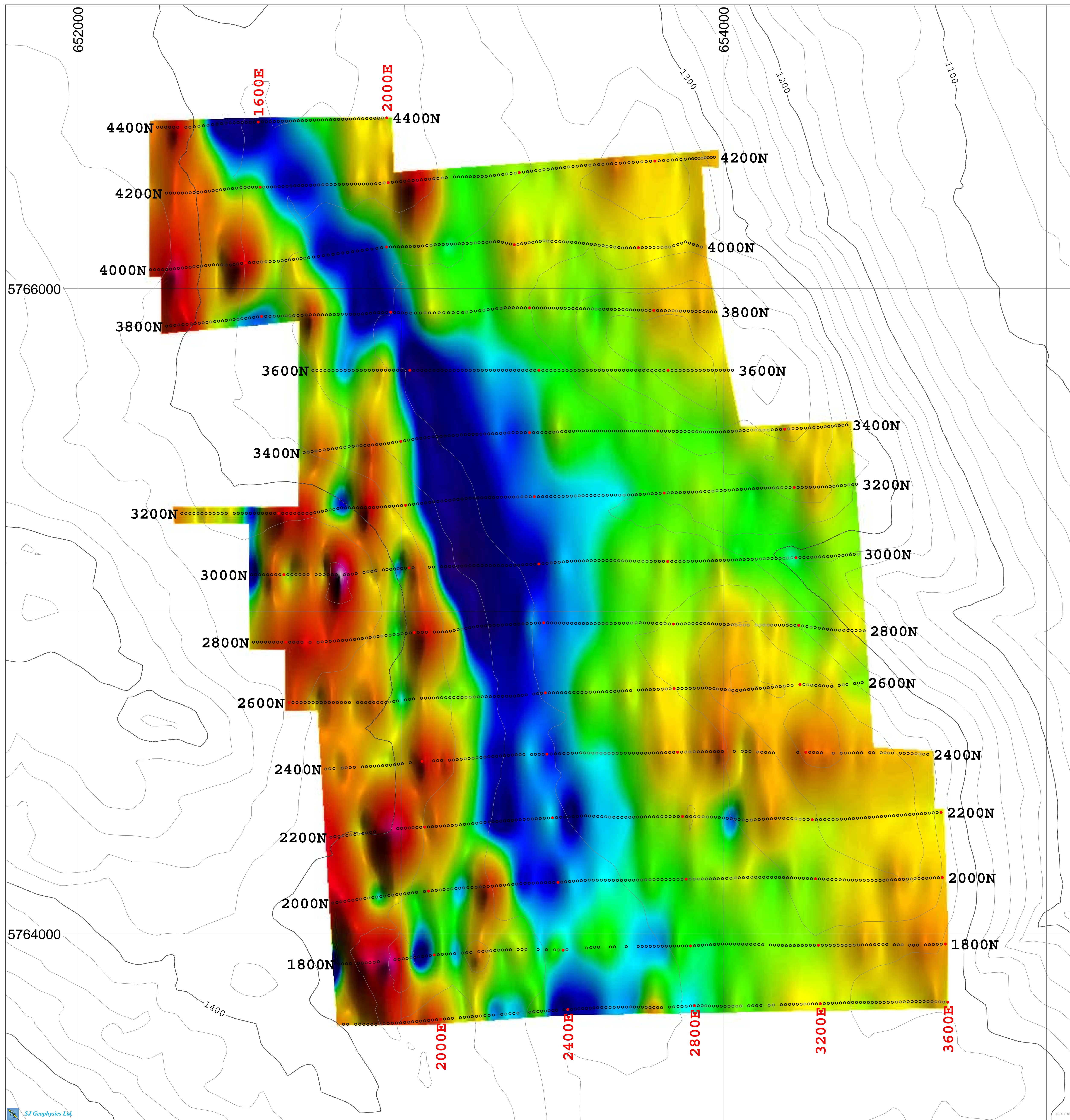
GDD Tx II IP Transmitter

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

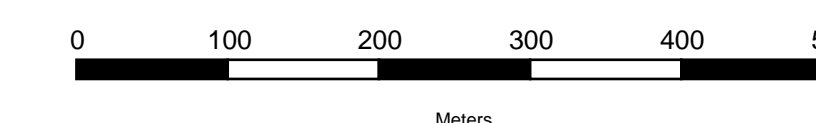
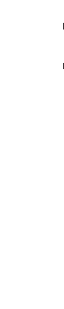
Resolution:	0.01 nT (magnetic field and gradient)
Accuracy:	0.2 nT over operating range
Gradient tolerance:	Up to 5000 nT/m

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)



Magnetic Total Field Intensity (nT)

- > 57400
- 56700 – 57400
- 56300 – 56700
- 56050 – 56300
- 55800 – 56050
- 55600 – 55800
- 55550 – 55600
- 55500 – 55550
- 55450 – 55500
- 55400 – 55450
- 55350 – 55400
- < 55350



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: 93a007
NTS Sheet Number: 093A02
Cariboo Mining Division

Projection:UTM WGS84 Z10

Legend

- Survey Stations
- Contour Lines (m)

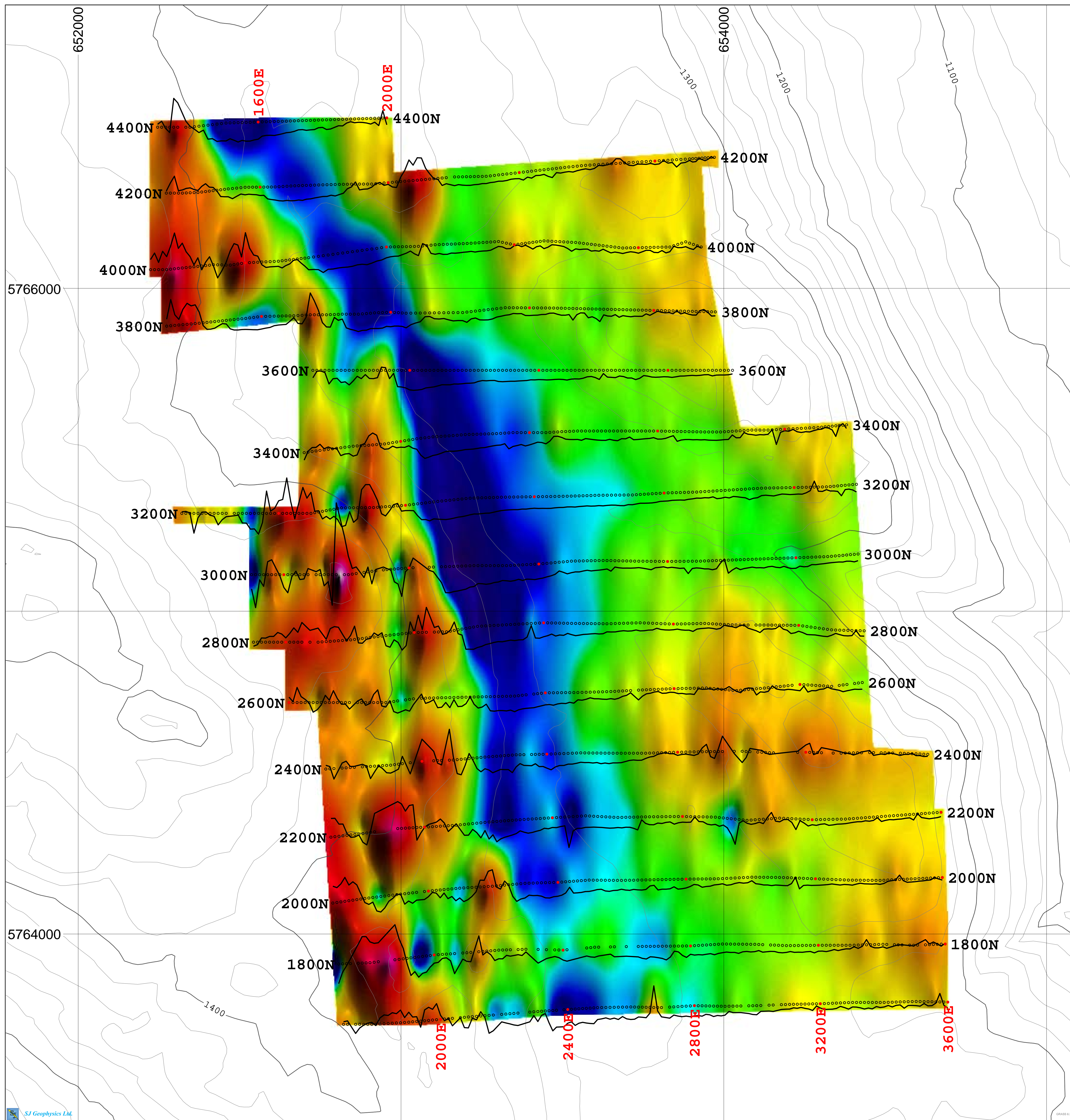
**HAPPY CREEK
MINERALS LTD.**

Hen Property
British Columbia

GROUND MAGNETIC SURVEY

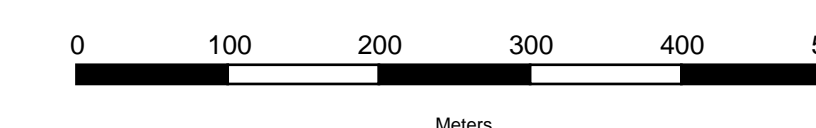
Magnetic Total Field Intensity (nT)

False Color Contour Map



Magnetic Total Field Intensity (nT)

- > 57400
- 56700 – 57400
- 56300 – 56700
- 56050 – 56300
- 55800 – 56050
- 55600 – 55800
- 55550 – 55600
- 55500 – 55550
- 55450 – 55500
- 55400 – 55450
- 55350 – 55400
- < 55350



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: 93a007
NTS Sheet Number: 093A02
Cariboo Mining Division

Projection:UTM WGS84 Z10

Legend

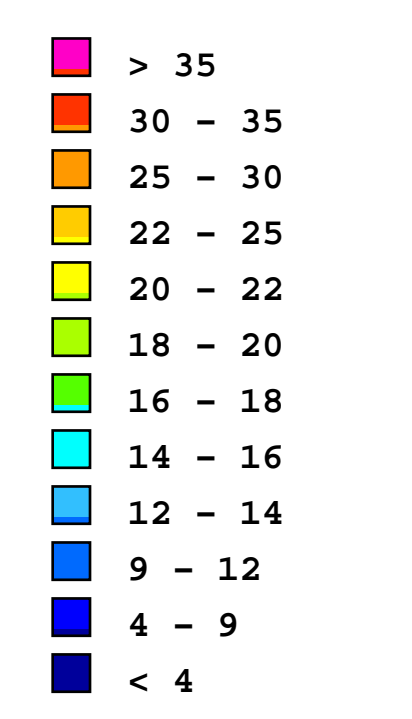
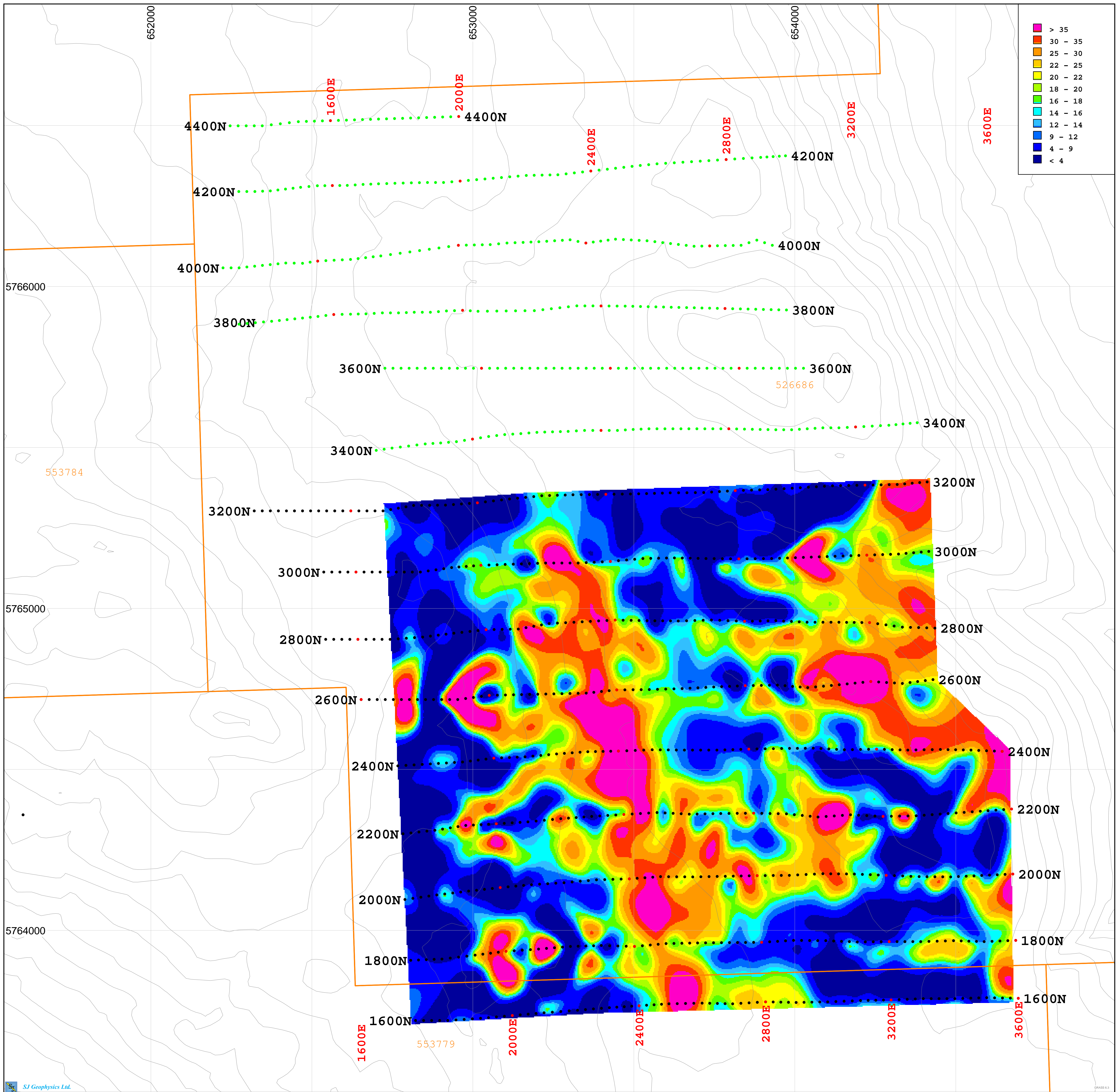
- Survey Stations
- Stacked Profiles
- Contour Lines (m)

**HAPPY CREEK
MINERALS LTD.**

Hen Property
British Columbia

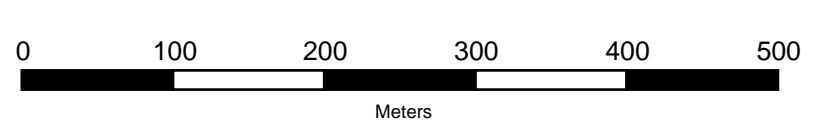
**GROUND MAGNETIC SURVEY &
STACKED PROFILES**

Magnetic Total Field Intensity (nT)
False Color Contour Map



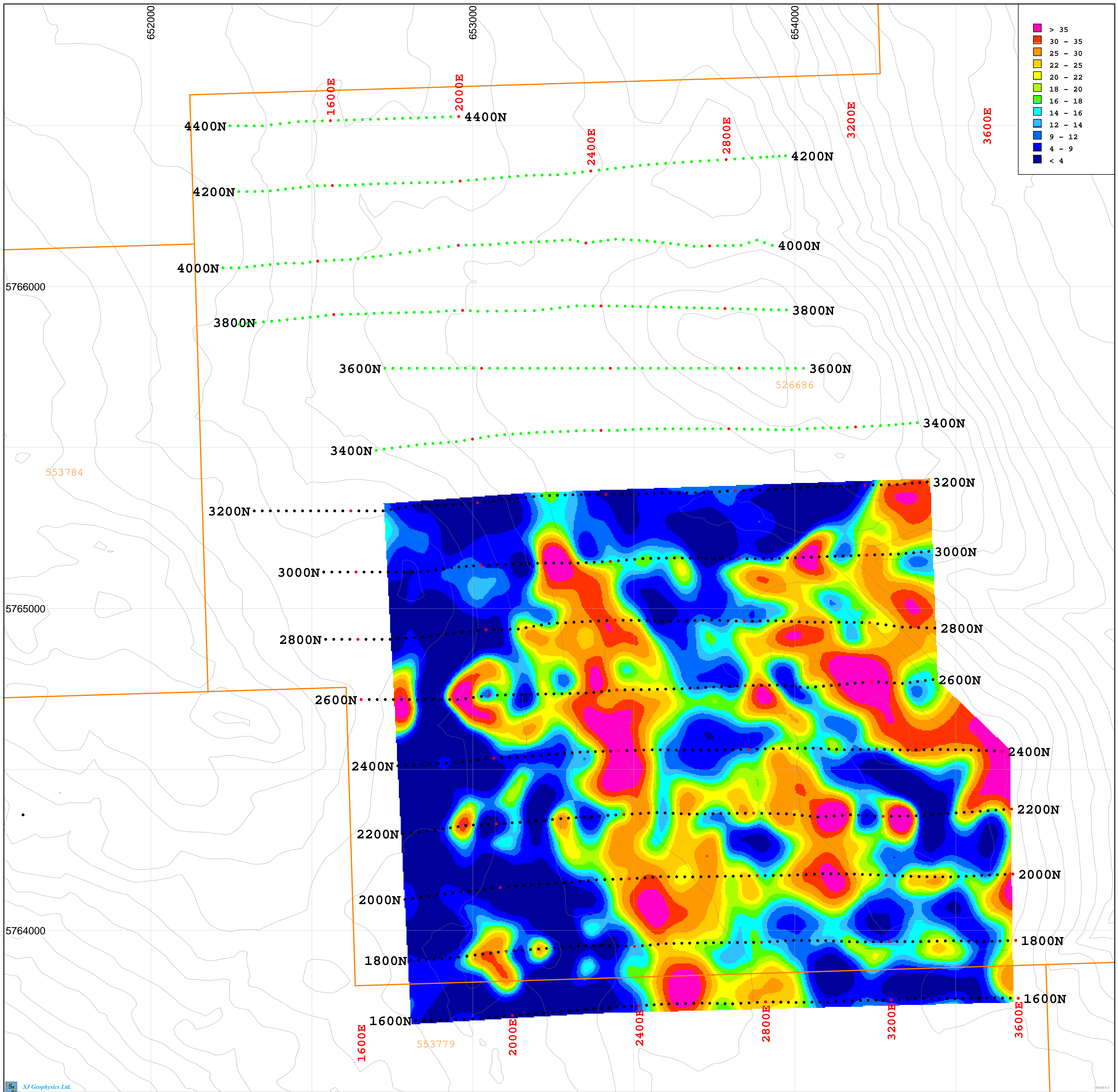
Survey Information
 3D IP Array : N=15,16 a=100m,200m
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend**
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



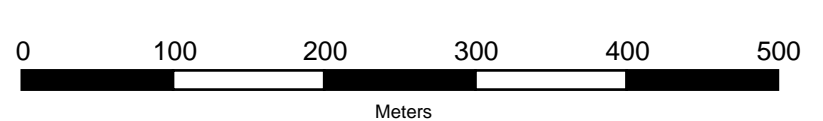
3D Inversion Model
 Interpreted Chargeability (ms)
 False Color Contour Map
 Depth 25m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



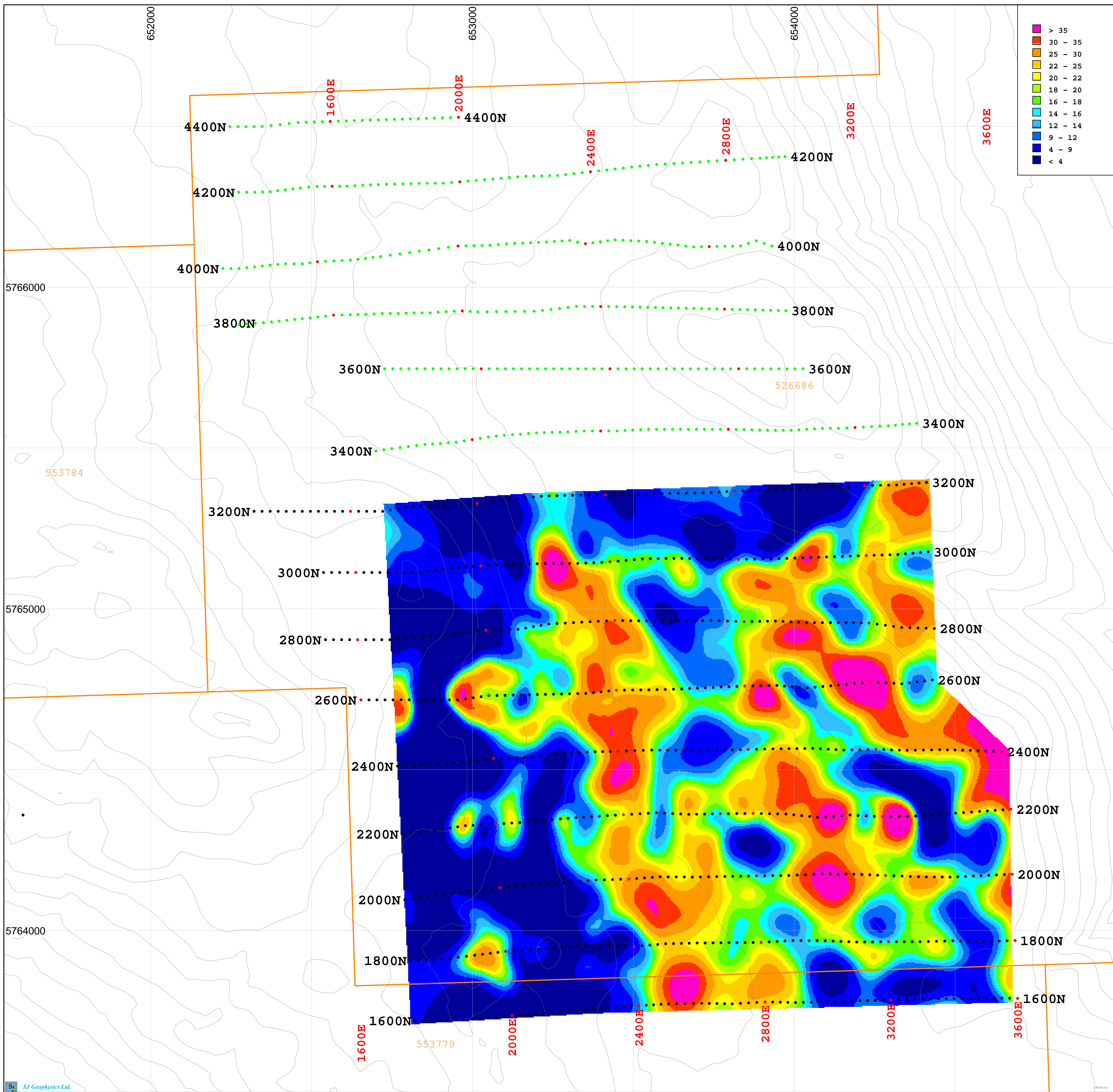
Survey Information
 3D IP Array : N=15,16 a=100m,200m
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend**
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



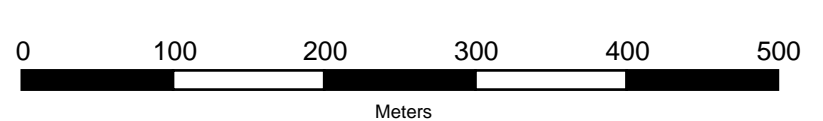
3D Inversion Model
 Interpreted Chargeability (ms)
 False Color Contour Map
 Depth 50m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



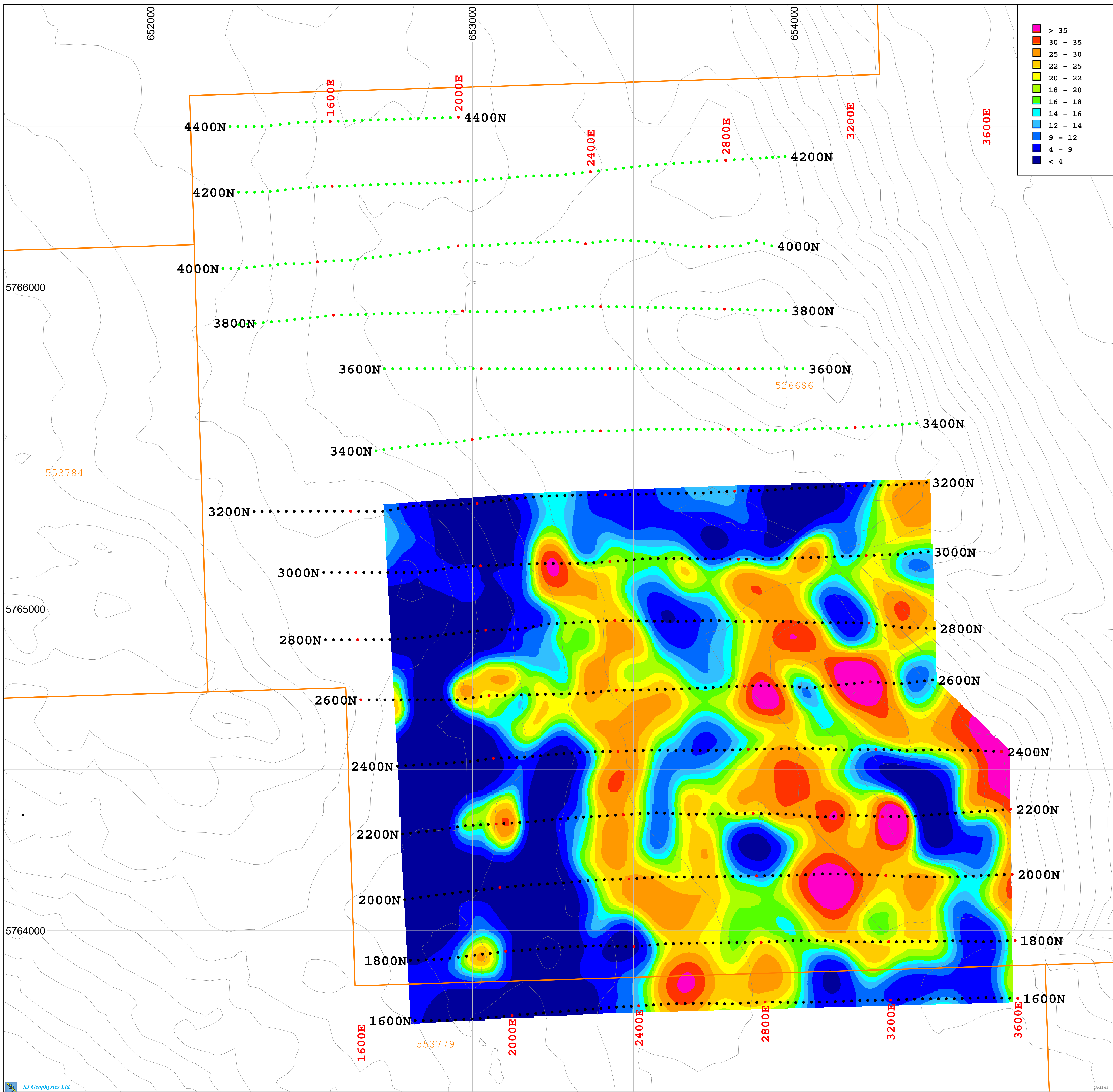
Survey Information
 3D IP Array : N=15,16 a=100m,200m
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend**
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



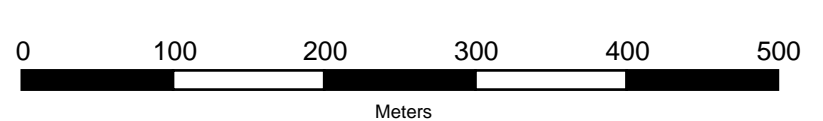
3D Inversion Model
 Interpreted Chargeability (ms)
 False Color Contour Map
 Depth 75m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



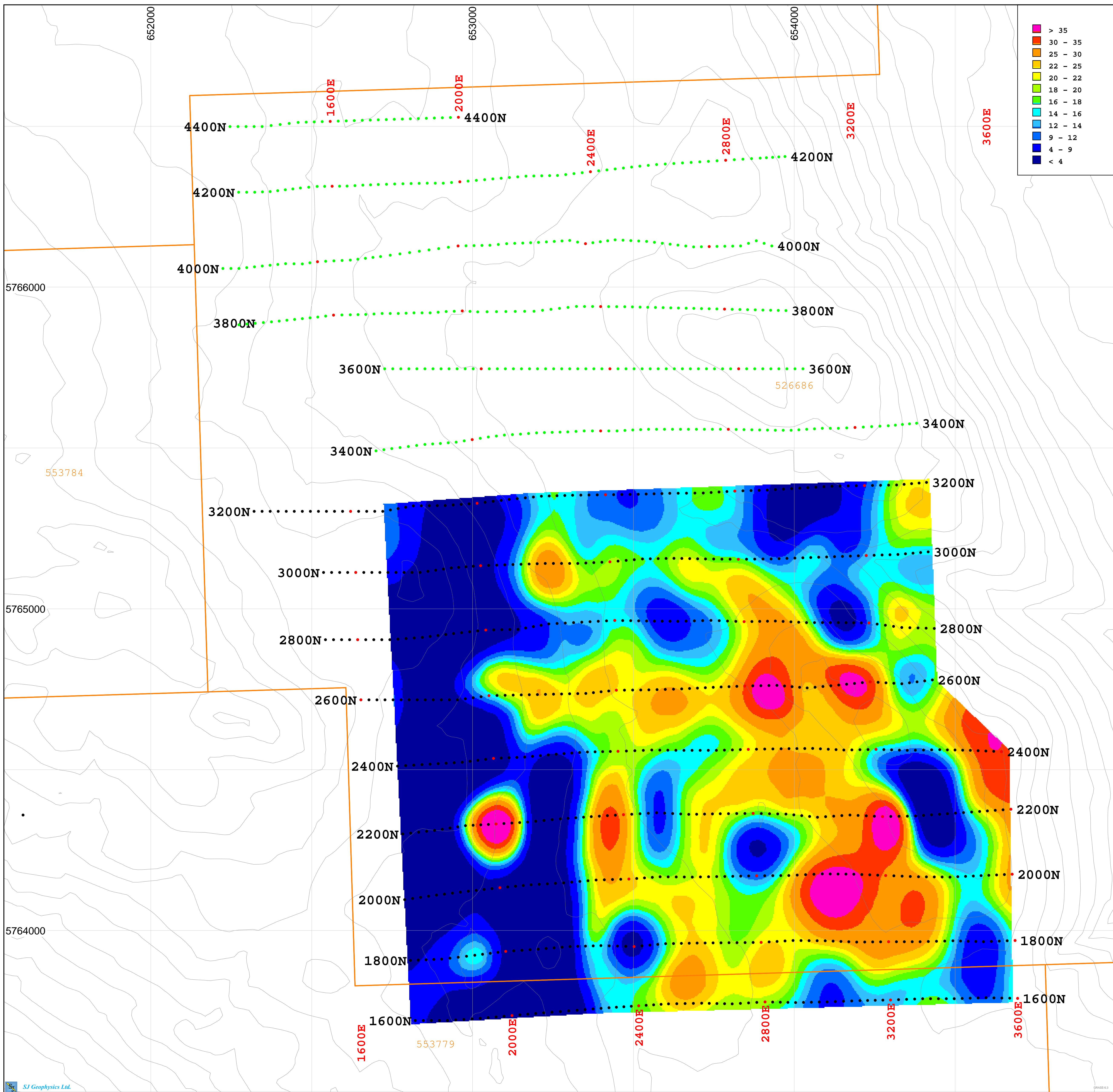
Survey Information
 3D IP Array : N=15,16 a=100m,200m
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend**
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



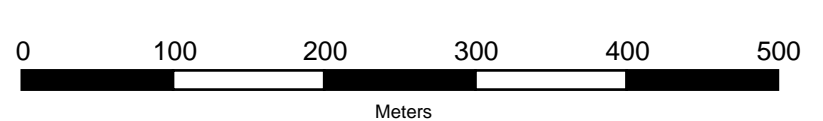
3D Inversion Model
 Interpreted Chargeability (ms)
 False Color Contour Map
 Depth 100m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



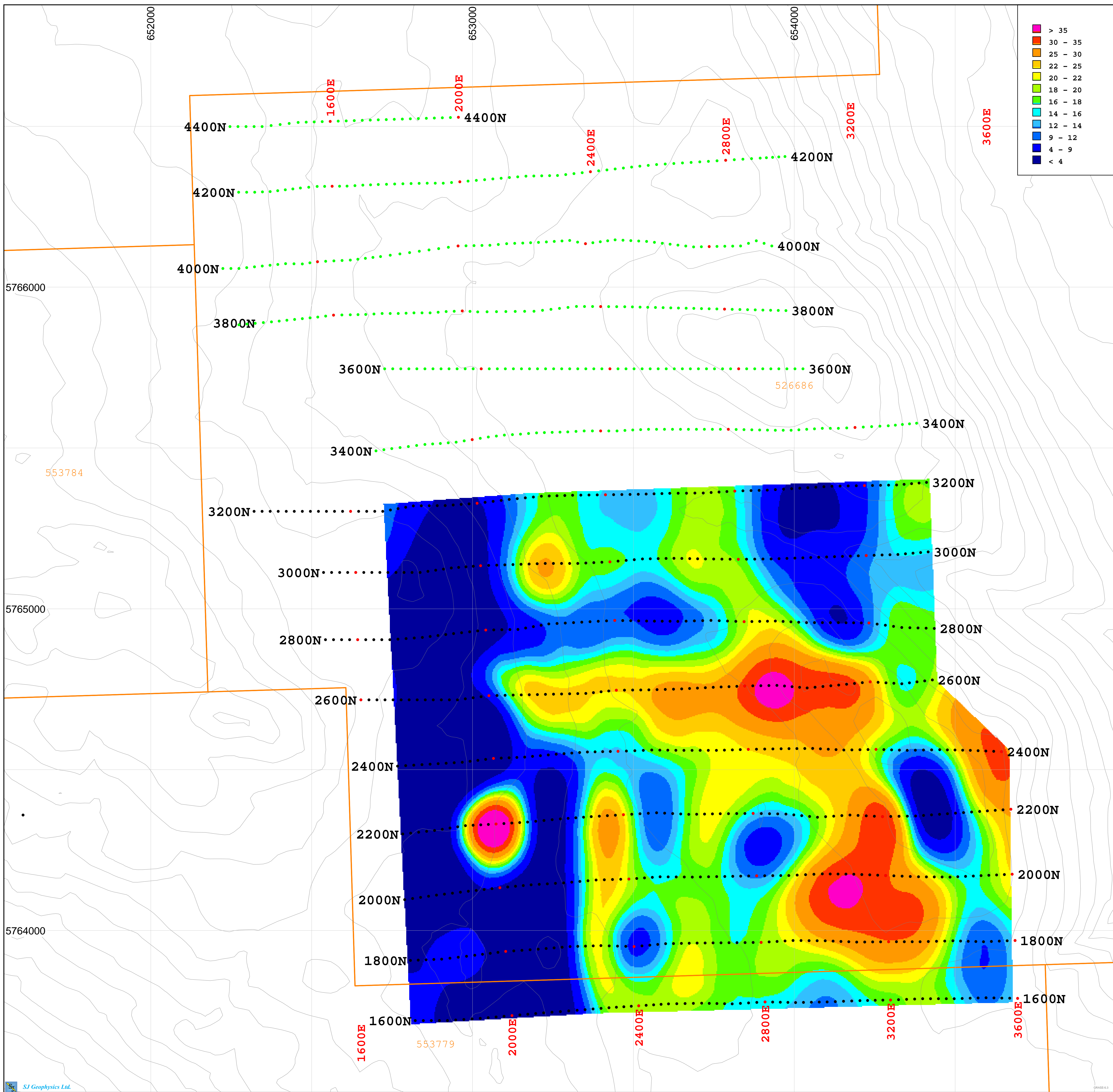
Survey Information
 3D IP Array : N=15,16 a=100m,200m
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend**
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



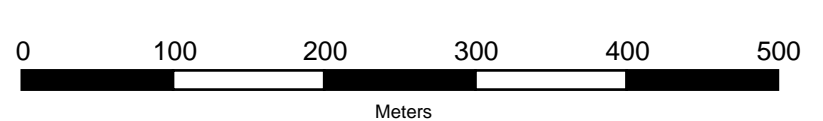
3D Inversion Model
 Interpreted Chargeability (ms)
 False Color Contour Map
 Depth 150m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



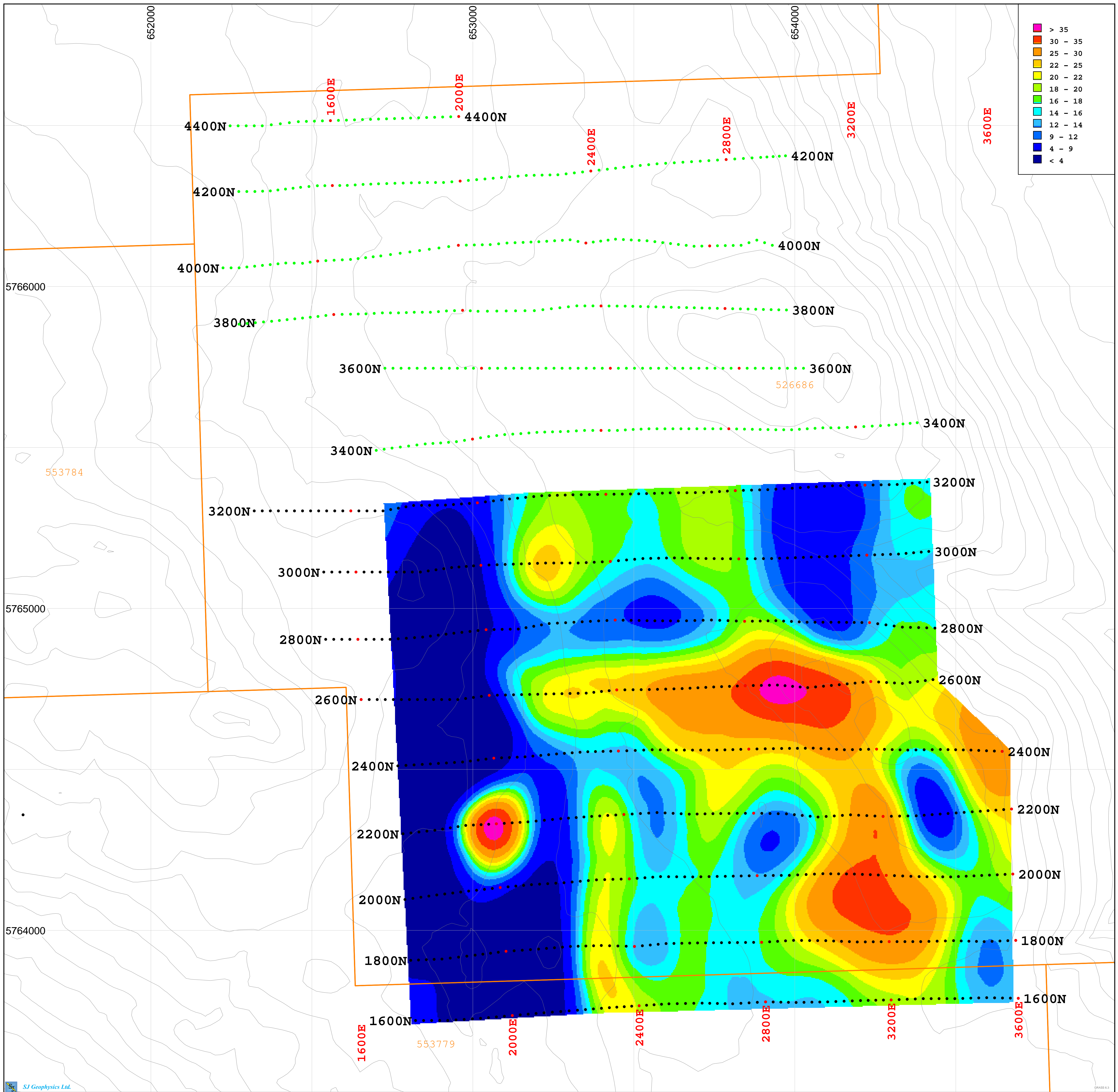
Survey Information
 3D IP Array : N=15,16 a=100m,200m
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend**
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



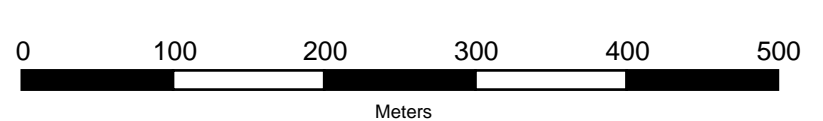
3D Inversion Model
 Interpreted Chargeability (ms)
 False Color Contour Map
 Depth 200m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



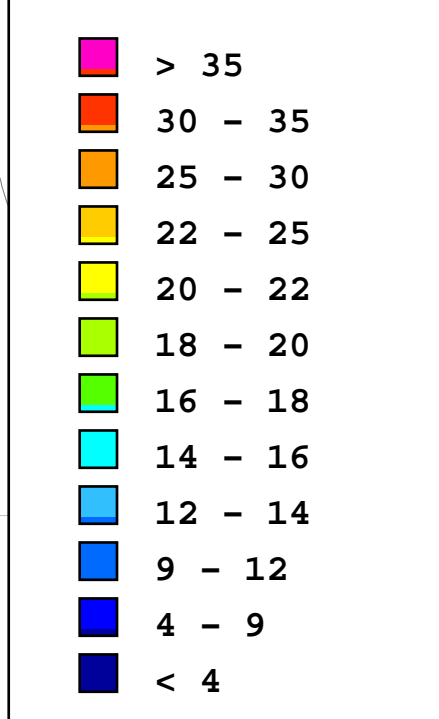
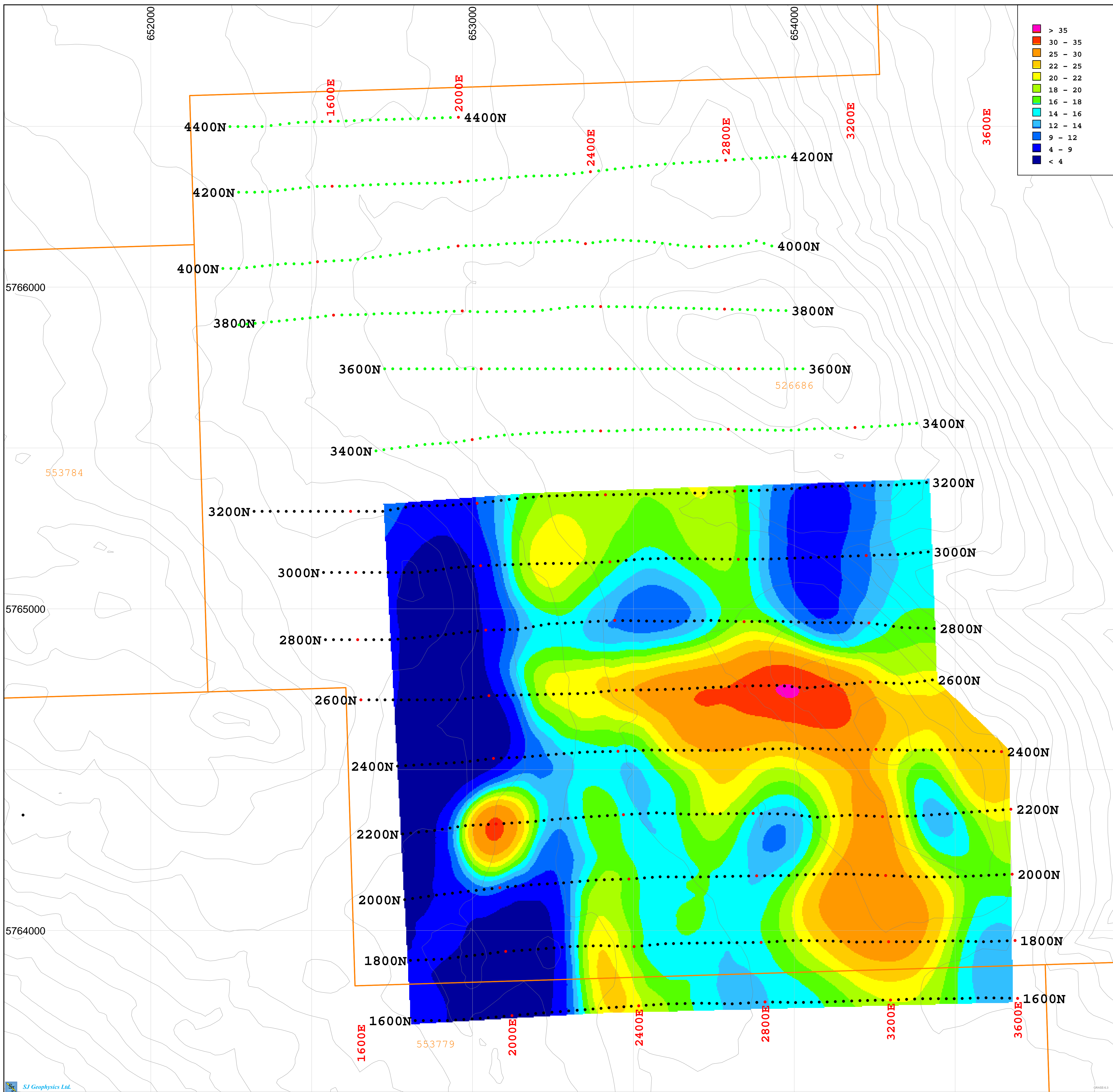
Survey Information
 3D IP Array : N=15,16 a=100m,200m
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend**
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



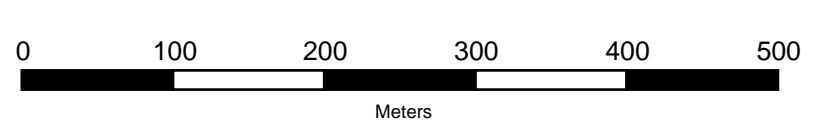
3D Inversion Model
 Interpreted Chargeability (ms)
 False Color Contour Map
 Depth 250m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



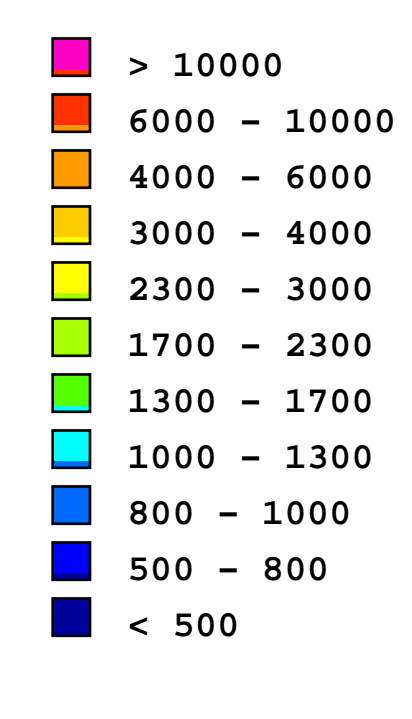
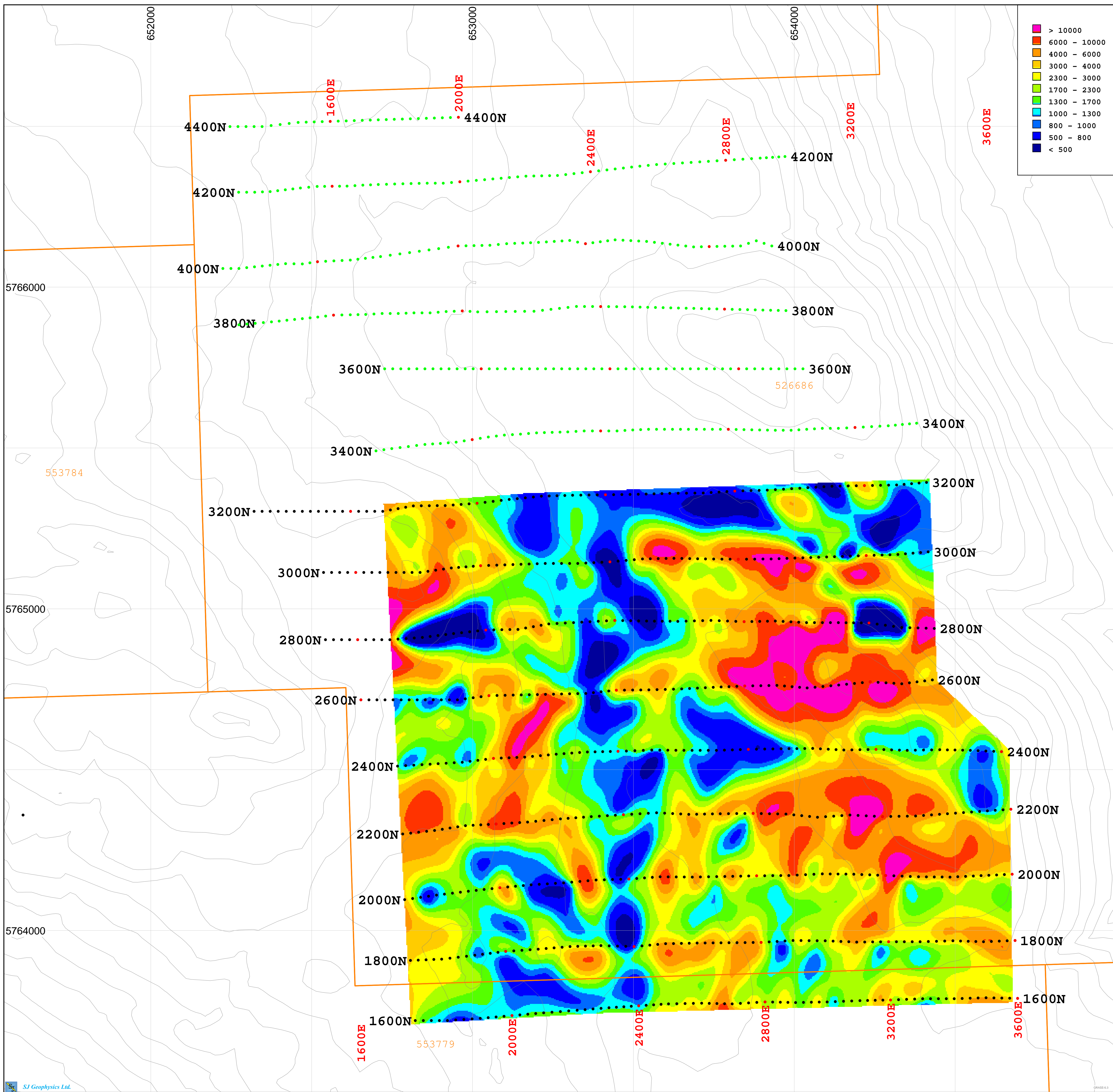
Survey Information
 3D IP Array : N=15,16 a=100m,200m
 INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
 Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



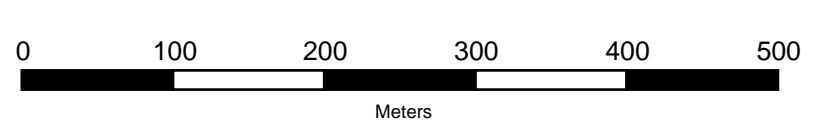
3D Inversion Model
 Interpreted Chargeability (ms)
 False Color Contour Map
 Depth 300m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



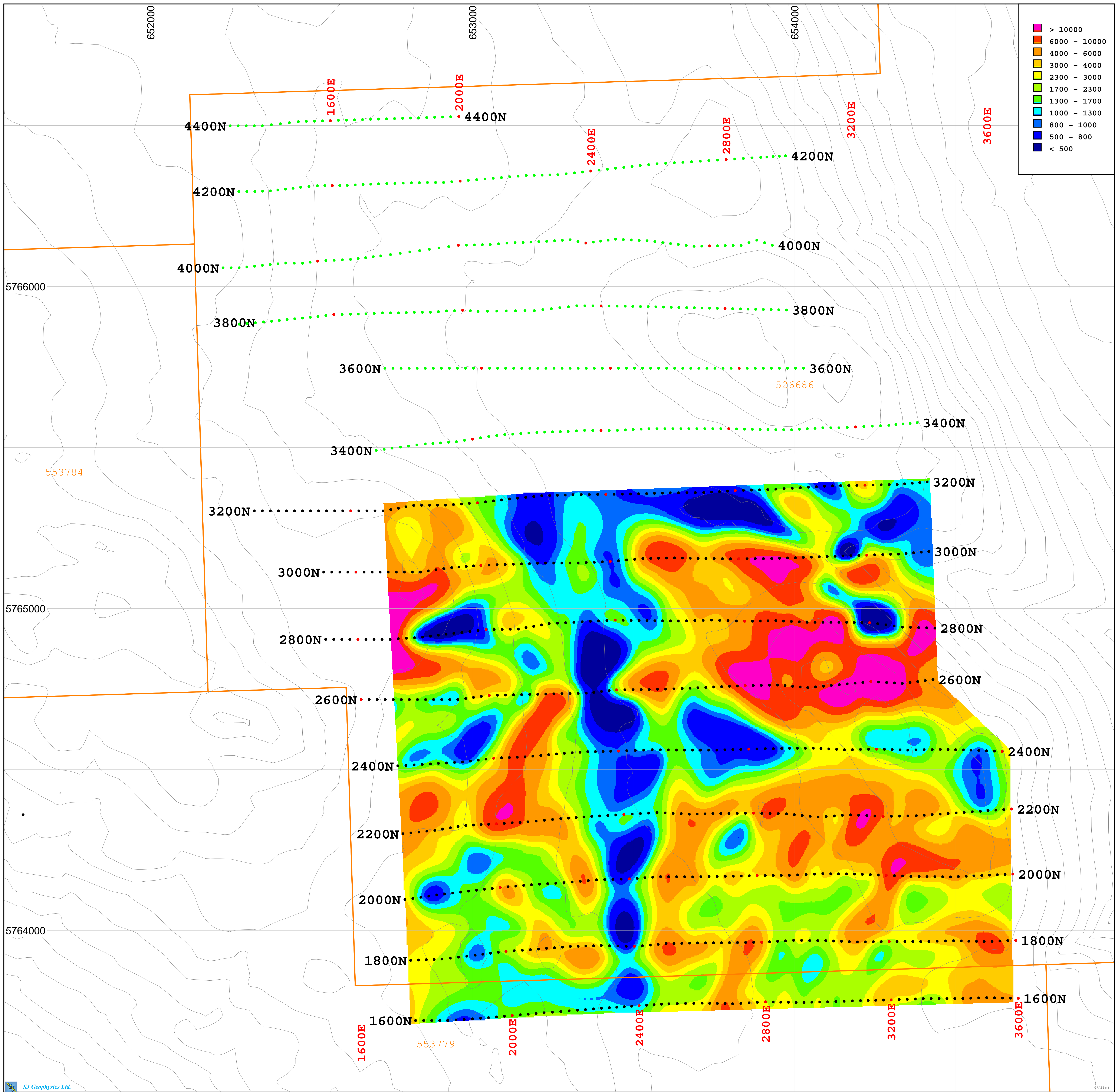
Survey Information
 3D IP Array : N=15,16 a=100m,200m
 INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
 Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



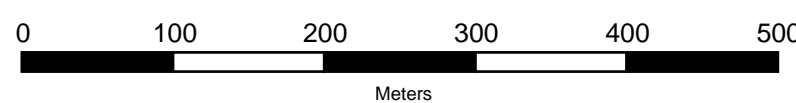
3D Inversion Model
 Interpreted Resistivity (Ohm-m)
 False Color Contour Map
 Depth 25m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



SJ Geophysics Ltd.
 Survey Information
 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-July, 2008
 Mapping Date: July, 2008
 Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



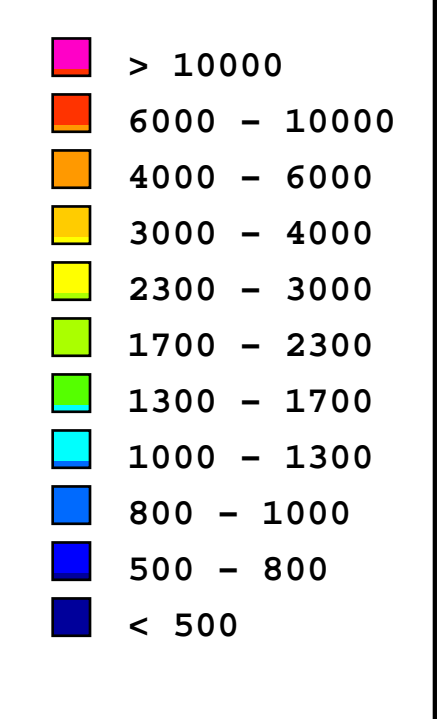
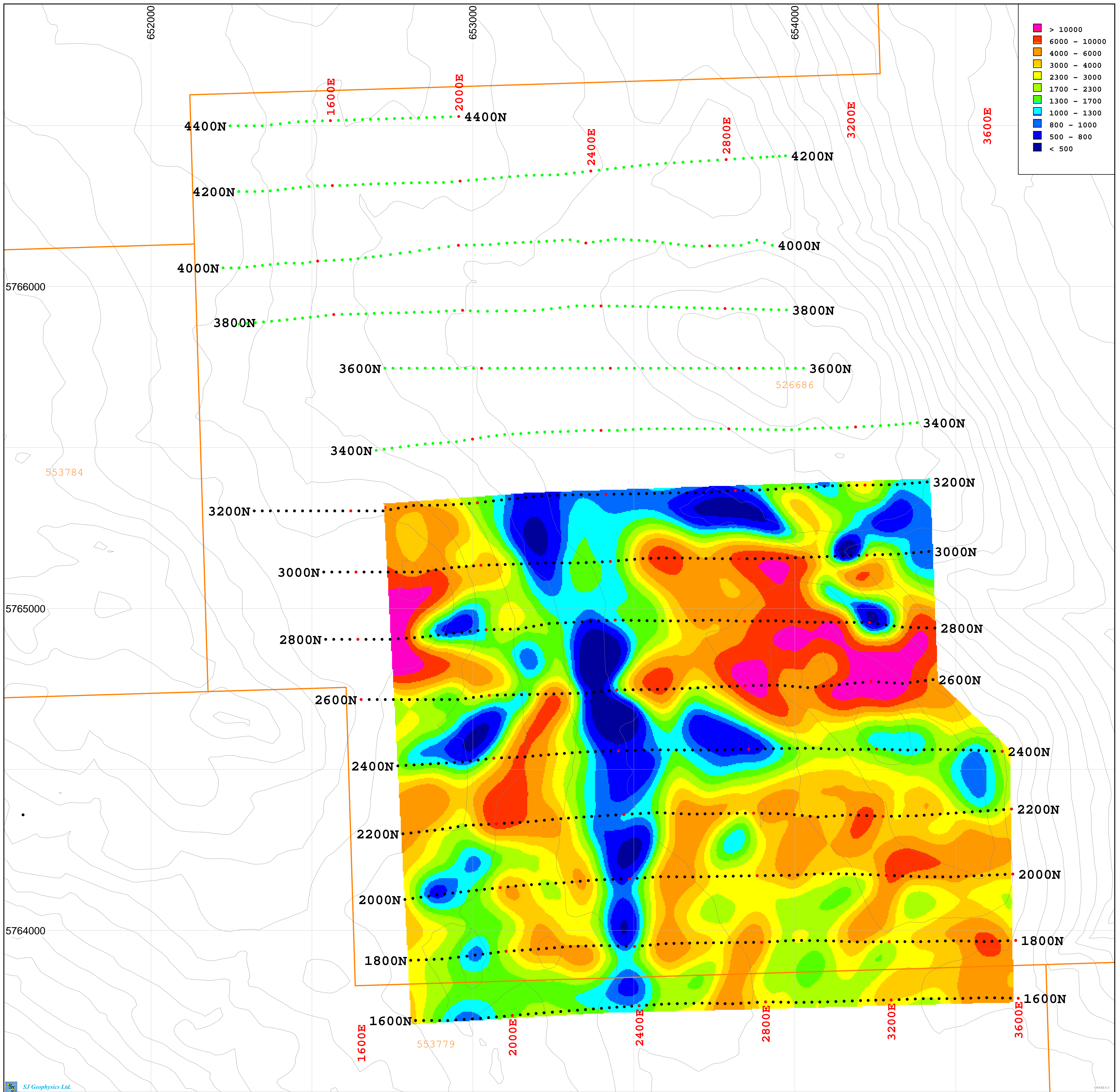
3D Inversion Model
 Interpreted Resistivity (Ohm-m)
 False Color Contour Map

Depth 50m Below Topography

HAPPY CREEK MINERALS LTD.

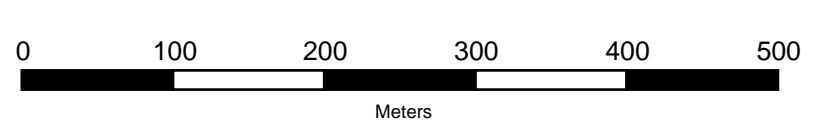
Hen Property

South Central Cariboo, B.C.



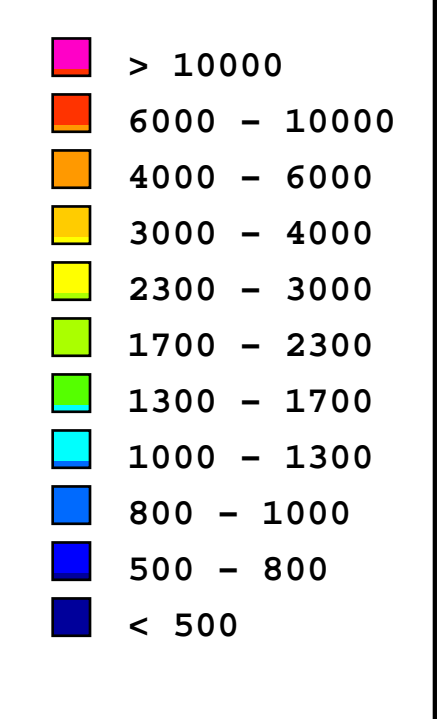
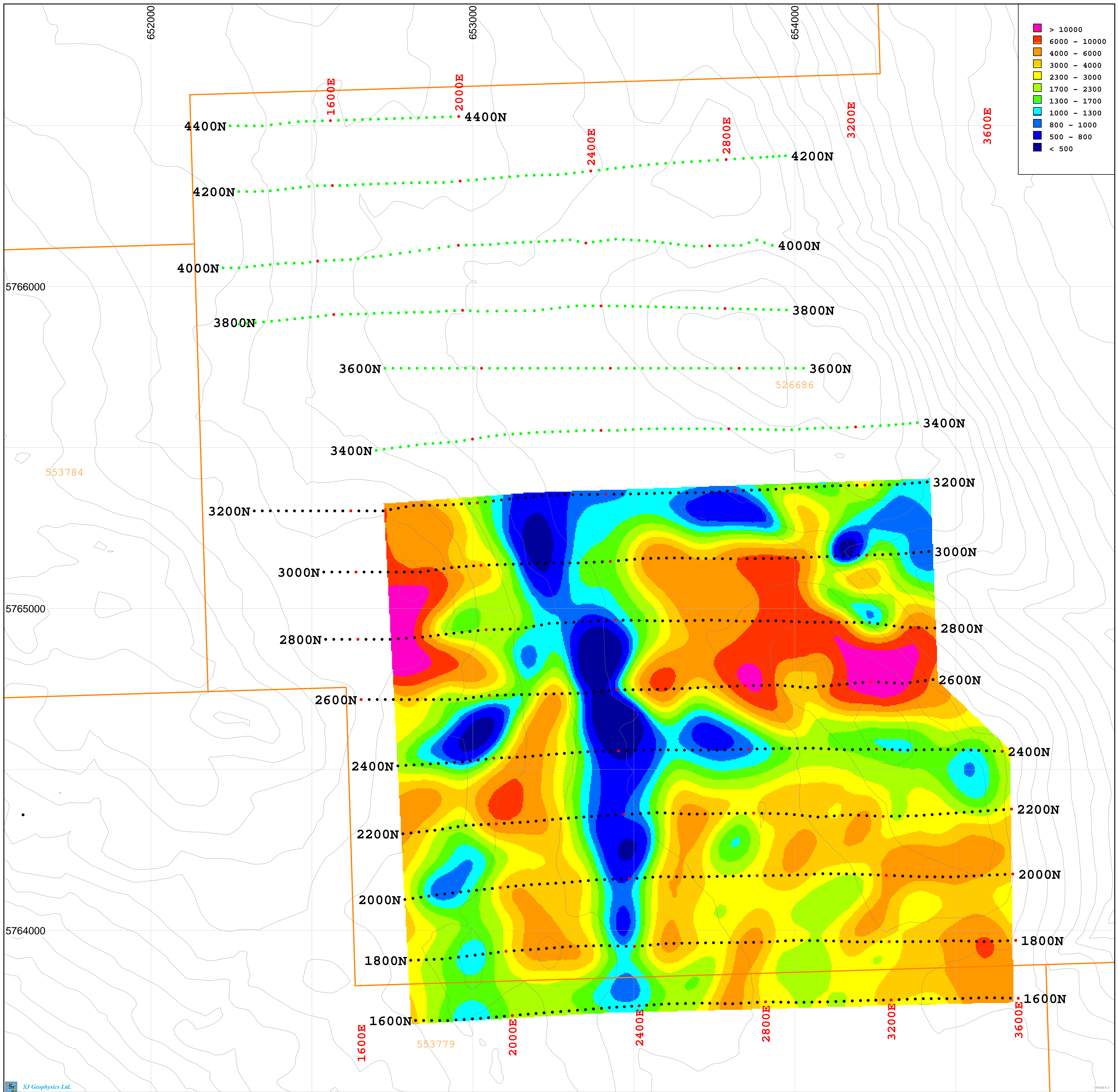
Survey Information
 3D IP Array : N=15,16 a=100m,200m
 INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
 Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



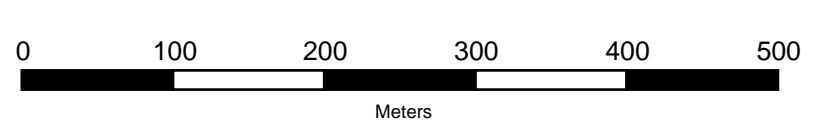
3D Inversion Model
 Interpreted Resistivity ($\Omega\text{-m}$)
 False Color Contour Map
 Depth 75m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



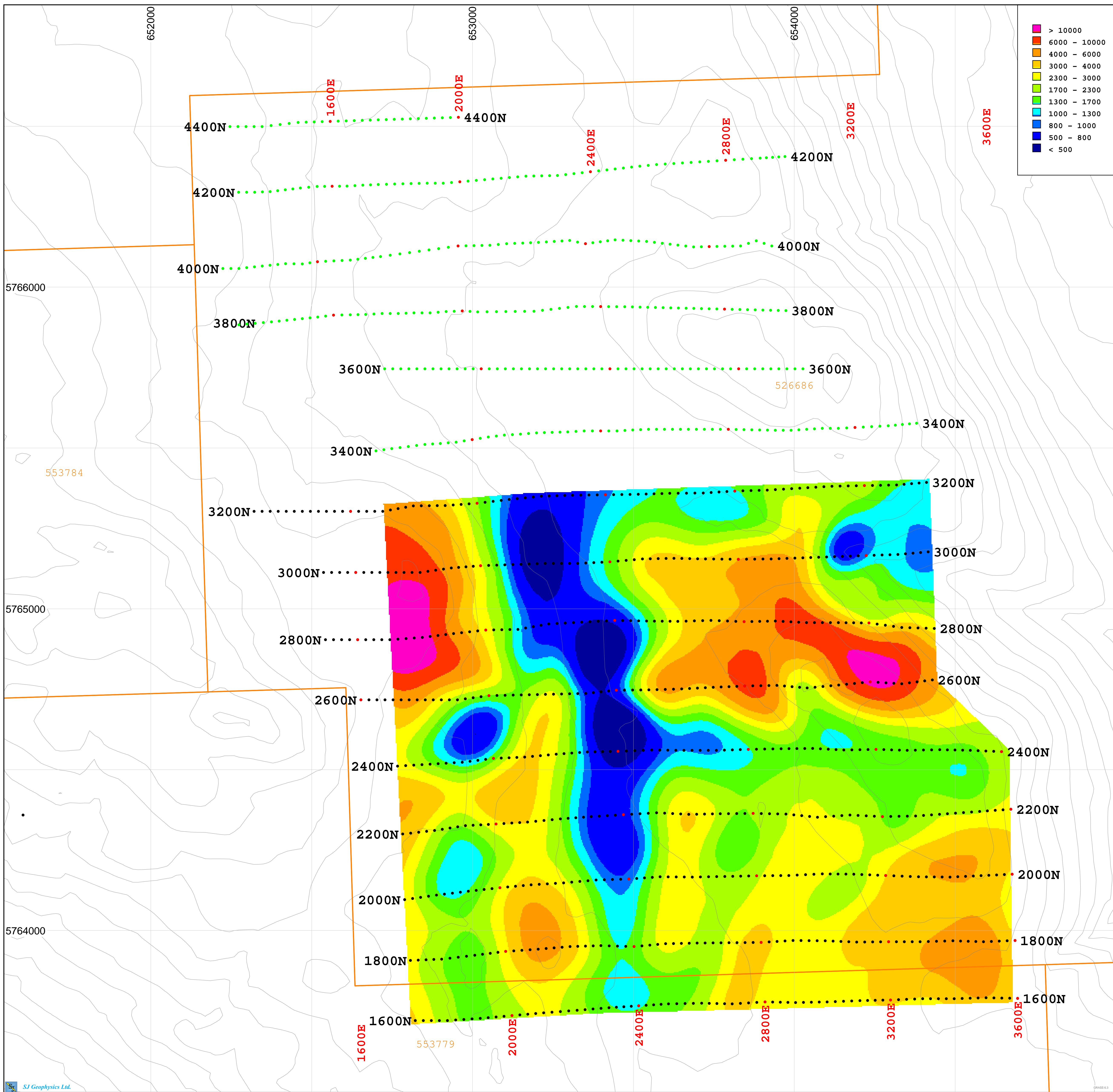
Survey Information
 3D IP Array : N=15,16 a=100m,200m
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend**
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



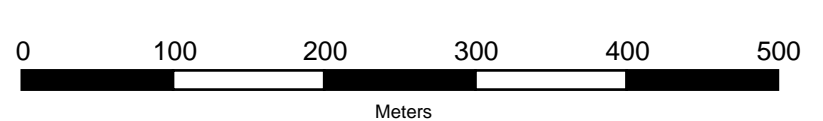
3D Inversion Model
 Interpreted Resistivity (Ohm-m)
 False Color Contour Map
 Depth 100m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



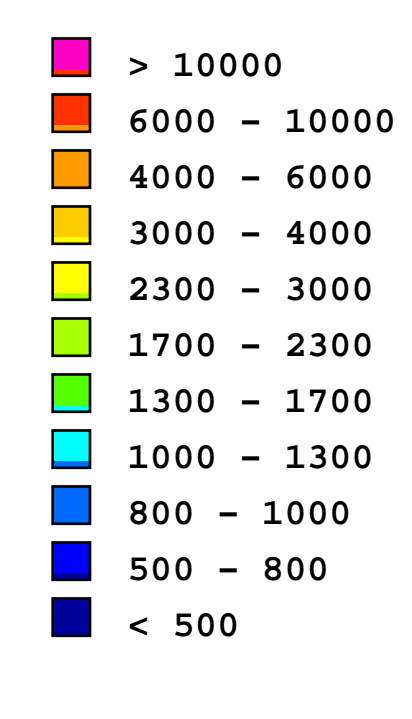
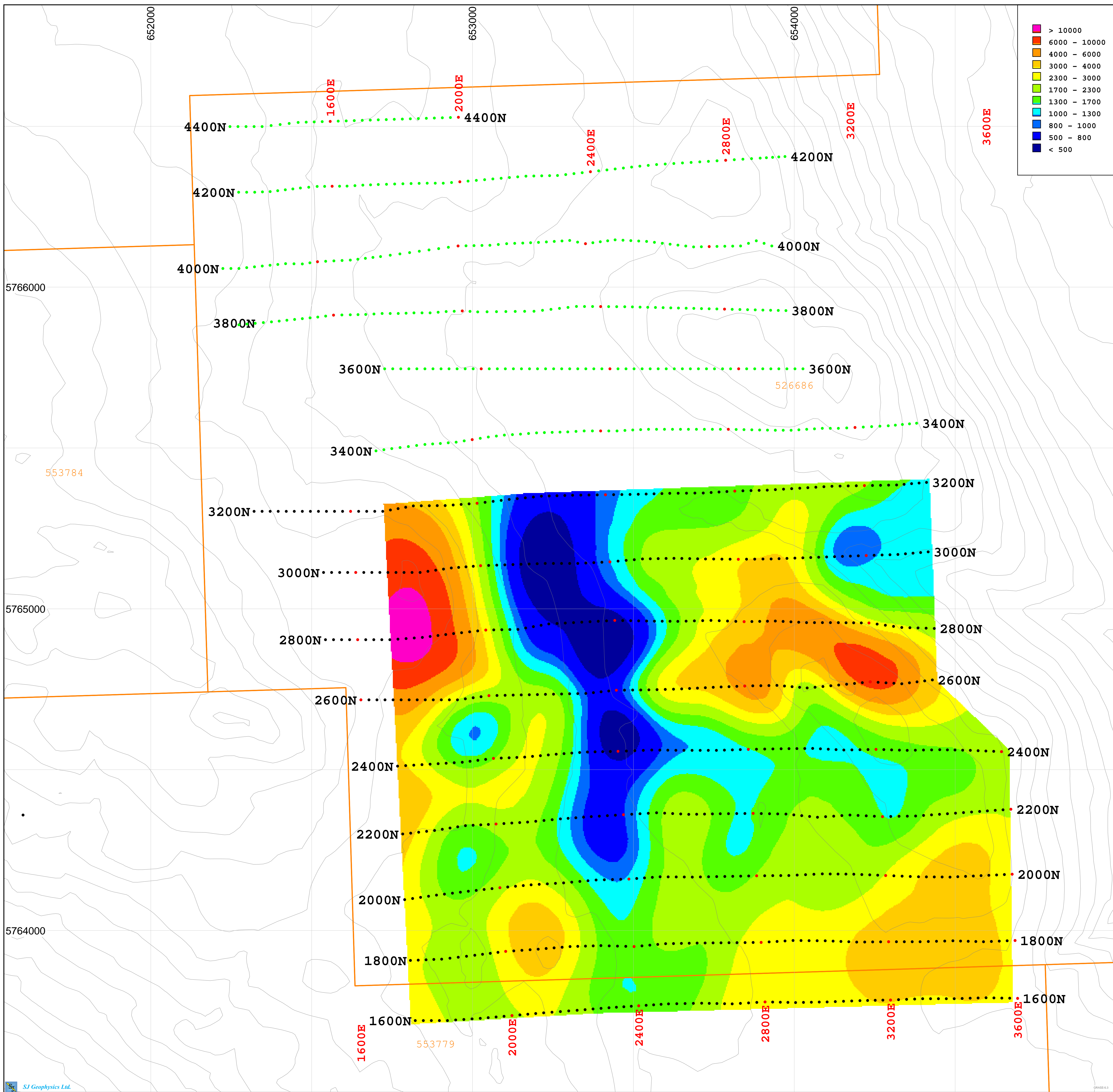
Survey Information
 3D IP Array : N=15,16 a=100m,200m
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend**
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



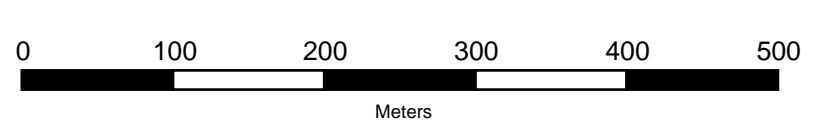
3D Inversion Model
 Interpreted Resistivity (Ohm-m)
 False Color Contour Map
 Depth 150m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



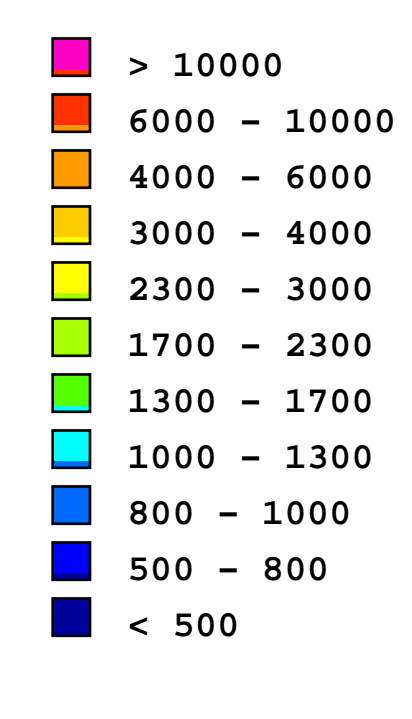
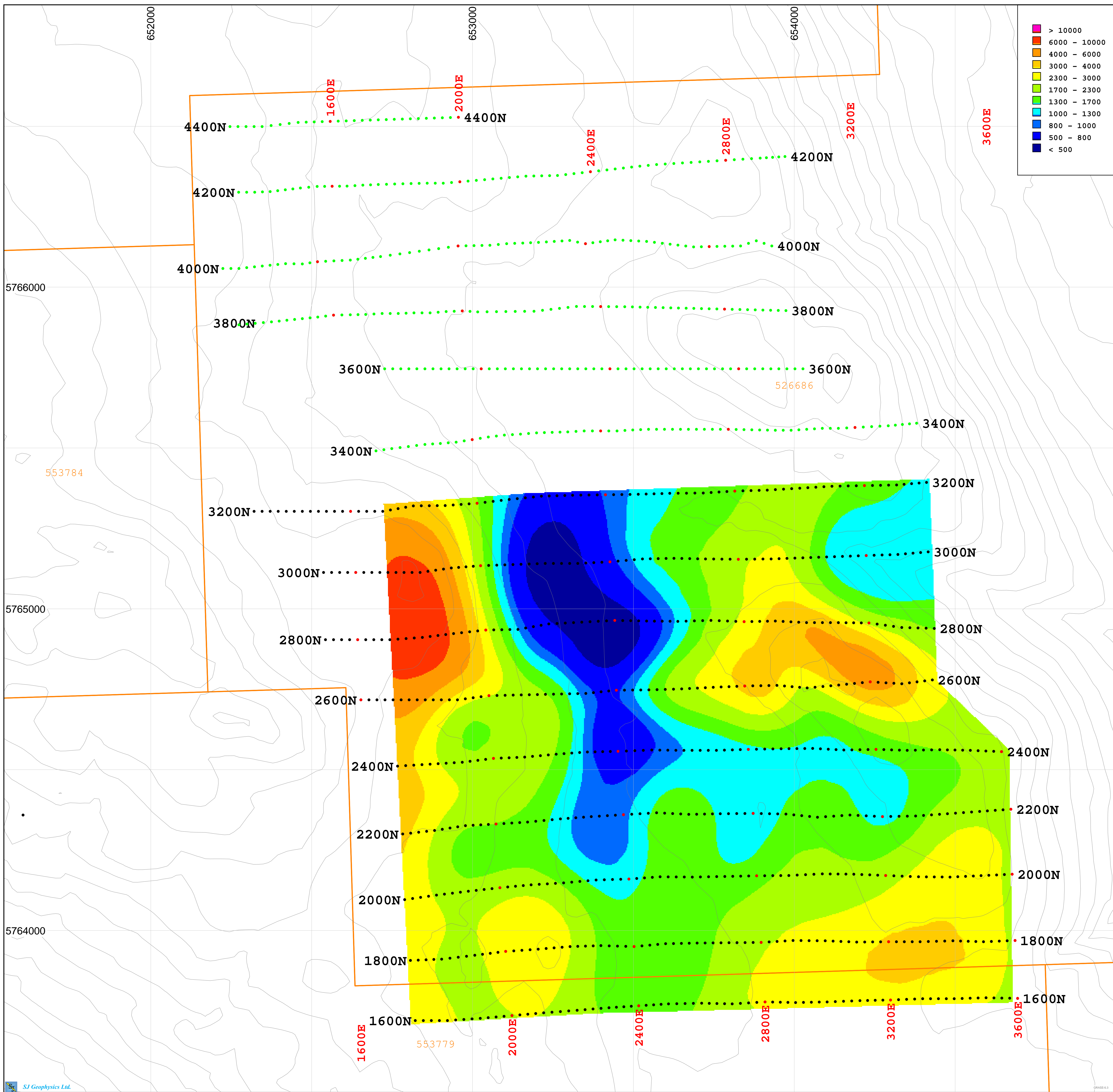
Survey Information
 3D IP Array : N=15,16 a=100m,200m
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend**
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



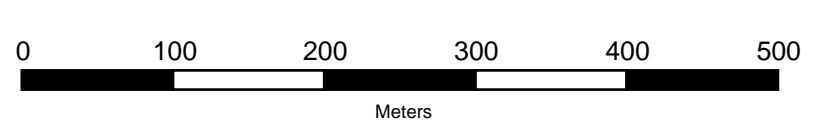
3D Inversion Model
 Interpreted Resistivity (Ohm-m)
 False Color Contour Map
 Depth 200m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



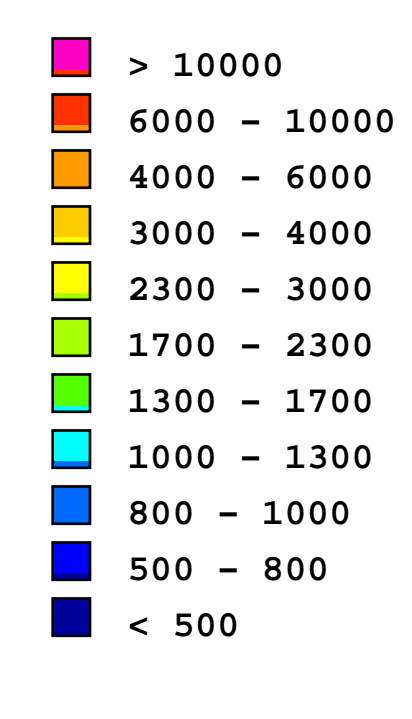
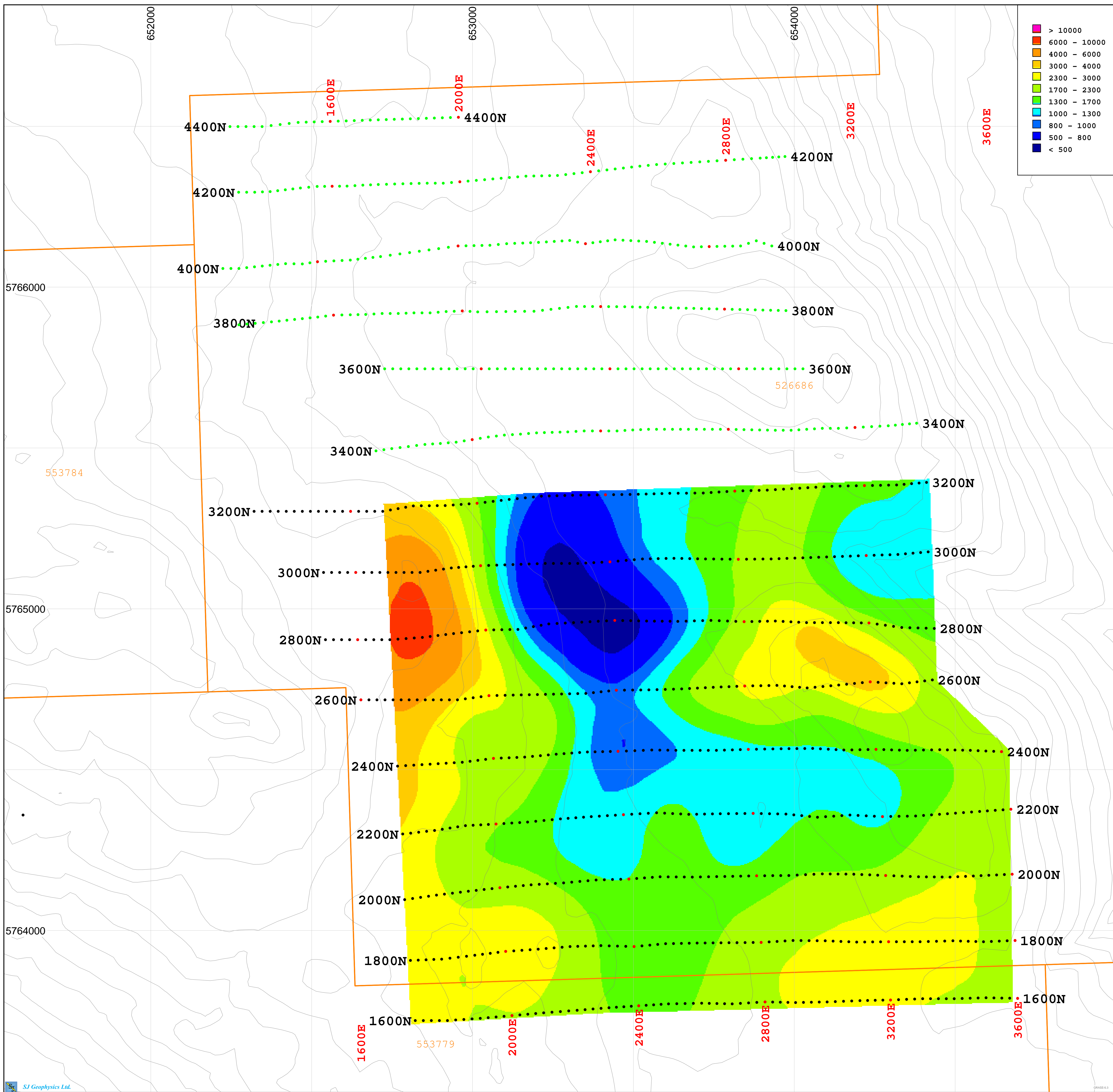
Survey Information
 3D IP Array : N=15,16 a=100m,200m
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend**
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas



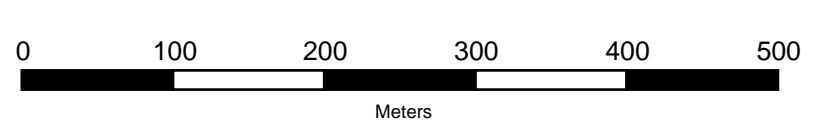
3D Inversion Model
 Interpreted Resistivity (Ohm-m)
 False Color Contour Map
 Depth 250m Below Topography

HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



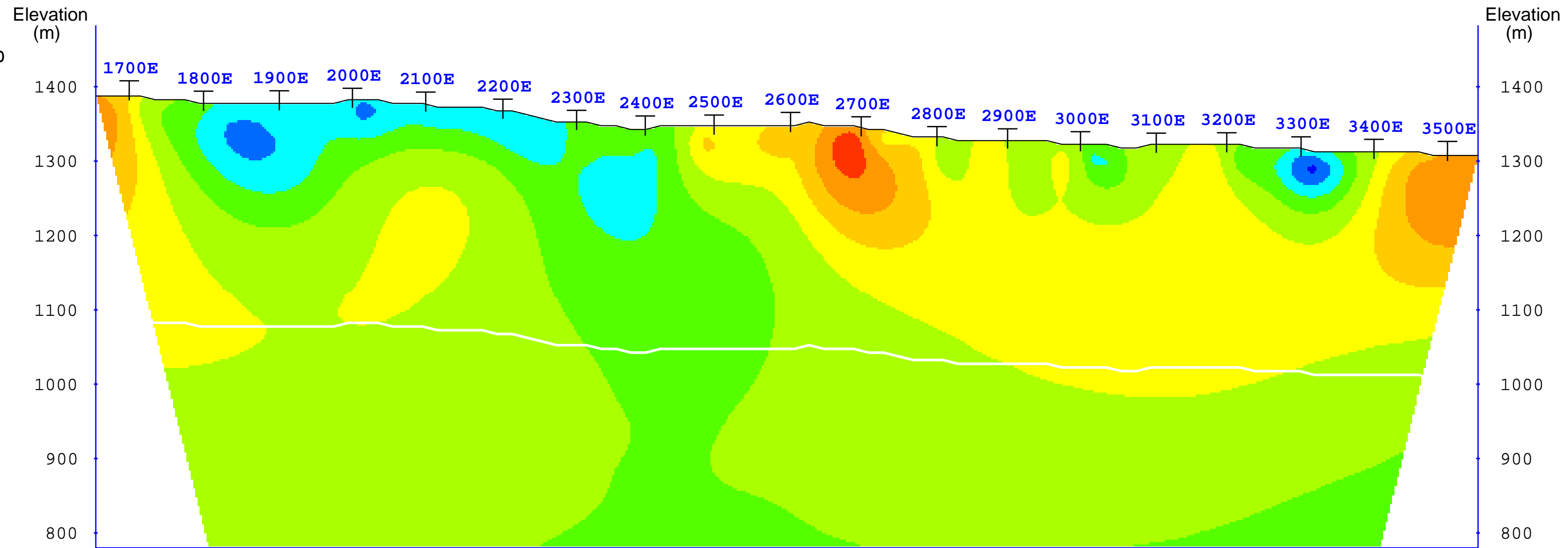
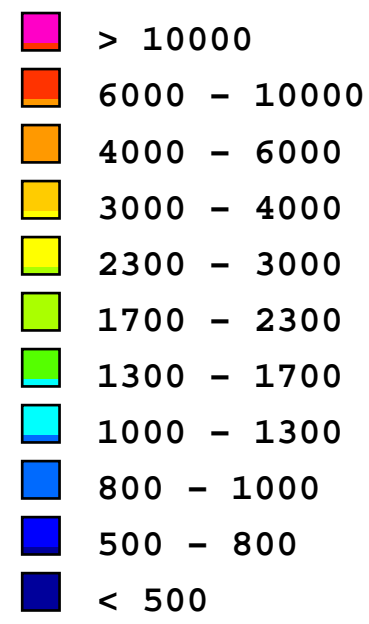
Survey Information
 3D IP Array : N=15,16 a=100m,200m
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July, 2008
 Mapping Date: July, 2008
Base Map:
 BCGS TRIM Mapsheet 093A007
 NTS Sheet Number: 093A02
 Mining Zone: Cariboo
 Projection: UTM WGS84 Z10

- Legend**
- Magnetic & IP Survey Grid
 - Magnetic Survey Grid
 - Contours
 - Claim Areas

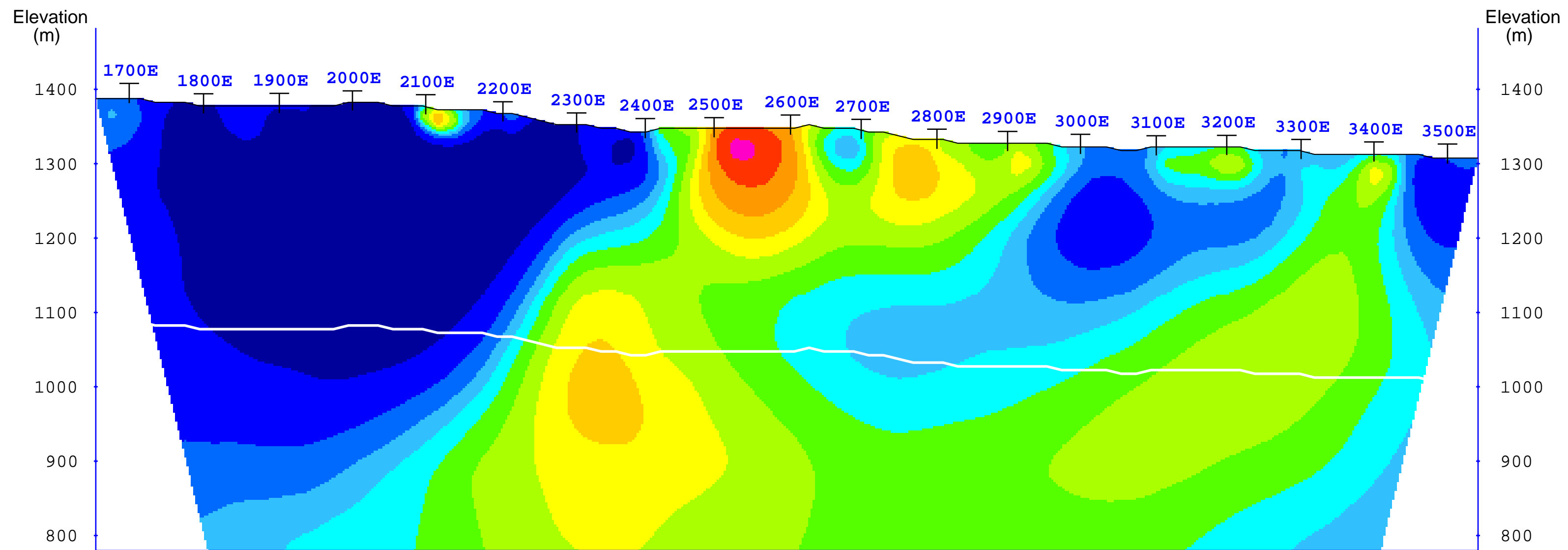


3D Inversion Model
 Interpreted Resistivity (Ohm-m)
 False Color Contour Map
 Depth 300m Below Topography

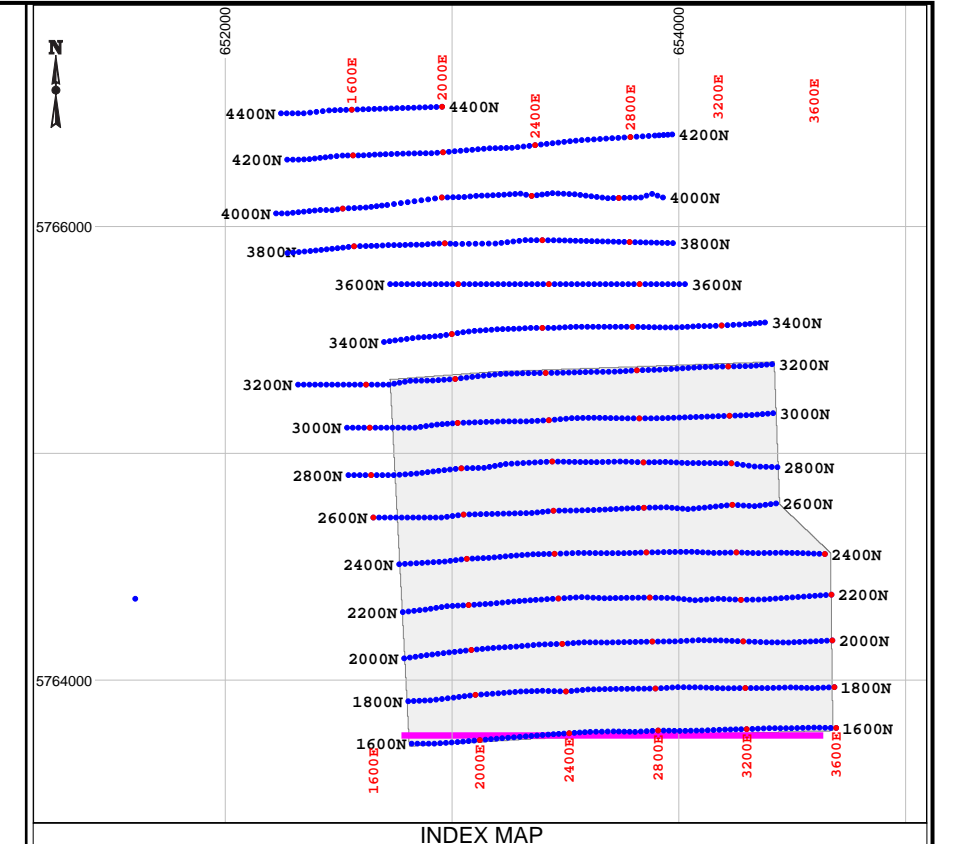
HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.



Interpreted Resistivity (Ohm-m)



Interpreted Chargeability (ms)



Survey Information

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-July,2008

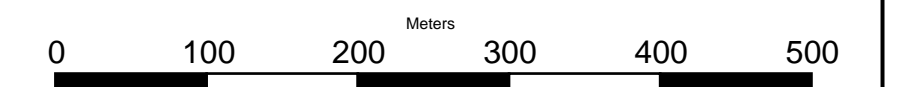
Mapping Date: July,2008

Projection: UTM WGS84 Z10

Legend

White Line: Estimated Depth of Investigation

Gridline Coordinate Projected to Section



HAPPY CREEK MINERALS LTD.

Hen Property

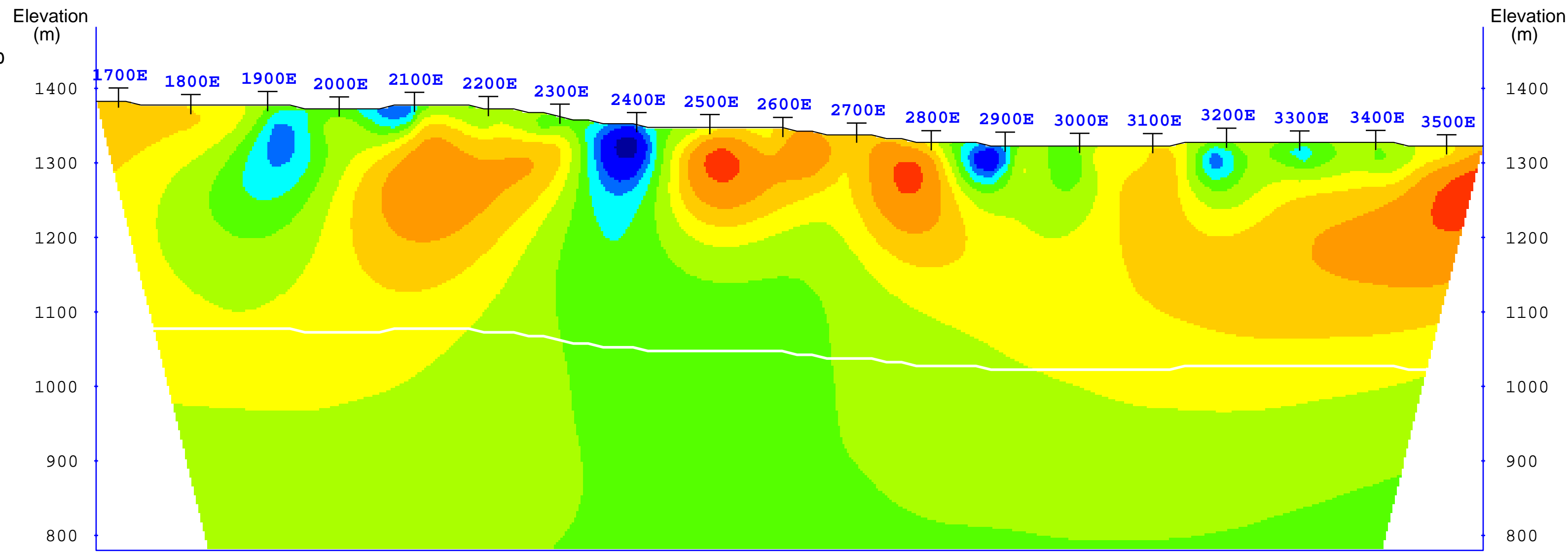
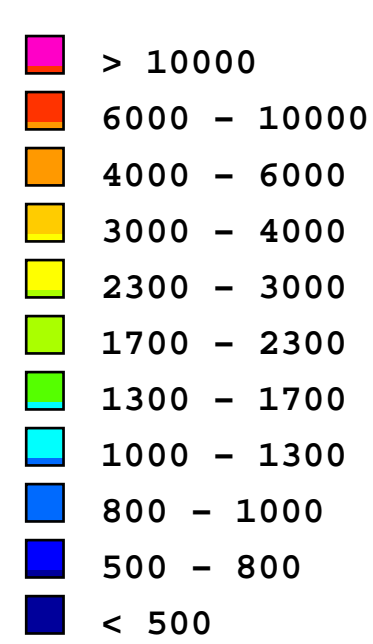
South Central Cariboo, B.C.

3D IP SURVEY

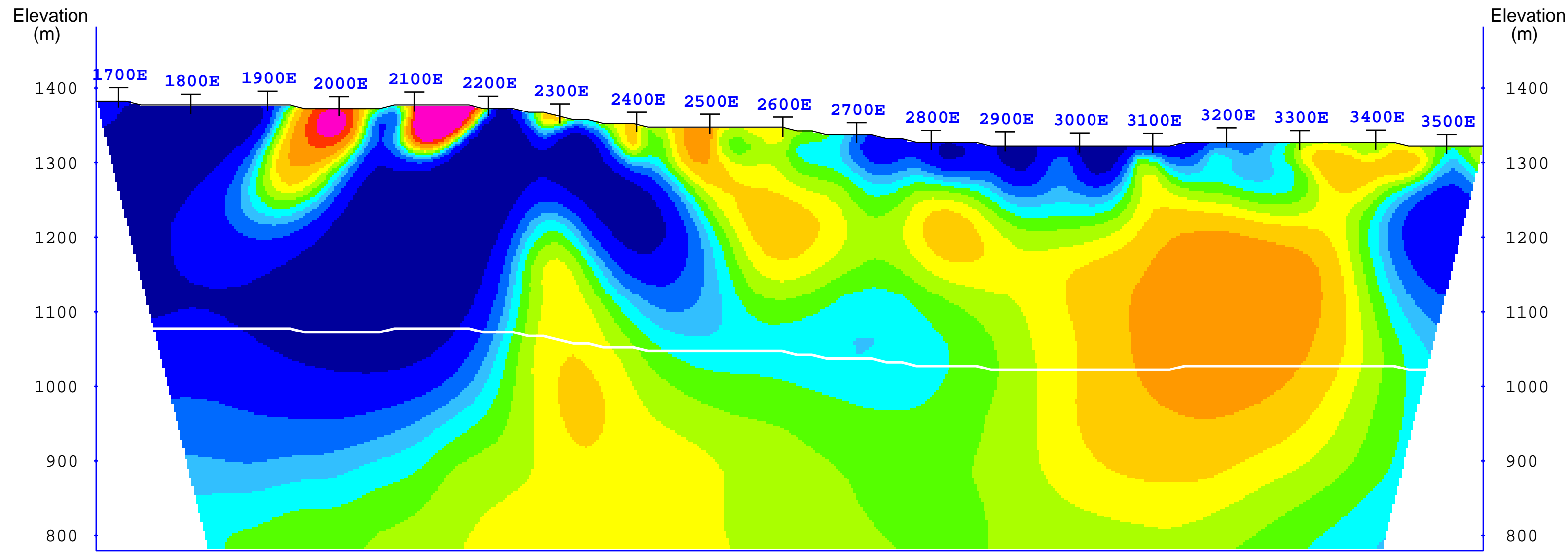
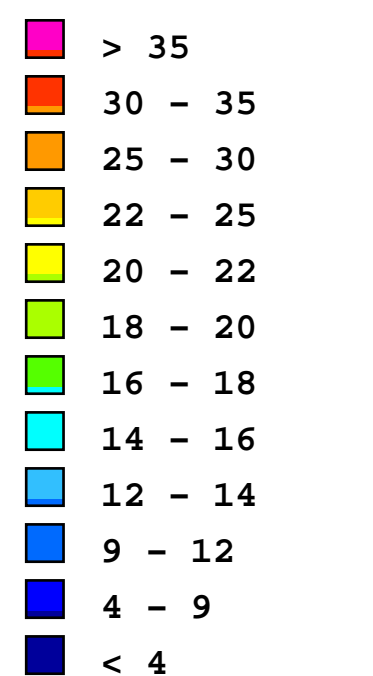
3D Cross Sections

False Color Contour Map

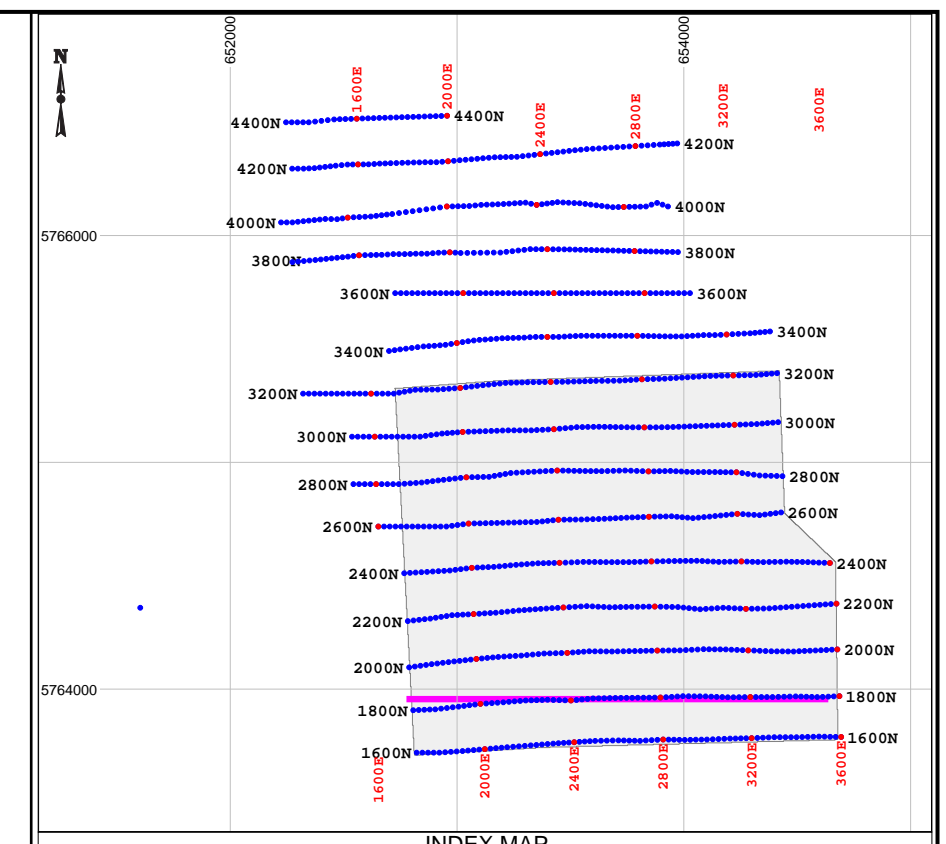
Section 1600N



Interpreted Resistivity (Ohm-m)



Interpreted Chargeability (ms)



Survey Information

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

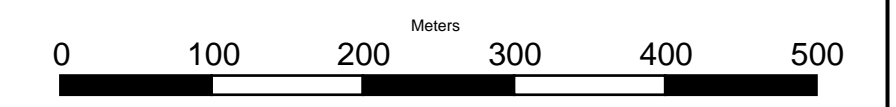
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW

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

Projection: UTM WGS84 Z10

Legend

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



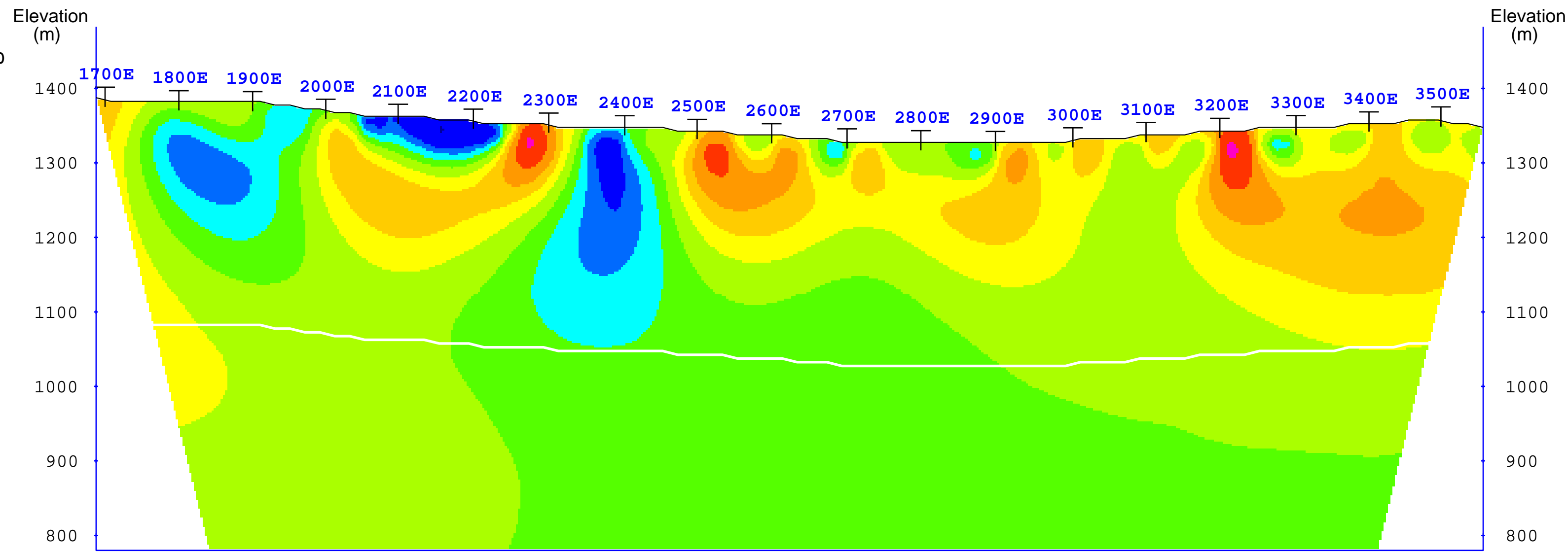
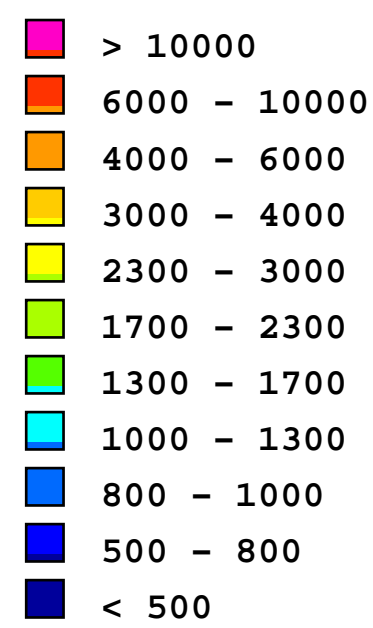
HAPPY CREEK MINERALS LTD.

Hen Property
 South Central Cariboo, B.C.

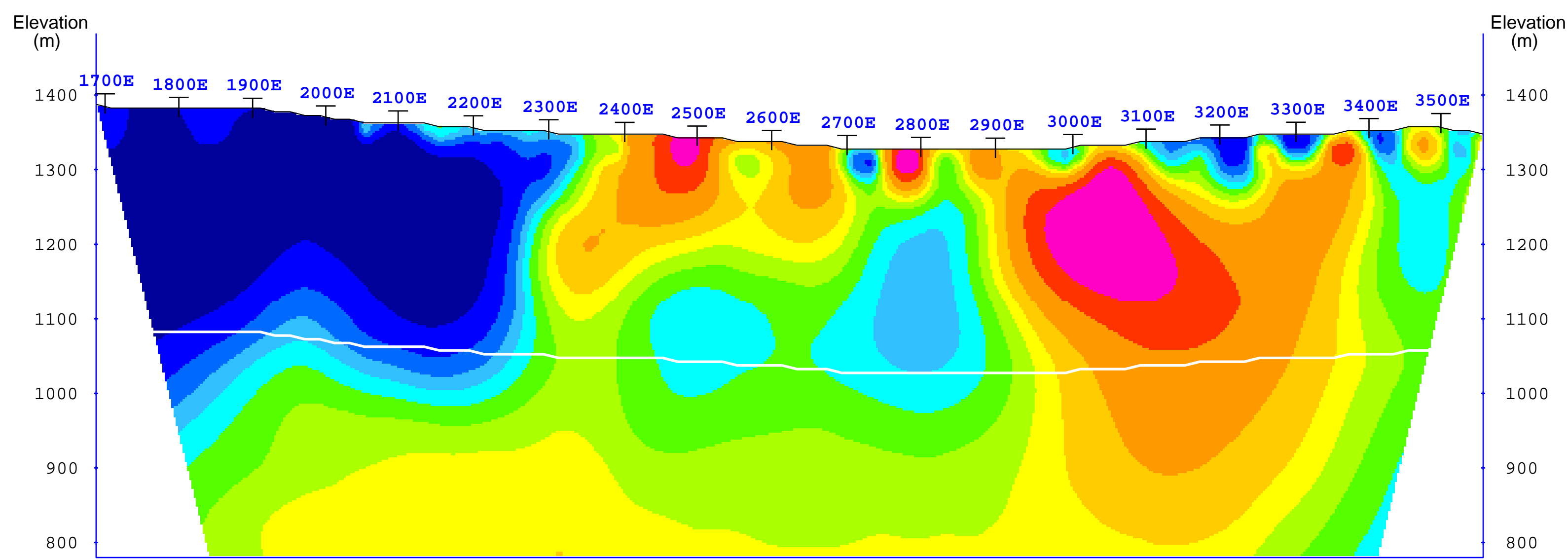
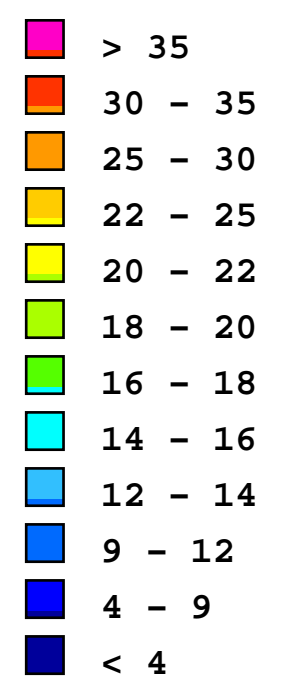
3D IP SURVEY

3D Cross Sections
 False Color Contour Map

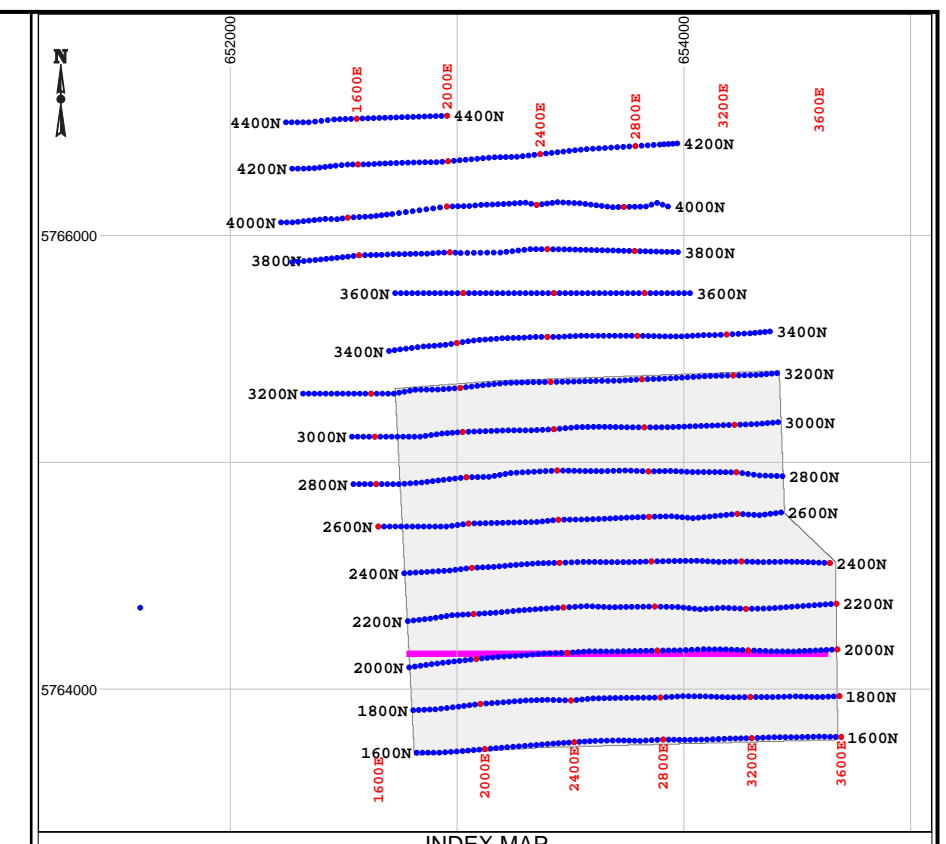
Section 1800N



Interpreted Resistivity (Ohm-m)

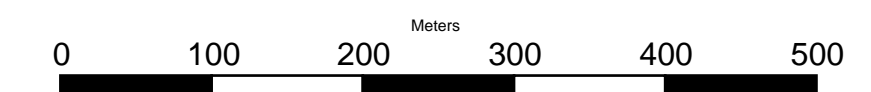


Interpreted Chargeability (ms)

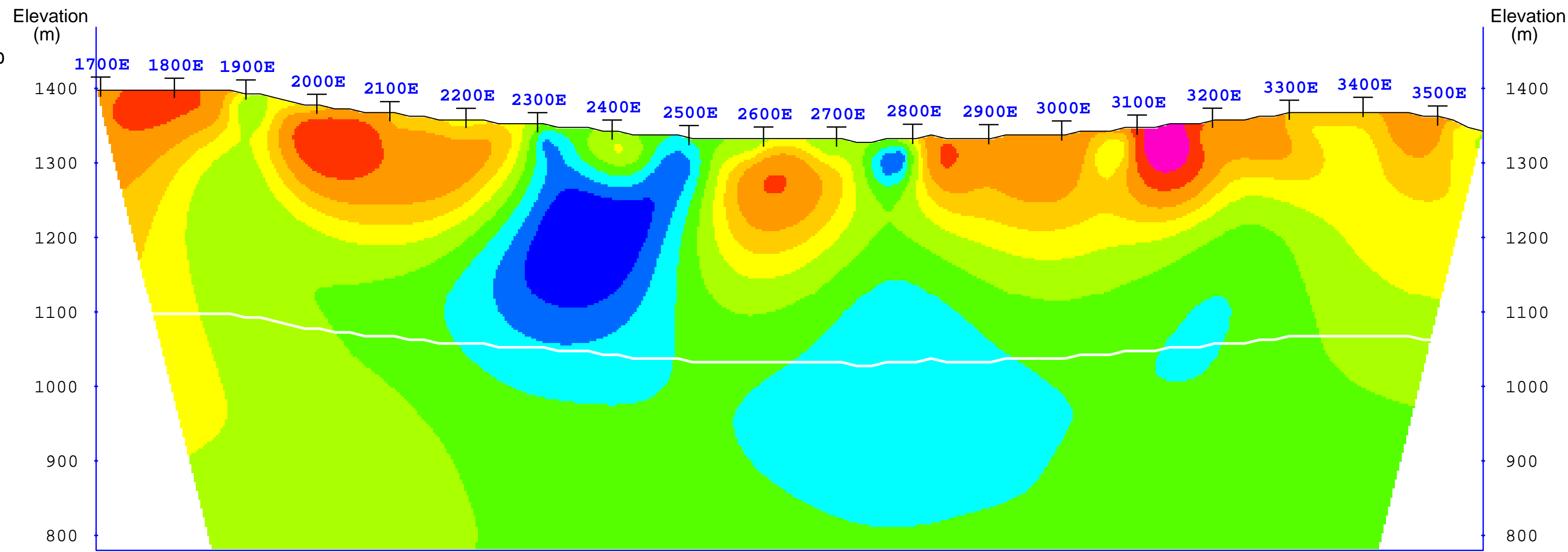
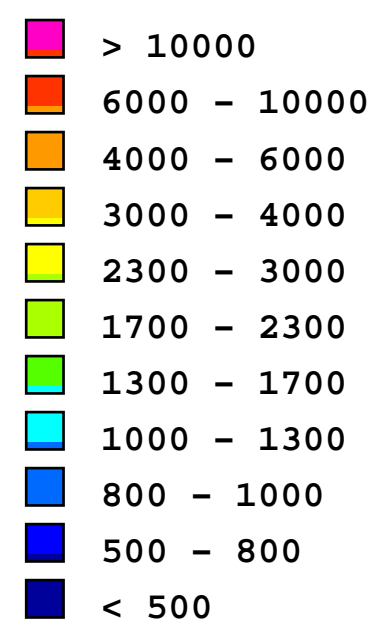


Survey Information
 3D IP Array : N=15,16 a=100m,200m
 INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July,2008
 Mapping Date: July,2008
 Projection: UTM WGS84 Z10

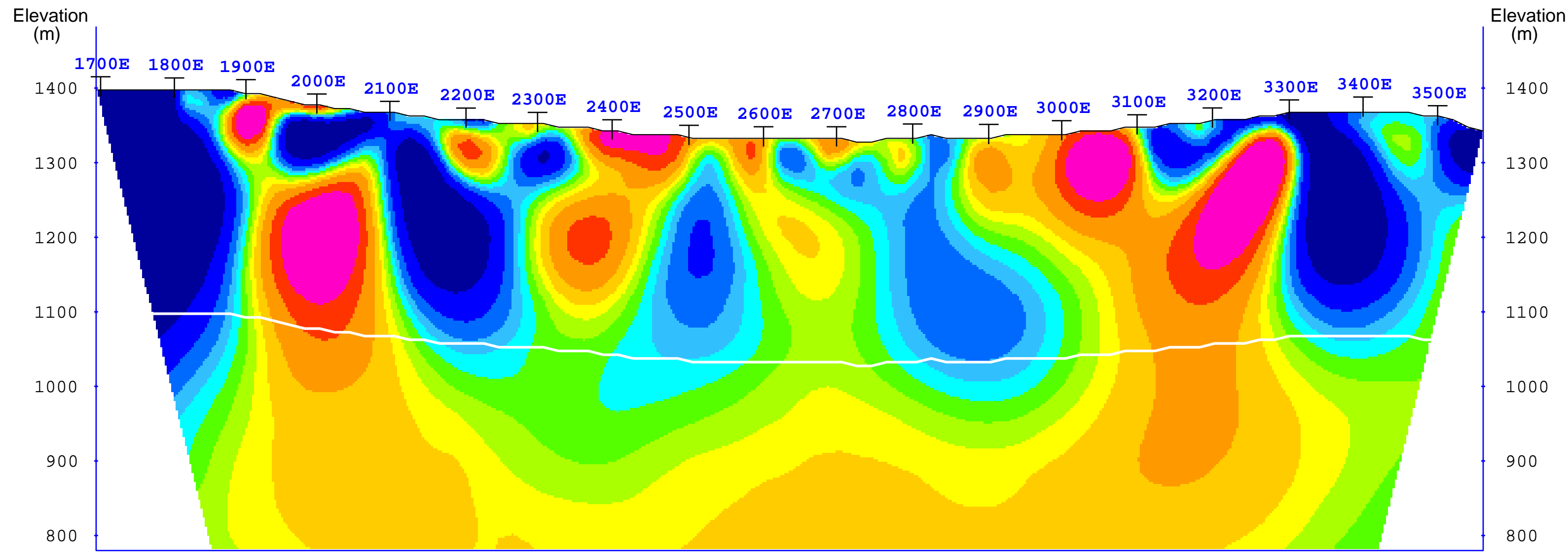
Legend
 White Line: Estimated Depth of Investigation
 T Gridline Coordinate Projected to Section



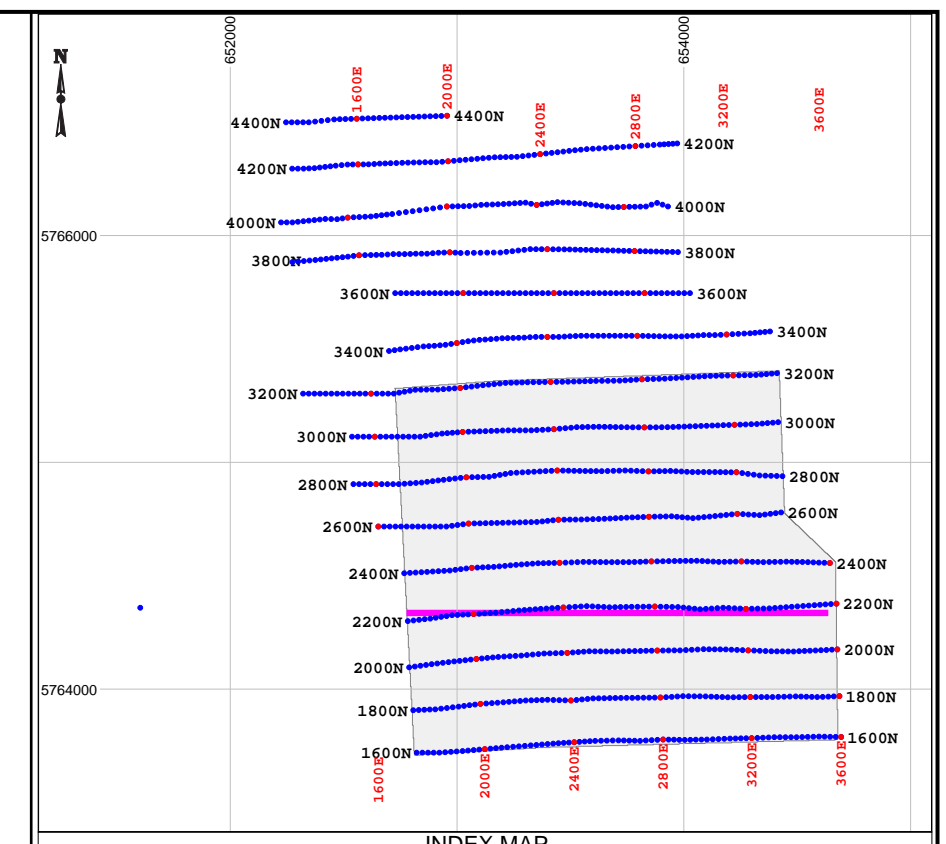
HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.
3D IP SURVEY
 3D Cross Sections
 False Color Contour Map
 Section 2000N



Interpreted Resistivity (Ohm-m)

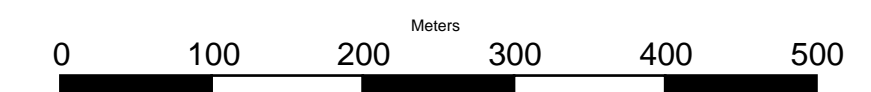


Interpreted Chargeability (ms)

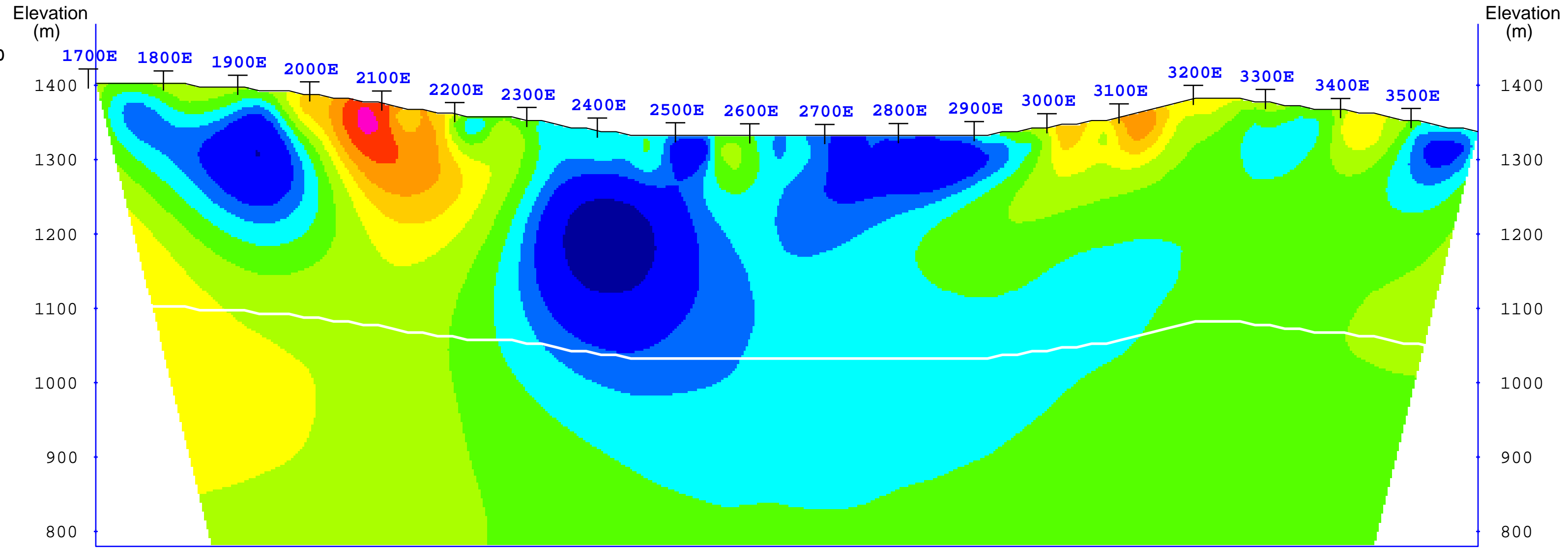
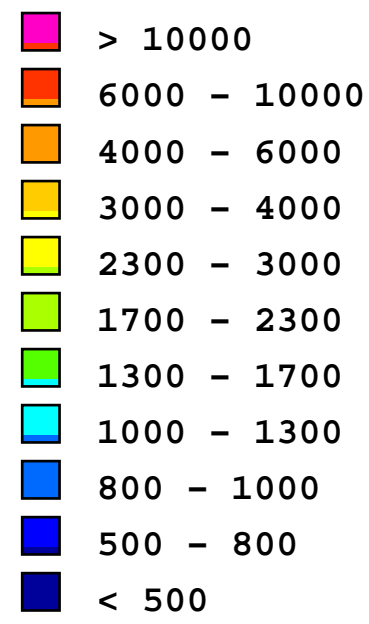


Survey Information
 3D IP Array : N=15,16 a=100m,200m
 INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July,2008
 Mapping Date: July,2008
 Projection: UTM WGS84 Z10

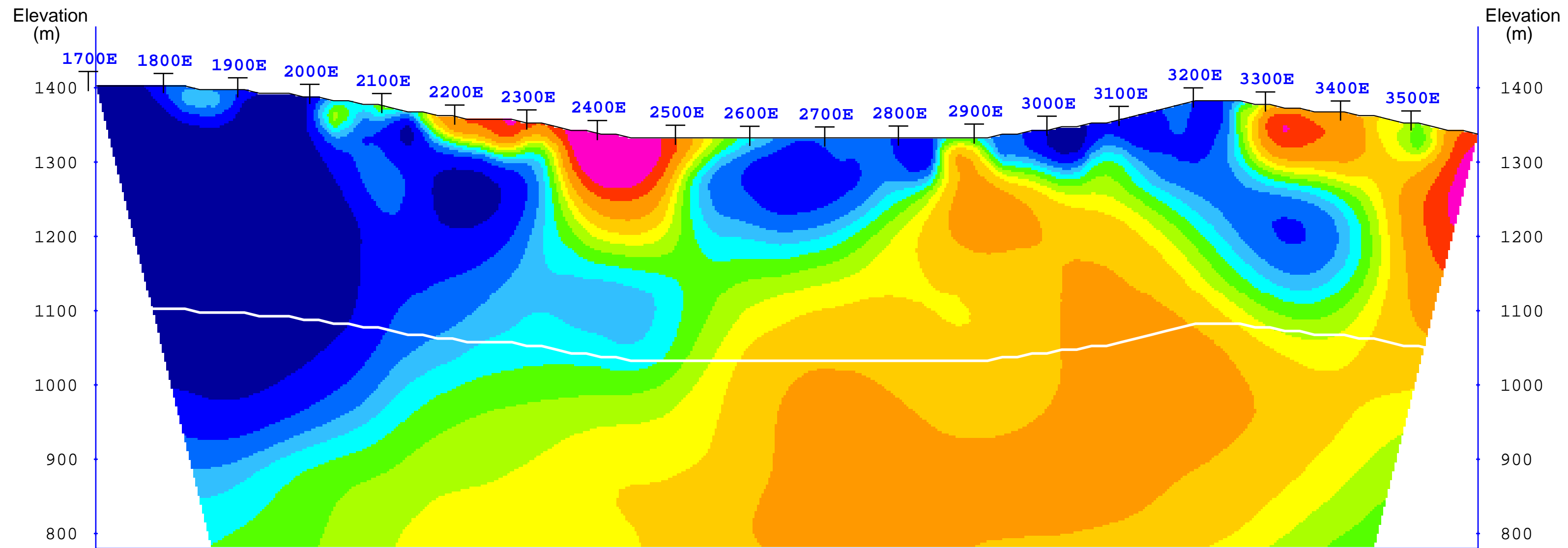
Legend
 White Line: Estimated Depth of Investigation
 Gridline Coordinate Projected to Section



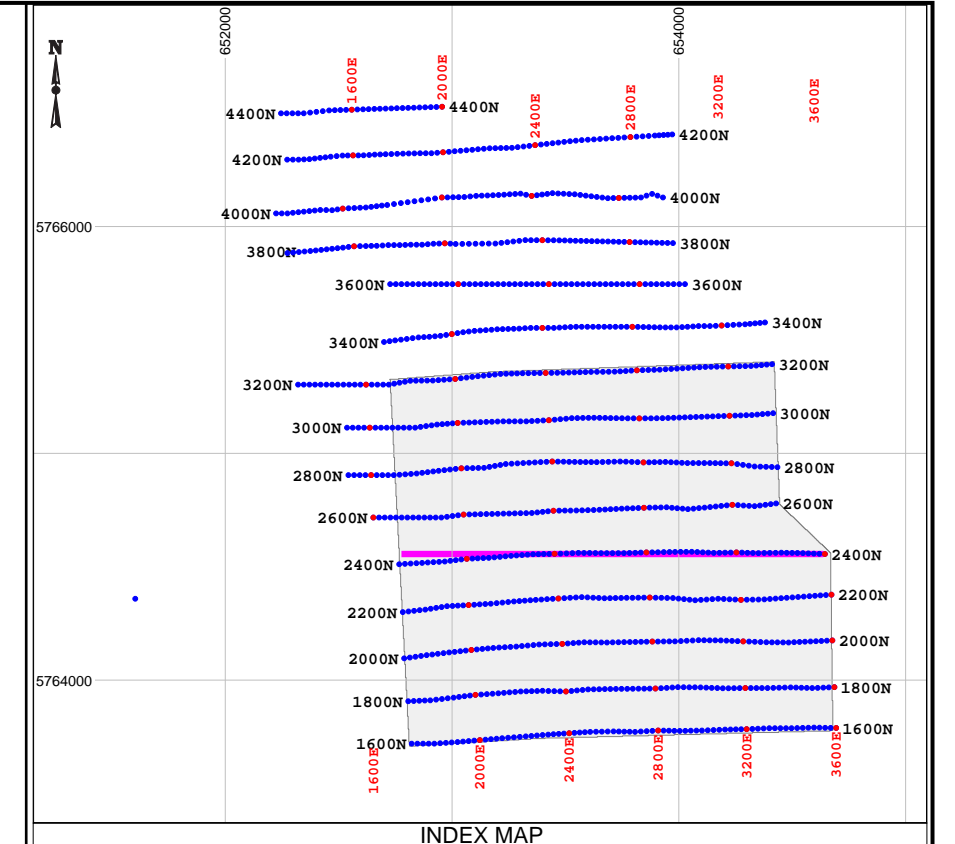
HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.
3D IP SURVEY
 3D Cross Sections
 False Color Contour Map
Section 2200N



Interpreted Resistivity (Ohm-m)



Interpreted Chargeability (ms)



Survey Information

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-July,2008

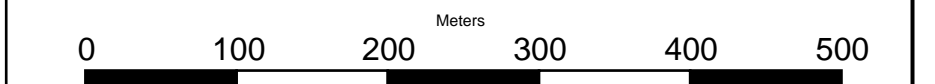
Mapping Date: July,2008

Projection: UTM WGS84 Z10

Legend

White Line: Estimated Depth of Investigation

Gridline Coordinate Projected to Section



HAPPY CREEK MINERALS LTD.

Hen Property

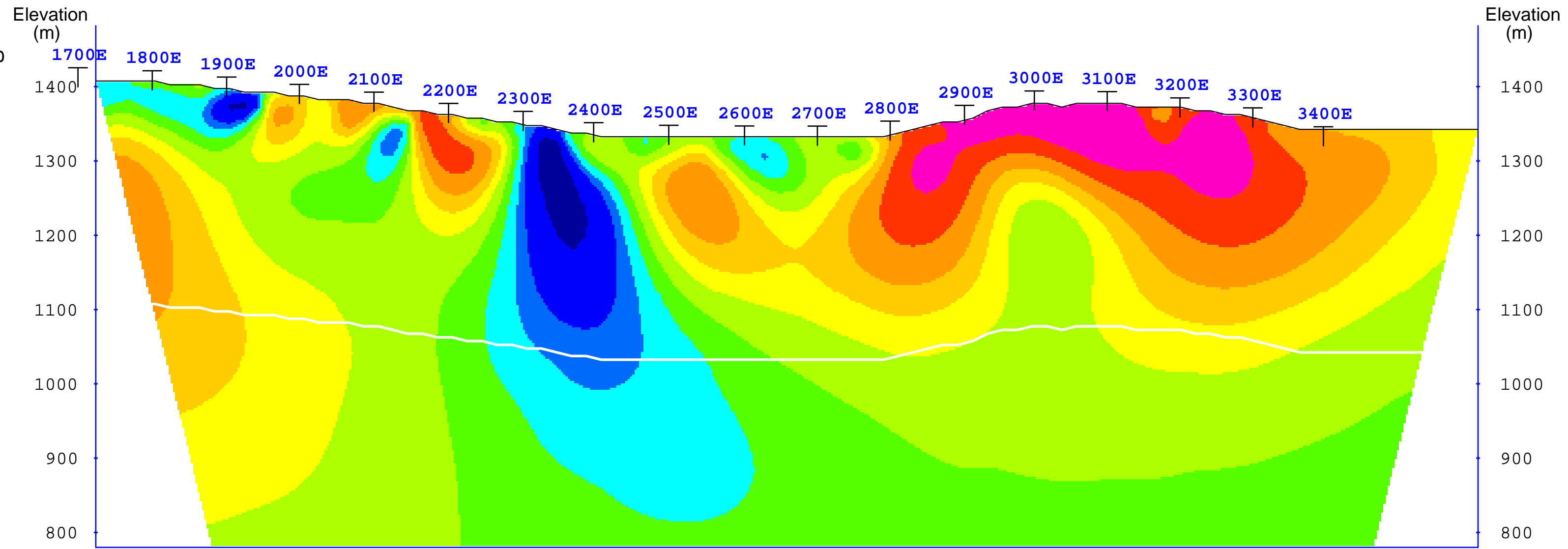
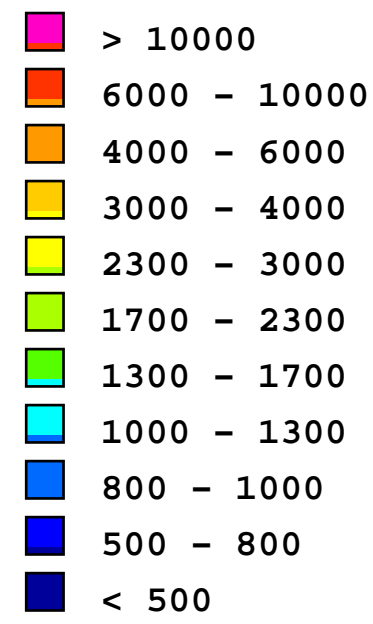
South Central Cariboo, B.C.

3D IP SURVEY

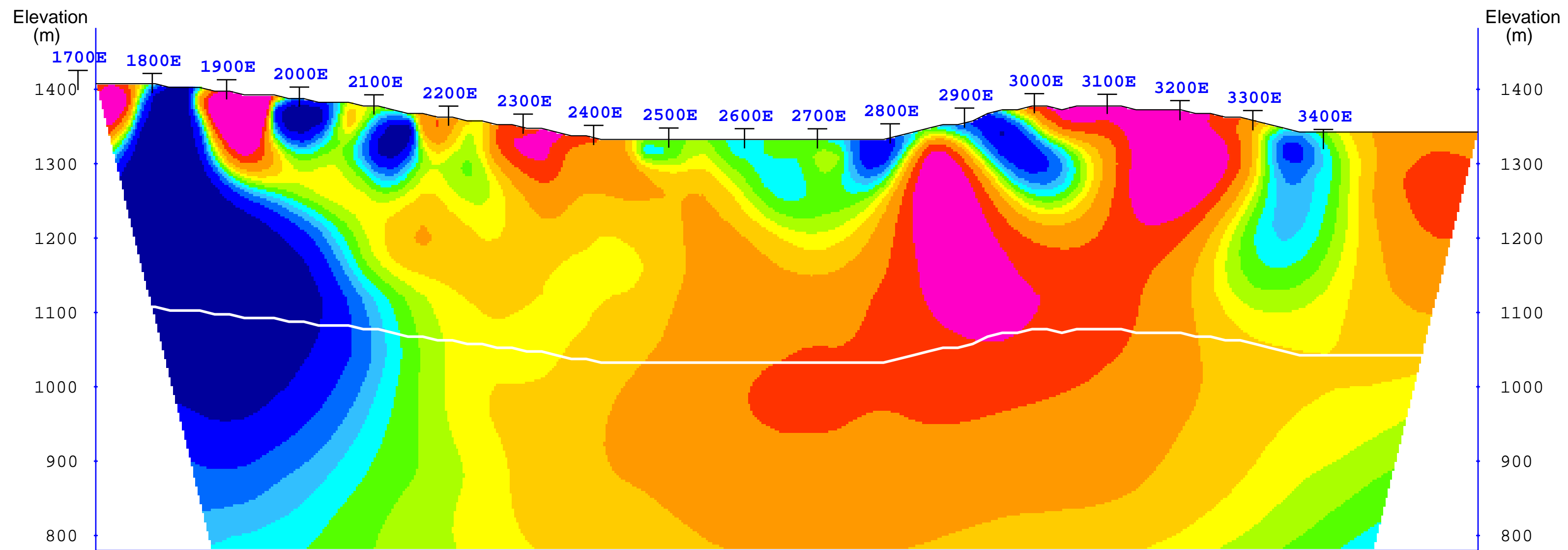
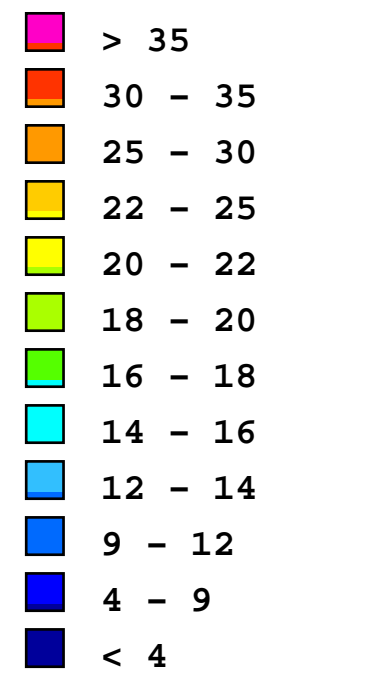
3D Cross Sections

False Color Contour Map

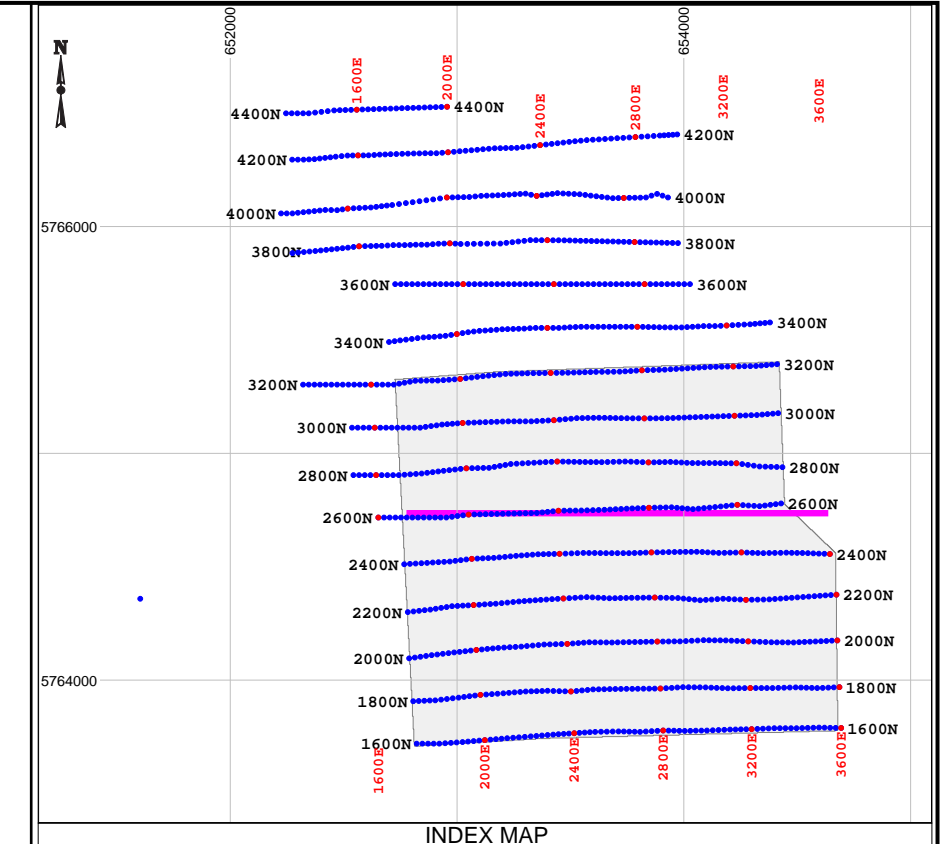
Section 2400N



Interpreted Resistivity (Ohm-m)



Interpreted Chargeability (ms)



Survey Information

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

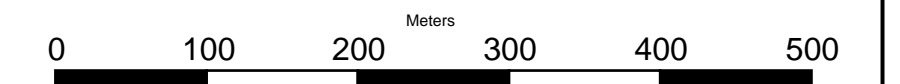
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW

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

Projection: UTM WGS84 Z10

Legend

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



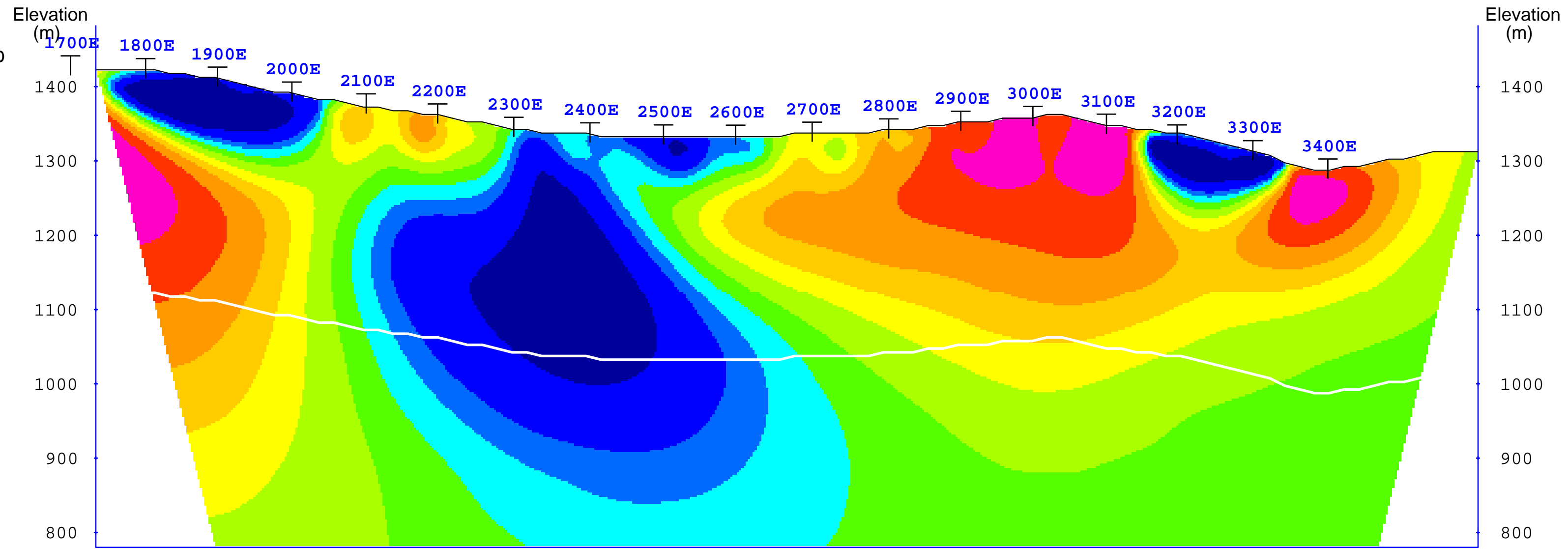
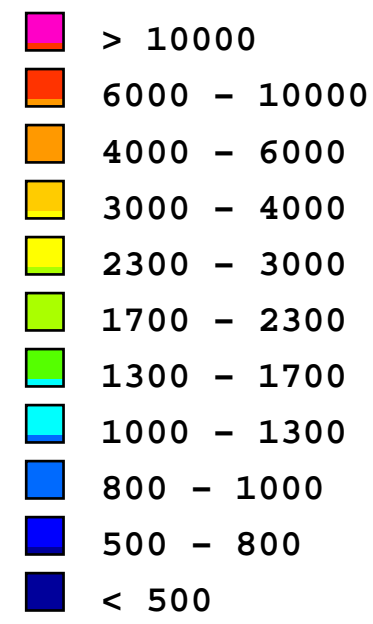
HAPPY CREEK MINERALS LTD.

Hen Property
 South Central Cariboo, B.C.

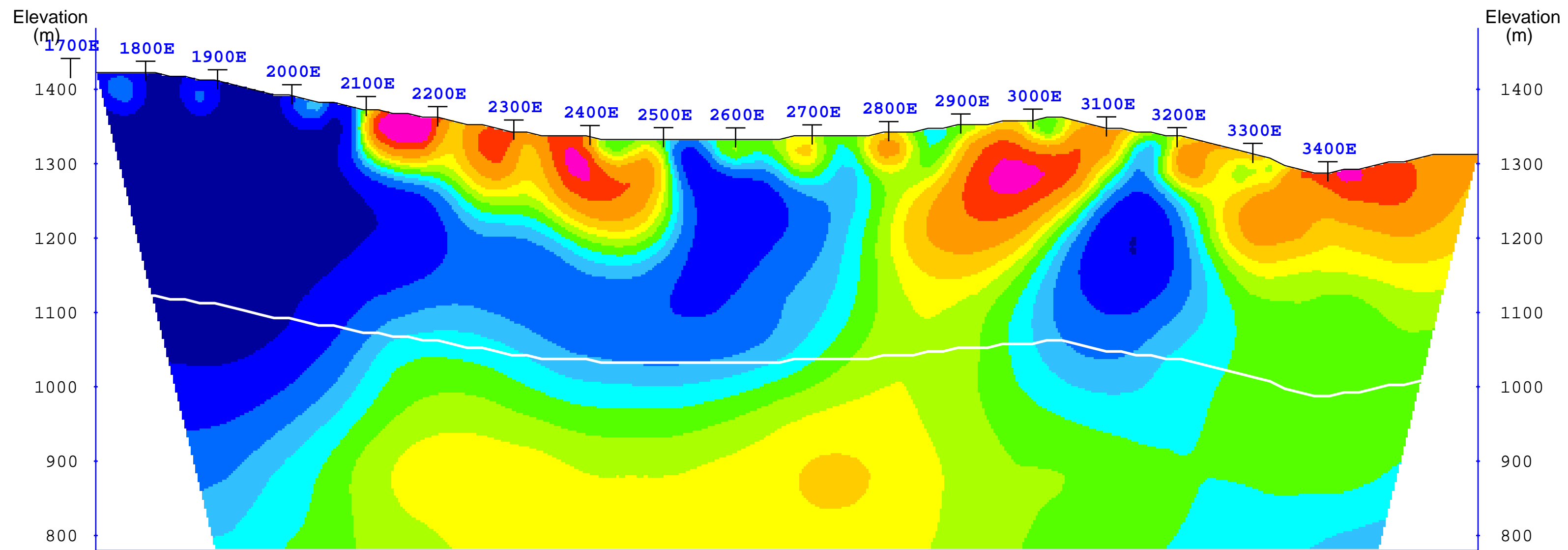
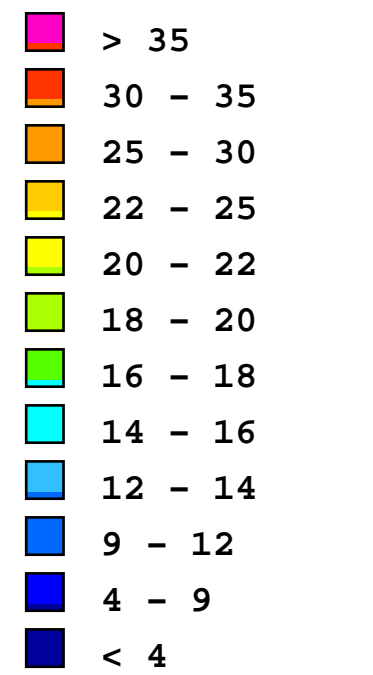
3D IP SURVEY

3D Cross Sections
 False Color Contour Map

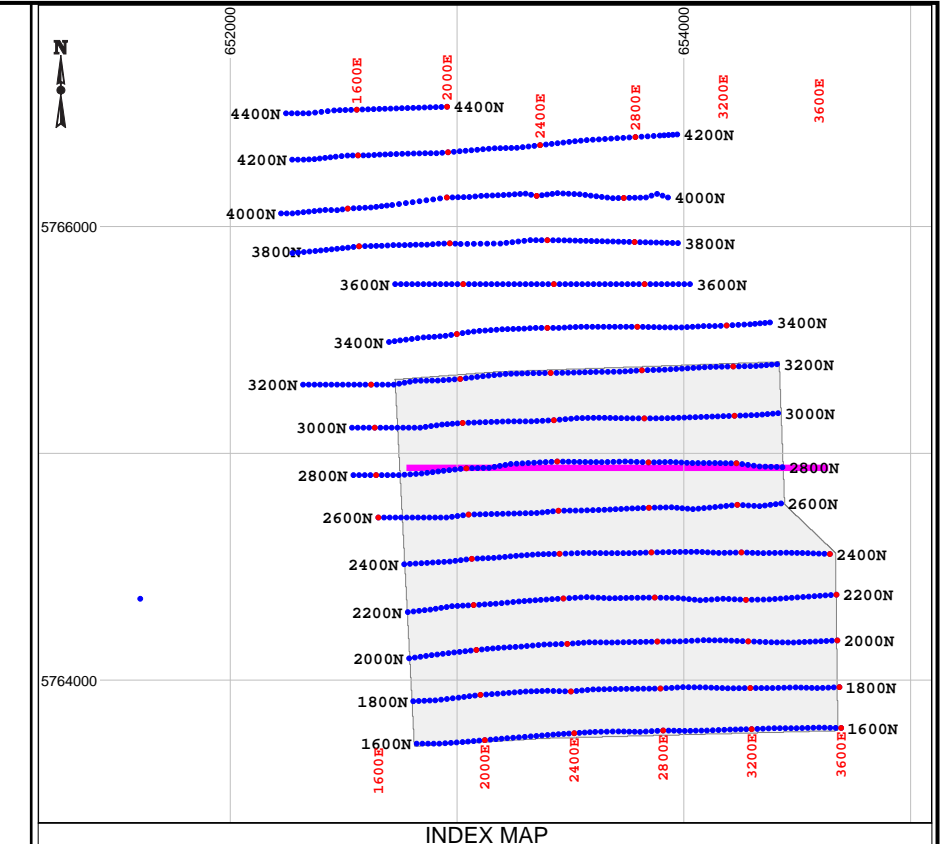
Section 2600N



Interpreted Resistivity (Ohm-m)



Interpreted Chargeability (ms)



Survey Information

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

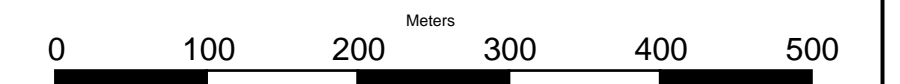
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW

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

Projection: UTM WGS84 Z10

Legend

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



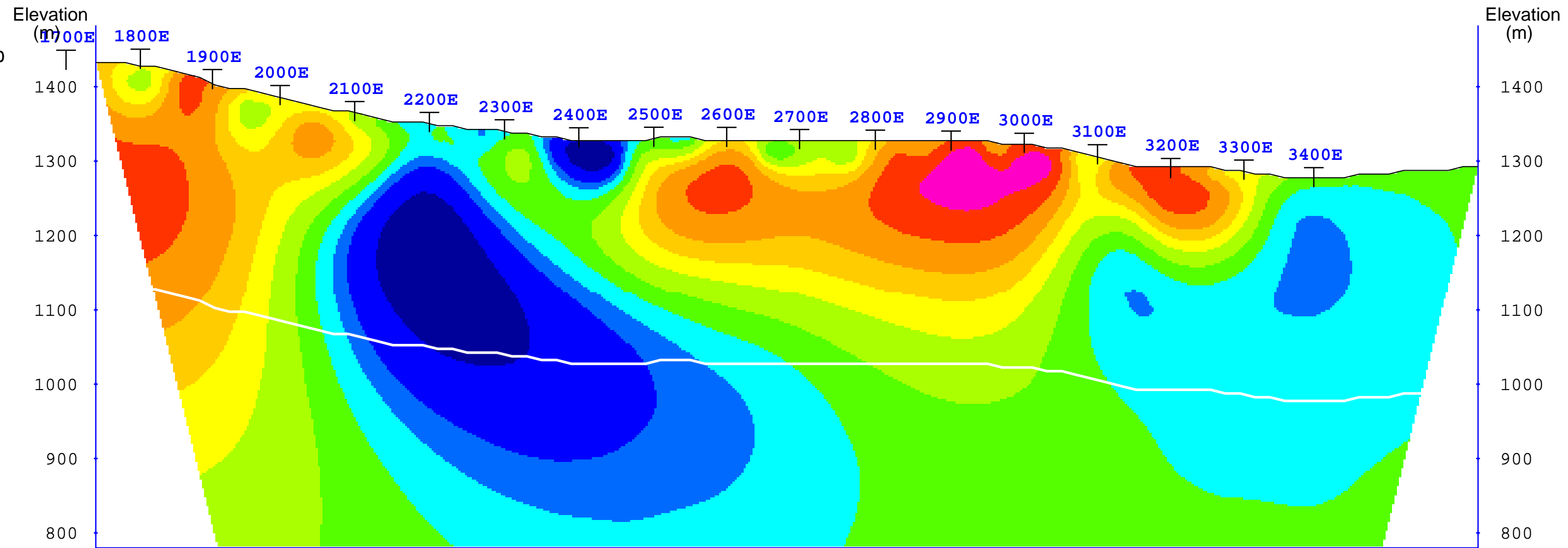
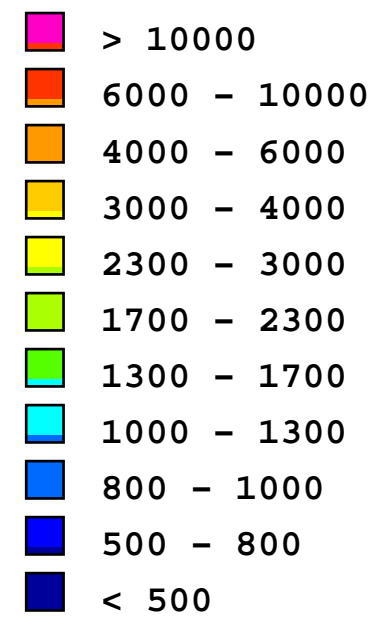
HAPPY CREEK MINERALS LTD.

Hen Property
 South Central Cariboo, B.C.

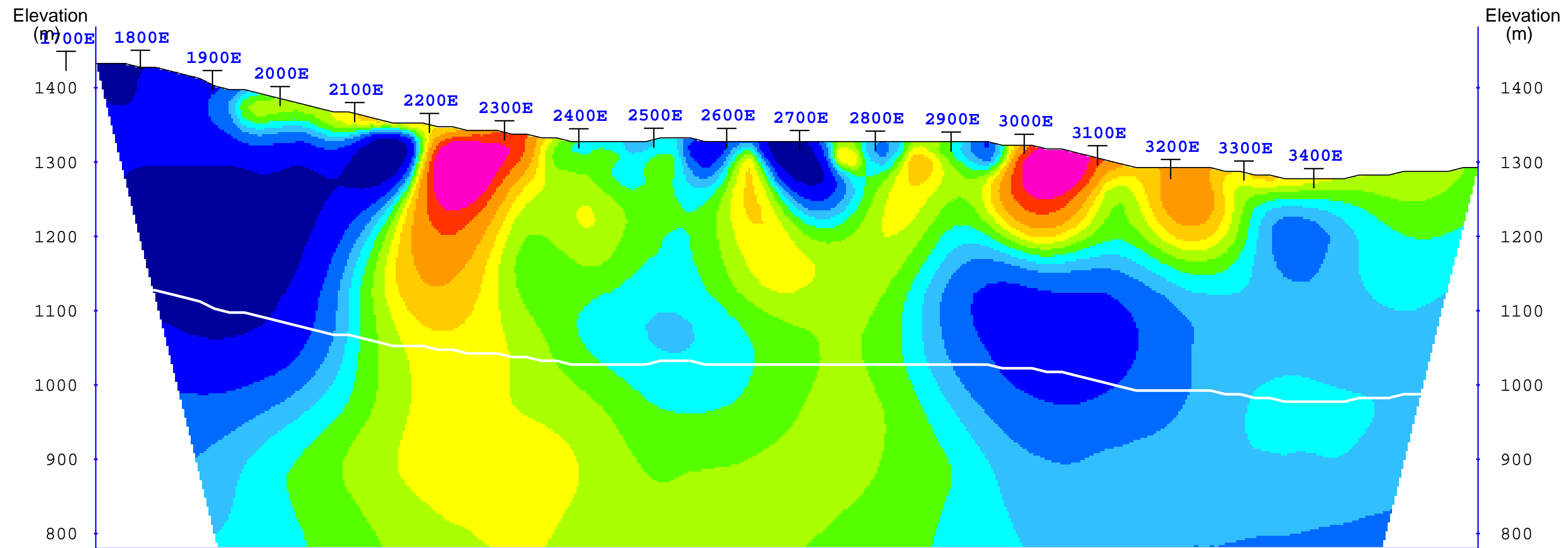
3D IP SURVEY

3D Cross Sections
 False Color Contour Map

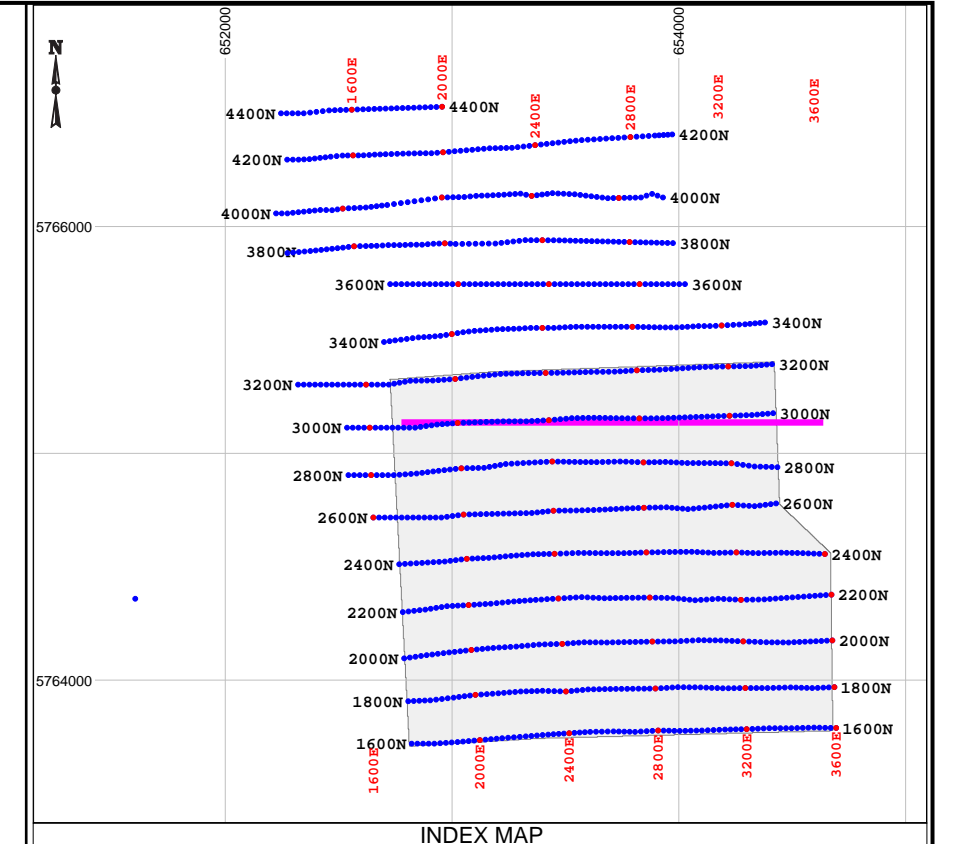
Section 2800N



Interpreted Resistivity (Ohm-m)



Interpreted Chargeability (ms)



Survey Information

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

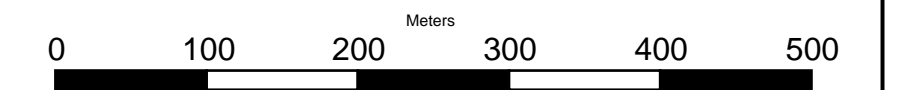
INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW

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

Projection: UTM WGS84 Z10

Legend

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



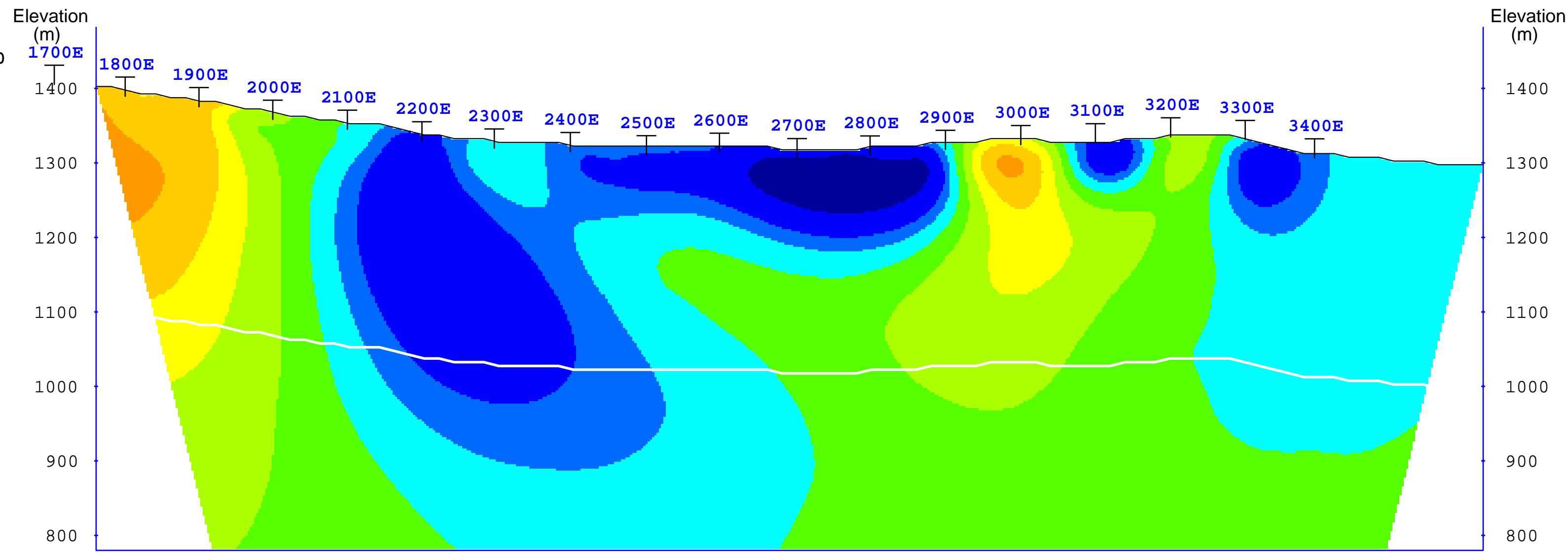
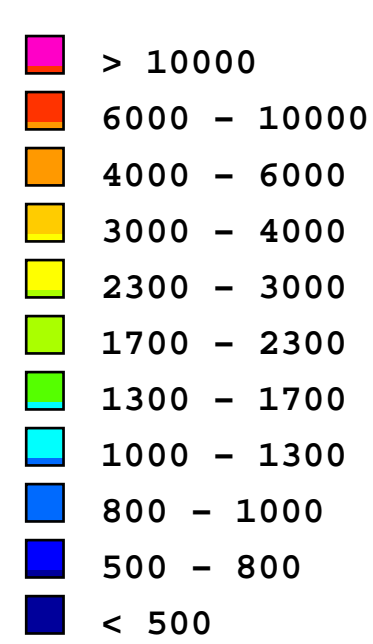
HAPPY CREEK MINERALS LTD.

Hen Property
 South Central Cariboo, B.C.

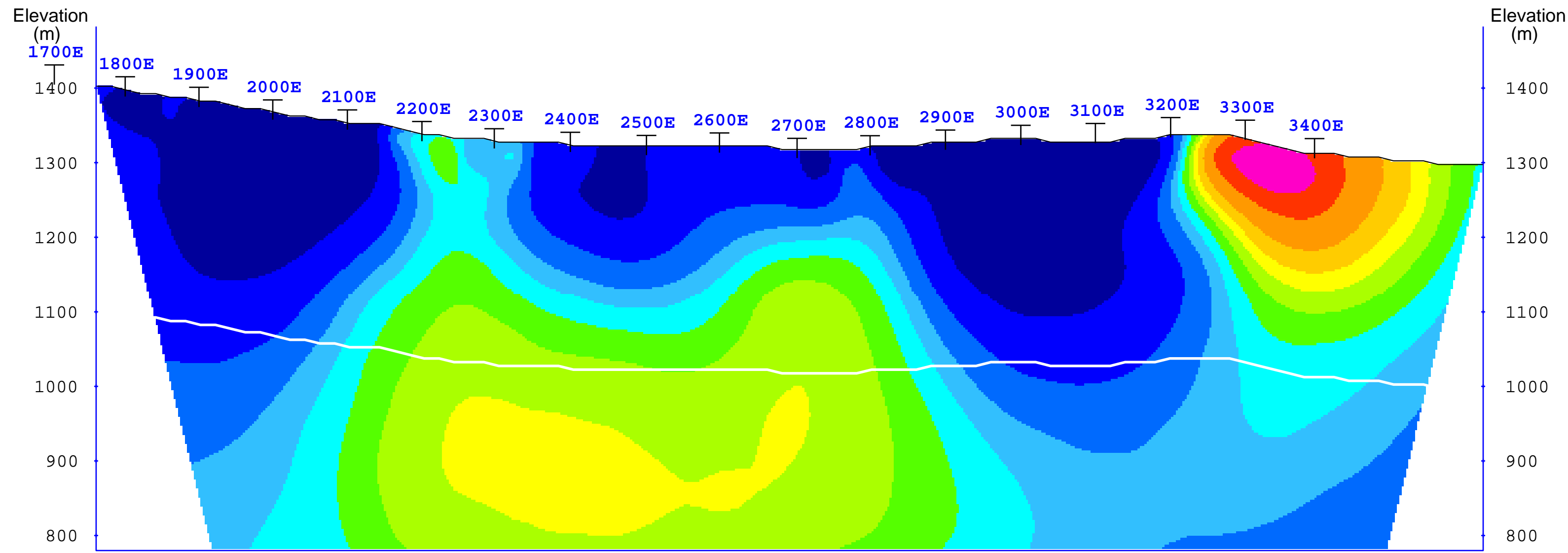
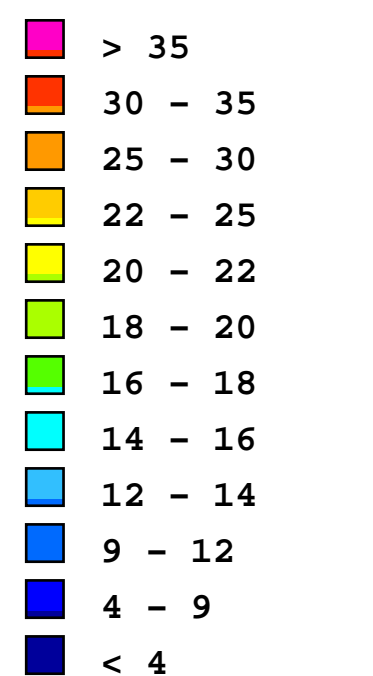
3D IP SURVEY

3D Cross Sections
 False Color Contour Map

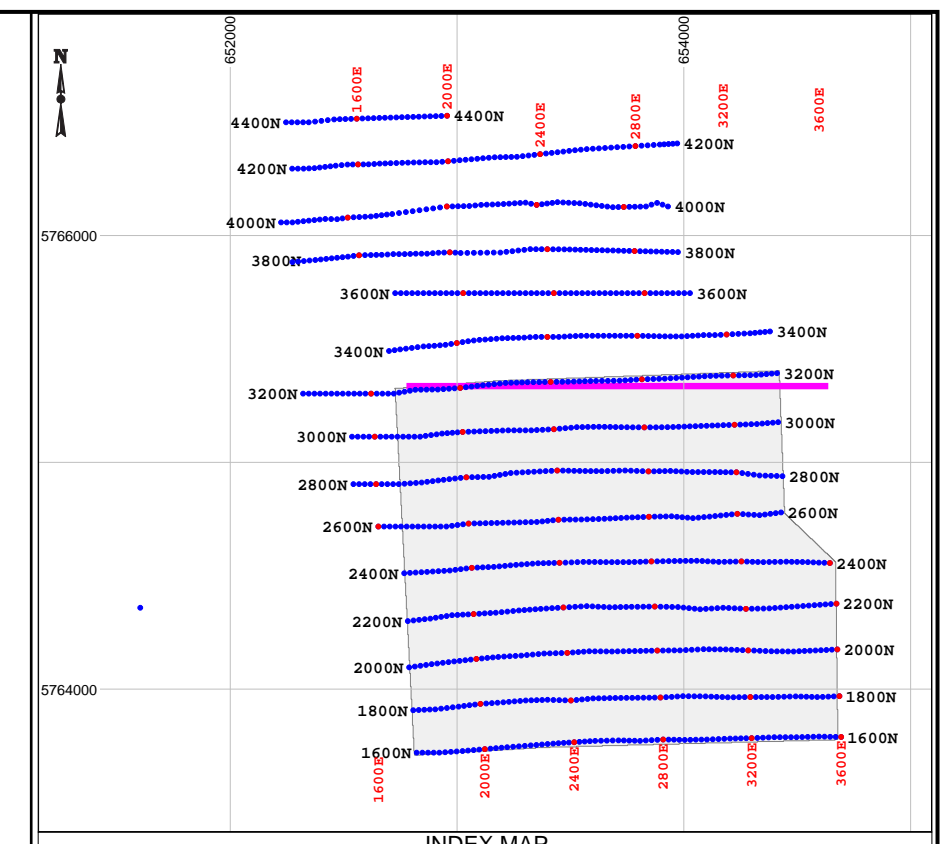
Section 3000N



Interpreted Resistivity (Ohm-m)

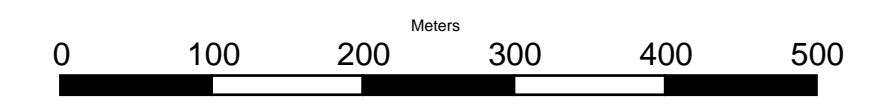


Interpreted Chargeability (ms)

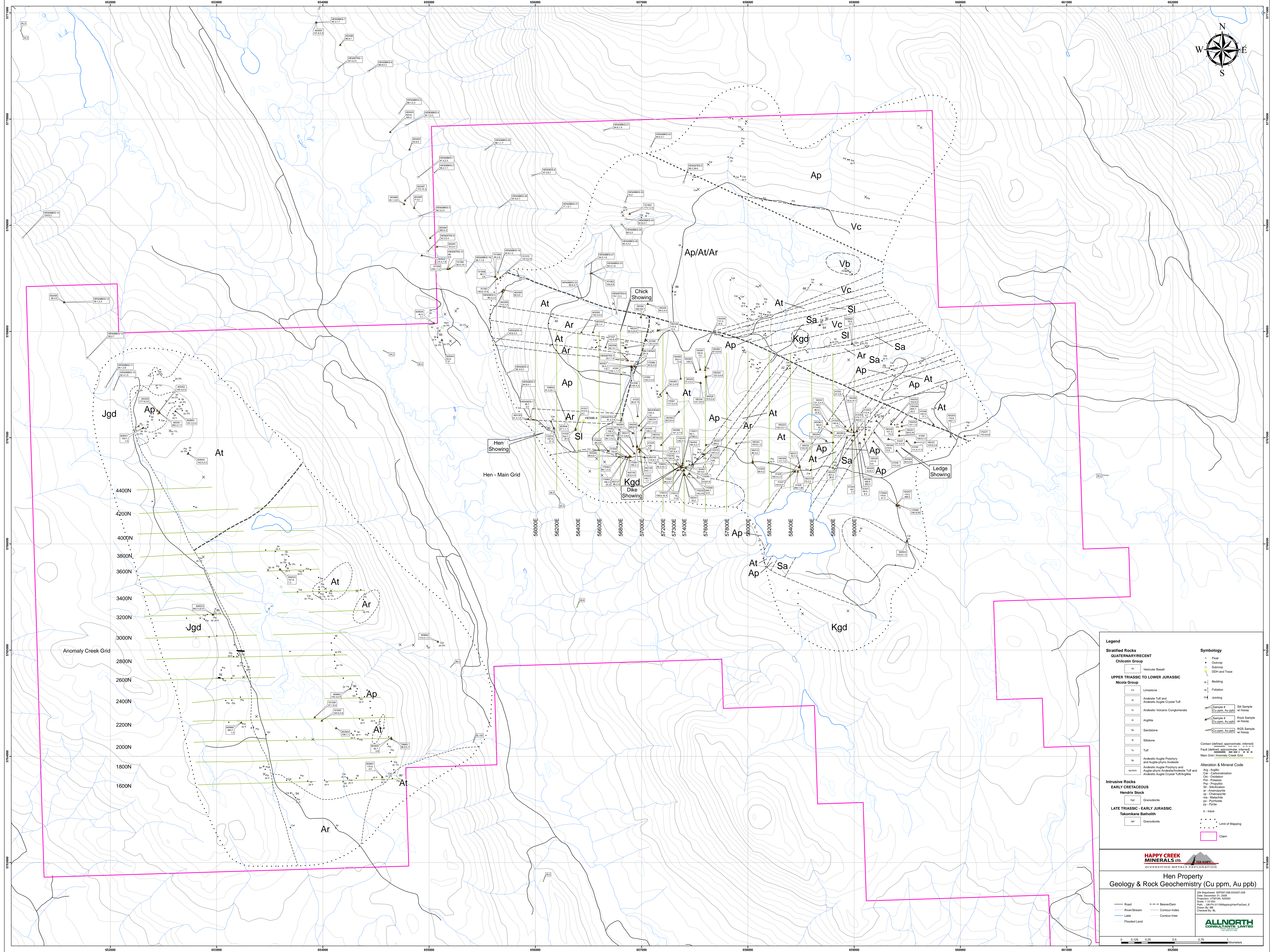
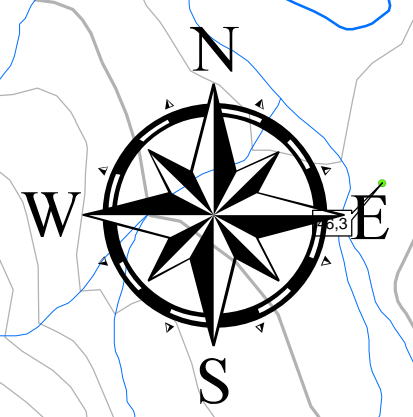


Survey Information
 3D IP Array : N=15,16 a=100m,200m
 INSTRUMENTATION
 RECEIVER: SJ-24 Full-Waveform Digital IP Receiver
 TRANSMITTER: GDD TX II 3.6 KW
 Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Survey Date: June-July,2008
 Mapping Date: July,2008
 Projection: UTM WGS84 Z10

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



HAPPY CREEK MINERALS LTD.
 Hen Property
 South Central Cariboo, B.C.
3D IP SURVEY
 3D Cross Sections
 False Color Contour Map
Section 3200N



Legend

Stratified Rocks
QUATERNARY/RECENT
 Chiclotin Group
 Va - Volcanic Basalt

UPPER TRIASSIC TO LOWER JURASSIC
 Nicola Group
 Lm - Limestone
 At - Andesite Tuff and Andesite/Angle Crystal Tuff
 Av - Andesitic Volcanic Conglomerate
 Ag - Argillite
 Sa - Sandstone
 Sl - Siltstone
 Tu - Tuff
 Ap - Andesitic/Angle Porphyry and Andesite/Angle Phryc Andesite
 ApAg - Andesitic/Angle Porphyry and Andesite/Angle Phryc Andesite Tuff and Andesite/Angle Crystal Tuff/Argillite

Intrusive Rocks
EARLY CRETACEOUS
 Hendrix Stock
 Kst - Granodiorite

LATE TRIASSIC - EARLY JURASSIC
 Takomkane Batholith
 Kst - Granodiorite

Symboly
 Road
 Outcrop
 Subcrop
 CDN and Trace
 Bedding
 Foliation
 Jointing
 Sample # (Cu ppm, Au ppb) - Rock Sample w/ Assay
 Sample # (Cu ppm, Au ppb) - Rock Sample w/ Assay
 Sample # (Cu ppm, Au ppb) - RGS Sample w/ Assay
 Context (Inferred, approximate, inferred)
 Fault (Inferred, approximate, inferred)
 Main Grid / Anomaly Creek Grid
 Alteration & Mineral Code
 Ag - Argillite
 Av - Andesitic/Angle Phryc Andesite
 Ox - Oxidation
 Pr - Propylitic
 SI - Silicification
 Ar - Arsenopyrite
 Ch - Chalcocite
 Ma - Malachite
 Py - Pyrite
 tr - trace
 Limit of Mapping
 Claim

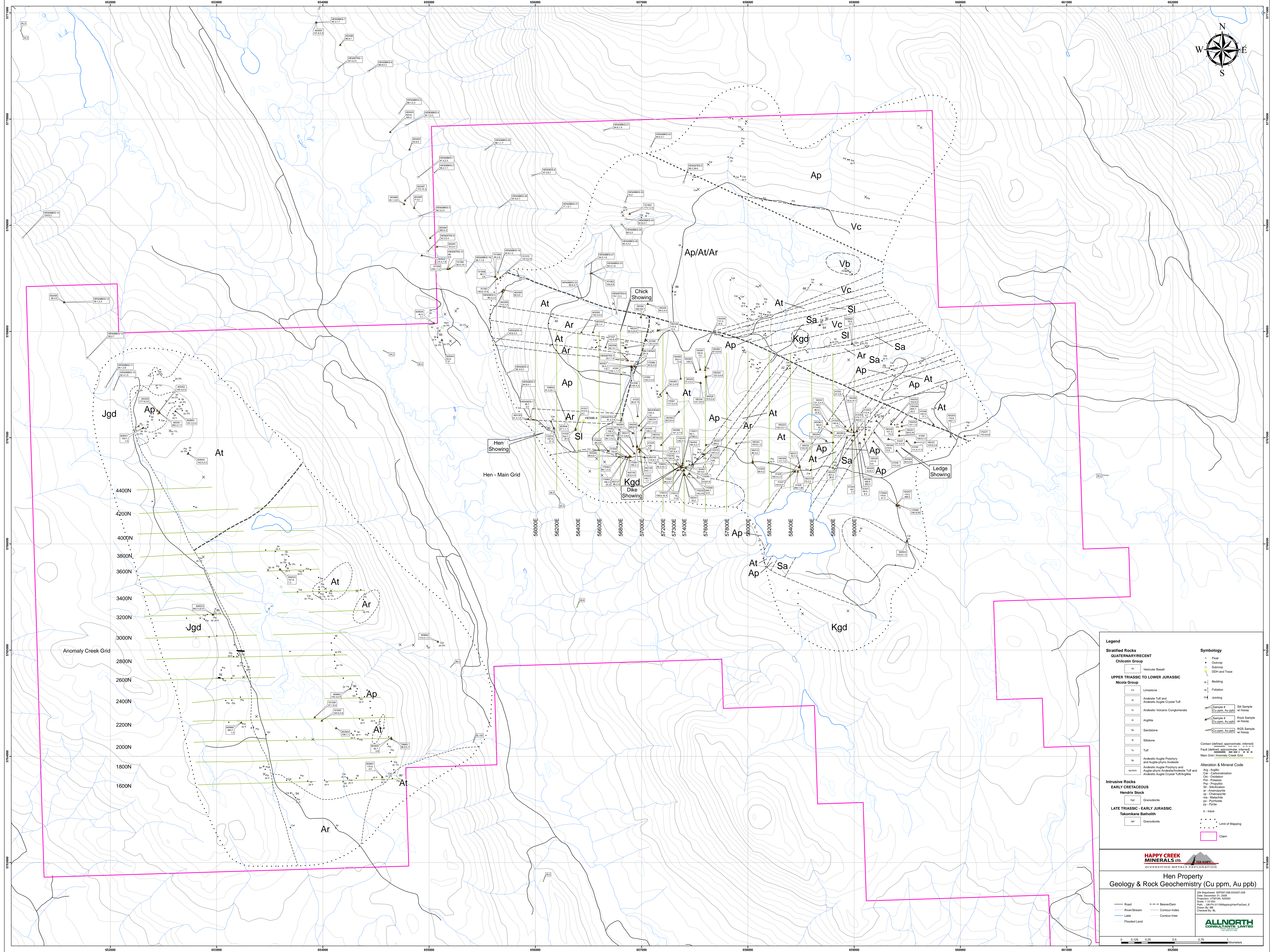
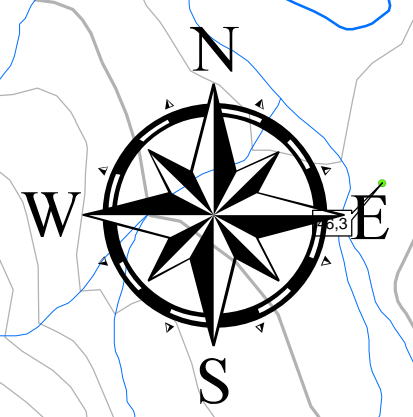
Happy Creek Minerals Ltd.
 Diversified Metals Exploration

Hen Property
 Geology & Rock Geochemistry (Cu ppm, Au ppb)

2016 MapData: 201609 008 234007 008
 Date: December 15, 2016
 Projection: UTM (NAD83)
 Scale: 1:50,000
 Drawn By: BS
 Checked By: BL

ALLNORTH CONSULTANTS LIMITED

0 0.125 0.25 0.5 1 Kilometers



Legend

Stratified Rocks
QUATERNARY/RECENT
 Chiclotin Group
 Va - Volcanic Basalt

UPPER TRIASSIC TO LOWER JURASSIC
 Nicola Group
 Lm - Limestone
 At - Andesite Tuff and Andesite/Angle Crystal Tuff
 Av - Andesitic Volcanic Conglomerate
 Ag - Argillite
 Sa - Sandstone
 Sl - Siltstone
 Tu - Tuff
 Ap - Andesitic/Angle Porphyry and Andesite/Angle Phryc Andesite
 ApAg - Andesitic/Angle Porphyry and Andesite/Angle Phryc Andesite Tuff and Andesite/Angle Crystal Tuff/Argillite

Intrusive Rocks
EARLY CRETACEOUS
 Hendrix Stock
 Kgd - Granodiorite

LATE TRIASSIC - EARLY JURASSIC
 Takomkane Batholith
 Kgd - Granodiorite

Symbology
 Road
 Outcrop
 Subcrop
 CDN and Trace
 Bedding
 Foliation
 Jointing
 Sample # (Cu ppm, Au ppb) - Rock Sample w/ Assay
 Sample # (Cu ppm, Au ppb) - Rock Sample w/ Assay
 Sample # (Cu ppm, Au ppb) - RGS Sample w/ Assay
 Context (Inferred, approximate, inferred)
 Fault (Inferred, approximate, inferred)
 Main Grid / Anomaly Creek Grid
 Alteration & Mineral Code
 Ag - Argillite
 Av - Andesitic/Angle Phryc Andesite
 Ox - Oxidation
 Pr - Propylitic
 SI - Silicification
 Ar - Arsenopyrite
 Ch - Chalcocite
 Ma - Malachite
 Py - Pyrite
 tr - trace
 Limit of Mapping
 Claim

Happy Creek Minerals Ltd.
 Diversified Metals Exploration

Hen Property
 Geology & Rock Geochemistry (Cu ppm, Au ppb)

2016 Mapworks: 201609 008 234007 008
 Date: December 15, 2016
 Projection: UTM (NAD83)
 Scale: 1:50,000
 Drawn By: BS
 Checked By: BL

ALLNORTH CONSULTANTS LIMITED

0 0.125 0.25 0.5 1 Kilometers